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VOLUME 3 - APPENDIXES D THROUGH K
REMEDIAL INVESTIGATION REPORT
PURITY OIL SALES SITE
FRESNO, CALIFORNIA

Appendix D

SAMPLING AND ANALYSES INFORMATION

SUMMARY OF SAMPLES COLLECTED DURING PHASE I

Surface Soil Samples

Grid Point Locations

A1[D], A2, A3, A4, A5, A6, B1, B2, B3[D], B4, B5, B6, C1, C2, C3, C4[D], C5, C6, C7, C18, C19, C20, D1, D2, D3, D4, D5[D], D6, D7, D8, D9, D10, D11, D12, D13, D14[D], D15, D16, D17, D18[D], D19, D20, D21, E1, E2, E3, E4, E5, E6[D], E7, E8, E9, E10, E11, E12[D], E13, E14, E15, E16, E17[D], E18, E19, E20, E21[D], E22, E23, E24, E25, F1, F2, F3, F4, F5, F6, F7, F8, F9, F10[D], F11, F12, F13, F14, F15, F16[D], F17, F18, F19[D], F20, F21, F22, F23, F24[D], F25, G1, G2, G3, G4, G5, G6, G7, G8, G9, G10, G11, G12, G13, G14, G15, G16, G17, G18, G19, G20, G21, G22, G23, G24, G25, H1, H2, H3, H4, H5, H6, H7, H8, H9, H10, H11, H12, H13, H14, H15, H16, H17, H18, H19, H20, H21, H22, H23[D], H24, H25[D], H26, AA3, AA4, AA5, AA6

Non-Grid Point Locations

Pit 1/Trench 3
Sump 1/Trench 2
Pit 2/Trench 1
Pit 2/Trench 1 (Bulk Sample)
West of Row F in Railroad Tracks
South Side of Waste Pit at West End of Site
10′ East of F24
Center of Square 17E, 17F, 18E, 18F, (22′ West, 22′s of F17)[D]
20′ East of D19
Between D15 and D16 (22′ West of D16)
20′ West of E10
20′ North, 15′ West of E11
47.5′ East of C1
47.5′ East of E1
225′ North of Northwest Property Corner, 100′ West of Railroad Tracks
325′ North of Northwest Property Corner, 100′ West of Railroad Tracks Centerline
150′ South of Canal Centerline, 100′ West of Railroad Tracks Centerline
250′ South of Canal Centerline, 100′ West of Railroad Tracks Centerline
11′ South of Canal Centerline, 18′ West of Railroad Tracks Centerline
50′ North of Southwest Property Corner, 25′ West of Railroad Tracks Centerline
20′ West of Property Line
50′ North of Northwest Property Corner, 23′ West of Railroad Tracks Centerline
12′ South of Canal Centerline, 250′ East of Southwest Property Corner
12′ South of Canal Centerline, 600′ East of Southwest Property Corner

[D]Indicates Duplicate Sample Collected

SUMMARY OF SAMPLES COLLECTED DURING PHASE I (Cont.)

Non-Grid Point Locations (continued)

27′ North of Northwest Property Corner in Trailer Park
45′ West, 30′ North of Northwest Property Line in Trailer Park
250′ North, 500′ West Grid Point Along Property Line in Trailer Park[D]
10′ North of Northwest Property Point in Trailer Park[D]
50′ North of H6
50′ North of H7
70′ West of H24
15′ East, 8′ North of G25
G3 (Bulk Sample)
Pit 1 (Bulk Sample)

Total Surface Sample: 201

Canal Sediment Samples

#1 West of Highway 99 (downstream)[D]
#2 East of Highway 99, West of Site
#3 West of Railroad Tracks
#4 South of E25[D]
#5 South of E23-E24
#6 South of D22
#7 South of D20
#8 South of D18-D19
#9 South of D16-D17
#10 South of D15
#11 South of D13
#12 South of D11
#13 South of D9
#14 West of B6
#15 West of A6
#16
#17 West Side of Maple Avenue (upstream)
#17 West Side of Maple Avenue (Bulk Sample)

Total Canal Sediment Samples: 20

[D]Indicates Duplicate Sample Collected

SUMMARY OF SAMPLES COLLECTED DURING PHASE I (Cont.)

Subsurface Samples

Corehole:	#1	#2	#3	#4
Location:	E3	D10	E17	F20
Depth:	2 1/2-4	2 1/2-4	2 1/2-3	5-6 1/2
	5-6 1/2	5-6 1/2	6-7 1/2	7 1/2-9
	7 1/2-9	7 1/2-9	7 1/2-9	10-11 1/2
	10-11 1/2	10-11 1/2	10-11 1/2	12 1/2-14
	12 1/2-14	12 1/2-14	12 1/2-14	15-16 1/2
	15-16 1/2	15-16 1/2	15-16 1/2	17 1/2-19
	20-21 1/2	17 1/2-19	17 1/2-19	20-21 1/2
	25-26 1/2	20-21 1/2	20-21 1/2	25-26 1/2
	30-31 1/2	22 1/2-24	25-26 1/2	30-31 1/2
	35-36 1/2	25-26 1/2	30-35 1/2	35-36 1/2
	40-41 1/2	30-31 1/2	35-36 1/2	40-41 1/2
	45-46 1/2	35-36 1/2	40-41 1/2	45-46 1/2
		40-41 1/2	45-46 1/2	50-51 1/2
		45-46 1/2	50-51 1/2	
		50-51 1/2	55-56 1/2	
		55-56 1/2		

Corehole:	#5	#6	#7	#8
Location:	E13	11.5'N, 14'W of E6	D6	12.5'W 11.5'N of E5
Depth:	2 1/2-4	2 1/2-4	2 1/2-4	2 1/2-4
	5-6 1/2	5-6 1/2	5-6 1/2	5-6 1/2
	7 1/2-9	7 1/2-9	7 1/2-9	7 1/2-9
	10-11 1/2	10-11 1/2	10-11 1/2	10-11 1/2
	12 1/2-14	12 1/2-14	15-16	17 1/2-19
	15-16 1/2	17-17 1/2		
	17 1/2-19	20-21		
	20-21 1/2	22 1/2-24		
	22 1/2-24	25-26 1/2		
	25-26 1/2	30-31 1/2		
	30-31 1/2	35-36 1/2		
	35-36 1/2	40-41 1/2		
	40-41 1/2	45-46 1/2		
	45-46 1/2			
	50-51 1/2			

SUMMARY OF SAMPLES COLLECTED DURING PHASE I (Cont.)

Subsurface Samples - (Continued)

Corehole:	#9	#10	#11
Location:	2.5'W,2.5'N of C4	1'E,2'N of B6	44'W,32'N of C6
Depth:	2 1/2-4	2 1/2-4	2 1/2-4
	5-6 1/2	5-6 1/2	5-6 1/2
	7 1/2-9	7 1/2-9	7 1/2-9
	10-11 1/2	10-11 1/2	10-11 1/2
	15-16 1/2	15-16 1/2	15-16 1/2

Corehole:	#12	#13	#14	#15
Location:	6'E,16'S of H7	F8	4 1/2 S of E8	F15
Depth:	2 1/2-4	2 1/2-4	2 1/2-2.8	2 1/2-4
	5-6 1/2	5-6 1/2	5-6 1/2	5-6 1/2
	7 1/2-9	7 1/2-9	7 1/2-9	7 1/2-9
	10-11 1/2	10-11.4	10-11 1/2	10-11 1/2
	15-15.7	15-16.3	12 1/2-14	12 1/2-14
	20-21 1/2	20-20.7	15-16 1/2	15-16 1/2
		20.7-21 1/2	17 1/2-19	17 1/2-19
			20-21 1/2	20-21 1/2

Corehole:	#16	#17	#18	#19
Location:	D15	D20	10'N of F24	F22
Depth:	3-4 1/2	7 1/2-9	2 1/2-4[D]	2 1/2-4
	5-6.3	10-11 1/2	5-6 1/2[D]	5-6 1/2[D]
	7 1/2-9	12 1/2-14	7 1/2-9[D]	7 1/2-9[D]
	10-11 1/2	15-16 1/2[D]	10-11 1/2[D]	10-11 1/2[D]
	12 1/2-14	17 1/2-18.8[D]	12 1/2-14[D]	12 1/2-14[D]
	15-16 1/2	20-21 1/2[D]	15-16 1/2[D]	15-16 1/2[D]
	17 1/2-19		17 1/2-19[D]	17 1/2-19[D]
	20-21 1/2		20-21.4[D]	20-20.8

[D]Indicates Duplicate Sample Collected

SUMMARY OF SAMPLES COLLECTED DURING PHASE I (Cont.)

Subsurface Samples - (Continued)

Corehole:	#20	#21
Location:	24'N,13'E of F4	17'S,15'W of F12
Depth:	2 1/2-4[D]	5-6 1/2
	5-6 1/2[D]	7 1/2-9[D]
	7 1/2-9[D]	10-11 1/2
	10-11 1/2[D]	12 1/2-14
	15-16 1/2[D]	15-16 1/2
	20-21 1/2[D]	20-21 1/2
	25-26 1/2[D]	25-26 1/2
	30-31 1/2[D]	30-31 1/2
	35-36 1/2[D]	
	40-41 1/2[D]	
	45-46 1/2[D]	

Corehole:	#22	#23
Location:	5'SE of F11	24'W,5.5'N of F7
Depth:	2 1/2-4	2 1/2-4
	5-6.3	5-6.2
	7 1/2-9	7 1/2-9
	10-11 1/2[D]	10-11 1/2
	12 1/2-14	12 1/2-14[D]
	15-16 1/2	15-16 1/2
	20-21 1/2	20-21 1/2
	25-26 1/2	25-26 1/2
	30-31 1/2	30-31 1/2

Total Subsurface Samples: 205

Surface Water Samples

Canal Water

#1 West of Highway 99 (downstream)[D]
#2 East of Highway 99, West of Site
#3 West of Railroad Tracks
#4 South of E25[D]
#5 South of E23-E24
#6 South of D22
#7 South of D20
#8 South of D18-D19
#9 South of D16-D17

[D]Indicates Duplicate Sample Collected

SUMMARY OF SAMPLES COLLECTED DURING PHASE I (Cont.)

Surface Water Samples - (Continued)

#10 South of D15
#11 South of D13
#12 South of D11
#13 South of D9
#14 West of B6
#15 West of A6
#16
#17 West Side of Maple Avenue (Upstream)

Total Surface Water Samples: 19

Ground water Samples

Corehole #1 E3
Corehole #2 D10
Corehole #3 E17
Corehole #4 F20
Corehole #5 E13
Corehole #6 11.5'North,14'West of E6
Corehole #20 24'N,13'E of F4
Coast Labs
3341 S. Maple
Van Gas
Fresno Iron & Steel
Tall Trees
Burkhardt
3147 Golden State Frontage Road
2055 North Avenue
3014 S. Cedar
3050 S. Cedar
W-1S
W-1D
W-2S
W-2D
W-3S
W-3D
W-4
W-5
W-6
W-7
W-8
W-9
EPA-1
EPA-2
EPA-7
Well #4
Well #6

SUMMARY OF SAMPLES COLLECTED DURING PHASE I (Cont.)

Ground water Samples - (Continued)

Private Well L
Private Well I
Private Well F
Blank

Total Groundwater Samples: 37

Air Samples

Grid Point B6
Grid Point E11
Grid Point F8
Trench 1 at E14 (Upwind)
Trench 1 at E14 (No Foam)
Trench 1 at E14 (Downwind)
Trench 1 at E14 (Foam 91-59)
Trench 1 at E14 (Sanifoam)
Trench 2 at F8 (Foam 91-60)
Trench 2 at F8 (No Foam)
Trench 2 (Foam FC-600)
Trench 2 (Foam 92-35)
Trench 2
Core 1 at 15 ft
Core 2 at 10 ft
Core 3 at 12.5 ft
Core 4 at 15 ft
Core 5 at E13
Core 6 at 11.5'N, 14'W of E6

Total Air Samples: 19

SUMMARY OF SOLID SAMPLES SUBJECTED TO LEVEL B INTERMEDIATE ANALYSES

Surface Soil Samples

Grid Point Sample Locations

Grid Point	Type[1]	Grid Point	Type[1]	Grid Point	Type[1]
C4	W/C	G5	W/C	H20	W/C
C4[D]	W/C	G6	W/C	H21	NC
C6	W/C	G14	W/C	H23	W/C
C7	W/C	G22	W/C	H24	NC
D1	W/C	G25	W/C	H25	NC
D7	W/C	H2	W/C	H26	NC
D8	W/C	H3	W/C	AA4	NC
E5	W/C	H6	W/C	AA6	NC
E7	W/C	H7	W/C		
E12	W/C	H8	NC		
E12[D]	W/C	H9	NC		
E16	W/C	H11	NC		
E23	W/C	H12	NC		
F4	W/C	H13	NC		
F25	W/C	H18	W/C		
G4	W/C	H19	W/C		

[1] Type of Material is Based on Analyses Performed:

W/C - Waste and Contaminated Soil;

NC - Non-contaminated Soil

[D] Indicates Duplicate Sample Analyzed

SUMMARY OF SOLID SAMPLES SUBJECTED TO LEVEL B (Cont.)
INTERMEDIATE ANALYSES

Surface Soil Samples

Non-Grid Point Sample Locations

Type[1]	Location
W/C	West of Row F in Railroad Tracks
W/C	South side of Waste Pit at West End of Site
W/C	10′ East of F24
W/C	Center of Square 17E, 17F, 18E, 18F (22′W, 22′s of F17)
W/C	Center of Square 17E, 17F, 18E, 18F (22′W, 22′s of F17)
W/C	20′ East of D19
W/C	Between D15 and D16 (22′ West of D16)
W/C	20′ East of E10
W/C	20′ North, 15′ West of E11
W/C	47.5′ East of C1
W/C	225′ North of NW Property Corner, 100′ West of Railroad Tracks
W/C	150′ South of Canal Centerline, 100′ West of Railroad Tracks Centerline
NC	11′ South of Canal Centerline, 18′ West of Railroad Tracks Centerline
NC	20′ West of Property Line
W/C	12′ South of Canal Centerline, 250′ East of SW Property Corner
W/C	12′ South of Canal Centerline, 250′ East of SW Property Corner
NC	27′ North of kNW Property Corner in Trailer Park
NC	45′ West, 30′ North of NW Property Corner in Trailer Park
W/C	250′ North, 500′ West Grid Point Along Property Line in Trailer Park
W/C	10′ North of NW Property Point in Trailer Park
W/C	10′ North of NW Property Point in Trailer Park

SUMMARY OF SOLID SAMPLES SUBJECTED TO LEVEL B (Cont.)

INTERMEDIATE ANALYSES

Surface Soil Samples

Non-Grid Point Sample Locations

Type[1]	Location
N/C	50′ North of H6
W/C	70′ West of H24
W/C	15′ East, 8′ North of G25

[1] Type of Material is Based on Analyses Performed:

W/C - Waste and Contaminated Soil;

NC - Non-contaminated Soil

[D] Indicates Duplicate Sample Analysis

SUMMARY OF SOLID SAMPLES SUBJECTED TO LEVEL B (Cont.)

INTERMEDIATE ANALYSES

Surface Soil Samples

Canal Sediments

#1	(Downstream)
#1[D]	(Downstream)
#2	
#3	
#4	
#4[D]	
#5	
#6	
#7	
#9	
#10	
#11	
#12	
#14	
#15	
#16	
#17	(Upstream)

[D]Indicates duplicate sample analysis

SUMMARY OF SOLID SAMPLES SUBJECTED TO LEVEL B (Cont.)

INTERMEDIATE ANALYSES

Subsurface Samples

Corehole: #1
Location: E3

Depth	Type
2 1/2 - 4	W/C
5 - 6 1/2	W/C
10 - 11 1/2	W/C
15 - 16 1/2	W/C
20 - 21 1/2	W/C
25 - 26 1/2	W/C
30 - 31 1/2	W/C
35 - 36 1/2	W/C
40 - 41 1/2	W/C
45 - 46 1/2	W/C

Corehole: #2
Location: D10

Depth	Type
5 - 6 1/2	W/C
10 - 11 1/2	W/C
15 - 16 1/2	W/C
25 - 26 1/2	W/C
35 - 36 1/2	W/C
45 - 46 1/2	W/C

Corehole: #3
Location: E17

Depth	Type
7 1/2 - 9	W/C
10 - 11 1/2	W/C
12 1/2 - 14	W/C
17 1/2 - 19	W/C
25 - 26 1/2	W/C
35 - 36 1/2	W/C
45 - 46 1/2	W/C

Corehole: #4
Location: F20

Depth	Type
7 1/2 - 9	W/C
10 - 11 1/2	W/C
15 - 16 1/2	W/C
25 - 26 1/2	W/C
35 - 36 1/2	W/C
45 - 46 1/2	W/C

Corehole: #5
Location: E13

Depth	Type
7 1/2 - 9	W/C
10 - 11 1/2	W/C
15 - 16 1/2	W/C
20 - 21 1/2	W/C
25 - 26 1/2	W/C
35 - 36 1/2	W/C
45 - 46 1/2	W/C

SUMMARY OF SOLID SAMPLES SUBJECTED TO LEVEL B (Cont.)

INTERMEDIATE ANALYSES

Subsurface Samples

Corehole: #6
Location: 11.5'N, 14'W of E6

Depth	Type
2 1/2 - 4	W/C
5 - 6 1/2	W/C
10 - 11 1/2	W/C
12 1/2 - 14	W/C
20 - 21	W/C
25 - 26 1/2	W/C
30 - 31 1/2	W/C
35 - 36 1/2	W/C
40 - 41 1/2	W/C
45 - 46 1/2	W/C

Corehole: #7
Location: D6

Depth	Type
2 1/2 - 4	W/C
7 1/2 - 9	W/C

Corehole: #8
Location: 12.5'W, 11.5'N of

Depth	Type
5 - 6 1/2	W/C
17 - 19	W/C

Corehole: #9
Location: 2.5'W, 2.5'N OF C4

Depth	Type
2 1/2 - 4	W/C
7 1/2 - 9	W/C

Corehole: #10
Location: 1'E, 2'N of B6

Depth	Type
2 1/2 - 4	W/C
10 - 11 1/2	W/C
15 - 16 1/2	W/C

SUMMARY OF SOLID SAMPLES SUBJECTED TO LEVEL B (Cont.)

INTERMEDIATE ANALYSES

Subsurface Samples

Corehole: #11
Location: 44'W, 32'N of C6

Depth	Type
2 1/2 - 4	W/C
15 - 16 1/2	W/C

Corehole: #12
Location: 6'E, 16'S of H7

Depth	Type
2 1/2 - 4	W/C
10 - 11 1/2	W/C
20 - 21 1/2	W/C

Corehole: #13
Location: F8

Depth	Type
5 - 6 1/2	W/C
10 - 11.4	W/C
20 - 20.7	W/C

Corehole: #14
Location: 4 1/2's of E8

Depth	Type
5 - 6 1/2	W/C
10 - 11 1/2	W/C
17 1/2 - 19	W/C

Corehole: #15
Location: F15

Depth	Type
5 - 6 1/2	W/C
10 - 11 1/2	W/C
15 - 16 1/2	W/C

Corehole: #16
Location: D15

Depth	Type
5 - 6.3	W/C
10 - 11 1/2	W/C
20 - 21 1/2	W/C

Corehole: #17
Location: D20

Depth	Type
7 1/2 - 9	W/C
15 - 16 1/2	W/C

Corehole: #18
Location: 10'N of F24

Depth	Type
5 - 6 1/2	W/C
10 - 11 1/2	W/C
17 1/2 - 19	W/C

SUMMARY OF SOLID SAMPLES SUBJECTED TO LEVEL B (Cont.)

INTERMEDIATE ANALYSES

Subsurface Samples

Corehole: # 19
Location: F22

Depth	Type
5 - 6 1/2	W/C
10 - 11 1/2	W/C
20 - 20.8	W/C

Corehole: # 20
Location: 24'N, 13'E of F4

Depth	Type
2 1/1 - 4	W/C
10 - 11 1/2	W/C
20 - 21 1/2	W/C
30 - 31 1/2	W/C
40 - 41 1/2	W/C
45 - 46 1/2	W/C

Corehole: #21
Location: 17'S, 15'W of F1

Depth	Type
5 - 6 1/2	W/C
7 1/2 - 9	W/C
10 - 11 1/2	W/C
12 1/2 - 14	W/C
15 - 16 1/2	W/C
20 - 21 1/2	W/C
25 - 26 1/2	W/C
30 - 31 1/2	W/C

Corehole: #22
Location: 5'SE of F11

Depth	Type
2 1/2 - 4	W/C
5 - 6.3	W/C
7 1/2 - 9	W/C
10 - 11 1/2	W/C
12 1/2 - 14	W/C
15 - 16 1/2	W/C
20 - 21 1/2	W/C
25 - 26 1/2	W/C
30 - 31 1/2	W/C

Corehole: #23
Location: 24'W, 5.5'N, of F7

Depth	Type
2 1/2 - 4	W/C
5 - 6.2	W/C
7 1/2 - 9	W/C
10 - 11 1/2	W/C
12 1/2 - 14	W/C
15 - 16 1/2	W/C
20 - 21 1/2	W/C
25 - 26 1/2	W/C
30 - 31 1/2	W/C

SUMMARY OF WATER SAMPLES
SUBJECTED TO LEVEL B INTERMEDIATE ANALYSES

CSample	Level B					
	Sulfate	As, Se, Hg, Pb	ICPES	Phenol	601	602
#1	X		X	X	X	X
#1[D]	X		X	X	X	X
#2	X		X	X	X	X
#3			X		X	X
#4			X		X	X
#4[D]			X		X	X
#5			X		X	X
#6			X		X	X
#7			X		X	X
#8			X		X	X
#9			X		X	X
#10			X		X	X
#11			X		X	X
#12			X		X	X
#13			X		X	X
#14			X	X	X	X
#15			X	X	X	X
#16			X		X	X
#17			X		X	X
Corehole #1	X	X	X[1]	X	X	X
Corehole #2	X	X	X[1]	X	X	X
Corehole #3	X	X	X[1]	X	X	X
Corehole #4	X	X	X[1]	X	X	X
Corehole #5	X	X	X[1]	X	X	X
Corehole #6					X	X
Corehole #20	X	X	X[1]	X	X	X
W-1S	X	X	X[1]	X	X	X
W-1D	X	X	X[1]	X	X	X
W-3S	X	X	X[1]	X	X	X
W-8	X	X	X[1]	X	X	X
W-9	X	X	X[1]	X	X	X
EPA 1	X	X	X[1]	X	X	X
Well #6	X	X	X[1]	X	X	X
Blank	X	X	X[1]	X	X	X

[1] Partial ICPES - Not Analyzed For All Metals

SUMMARY OF SOLID SAMPLES SELECTED FOR LEVEL C EXTENSIVE ANALYSES

Surface Samples

Grid Point Samples

C7, D7, D8, E5, E7, F4, G4, G22, H24

Non-Grid Point Samples

West of Row F in Railroad Tracks
South of Waste Pit at West end of Site
10'E of F24
20'N, 15' west of E11
47.5' East of C1
60' West of Northwest Property Corner
27' North of Northwest Property Corner

Subsurface Samples

Core:	#1	#2	#3	#4	#5
Depth:	5 - 6 1/2 40 - 41 1/2	5 - 6 1/2 15 - 16 1/2 45 - 46 1/2	17 1/2 - 9 45 - 46 1/2	7 1/2 - 9 45 - 46 1/2	7 1/2 - 9 15 - 16 1/2 45 - 46 1/2

Core:	#6	#7	#8	#9	#10
Depth:	2 1/2 - 4 20 - 21 35 - 36 1/2	2 1/2 - 4	5 - 6 1/2	2 1/2 - 4	2 1/2 - 4

Core:	#11	#12	#13	#14	#15
Depth:	2 1/2 - 4	2 1/2 - 4	5 - 6 1/2	5 - 6 1/2	10 - 11 1/2

Core:	#16	#17	#18	#19	#20
Depth:	5 - 6.3	7 1/2 - 9	5 - 6 1/2	5 - 6 1/2	2 1/2 - 4 20 - 21 1/2 40 - 41 1/2

Core:	#21	#22	#23
Depth:	10 - 11 1/2	7 1/2 - 9	12 1/2 - 14

SUMMARY OF WATER SAMPLES SUBJECTED TO LEVEL C EXTENSIVE ANALYSIS'

Canal Water		Level C[1]				
		Acidity	AA/ICPES	Other Parameters	624	625
#1	(Downstream)	X		X	X	X
#1[D]	(Downstream)	X		X		
#2		X		X		
#3		X		X		
#4		X		X		
#5		X		X		
#6		X		X		
#7		X		X		
#8		X		X		
#9		X		X		
#10		X		X	X	X
#11		X		X		
#12		X		X		
#13		X		X		
#14		X		X		
#15		X		X		
#16		X		X		
#17	(Upstream)	X		X	X	X

[D]Indicates Duplicate Sample Analyzed.
[1]Tetraethyl Lead & PCB Analyses are not included in this report.

SUMMARY OF WATER SAMPLES SUBJECTED TO LEVEL C EXTENSIVE ANALYSIS' (Cont.)

Ground water Samples[1]

Core @1[2]
Core @6[2]
3 341 S. Maple
Van Gas
Tall Trees
Burkhardt
3147 Golden State Frontage Rd.
2055 North Avenue
3040 S. Cedar
EPA 2
W-2S
W-2D
W-30
W-4
W-5
W-6
W-7
Private Well L
Private Well I
Private Well F

[1]Includes all Level C Analyses except PCB's and Tetraethyl Lead which are not included in this report.

[2]Not analyzed for metals or phenol.

Appendix E

ANALYTICAL DATA BASE

APPENDIX E

INTRODUCTION TO THE PURITY DATA BASE

The Purity data base was developed on IBM compatible microcomputers using DOS 2.1 as the operating system. A commercially available data management software package, i.e., LOTUS 1-2-3, is the data manager program. The data base consists of six files as follows:

- PURAIR1 contains realtime (Level 1) analysis of air samples. This file contains data resulting from disturbed surface monitoring, emissions vertical profiles, surface concentrations and surface flux emissions.

- PURAIR3 contains laboratory (Level 3) analysis of air canisters.

- PURSLDB contains Level A (realtime) and Level B analysis of solids, wastes, and sediments.

- PURSLDC contains Level C analysis of solids, wastes, and sediments.

- PURWTRB contains Level A (realtime) and Level B analysis of water samples.

- PURWTRC contains Level C analysis of water samples.

The following printouts list the data base in the above order. A couple pages of keys to the data base are included that describe codes used in the files.

A few pointers will be helpful in becoming acquainted with the printouts. A file name appears in the upper right hand corner of each page.

Across the top of the page are column headings that list the type of analysis. Listed in the xolumn heading along with the type of analysis are the appropriate units of measurement and the instrument detection limit for the compound analyzed. The left most column contains the sample numbers in numeric order. Information for each record (sample point) consists of header information describing the sampling location and the date the sample was collected. This is followed by realtime data, if appropriate. And then Level B, Level C, or Level 3 data follows, as appropriate.

Because a couple of the files are quite large, each succeeding page of the printout lists results for all samples before listing results for additional analytical tests. As another way of putting it, think of the printout of each file as a large table of rows and columns. Some of these tables are larger than a single page in both the horizontal and vertical directions. The pages of the table have been picked up by columns of pages and not by rows of pages.

A minus sign is used for results of inorganics analyses to indicate that the results were below the detection limits. Remember that for inorganics analyses a minus sign "-" is used to indicate a less than sign "<". For organic analyses, a zero indicates that the corresponding compound was not detected at or above the effective detection limit. Effective detection limits for organic analyses can be determined from information in the data base. Instrument detection limits are listed as part of the column heading. Dilution factors that correspond to individual samples are listed in a separate column that precedes the listings for each method of organics analysis. Blanks indicate that an analytical test was not performed for a particular sample. An asterisk "*" following a value indicates that backup documentation is not on file for that particular determination. Finally, three asterisks "***" are used to separate the volatile and semivolatile compounds listed for GCMS characterizations in PURSLDC.

A print macro is included with each file to assist in printing out all or part of the file. (This macro does not appear in the printouts, but appears at the bottom of column C on the screen display.) The command is issued by pressing the "Alt" and "P" keys at the same time. Any part of the file may be printed out by including the appropriate range designation in the print command.

Keys Used In Data Files

For Sample Numbers:

A	air sample.
S	solid, waste, or sediment sample.
W	water sample.
D	dulicate sample (final symbol of sample number).

Locations are indicated by the following codes:

For Areas:	CA	canal
	FY	frontyard
	PD	pond
	SU	sump
	WP	waste pit
	XS	off-site
For Sites/Grid Locations:	Core	corehole
	Trch	trench
	Cnal	canal

Grid point locations are indicated by a letter-number combination.

Other location codes:

N, W, S, E	north, west, south, east
NWPC	northwest property corner
SWPC	southwest property corner
*	indicates that GRID LOCATION information is referenced to SITE point, e.g., NWPC* 200'W, 50'N indicates location is approximate
RR	railroad tracks
ST	site

For example, 12'S-CA;250'W-SWPC means 12 feet south of canal center-line and 250 feet west of southwest propery corner.

Remember that for inorganics analyses a less than sign "<" is indicated by a minus sign "-".

Key For PURAIRI

DS###	disturbed site sample number
SC###	surface concentration sample number
SF###	surface flux sample number
VP###	emissions vertical profile sample number

THC	total hydrocarbon
BNZ	benzene
.SS	steady state
.PK	peak

Key For PURSLDB

Condt	conductivity
VolPK	peak volatiles (benzene)
VolAV	average volatiles (benzene)
ONG A	oil and grease
PB GA	lead, low level
PHEN	total phenolics

Key For PURWTRB

Inorganic Compounds

AS HA	Arsenic Hydride	HE HA	Selenium Hydride
PB GA	Lead, ICPES	SO4 IC	Sulfate, IC Ion Chromatograph
PHEN A	Total Phenolics		

GC 601: EPA Method 601/GC

601 01	Chloromethane	601 15	1,2-Dichloropropane
601 02	Bromomethane	601 16	Trans-1,3-Dichloropropene
601 03	Vinyl Chloride	601 17	Trichloroethene
601 04	Chloroethane	601 18	Dibromochloromethane
601 05	Methylene Chloride	601 19	1,1,2-Trichloroethane
601 06	Trichlorofluoromethane	601 20	Cis-1,3-Dichloropropene
601 07	1,1-Dichloroethene	602 21	2-Chloroethylvinyl Ether
601 08	1,1-Dichloroethane	601 22	Bromoform
601 09	Trans-1,2-Dichloroethene	601 23	1,1,2,2-Tetrachloroethane
601 10	Chloroform	601 24	Tetrachloroethylene
601 11	1,2-Dichloroethane	601 25	Chlorobenzene
601 12	1,1,1-Trichloroethane	601 26	1,3-Dichlorobenzene
601 13	Carbon Tetrachloride	601 27	1,2-Dichlorobenzene
601 14	Bromodichloromethane	601 28	1,4-Dichlorobenzene

GC 602: EPA Method 602/GC

602 01	Benzene	602 04	1,3-Dichlorobenzene
602 02	Toluene	602 05	1,2-Dichlorobenzene
602 03	Ethyl Benzene	602 06	1,4-Dichlorobenzene

Key For PURSLDC and PURWTRC

Inorganics Analysis

ACDT A	Total Acidity	NO3 IC	Nitrate, Ion Chromatograph
AG E	Silver, ICPES	PB GA	Lead, low level
AS HA	Arsenic Hydride	PHEN A	Total Phenolics
BE E	Beryllium, ICPES	SB GA	Antimony, low level
CD E	Cadmium, ICPES	SE HA	Selenium Hydride
CL IC	Chloride, Ion Chromatograph	SO3 TA	Sulfite
COD A	Chemical Oxygen Demand	SO4 IC	Sulfate, Ion Chromatograph
CR E	Chromium, ICPES	S TITR	Sulfur by titration
CU E	Copper, ICPES	TDS A	Total Dissolved Solids
F IC	Fluoride, Ion Chromatograph	TL GA	Thallium, low level
HARD A	Hardness	TOC	Total Organic Carbon
HG CA	Mercury, Cold Vapor	ZN E	Zinc, ICPES
NI E	Nickel, ICPES		

EPA Methods 8240 and 624: Volatile Compounds

EPA 2V	Acrolein	EPA 32V	1,2-Dichloropropane
EPA 3V	Acrylonitrile	EPA 33V/C	Cis-1,3-Dichloropropylene
EPA 4V	Benzene	EPA 33V/T	Trans-1,3-Dichloropropylene
EPA 6V	Carbon Tetrachloride	EPA 38V	Ethylbenzene
EPA 7V	Chlorobenzene	EPA 44V	Methylene Chloride
EPA 10V	1,2-Dichloroethane	EPA 45V	Methyl Chloride
EPA 11V	1,1,1-Trichloroethane	EPA 46V	Methyl Bromide
EPA 13V	1,1-Dichloroethane	EPA 47V	Bromoform
EPA 14V	1,1,2-Trichloroethane	EPA 48V	Dichlorobromomethane
EPA 15V	1,1,2,2-Tetrachloroethane	EPA 49V	Trichlorofluoromethane
EPA 16V	Chloroethane	EPA 50V	Dichlorodifluoromethane
EPA 17V	Bis (Chloromethyl) Ether	EPA 51V	Chlorodibromomethane
EPA 19V	2-Chloroethylvinyl Ether	EPA 85V	Tetrachloroethylene
EPA 23V	Chloroform	EPA 86V	Toluene
EPA 29V	1,1-Dichloroethylene	EPA 87V	Trichloroethylene
EPA 30V	1,2-Trans-Dichloroethylene	EPA 88V	Vinyl Chloride

Key For PURSLDC and PURWTRC (cont.)

Methods 8270 and 625: Acid Compounds

EPA 21A	2,4,6-Trichlorophenol	EPA 58A	4-Nitrophenol
EPA 22A	p-Chloro-m-Cresol	EPA 59A	2,4-Dinitrophenol
EPA 24A	2-Chlorophenol	EPA 60A	4,6-Dinitro-o-Cresol
EPA 31A	2,4-Dichlorophenol	EPA 64A	Pentachlorophenol
EPA 34A	2,4-Dimethylphenol	EPA 65A	Phenol
EPA 57A	2-Nitrophenol		

Methods 8270 and 625: Base/Neutrals

EPA 1B	Acenaphthene	EPA 61B	N-Nitrosodimethylamine
EPA 5B	Benzidene	EPA 62B	N-Nitrosodiphenylamine
EPA 8B	1,2,4-Trichlorobenzene	EPA 63B	Ni-Nitrosodi-n-Propylamine
EPA 9B	Hexachlorobenzene	EPA 66B	Bis (2-Ethylhexyl) Phthalate
EPA 12B	Hexachloroethane	EPA 67B	Butyl Benzyl Phthalate
EPA 18B	Bis (2-Chloroethyl) Ether	EPA 68B	Di-n-Butyl Phthalate
EPA 20B	2-Chloronaphthalene	EPA 69B	Di-n-Octyl Phthalate
EPA 25B	1,2-Dichlorobenzene	EPA 70B	Diethyl Phthalate
EPA 26B	1,3-Dichlorobenzene	EPA 71B	Dimethyl Phthalate
EPA 27B	1,4-Dichlorobenzene	EPA 72B	Benzo (a) Anthracene
EPA 28B	3,3'Dichlorobenzidine	EPA 73B	Benzo (a) Pyrene
EPA 35B	2,4-Dinitrotoluene	EPA 74B	3,4-Benzofluoranthene
EPA 36B	2,6-Dinitrotoluene	EPA 75B	Benzo (k) Fluoranthene
EPA 37B	1,2-Diphenylhydrazine	EPA 76B	Chrysene
EPA 39B	Fluoranthene	EPA 77B	Acenaphthylene
EPA 40B	4-Chlorophenyl Phenyl Ether	EPA 78B	Anthracene
EPA 41B	4-Bromophenyl Phenyl Ether	EPA 79B	Benzo (ghi) Perylene
EPA 42B	Bis (2-Chloroisopropyl) Ether	EPA 80B	Fluorene
EPA 43B	Bis (2-Chloroethoxy) Methane	EPA 81B	Phenanthrene
EPA 52B	Hexachlorobutadiene	EPA 82B	Dibenzo (a,h) anthracene
EPA 53B	Hexachlorocyclopentadiene	EPA 83B	Indeno (1,2,3-cd) Pyrene
EPA 54B	Isophorone	EPA 84B	Pyrene
EPA 55B	Naphthalene	EPA 129B	Dioxin
EPA 56B	Nitrobenzene		

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Sample No.	Area	Site	Grid Location	Date	Foam	Doth	THC.SS Time PPMV	THC Zero	BNZ.SS Time PPMV	BNZ Zero	SO2.SS Time PPMV
DS001	WP	Trch 1	E14 - Pit 2	61184	NONE	6-8					
DS002	WP	Trch 1	E14 - Pit 2	61184	FC600	8					
DS003	WP	Trch 1	E14 - Pit 2	61184	91-59	8					
DS004	WP	Trch 1	E14 - Pit 2	61184	NONE	8					
DS005	WP	Trch 1	E14 - Pit 2	61184	91-60	8					
DS006	WP	Trch 1	E14 - Pit 2	61184	235	8					
DS007	WP	Trch 1	E14 - Pit 2	61184	SF	8					
DS008	SU	Trch 2	F8 - Sump 1	61284	NONE	2.5					
DS009	SU	Trch 2	F8 - Sump 1	61284	SF	2.5					
DS010	SU	Trch 2	F8 - Sump 1	61284	NONE	3.5					
DS011	SU	Trch 2	F8 - Sump 1	61284	60	3.5					
DS012	SU	Trch 2	F8 - Sump 1	61284	NONE	4					
DS013	SU	Trch 2	F8 - Sump 1	61284	235	4					
DS014	SU	Trch 2	F8 - Sump 1	61284	NONE	6					
DS015	SU	Trch 2	F8 - Sump 1	61284	59	6					
DS016	SU	Trch 2	F8 - Sump 1	61284	NONE	7					
DS017	SU	Trch 2	F8 - Sump 1	61284	600	7					
DS018	WP	Trch 3	E24 - Pit 1	61384	NONE	2.5					
DS019	WP	Trch 3	E24 - Pit 1	61384	SF	2.5					
DS020	WP	Trch 3	E24 - Pit 1	61384	NONE	3					
DS021	WP	Trch 3	E24 - Pit 1	61384	59	3					
DS022	WP	Trch 3	E24 - Pit 1	61384	235	3					
DS023	WP	Trch 3	E24 - Pit 1	61384	NONE	3					
DS024	WP	Trch 3	E24 - Pit 1	61384	'60	3-4					
DS025	WP	Trch 3	E24 - Pit 1	61384	NONE	4-4.5					
DS026	WP	Trch 3	E24 - Pit 1	61384	600.6%	4-4.5					
SC001	WP	D22		60584					-0.1		0.04
SC002	WP	E21		60584					-0.2		0.04
SC003	WP	D20		60584					-0.3		0.02
SC004	WP	E20		60584					-0.4		0.04
SC005	WP	D21		60584					-0.4		0.04
SC006	WP	C20		60584					-0.4		0.06
SC007	WP	F21		60584					-0.4		0.06
SC008	WP	C22		60584					-0.4		0.06
SC009	WP	F20		60584					-0.4		0.06
SC010	WP	F20		60584					-0.4		0.04
SC011	WP	G21.5~		60584					-0.3		0.1
SC012	WP	G22~		60584					-0.3		0.06
SC013	WP	D23		60584					-0.2		0.06
SC014	WP	D24		60584					-0.4		0.12
SC015	WP	E25		60584					-0.3		0.12
SC016	WP	F26		60584					-0.2		0.16
SC017	WP	F23		60584					-0.2		0.06
SC018	WP	E24		60584					0.12		0.08
SC019	WP	E24		60584					0.12		0.1
SC020	WP	E23		60584					0.2		0.08
SC021	WP	F25		60584					0.14		0.08
SC022	WP	F24		60584					0.2		0.08
SC023	WP	F26~		60584					-0.2		0.12
SC024	WP	F26~		60584					-0.2		0.06
SC025		D8		60584					0.16		0.04
SC026		D9		60584					0.09		0.02
SC027		E9		60584					0.09		0.02
SC028		D10		60584					0.1		0.06
SC029		F10		60584					0.1		0.04
SC030		E10		60584					0.1		0.02
SC031		F7		60584					0.1		0.02
SC032		E8		60584					0.1		0.02
SC033		E7		60584					0.1		0.04
SC034		F9		60584					0.1		0.04
SC035		F8		60584					0.1		0.02
SC036		F8		60584					0.1		0.02
SC037	FY	B2		60684					0.16		0
SC038	FY	B4		60684					0.21		0
SC039	FY	A4		60684					0.2		0
SC040	FY	B3		60684					0.16		0.06
SC041	FY	B1		60684					0.19		0

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Sample No.	Area	Site	Grid Location	Date	Foam	Doth	THC.SS Time	THC PPMV	THC Zero	BNZ.SS Time	BNZ PPMV	BNZ Zero	SO2.SS Time	SO2 PPMV
SC042	FY	A1		60684							0.2			0
SC043	FY	C3		60684							0.19			0
SC044	FY	A3		60684							0.16			0
SC045	FY	C4		60684							0.14			0
SC046	FY	C2		60684							0.16			0
SC047	FY	A2		60684							0.2			0
SC048	FY	B3		60684							0.16			0
SC049	FY	C1		60684							0.22			0
SC050	FY	D16		60684							0.14			0
SC051		E15		60684							0.19			0
SC052		D14		60684							0.22			0
SC053		E14		60684							0.16			0
SC054		D15		60684							0.13			0
SC055		F15		60684							0.18			0
SC056		F16		60684							0.14			0
SC057		F14		60684							0.14			0
SC058		E16		60684							0.17			0
SC059	FY	G4		60684							0.13			0
SC060	FY	G4		60684							0.12			0.02
SC061		H2		60684							0.16			0
SC062		G6		60684							0.17			0
SC063		H7		60684							0.14			0
SC064		H3		60684							0.12			0
SC065		H4		60684							0.12			0
SC066		H1		60684							0.2			0.04
SC067		G3		60684							0.12			0.02
SC068		G7		60684							0.2			0.02
SC069		G1		60684							0.2			0.04
SC070		G2		60684							0.22			0.04
SC071		H6		60684							0.16			0.06
SC072		H5		60684							0.32			0.02
SC073		H5		60684							0.32			
SC074	WP	D18		60684							0.38			0
SC075		E19		60684							0.37			0.04
SC076		F18		60684							0.37			0.06
SC077		D17		60684							0.52			0.04
SC078		E17		60684							0.1			0
SC079		E18		60684							0.48			0.06
SC080		D19		60684							0.44			0.12
SC081		F17		60684							0.22			0.08
SC082		F19		60684							0.3			0.1
SC083		E18		60684							0.6			0.1
SC084		D12		60684							0.08			0.04
SC085		E13		60684							0.1			0.06
SC086		F12		60684							0.14			0.04
SC087		D11		60684							0.17			0.06
SC088		E11		60684							0.38			0.04
SC089		E12		60684							0.33			0.04
SC090		D13		60684							0.16			0.02
SC091		F11		60684							0.17			0.02
SC092		F13		60684							0.17			0.02
SC093		E11		60684							0.17			0
SC094				60684							0.17			0.02
SC095		E18		60684							0.17			0
SC096		E18		60784							0.21			0
SC097		E1		60784							0.18			0.02
SC098		F1		60784							0.2			0.02
SC099		F3		60784							0.2			0.02
SC100		D4		60784							0.2			0.02
SC101		D1		60784							0.2			0.02
SC102		E3		60784							0.19			0.02
SC103		E4		60784							0.18			0.02
SC104		D3		60784							0.2			0.04
SC105		D2		60784							0.2			0.02
SC106		E2		60784							0.2			0.02
SC107		F2		60784							0.2			0.02
SC108		F4		60784							0.2			0.02

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Sample No.	Area	Site	Grid Location	Date	Foam	Dpth	THC.SS Time	PPMV	THC Zero	BNZ.SS Time	PPMV	BNZ Zero	SO2.SS Time	PPMV
SC109		E4		60784							0.2			0.02
SC110				60784							0.2			0.02
SC111		A6		60784							0.18			0
SC112		C5		60784							0.2			0.04
SC113		D6		60784							0.15			0.04
SC114		C6		60784							0.17			0.02
SC115		F6		60784							0.15			0.04
SC116		D7		60784							0.16			0.04
SC117		E5		60784							0.17			0.04
SC118		D5		60784							0.17			0.04
SC119		B5		60784							0.2			0.04
SC120		C7		60784							0.2			0.06
SC121		A5		60784							0.19			0.04
SC122		B6		60784							0.22			0.06
SC123		F5		60784							0.18			0.06
SC124		E6		60784							0.14			0.06
SC125		F5		60784							0.19			0.06
SC126				60784							0.2			0.04
SC127		E18		60784							0.15			0.04
SC201	FY	G2*	6FT W OF G2	60784							0.21			0.04
SC202	FY	F3		60784							0.15			0.06
SC203	SU	H6*	6FT W OF H6	60884							0.18			0.06
SC204	SU	G3*	20FT OF G3	60884							0.14			0.06
SC205	SU	E5*	20FT W OF E5	60884							0.14			0.06
SC206	SU	C7		60884							0.12			0.02
SC207	SU	B6*	8FT W OF B6	60884							0.12			0.04
SC208	WP	E18		60884							0.14			0.02
SC209	WP	D10		60884							0.16			0.04
SC210	WP	E11*	8FT N OF E11	60884							0.14			0.04
SC211		F8*		60884							0.1			0.02
SC212	WP	D22		60984							0.2			0.06
SC213	WP	E18		60984							0.19			0.06
SC214	WP	D18		60984							0.18			0.06
SC215	WP	E13		60984							0.18			0.06
SF001		Blank		60784							4.4			0.02
SF002	FY	G2		60784							0.6			0.04
SF003	FY	G2		60784							0.4			0.04
SF004	FY	F3		60784							0.3			0.06
SF005	SU	H6*	6FT W OF H6	60884							0			0.06
SF006	SU	H6*	6FT W OF H6	60884							0			0.08
SF007	SU	G3*	15FT W OF G3	60884							-0.1			0.08
SF008	SU	E5*	20FT W OF E5	60884							0			0.06
SF009	SU	E6		60884							-0.7			0.08
SF010	SU	C7		60884							2			0.12
SF011	SU	B6*	8FT W OF B6	60884							0.6			0.4
SF012		Blank		60884							-0.2			0.06
SF013	FY	H2		60884							-0.6			0.12
SF014	WP	E18		60884							-1.3			0.08
SF015	WP	D10		60884							-0.5			0.1
SF016	WP	E11*	8FT N OF E11	60884							4.2			0.12
SF017		F8*	8FT W & 3FT N	60884							2.8			0.06
SF018	WP	D22		60984							-0.2			0.06
SF019	WP	E18		60984							-0.8			0.06
SF020	WP	E18		60984							-0.6			0.06
SF021	WP	E13		60984							-0.9			0.1
SF022		Blank		60984							-0.2			0.1
SF023		H2		60984							-0.4			0.24
SF024	SU	E6*	20FT W, 12FT S	60984							-0.3			0.1
SF025	SU	E6*	20FT W, 12FT S	60984							0.1			0.1
SF026	SU	F8		60984							-0.1			0.08
VP001	FY	Core 1	E3	61984		5								
VP002	FY	Core 1	E3	61984		10								
VP003	FY	Core 1	E3	61984		15								
VP004	WP	Core 2	D10	62184		5								
VP005	WP	Core 2	D10	62184		10								
VP006	WP	Core 2	D10	62184		15								
VP007	WP	Core 2	D10	62184		20								

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Sample No.	Area	Site	Grid Location	Date	Foam	Dpth	THC.SS Time	THC PPMV	THC Zero	BNZ.SS Time	BNZ PPMV	BNZ Zero	SO2.SS Time	SO2 PPMV
VP008	WP	Core 2	D10	62184		25								
VP009	WP	Core 3	E17	62384		7.5								
VP010	WP	Core 3	E17	62384		12.5								
VP011	WP	Core 3	E17	62384		15								
VP012	WP	Core 3	E17	62384		20								
VP013	WP	Core 3	E17	62384		25								
VP014	WP	Core 4	F20	62584		7.5								
VP015	WP	Core 4	F20	62584		10								
VP016	WP	Core 4	F20	62584		15								
VP017	WP	Core 4	F20	62584		20								
VP018	WP	Core 5	E13	62784		5								
VP019	WP	Core 5	E13	62984		10								
VP020	WP	Core 5	E13	62984		15								
VP021	WP	Core 5	E13	62984		20								
VP022	WP	Core 5	E13	62984		25								
VP023	SU	Core 6	11.5'N,14'W E6	70284		5								
VP024	SU	Core 6	11.5'N,14'W E6	70284		10								
VP025	SU	Core 6	11.5'N,14'W E6	70284		15								
VP026	SU	Core 6	11.5'N,14'W E6	70284		20								
VP027	SU	Core 6	11.5'N,14'W E6	70284		25								

PURAIR

Sample No.	SO2 Zero	Flow Rate	THC.PK Tau	THC.PK PPMV	THC.SS Tau	THC.SS PPMV	THC Zero	BNZ.PK Tau	BNZ.PK PPMV	BNZ.SS Tau	BNZ.SS PPMV	BNZ Zero	SO2.PK Tau	SO2.PK PPMV	SO2.SS Tau	SO2.SS PPMV	SO2 Zero
DS001					5	20				6	28				4	1300	
DS002					3	40				3	10				3	1000	
DS003					3	8				3	17				3	2000	
DS004					0	100				0	20				0	3800	
DS005					3	30				3	18				3	1700	
DS006										3	9				3	630	
DS007					3	15				3	9				3	95	
DS008					3	190				3	70				3	30	
DS009					3	70				3	40				3	30	
DS010					3	200				3	110				2	350	
DS011					3	60				3	40				3	60	
DS012					3	110				3	70				3	150	
DS013					3	18				3	36				3	150	
DS014					0	25				0	85				0	75	
DS015					3	17				3	45				3	40	
DS016					4.5	15				4.5	72				4.5	50	
DS017					2	5				2	38				2	50	
DS018					3	15				3	68				3	500	
DS019					3	17				3	79				3	1100	
DS020					0	18				0	88				0.5	2100	
DS021					3	12				3	81				3	2000	
DS022					3	8				3	150				3	2800	
DS023					3	6				3	100				3	660	
DS024					3	5				3	72				3	990	
DS025					0	8				0					0	800	
DS026					3	8				3	470				3	1700	
SC001																	
SC002																	
SC003																	
SC004																	
SC005																	
SC006																	
SC007																	
SC008																	
SC009																	
SC010																	
SC011																	
SC012																	
SC013																	
SC014																	
SC015																	
SC016																	
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SC032																	
SC033																	
SC034																	
SC035																	
SC036																	
SC037																	
SC038																	
SC039																	
SC040																	
SC041																	

PURAIR

Sample No.	SO2 Zero	Flow Rate	THC.PK Tau	THC.PK PPMV	THC.SS Tau	THC.SS PPMV	THC Zero	BNZ.PK Tau	BNZ.PK PPMV	BNZ.SS Tau	BNZ.SS PPMV	BNZ Zero	SO2.PK Tau	SO2.PK PPMV	SO2.SS Tau	SO2.SS PPMV	SO2 Zero
SC042																	
SC043																	
SC044																	
SC045																	
SC046																	
SC047																	
SC048																	
SC049																	
SC050																	
SC051																	
SC052																	
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SC098																	
SC099																	
SC100																	
SC101																	
SC102																	
SC103																	
SC104																	
SC105																	
SC106																	
SC107																	
SC108																	

PURAIR

Sample No.	SO2 Zero	Flow Rate	THC.PK Tau	THC.PK PPMV	THC.SS Tau	THC.SS PPMV	THC Zero	BNZ.PK Tau	BNZ.PK PPMV	BNZ.SS Tau	BNZ.SS PPMV	BNZ Zero	SO2.PK Tau	SO2.PK PPMV	SO2.SS Tau	SO2.SS PPMV	SO2 Zero
SC109																	
SC110																	
SC111																	
SC112																	
SC113																	
SC114																	
SC115																	
SC116																	
SC117																	
SC118																	
SC119																	
SC120																	
SC121																	
SC122																	
SC123																	
SC124																	
SC125																	
SC126																	
SC127																	
SC201																	
SC202																	
SC203																	
SC204																	
SC205																	
SC206																	
SC207																	
SC208																	
SC209																	
SC210																	
SC211																	
SC212																	
SC213																	
SC214																	
SC215																	
SF001		7.6															
SF002		7.6															
SF003		7.6															
SF004		7.6															
SF005		7.6															
SF006		7.6															
SF007		7.6															
SF008		7.6															
SF009		7.6															
SF010		7.6															
SF011		7.6															
SF012		7.6															
SF013		7.6															
SF014		7.6															
SF015		7.6															
SF016		7.6															
SF017		7.6															
SF018		5.28															
SF019		5.28															
SF020		5.28															
SF021		5.28															
SF022																	
SF023																	
SF024		5.28															
SF025		5.28															
SF026		5.28															
VP001		0.67	7	200	20	60	2.5	7	460	10	170	1	4	0	4	0	0
VP002		0.67	1	15	10	4	2.5	10	19	15	17	1	1	0	1	0	0
VP003		0.67	1	18	3	15	2.5	1	25	5	16	1	1	0	1	0	0
VP004		0.67	5	170	20	7	3	5	66	20	30	0.7	5	87	20	5	2
VP005		0.67	1	2200	25	40	3	3	94	23	34	0.7	1	11	10	3	2
VP006		0.67	14	2600	33	150	3	4	73	27	25	0.7	2	8	17	4	2
VP007		0.67	3	600	19	280	3	1	97	21	15	0.7	2	8	8	3	2

PURAIR

Sample No.	SO2 Zero	Flow Rate	THC.PK Tau	THC.PK PPMV	THC.SS Tau	THC.SS PPMV	THC Zero	BNZ.PK Tau	BNZ.PK PPMV	BNZ.SS Tau	BNZ.SS PPMV	BNZ Zero	SO2.PK Tau	SO2.PK PPMV	SO2.SS Tau	SO2.SS PPMV	SO2 Zero
VP008		0.67	3	6000	24	300	3	5	11.7	20	2.8	0.7	4	3	7	2	2
VP009		0.67	3	100	27	10	2.8	26	103	29	73	1.2	4	3	8	1.5	0
VP010		0.67	3	19	14	6	2.8	4	9.6	16	3.4	1.2	2	2.5	8	1	0
VP011		0.67	3.5	14	11	12	2.8	2	10.3	22	2.3	1.2	3	2	10	1	0
VP012		0.67	2	32	12	4.8	2.8	2	13.8	13	0.5	1.2	3	2	5	1.5	0
VP013		0.67	3	6.5	13	3.2	2.8	4	1.6	14	0.1	1.2	2	2	2	2	0
VP014		0.67	1	18	20	4.5	2.5	3	2.2	20	0.8	0	1	0	1	0	0
VP015		0.67	1	700	5	75	2.5	1	4	15	2.5	0	3	5	10	0	0
VP016		0.67	3	16	20	10	2.5	5	1.5	20	0.6	0	1	0	1	0	0
VP017		0.67	20	10	20	10	2.5	1	1.8	20	0.4	0	1	0	1	0	0
VP018		0.67	20	18	20	18	1.5	20	15.5	20	15.5	2.9	10	100	20	85	0
VP019		0.67	15	1800	15	1800	2.5	5	56	20	40	-0.8	5	3500	20	3100	0
VP020		0.67	5	6000	20	3500	2.5	5	90	20	54	-0.8	1	100	20	40	0
VP021		0.67	20	4300	20	4000	2.5	20	59	20	59	-0.8	10	18	20	18	0
VP022		0.67	1	4500	20	2500	2.5	1	54	20	35	-0.8	3	20	20	7	0
VP023		0.67	15	>10000	20	4500	7	5	16	20	15	-0.4	15	2	15	2	0
VP024		0.67	3	>10000	20	9500	7	1	>2000	1	>2000	-0.4	3	2	3	2	0
VP025		0.67	3	>10000	3	>10000	7	20	30	30	29	-0.4	5	3	20	3	0
VP026		0.67	3	>10000	3	>10000	7	40	26	40	26	-0.4	3	2	3	2	0
VP027		0.67	10	4000	20	17	7	10	12.5	20	0.6	-0.4	3	2	15	1	0

PURAIR

Sample No.	COMMENTS
DS001	
DS002	FOAM DEGRAD.
DS003	
DS004	UNCONTROLLED
DS005	FOAM DEGRAD.
DS006	
DS007	
DS008	
DS009	FOAM DEGRAD.
DS010	
DS011	
DS012	
DS013	
DS014	UNCONTROLLED
DS015	
DS016	
DS017	NO MIXING FAN
DS018	
DS019	BNZ.PK=93
DS020	
DS021	
DS022	
DS023	
DS024	
DS025	UNCONTRLD;BNZ.PK1800
DS026	
SC001	
SC002	
SC003	
SC004	
SC005	0.08 SO2.PK
SC006	
SC007	
SC008	0.08 SO2.PK
SC009	Duplicate
SC010	Duplicate
SC011	On waste
SC012	On waste
SC013	
SC014	
SC015	
SC016	
SC017	
SC018	Duplicate
SC019	Duplicate
SC020	
SC021	
SC022	
SC023	On waste
SC024	On waste
SC025	
SC026	
SC027	
SC028	
SC029	
SC030	
SC031	
SC032	
SC033	
SC034	
SC035	
SC036	Duplicate
SC037	
SC038	
SC039	
SC040	Duplicate
SC041	

PURAIR

Sample No.	COMMENTS
SC042	
SC043	
SC044	
SC045	
SC046	
SC047	
SC048	
SC049	
SC050	
SC051	
SC052	
SC053	
SC054	
SC055	
SC056	
SC057	
SC058	
SC059	
SC060	
SC061	
SC062	
SC063	
SC064	
SC065	
SC066	
SC067	
SC068	
SC069	
SC070	
SC071	
SC072	Duplicate
SC073	Duplicate
SC074	
SC075	
SC076	
SC077	
SC078	
SC079	Duplicate
SC080	
SC081	
SC082	
SC083	Duplicate
SC084	
SC085	
SC086	
SC087	
SC088	Duplicate
SC089	
SC090	
SC091	
SC092	
SC093	
SC094	Upwind, fenceline
SC095	Control
SC096	Control
SC097	
SC098	
SC099	
SC100	
SC101	
SC102	
SC103	
SC104	
SC105	
SC106	
SC107	
SC108	

PURAIR

Sample No.	COMMENTS
SC109	
SC110	
SC111	
SC112	
SC113	
SC114	
SC115	
SC116	
SC117	
SC118	
SC119	
SC120	
SC121	
SC122	
SC123	Duplicate
SC124	
SC125	Duplicate
SC126	Upwind
SC127	Control
SC201	
SC202	
SC203	
SC204	
SC205	
SC206	
SC207	
SC208	Control; 39Farenh
SC209	
SC210	
SC211	
SC212	
SC213	Control
SC214	
SC215	
SF001	Blank
SF002	
SF003	Duplicate
SF004	
SF005	
SF006	Duplicate
SF007	
SF008	
SF009	
SF010	
SF011	
SF012	Blank
SF013	Backgrd pt.
SF014	Control
SF015	
SF016	+pres. in chmbr.
SF017	
SF018	
SF019	Control
SF020	
SF021	
SF022	Blank
SF023	Backgrd pt.
SF024	
SF025	Duplicate
SF026	
VP001	
VP002	
VP003	Gas Can;A346;t=20?
VP004	Waste coated probe
VP005	Gas Can;A364;t=12
VP006	
VP007	

PURAIR

Sample No.	COMMENTS
VP008	
VP009	
VP010	Gas Can;A373;t=16
VP011	
VP012	
VP013	
VP014	
VP015	
VP016	Gas Can;A390;t=11
VP017	
VP018	
VP019	Gas Can;A414;t=4
VP020	
VP021	
VP022	
VP023	Gas Can;A429;t=10
VP024	
VP025	
VP026	
VP027	

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Sample Number	Area	Site	Grid Location	Date	DETECT. LIMIT	PARAF FINS	OLEFINS	AROMA TICS	HALOG HC	OXYG HC
Units -)						PPBV-C	PPBV-C	PPBV-C	PPBV-C	PPBV-C
A001		B6		60884	1.68	768.7	411.7	4657.2	64.4	946
A002		E11		60884	1.04	271.6	93.2	447.2	34.2	270.2
A003		F8		60884	1.75	151.5	50.5	465.3	12	47.5
A004		Trch 1	E14 -UPWIND	61184	0.955	98.9	0	40.2	11.5	64.3
A005		Trch 1	E14 -NO FOAM	61184	34.4	105421.3	79274.1	111153.6	95627.9	12150
A008		Trch 1	E14 -DOWNWIND	61184	31.1	2593.2	3065.1	4663	56	452.2
A009		Trch 1	E14 -FOAM 91-59	61184	25.8	13197	3536.9	10859.8	224.9	3225.2
A010		Trch 1	E14 -SANIFOAM	61184	30.1	24683.2	5618.7	7434.8	86192.5	3601.8
A011		Trch 2	F8 -FOAM 91-60	61284	24.8	44973.3	20784.5	300631.5	93257.1	5094.6
A013		Trch 2	F8 -NO FOAM	61284	25.9	299692.1	134916.4	355608.3	68520.1	2281.1
A014		Trch 2	F8 -FOAM FC-600	61284	39.1	17137.3	6615.6	36496.9	32800.5	426.3
A015		Trch 3	E24 -NO FOAM	61384	31	162000	40900	61000	8050	1570
A016G		Trch 3	E24 -FOAM 92-35	61384	31.5	46200	24300	37800	11000	2190
A017G		Trch 3	E24	61384	22.8	60000	26200	61500	23400	3750
A340		Core 1	E3 - 15FT	61984	28.3	137000	147000	106000	8.27	406
A364		Core 2	D10 - 10FT	62184	69.5	361000	61400	98900	16800	1490
A373		Core 3	E17 - 12.5FT	62384	51.8	123000	17900	17100	14100	691
A390		Core 4	F20 - 15FT	62584	74.4	37000	8690	17200	6030	122
A414		Core 5	E13 - 10FT	62984	698	2220000	209000	252000	1670000	2220
A429		Core 6	11.5'N,14'W E6-5FT	70284	410	699000	114000	74400	21500	1340

PURAIR

Sample Number	SULFUR SPECIES	UNIDENT VOC	TOTAL NMHC	C-2 VOC	ETHANE	C-3 VOC	PROPANE	ISOBUTANE	N-BUTANE	NEOPENTANE	ISOPENTANE
	********PARAFFINS**********							PARAFFINS**********			PARAFFIN
Units -)	PPBV-C	PPBV-C	PPBV-C	PPBV-C	PPBV-C	PPBV-C	PPBV-C	PPBV-C	PPBV-C	PPBV-C	PPBV-C
A001	3.2	146.1	6051.3	247.8	0	81.3	0	3.4	38.4	0	3.8
A002	1.6	13.8	861.6	43.8	0	11.6	0	1.3	37.8	0	4.8
A003	0	7.5	734.3	28	0	17.7	0	2.1	3.4	0	4.9
A004	0	0	150.6	24.8	0	6.2	0	2	0	0	3.1
A005	0	7518.7	411145.5	123.1	95.5	0	0	352.4	190	0	2128.3
A008	0	1361.5	11738.8	0	0	0	0	49.3	0	0	0
A009	0	498.1	28316.7	103.9	0	226.4	0	874.5	27.7	76.3	155.9
A010	0	1470.8	125400	63.1	0	38.6	0	8358	77.7	776.8	917.9
A011	0	1859	461505.4	273.7	0	596.3	0	7056	507.4	942.4	1806
A013	0	62.3	858789.2	567	0	711.7	0	538.7	641.1	0	2377
A014	0	1417.7	94468	309.8	0	110.8	0	1899	149	336	480.8
A015	0	872	273000	151	0	113	0	1710	128	0	962
A016G	0	392	120000	331	0	662	0	4830	252	0	1300
A017G	0	762	172000	357	0	1110	0	6440	443	0	1840
A340	0	1830	382000	0	0	0	0	72.6	482	0	4830
A364	0	22400	561000	13900	0	0	0	14600	0	0	8460
A373	0	894	173000	1820	0	4450	0	44000	2520	0	5030
A390	0		68900	691	0	1040	0	663	236	0	471
A414	0	2360	4350000	11900	0	5230	0	1240000	9870	3480	93400
A429	0	4350	914000	33200	0	17800	0	17600	53600	0	130000

PURAIR

Sample Number Units -)	S**********PARAFFINS********** N-PENTANE PPBV-C	NEOHEXANE PPBV-C	CYCLOPENTANE PPBV-C	23-DIMETHYLBUTANE PPBV-C	ISOHEXANE PPBV-C	PARAFFINS********** 3-METHYLPENTANE PPBV-C	N-HEXANE PPBV-C	METHYL CYCLOPENTANE PPBV-C	PARAFFINS********** 24-DIMETHYLPENTANE PPBV-C	CYCLOHEXANE PPBV-C	ISOHEPTANE PPBV-C	PARAFFIN 23-DIMETHYLPENTANE PPBV-C
A001	19.1	0	3	3.7	3.7	0	18.6	0	5.7	4.5	5.7	0
A002	11.2	0	6.1	0	2	14.7	39.1	2.3	0	2.8	3.6	0
A003	5.9	0	0	0	1.7	1.3	29.8	1.8	0	0	1.9	0
A004	7.3	0	2.2	0	0	0	8.8	4.3	1.7	0	7.3	0
A005	398.4	0	74.6	253.4	1166	361.6	457.7	0	876.9	1299	805.8	0
A008	0	0	0	0	0	202.8	72.4	0	48.7	76.4	0	0
A009	106.6	41.7	0	0	88.6	489	274.5	132.3	111.5	418	47.6	0
A010	209.6	0	28.7	188.5	438.7	328.5	164.7	243.8	305.2	172.8	1144	0
A011	812.5	126.1	250.2	305.3	840.6	0	1716	1967	1683	1351	598.7	0
A013	2428	43	771.5	710.9	3132	2386	4593	0	2423	2437	5550	0
A014	316	52.5	141.4	119.2	288.6	324.4	524.2	723.5	720.6	316.4	196.3	0
A015	636	53	175	388	1520	857	955	1590	543	863	2110	0
A016G	574	81.9	182	305	1120	739	593	1150	459	574	712	0
A017G	673	115	268	408	1560	1040	836	1620	644	785	1120	0
A340	3000	344	1300	1450	5090	4010	2310	6860	1150	2250	2840	0
A364	495	116	0	660	2320	1250	1590	2910	619	1680	0	3120
A373	1620	92.6	528	0	6260	1340	1170	1490	466	607	1470	0
A390	205	0	0	0	535	234	124	142	78.1	109	191	0
A414	19300	1500	5810	19300	75800	30300	29400	37800	14600	14900	40800	0
A429	76900	1740	12700	11600	32400	20600	18700	29100	6450	14700	20100	0

PURAIR

Sample Number Units -)	S**********PARAFFINS********** 3-METHYLHEXANE PPBV-C	224-TRIMETHYLPENTANE PPBV-C	N-HEPTANE PPBV-C	METHYLCYCLOHEXANE PPBV-C	25-DIMETHYLHEXANE PPBV-C	PARAFFINS********** 234-TRIMETHYLPENTANE PPBV-C	355-TRIMEHEXANE PPBV-C	3-METHYLHEPTANE PPBV-C	225-TRIMETHYLHEXANE PPBV-C	PARAFFINS********** N-OCTANE PPBV-C	N-NONANE PPBV-C	N-DECANE PPBV-C
A001	0	21.5	16.2	5.8	1.5	62.7	11.9	6.9	0	9.7	15.2	12.3
A002	0	0	6.6	2.2	3.8	21.3	3.2	2.8	0	1.8	7.3	7.9
A003	4.8	0	3.6	2	0	0	3.2	5.8	0	0	7	10.3
A004	3.7	0	0	0	0	0	0	2.1	0	0	0	5
A005	614.3	0	1264	1370	3560	588.4	1995	2241	574.7	1731	7999	24660
A008	0	105.5	0	0	0	0	36.8	0	29.1	0	256.6	608.1
A009	26.1	0	79.1	362.5	297.2	0	82.5	121.1	0	44.8	220.2	541.2
A010	169.3	0	308.6	394.4	126.3	0	504.5	467.6	119	288.3	694.8	1007
A011	460.8	913.3	1097	2350	921.6	0	436.1	728.3	74.9	489.9	806.4	822.4
A013	3759	298.8	9972.9	10190	3158	1273	6270	7972	1935	8989	32770	44530
A014	171.5	0	405.7	932	1210	146.7	156	238.8	124.5	209.7	406.6	767.4
A015	1230	43.9	2670	3770	606	1300	2140	3110	959	3300	10800	15100
A016G	419	122	863	1920	179	261	422	728	185	631	1810	2410
A017G	592	0	1140	2620	224	355	557	995	237	851	2340	3340
A340	1600	0	576	2600	450	471	430	1060	378	543	4710	4660
A364	1530	2510	4570	7070	865	1510	0	6020	1660	7070	21600	27400
A373	846	1090	1370	1410	723	427	907	1070	418	1040	2970	4710
A390	113	0	65.4	278	0	115	221	293	174	323	2500	4700
A414	19100	36700	25800	37100	8940	12400	20100	24900	10100	20200	40500	34200
A429	9360	0	9970	26500	3400	4740	8220	14300	4250	9550	14400	9620

PURAIR

Sample Number	PARAFFINS******* N-UNDECANE	C-6 ALKANE	PARAFFINS**********PARAFFINS*** C-7 ALKANE
Units -)	PPBV-C	PPBV-C	PPBV-C
A001	43.4	0	3.1,4.1
A002	3.3	0	1.8
A003	2.5	0	0
A004	2	0	6.5,1.7
A005	10670	221.5	655.8,551.8,391.9,266.6
A008	404.4	0	194.9
A009	284	0	3284,764.8,140.1,105.8,49,21.9
A010	154.2	0	1972,124.2,113,84,194.8,85.4
A011	750.8	50,216.5	3937,389.6,513.9,396.8,452
A013	7909	0	5219.0,299.7,234.3,2310.0,1873.0,3968.0
A014	322.3	244.1,206.2	162.5,284.2
A015	4540	53.1	117,69.8,829,724,1950
A016G	0	1060	364,299,426,312,1660
A017G	1480	0	408,107,555,430,609
A340	6180	0	108,1350,1190,1040
A364	6380	3570,555,59	498,1460
A373	1060	1900	245,436,840,238,285
A390	939	97.7	164
A414	4620	64900	6480,8990,1180,11600,10400
A429	1620	801	8530,7790,20800

PURAIR

**********PARAFFINS**********PARAFFINS**********

Sample Number	C-8 ALKANE	C-9 ALKANE
Units -)	PPBV-C	PPBV-C
A001	2.6,8.4,5.9	1.9,9.0,10.8,10.5,3.5
A002	0	4.1,2.1
A003	0	2.4
A004	0	2.9
A005	11500.9,255.1,430	287.5,249,924.2,1254,689.5,1088,2120
A008	112.4	50.2
A009	774.2,1671,96.1	129.9,137.4,127.4,87.7,114.1
A010	2462,170.4,141.9	43.6,248.2,122.6,132,222.8
A011	4390,66.9	93.5,401.9,801.2,338.2,159.3,141.3
A013	597.4,1356.0,1694.0,2172.0,2330.0,1930.0	2191.0,3616.0,7364.0,7926.0
A014	238.0,57.6	49.6,306.1,200.0,95.6,319.3,127.8
A015	603,524,611,831,930,284,950	781,356,840,1360,1590,349,2870,3110
A016G	252,178,301,31.3,237,191	136,813,569,191,107,239,483,1090,520
A017G	2200,359,175,367,45.1,324	169,245,1050,239,82.6,317,618,1480,635
A340	432,346,89.4,421,155	285,126,322,677,215,215,646,2750,2380,2790,2380,1940
A364	1070,1360,564,1320,4040,2020	990,1450,3430,7750,1370,1310,4310,5380
A373	240,286,232,184,219,	136,276,492,300,537,92.5,726,764,1180,628
A390	66.6,253	544,230,466,560,1190,655
A414	7610,8040,4660	3270,7520,8560,11000,12700
A429	3380,6050,4310,1170	899,1840,3640,6630

PURAIR

*****PARAFFINS**********PARAFFINS**********PARAF

Sample Number	C-10+ ALKANE
Units -)	PPBV-C
A001	8.5,13.2,5.7,21.5,14.2
A002	3.6,5.3,2.1,1.1,2.4,1.8,1.3,4.6
A003	3.1,4.3,3.9
A004	7.3
A005	1957,1297,3897,2064,874.1,930.4,981,367.3,787,702.5,1975
A008	251.7,93.9
A009	166.9,40.1,65.5,111
A010	106.8,156.1,201.2,39.4
A011	648.9,242.6,196.5
A013	12330.0,6745.0,19300.0,11100.0,3187.0,9751.0,4486.0,14430.0,619.5,396.0
A014	424.8,244.9,78.6,138,282.3,234.8,211.5,105,99.7,185.2,133.2,197.9,144.6
A015	4630,3070,2460,7800,5970,4510,5500,8980,4750,2670,3190,6900,3880,3800,
A016G	557,161,379,715,1410,239,609,942,896,639,786,1260,1090,580,
A017G	909,322,1850,803,1380,1000,782,1090,1620,1640,780,275,784,299,
A340	3800,6550,8420,7030,6560,7770,3930,3220,2630,705,666,971,1730,
A364	9340,4220,5530,3730,12900,9470,2220,18800,14300,7580,661,5050,353,
A373	545,1870,893,1300,3300,2020,1070,679,506,606,1890,845,764,616,
A390	1960,2380,3040,2370,1230,766,495,1870,902,788,625,468,490,434,
A414	8030,6350,22400,24100,32000,2810,6590,1690,1070
A429	8390,6460,2220,550,1920,514

PURAIR

Sample Number	C-10+ ALKANE
Units -)	PPBV-C
A001	
A002	
A003	
A004	
A005	
A008	
A009	
A010	
A011	
A013	
A014	
A015	2200, 2010, 1890, 1810, 677, 1380, 597, 440, 228, 412, 386, 153
A016G	710, 228, 575, 238, 314, 140, 265, 165
A017G	399, 178, 400, 224, 730, 72
A340	1360, 1140, 475, 262, 80.4
A364	3490, 409, 4060, 680, 12700, 549, 6030, 875, 669, 869, 3750, 5210, 2390, 1400,
A373	560, 485, 727, 492, 468, 315, 1010, 206, 587, 361, 82
A390	303, 172, 77.1
A414	
A429	

PURAIR

Sample Number	C-10+ ALKANE	*&&&****OLEFINS********* ETHYLENE	ACETYLENE	PROPYLENE
Units -)	PPBV-C	PPBV-C	PPBV-C	PPBV-C
A001		0	0	0
A002		0	0	0
A003		0	0	0
A004		0	0	0
A005		0	0	0
A008		0	0	0
A009		0	0	0
A010		0	0	0
A011		0	0	0
A013		0	0	0
A014		0	0	0
A015		0	0	0
A016G		0	0	0
A017G		0	0	0
A340		0	0	0
A364	392,2930,8160,5620,948,1860,617,4880,6220,4340,3050,2480	0	0	6360
A373		0	0	0
A390		0	0	0
A414		0	0	0
A429		0	0	0

PURAIR

Sample Number Units -)	********OLEFINS********* PROPYNE PPBV-C	ISOBUTENE + 1-BUTENE PPBV-C	13-BUTADIENE PPBV-C	OLEFINS********** T-2-BUTENE PPBV-C	1-BUTYNE PPBV-C	C-2-BUTENE PPBV-C	OLEFINS********** 3-METHYL-1-BUTENE PPBV-C	1-PENTENE PPBV-C	2-BUTYNE PPBV-C	OLEFINS********** 2-METHYL-1-BUTENE PPBV-C	ISOPRENE PPBV-C	ACETONITRILE PPBV-C
A001	0	112.6	0	0	0	0	0	16.7	0	0	3.7	4.8
A002	0	0	0	1.5	0	0	0	0	0	5.6	3.4	0
A003	0	0	0	0	0	0	0	0	0	0	0	0
A004	0	0	0	0	0	0	0	0	0	0	0	0
A005	0	595.6	0	383.4	0	251.3	0	2514.4	0	0	0	1216.7
A008	0	0	0	0	0	0	0	0	0	0	0	0
A009	0	76.8	0	131.7	0	54.2	0	0	0	0	122.4	0
A010	0	0	0	260.3	0	105.5	0	0	0	0	620	0
A011	0	364.6	0	965.7	0	391.8	0	0	0	0	0	0
A013	0	155.4	0	648.4	0	357.7	22.4	360.9	0	165.8	0	0
A014	0	150.7	0	360.7	0	210.9	0	0	0	0	0	0
A015	0	159	0	291	0	178	0	156	0	0	0	0
A016G	0	355	0	824	0	466	0	179	0	0	0	223
A017G	0	520	0	1190	0	638	0	303	0	96	0	259
A340	0	0	0		0		0	0	0	0	0	0
A364	0	0	3200	5100	0	2250	0	388	0	0	0	0
A373	0	1460	0	3740	0	1780	0	83.5	0	0	0	139
A390	0	446	0	249	0	248	0	0	0	0	0	0
A414	0	1770	0	8190	0	3660	0	0	0	0	0	7010
A429	0	5560	0	2710	0	1450	1330	2520	0	900	0	0

PURAIR

Sample Number Units -)	********OLEFINS********** T-2-PENTENE PPBV-C	C-2-PENTENE PPBV-C	2-METHYL-2-BUTENE PPBV-C	CYCLOPENTENE PPBV-C	OLEFINS********** 4-METHYL-1-PENTENE PPBV-C	C-4-METHYL-2-PENTENE PPBV-C	T-4-METHYL-2-PENTENE PPBV-C	OLEFINS********** 2-METHYL-1-PENTENE PPBV-C	1-HEXENE PPBV-C	2-ETHYL-1-BUTENE PPBV-C	OLEFINS********* 2-METHYL-2-PENTENE PPBV-C	T-2-HEXENE PPBV-C
A001	4.7	0	0	0	0	0	0	0	26.5	0	0	8.5
A002	0	0	0	8.7	0	0	0	0	0	0	0	2.1
A003	0	0	0	0	0	0	0	0	0	0	0	0
A004	0	0	0	0	0	0	0	0	0	0	0	0
A005	0	0	0	0	0	0	0	0	0	0	0	953.9
A008	0	0	0	0	0	0	0	0	0	0	0	0
A009	0	0	61.9	0	0	0	36.6	0	0	0	0	182.8
A010	0	0	89.2	0	0	0	28.4	0	0	0	0	257.3
A011	0	0	0	42.4	0	0	138.9	448.5	0	0	0	2121
A013	446.2	126.4	0	55.7	0	0	1847	28.4	0	0	0	1900
A014	104.2	0	0	0	0	0	142.8	0	0	0	0	681.9
A015	101	0	154	118	149	0	1390	0	118	0	0	483
A016G	292	67.4	246	78.2	148	0	1420	0	173	0	115	515
A017G	316	83.6	316	105	180	0	1960	0	184	0	68.3	96.7
A340	51.9	42.2	285	90.4	0	0	346	0	113	0	286	530
A364	0	286	1300	135	366	0	979	0	375	0	0	1120
A373	395	194	798	337	0	884	0	0	251	0	0	1390
A390	0	0	0	0	0	0	153	0	102	0	0	303
A414	1760	0	1510	2370	0	0	8590	0	626	0	0	0
A429	2180	2470	2980	1500	0	0	3670	0	1880	0	2210	2990

PURAIR

Sample Number Units -)	C-2-HEXENE PPBV-C	C-3-METHYL-2-PENTENE PPBV-C	METHYL CYCLOPENTENE PPBV-C	CYCLOHEXENE PPBV-C	1-HEPTENE PPBV-C	3-HEPTENE PPBV-C	2-HEPTENE PPBV-C	244-TRIME-1-PENTENE PPBV-C	244-TRIME-2-PENTENE PPBV-C	1-METHYLCYCLOHEXENE PPBV-C	1-OCTENE PPBV-C	C-2-OCTENE PPBV-C
	********OLEFINS				********OLEFINS			********OLEFINS			********OLEFINS	
A001	0	0	0	0	0	0	0	7.7	4.1	4	9.8	0
A002	0	0	0	8.8	6	1.3	0	3.5	0	1.1	2.9	0
A003	0	0	2.9	6.8	0	0	0	1.6	1.4	0	0	0
A004	0	0	0	0	0	0	0	0	0	0	0	0
A005	0	0	0	3679.4	0	216.6	0	0	324.4	322.3	252	604.4
A008	0	0	0	48.2	0	0	0	0	47.6	0	0	0
A009	0	0	0	0	0	67.9	0	0	38.7	0	28	49.1
A010	0	0	0	0	0	65.1	0	0	69.3	156.4	78.7	138.4
A011	36.3	0	0	653.4	0	0	0	0	353.1	0	1613	195.6
A013	114.7	0	0	0	0	0	0	271.1	0	0	2118	463.5
A014	0	0	0	0	0	122.1	0	0	146.2	0	0	0
A015	28.6	0	0	0	0	0	0	209	0	0	1000	282
A016G	42.2	0	0	0	0	0	0	0	263	203	391	332
A017G	736	71.3	0	0	41.2	60.3	0	392	67.6	295	500	207
A340	86.6	0	0	0	0	160	0	184	0	296	388	55.5
A364	129	0	0	0	0	0	0	1490	232	1710	2210	469
A373	0	0	0	0	0	0	0	316	0	578	247	0
A390	0	0	0	0	0	0	0	0	0	135	141	0
A414	0	0	0	0	0	0	0	9030	4700	9290	5440	1730
A429	826	0	0	0	0	0	0	896	3610	3040	4000	500

PURAIR

********OLEFINS**********OLEFINS**********OLEFINS**********

Sample Number	1-NONENE	4-NONENE	A-PINENE	B-PINENE	1-DECENE	LIMONENE	1-UNDECENE	C6 ALKENE	C7 ALKENE
Units -)	PPBV-C	PPBV-C	PPBV-C	PPBV-C	PPBV-C	PPBV-C	PPBV-C	PPBV-C	PPBV-C
A001	5	0	4.3	13.6	10.3	0	17.5	12.6	8.3
A002	2.4	0	0	2.8	3.1	0	3.1	0	1.7,1.2,2.6
A003	0	0	9.2	4.5	19.8	0	0	0	0
A004	0	0	0	0	0	0	0	0	0
A005	501.5	0	4082	6345	2738	2688	4564	0	5337,1586
A008	408.4	0	181.5	0	0	0	114.4	0	0
A009	43	0	0	184.5	129.1	0	260.4	32.9	178.7,94.2,175.9
A010	47.9	0	0	355.6	130.6	0	57.6	0	0
A011	0	0	166.7	614	154.6	254.9	1108.4	0	1471,799.7
A013	13660	0	5965	20350	6012	5427	4275	0	261.6,28.0
A014	0	0	0	0	53.3	0	325.6	104.1	445.7,175.1
A015	5370	0	0	0	2810	0	2550	92.9,436	113
A016B	1140	0	1050	0	550	0	845	72.3	0
A017B	1410	0	462	0	700	0	1190	0	0
A340	0	3260	12300	15200	14800	0	1830	71.7	93.5,187,82.4,2390
A364	10500	0	0	0	4840	0	4080	0	194,151,3280
A373	1180	0	1390	0	637	0	479	0	53.6
A390	1090	0	552	0	751	0	652	0	0
A414	0	0	16200	19800	9740	12400	0	0	0
A429	9000	0	2070	7510	0	3910	0	0	0

PURAIR

OLEFINS**********OLEFINS**********

Sample Number	C8 ALKENE	C9 ALKENE
Units -)	PPBV-C	PPBV-C
A001	0	4.7,7.4
A002	2.3	3.6,1.9,2.0
A003	0	4.3
A004	0	0
A005	214.4,203,722.8	1619,672.4,612.1,1207,1910
A008	337.2,75.4	0
A009	95.1	44.3,49.3,113.2,173.5,191.3
A010	63.4,213.9,69.1	86.4,91.9,192.1,534.9,116,211.6,301.1
A011	487.5,4189,499.7	233.6,529.3,352.9,295.3
A013	0	1242.0,882.3,829.9,8085.0
A014	84.1,195.4	1209.0,82.9
A015	65.5	685,3390
A016G	218,236	198
A017G	308	377,771,1380
A340	427	160,2240,1450
A364	0	1650
A373	0	0
A390	0	417,1460
A414	6000,7300	4740,19200,18100,14800
A429	4290,5000,1380	5630,11400,1620,5070,2590

PURAIR

Sample Number	********OLEFINS**********	***********AROMATIC********			********AROMATIC*****
	C10+ ALKENE	BENZENE	TOLUENE	ETHYLBENZENE	P-XYLENE/M-XYLENE
Units -)	PPBV-C	PPBV-C	PPBV-C	PPBV-C	PPBV-C
A001	3.3,7.7,4.8,2.7,7.7,7.5,13.7,38.6,15.2,23.6	32	11.4	411.2	1792.3
A002	3.0,2.3,1.8,3.0	13.2	7.7	47.7	206.8
A003	0	3.1	11.1	49.4	208.4
A004	0	3.5	2.7	4.2	11.8
A005	5487,3128,6077,1959,7287,3969,1754,1537,566.1,437.1	1000	3842	2286	6912
A008	466.4,1386	290.7	79.1	94.7	210.4
A009	261.4,234.9,174.7,250.4	543	935.9	488.8	1260
A010	325.3,650.8,169.5,92.4	962.4	1057	0	782.5
A011	1585,718.6	4750	208300	0	23670
A013	14050,7606,3612,3880,3322,11000,7469,1897,3493,373	5667	38480	23360	55660
A014	219.2,406.3,594.0,426.9,298.2,76.3	1640.4	7808.4	3043	7719.2
A015	5950,3170,3030,4190,2340,1170,378,293	482	3010	4360	4010
A016G	2150,1030,2880,1670,1630,708,855,979,982,348,148,206,78.5	693	5340	2550	6530
A017G	1490,1020,2440,2420,1270,1110,495,210,304,92.8,101	865	7380	3460	9110
A340	10400,8480,14800,18000,23000,6230,3470,4940,269,264	168	768	1680	1410
A364	2650,2890,383,548,169	1340	9220	6400	12800,711
A373	1310,126,160	494	1900	1070	2210
A390	1160,828	124	413	584	1260
A414	6100,5570,3020	14300	64800	17700	32700
A429	7540	1740	6520	6730	6610

PURAIR

Sample Number	STYRENE	O-XYLENE	ISOPROPYLBENZENE	N-PROPYLBENZENE	M-ETHYLTOLUENE	P-ETHYLTOLUENE	135-TRIMETHYLBENZENE	O-ETHYLTOLUENE	T-BUTYLBENZENE	124-TRIMETHYLBENZENE	ISOBUTYLBENZENE	123-TRIMETHYLBENZENE
	**********	**********	AROMATIC	**********	**********	AROMATIC	**********	**********	AROMATIC	**********	**********	AROMATIC
Units -)	PPBV-C	PPBV-C	PPBV-C	PPBV-C	PPBV-C	PPBV-C	PPBV-C	PPBV-C	PPBV-C	PPBV-C	PPBV-C	PPBV-C
A001	0	609.1	14.2	16.7	56.4	0	0	23	0	76.8	0	31.5
A002	0	78.9	4.6	10.9	24.9	0	8.4	9.3	0	20.1	0	0
A003	0	67.4	2.4	9.2	24.1	0	9.8	11.2	0	21.5	0	0
A004	1.6	5.1	0	5.3	1.8	0	0	0	0	2.3	0	0
A005	0	2712	941.9	2734	7567	0	8272	10320	0	10750	0	5673
A008	259.3	420.7	390.3	602.6	208.8	0	155.9	0	0	224.6	0	0
A009	0	635.5	135	332.3	824.8	0	487.6	376.2	0	1206.1	0	604.1
A010	0	302.5	276	236.7	477.8	0	493.6	0	0	571.1	0	415.2
A011	0	7835	714	2116	7799	0	3385	2605	0	10510	962.8	3668
A013	0	20980	0	10380	27390	0	27020	33820	0	38510	6420	15350
A014	0	2573	0	754.7	2509	0	1202	1602	0	3330	0	2594
A015	0	3960	0	3490	0	0	9500	0	0	7420	0	5900
A016G	0	3340	352	0	4030	0	2950	0	0	6680	0	3320
A017G	0	4590	460	2990	5950	0	4150	3980	0	5890	0	5010
A340	1300	3900	5190	5330	20700	0	0	0	6130	6990	17800	0
A364	0	6150	0	0	11400	0	17200	0	0	17900	0	11000
A373	0	1030	0	0	2010	0	2750	0	0	2960	0	1610
A390	0	689	0	0	1940	0	3470	495	2870	0	0	1630
A414	0	15000	0	0	16700	0	25100	0	0	20500	5630	9520
A429	0	3740	0	0	5170	0	8280	8000	0	3210	1800	4090

PURAIR

Sample Number	**********	**********	AROMATIC	**********	**********	AROMATIC	**********	**********	**********
	P-ISOP ROPYLTO LUENE	INDAN	INDENE	M-DIET HYLBENZ ENE	N-BUTYL BENZENE	P-DIET HYLBENZ ENE	NAPHTH ALENE	VAPHTHA LENE	C9
Units -)	PPBV-C	PPBV-C	PPBV-C	PPBV-C	PPBV-C	PPBV-C	PPBV-C	PPBV-C	PPBV-C
A001	0	8.4	6.7	21.9	10.2	27.3	489.6	0	0
A002	0	1.5	0	0	0	0	13.2	0	0
A003	5.3	0	0	12.5	7.6	5.3	11.9	0	0
A004	0	0	0	0	0	0	1.9	0	0
A005	2360	2490	0	4319	4925	3199	1857	0	0
A008	0	0	0	183.3	156.9	0	139.3	0	0
A009	225.5	0	0	133.4	210.6	238.3	341.3	0	0
A010	94.2	0	0	136.4	210.3	68.8	153.6	0	409.8
A011	680.5	958.2	116.8	580.9	1379	0	740.3	0	0
A013	0	6580	0	6784	7935	5306	777	0	0
A014	0	341.2	0	206.1	320.7	443.2	187.9	0	0
A015	0	0	0	0	4190	0	459	0	0
A016G	0	957	446	0	0	0	286	0	0
A017G	0	1390	529	0	0	0	326	0	0
A340	0	0	0	7090	7760	0	343	0	0
A364	0	0	4730	0	0	0	0	0	0
A373	0	0	0	0	0	0	0	0	0
A390	0	567	709	0	934	479	0	0	0
A414	0	4090	4870	5230	5430	3090	0	0	0
A429	0	1200	1440	1460	1570	1130	0	0	6120

PURAIR

********AROMATICS**********AROMATICS**********

Sample Number	C10+ AROMATIC
Units -)	PPBV-C
A001	7.6,29.0,27.5,9.7,2.8,60.4,13.4,17.8,20.2,49.4,29.8,19.0,45.3
A002	0
A003	2.3
A004	0
A005	3816,2906,2467,2234,3543,1839,3833,446.1,2128,1514,773.1,575.8
A008	220,139.4,117.3,114.2,223.7,184,64.4
A009	158.7,209.8,209.2,113.8,147.5,286.2,241,207.2,95.4,65.2
A010	347.9,125
A011	258.8,1306.0,1096.0,211.5,588.8,1611.0,519.5,346.4,731.0,199.2
A013	7345,2614,983.5,1446,3370,3594,1010,571.5,413.3,610.1,2075
A014	222.1
A015	3380,3950,1500,1960,2060,658,291,393,71.8
A016G	371
A017G	1380
A340	10200,1640,3170,2830,785,386,516
A364	134
A373	359,283,449
A390	350,261,402
A414	5390,2030
A429	1710,1890

PURAIR

Sample Number	AROMATICS C-10+	AROMATICS AROMATICS	TOTAL HALOGENATED HYD CHLORO METHANE	VINYL CHLORIDE	BROMOM ETHANE	CHLORO ETHANE
Units ->	PPBV-C		PPBV-C	PPBV-C	PPBV-C	PPBV-C
A001	662.3		0	0	0	0
A002			0	0	0	0
A003			0	0	0	0
A004			0	0	0	0
A005	781.7		104.6	0	0	0
A008			0	0	0	0
A009			7.1	0	0	0
A010			0	0	0	0
A011	1014.0,404.8,794.2,406.1,261.7,111.2,167.4,55.4,116.0,105.0		5232	0	0	0
A013	241.7		0	0	0	0
A014			0	0	0	1803
A015			0	380	0	0
A016G			413	0	0	0
A017G			76.4	0	0	0
A340			8.27	0	0	0
A364			0	0	0	0
A373			602	0	0	0
A390			558	0	0	0
A414			463000	224000	0	0
A429			995	0	0	0

PURAIR

Sample Number Units -)	ROCARBONS TRICHL OROFLOR OMETHAN PPBV-C	11-DIC HLOROET HYLENE PPBV-C	METHYL ENE CHL ORIDE PPBV-C	T-12-D ICHLORO ETHENE PPBV-C	CHLORO FORM PPBV-C	TOTAL HALOGENATED HYDROCARBONS 12-DIC HLOROET HANE PPBV-C	111-TR ICHLORO ETHANE PPBV-C	CARBON TETRAC HLORIDE PPBV-C	12-DIC HLOROPR OPANE PPBV-C	TRICHLO ROETHYL ENE+BRO MODCM PPBV-C	TRICHL OROETHY LENE PPBV-C	BROMOD ICHLORO METHANE PPBV-C
A001	0	0	62.6	0	0	0	0	0	0	0	0	0
A002	34.5	0	34.2	0	0	0	0	0	0	0	0	0
A003	0	0	10.8	0	0	1.2	0	0	0	0	0	0
A004	-1	0	11.5	0	0	0	0	0	0	0	0	0
A005	0	0	277.6	0	0	135.8	674.1	4493	1460	2462	0	0
A008	0	0	0	0	0	0	0	28.1	0	0	0	0
A009	0	0	1.5	0	87.9	0	2.9	14.1	4	30.7	0	0
A010	0	0	469.9	0	0	102.9	458.2	820.4	4512	1761	0	0
A011	5771	0	2509	542.1	0	0	4505	906.9	1535	34510	0	0
A013	178.6	0	4151	0	137.9	722.5	4813	269.6	186.6	52280	0	0
A014	0	0	1304	0	0	126.6	1849	0	162.9	13950	0	0
A015	0	0	60.2	0	311	0	85.4	0	0	3680	0	0
A016G	0	212	75.5	0	0	0	600	0	0	4060	0	0
A017G	0	38.4	98.6	0	0	0	2540	0	0	15800	0	0
A340	0	0	0	0	0	0	0	0	0	0	0	0
A364	0	0	154	0	0	0	0	0	0	2410	0	0
A373	0	0	622	0	104	0	116	0	0	160	0	0
A390	0	0	951	0	0	0	0	0	0	146	0	0
A414	0	0	708	0	0	0	1730	0	0	29500	0	0
A429	0	0	0	0	0	0	0	0	0	14500	0	0

PURAIR

Sample Number Units -)	***TOTAL HALOGENATED HYDROCARBONS*** BICHLOROMETHYL ETHER PPBV-C	C-13-DICHLOROPROPENE PPBV-C	T-13-DICHLOROPROPENE PPBV-C	112-TRICHLOROETHANE PPBV-C	DIBRONOCHLOROMETHANE PPBV-C	TETRACHLOROETHYLENE PPBV-C	CHLOROBENZENE PPBV-C	11-DICHLOROETHANE PPBV-C	1122-TETCHLOROETHANE PPBV-C	TOTAL HALOGENATED HYDROCARBON O-CHLOROTOLUENE PPBV-C	M-CHLOROTOLUENE PPBV-C	P-CHLOROTOLUENE PPBV-C
A001	0	0	0	0	0	1.8	0	0	0	0	0	0
A002	0	0	0	0	0	0	0	0	0	0	0	0
A003	0	0	0	0	0	0	0	0	0	0	0	0
A004	0	0	0	0	0	0	0	0	0	0	0	0
A005	0	0	0	484.9	0	1185	7071	0	0	0	0	0
A008	0	0	0	0	0	0	0	0	0	0	0	0
A009	0	0	0	0	0	4.8	0	0	0	0	0	0
A010	0	0	0	154.8	0	255.1	0	1457	0	0	0	0
A011	0	0	0	1123	0	2087	356.4	0	0	0	0	0
A013	0	0	0	74.7	0	3316	359.7	297.6	0	0	0	0
A014	0	0	0	131	0	498.2	0	744.7	0	0	0	0
A015	0	0	0	0	0	1560	1610	165	0	0	0	0
A016G	0	0	0	0	0	958	0	138	0	0	0	0
A017G	0	0	0	0	0	4190	0	464	0	0	0	0
A340	0	0	0	0	0	0	0	0	0	0	0	0
A364	0	0	0	1810	482	625	0	0	0	0	0	0
A373	0	0	0	0	0	118	0	0	0	0	0	0
A390	0	0	0	0	0	139	0	0	0	0	0	0
A414	0	0	0	0	0	2800	0	4050	0	0	0	0
A429	0	0	0	0	0	1850	0	0	0	0	0	0

PURAIR

Sample Number Units -)	S********** BICHLO ROETHYL ETHER PPBV-C	M-DICH LOROBEN ZENE PPBV-C	P-DICH LOROBEN ZENE PPBV-C	TOTAL O-DICH LOROBEN ZENE PPBV-C
A001	0	0	0	0
A002	0	0	0	0
A003	0	0	0	0
A004	0	0	0	0
A005	0	0	0	0
A008	0	0	0	0
A009	0	0	0	0
A010	0	0	0	0
A011	0	0	47	156.2
A013	0	0	0	0
A014	0	0	0	0
A015	0	0	0	0
A016G	0	0	0	0
A017G	0	0	0	157
A340	0	0	0	0
A364	0	0	0	0
A373	0	0	0	0
A390	0	0	0	0
A414	0	0	0	0
A429	0	0	0	0

PURAIR

HALOGENATED HC**********

Sample Number	***UNIDENT. HALOG. HC
Units -)	PPBV-C
A001	0
A002	0
A003	0
A004	0
A005	54.7,15600,2540,2244,2317,1647,834.2,24000,455.3,5074,2369,
A008	21.6,6.3
A009	9.4,6.5,2.9,2.5,2.9,2.1,4.5,18.4,1.2
A010	27050,5974,3405,3038,658.7,84.3,25670,83.8,4674,625.8,4603
A011	270.8,161.1,200.7,1814.0,5117.0,355.9,249.1,384.1,254.2,326.2
A013	97,146.9,382.7,57.4,103.5,834.3,50.9,79.5,68.3,91
A014	1316,113,443.5,249.5,10.1,1914,212.8,613.4,4642,10.9,1266,88.8
A015	51.4,42.2,105
A016G	526,959,853,767,764,427
A017G	0
A340	0
A364	11300
A373	3050,5260,1420,519,867,1280
A390	1600,2320,319
A414	12600,22700,21300,8530,89000,777000,5990,3020
A429	380,3770

PURAIR

*********TOTAL HALOGENATED HYDROCARBONS**********

Sample Number	UNIDENT. HALOGENATED HC
Units -)	PPBV-C
A001	
A002	
A003	
A004	
A005	62.8,1091,8944,383.5,90.6,757.1,342.9,732.3,56.2,586.4,2430,27.2,21,
A008	
A009	
A010	334.6
A011	438.3,972.7,252.1,55.8,300.5,542.1,3724.0,483.2,1323.0,3210.0
A013	
A014	912.3,169.8
A015	
A016G	
A017G	
A340	
A364	
A373	
A390	
A414	
A429	

PURAIR

**********TOTAL HALOGENATED HYDROCARBONS**********&&&*

Sample Number	UNIDENT HALOGENATED HC	UNIDENT. HALO. HC
Units -)	PPBV-C	PPBV-C
A001		
A002		
A003		
A004		
A005	143.5,309.3,410.7,230.1,428,462.7,342.9,115,96.5,220.2,120.2,120.2,	128.7,189,368.9
A008		
A009		
A010		
A011	1137.0,410.0,581.1,336.7,247.9,290.6,34.4,14720.0	
A013		
A014		
A015		
A016G		
A017G		
A340		
A364		
A373		
A390		
A414		
A429		

PURAIR

&&&**********TOTAL OXYGENATED HYDROCARBONS**********TOTAL OXYGENATED HYDROCARBONS******

Sample Number Units -)	ACETALDEHYDE PPBV-C	METHANOL PPBV-C	PROPIONALDEHYDE PPBV-C	ACETONE PPBV-C	ETHANOL PPBV-C	DIETHYL ETHER PPBV-C	2-PROPANOL PPBV-C	ISOBUTYRALDEHYDE PPBV-C	1-PROPANOL PPBV-C	BUTYRALDEHYDE PPBV-C	BUTANONE PPBV-C	ISOVALERALDEHYDE PPBV-C
A001	149.3	0	0	316.9	0	0	0	29.4	0	141.4	41.4	35.6
A002	0	49	0	44.6	13	1.4	0	0	0	58.2	7.8	16.6
A003	0	0	0	22.5	0	0	0	0	0	8.4	9.9	0
A004	0	5.2	0	41	0	0	0	0	0	0	15.4	0
A005	0	0	0	1933	0	0	0	0	0	98	2421	5385
A008	0	0	0	0	0	0	0	0	0	0	452.2	0
A009	0	101.1	443.3	672.9	0	0	0	0	0	1670.9	155.8	0
A010	0	0	154.5	1571.1	0	0	0	0	0	1108	541.1	0
A011	0	0	0	1713	0	0	0	0	0	969.1	1764	0
A013	0	193.3	0	1222	0	0	0	0	0	239	0	0
A014	0	40.8	0	0	0	0	0	0	0	187.4	0	0
A015	0	0	0	0	0	0	0	0	0	971	0	125
A016G	0	69.8	0	0	322	0	41.6	0	0	1500	0	0
A017G	0	667	0	0	474	0	207	0	0	2080	0	0
A340	0	147	0	122	0	0	0	0	0	0	0	0
A364	0	0	0	0	0	738	0	0	0	0	0	0
A373	0	0	0	0	0	0	0	0	0	0	0	0
A390	0	0	0	0	0	0	0	0	0	0	0	0
A414	0	0	0	0	0	0	0	0	0	0	0	0
A429	0	0	0	0	0	0	0	0	0	0	0	0

PURAIR

**********TOTAL OXYGENATED HYDROCARBONS**********XXX*X*SULFUR SPECIES*X

Sample Number	2-PENT ANONE	1-BUTA NOL	VALERA LDEHYDE	3-PENT ANONE	14-DIO XANE	BICHLO ROMETHY L ETHER	METHYL ISOBUTY LKETONE	HEXANAL	BICHLO ROETHYL ETHER	BUTYL MERCAP TAN	3-METHY LTHIO PHENE
Units -)	PPBV-C	PPBV-C	PPBV-C	PPBV-C	PPBV-C	PPBV-C	PPBV-C	PPBV-C	PPBV-C	PPBV-C	PPBV-C
A001	14.2	0	128.2	0	0	0	0	89.6	0	3.2	0
A002	0	0	45.4	4.8	0	0	0	29.4	0	0	1.6
A003	0	0	0	0	3.1	0	0	3.6	0	0	0
A004	0	0	0	0	0	0	0	1.2	0	0	0
A005	0	0	0	0	1083	0	0	1230	0	0	0
A008	0	0	0	0	0	0	0	0	0	0	0
A009	0	0	0	0	0	0	0	181.2	0	0	0
A010	0	0	0	0	0	0	0	227.1	0	0	0
A011	0	0	0	0	0	0	0	648.5	0	0	0
A013	0	0	0	0	0	0	0	626.8	0	0	0
A014	0	0	0	0	0	0	0	198.1	0	0	0
A015	0	0	0	0	0	0	0	478	0	0	0
A016G	0	0	0	0	0	0	0	254	0	0	0
A017G	0	0	0	0	0	0	0	317	0	0	0
A340	0	0	0	0	0	0	0	137	0	0	0
A364	0	0	0	0	0	0	0	752	0	0	0
A373	0	454	0	0	0	0	0	237	0	0	0
A390	0	0	0	0	0	0	0	122	0	0	0
A414	0	0	0	0	0	0	0	2220	0	0	0
A429	0	0	0	0	0	0	0	1340	0	0	0

PURAIR

*XXX*********UNIDENTIFIED VOC(C)*******

Sample Number	
Units -)	PPBV-C
A001	6.7,2.6,2.0,3.1,5.9,26.8,4.7,4.8,3.9,3.3,50.6,31.7
A002	11.4,2.4
A003	5.3,2.2
A004	0
A005	2216,379,570.4,1103,521.3,2240,489
A008	105.5,253.3,100,157.8,242.9,198.9,79.4,223.7
A009	164,39.2,178.3,28.2,88.4
A010	130.4,322.9,35.9,508.6,90.3,91.4,147.6,54.4,69.3
A011	136.9,536.2,73.2,305.7,81.9,404.9,212.9,107.3
A013	62.3
A014	540.7,781.3,95.7
A015	716,156
A016G	363,29
A017G	37,401,324
A340	216,137,1360,82.9,29.7
A364	22400
A373	170,117,607
A390	0
A414	1340,1020
A429	500,473,2110,1270

PURSLDB AUG. 20,'85

Sample No.	Area	Site	Grid Location	Date	Depth ft	pH	Condt ug-mhos	VolPK ppmv	VolAV ppmv	Comments
Units -)										
Dct.Lmt.-)						.01	1			
S006		Trch 1	E14	61184						
S007		Trch 1	E14	61184						
S012		Trch 2	F8	61284						
S016		Trch 2	F8	61384						
S017		H1		61384	0-1	6.4	225	NA	0.2	
S018		G1		61384	0-1	7.5	125	0.5	0.3	
S019		F1		61384	0-1	6.5	500	0.6	0.4	
S020		E1		61384	0-1	6.2	650	0.7	0.5	
S021		D1		61384	0-1	5	850	1.6	1.3	
S022		C1		61384	0-1	6.3	45	0.4	0.3	
S023		B1		61484	0-1	6.1	175	1.2	0.9	
S024		A1		61484	0-1	6.4	190	1	0.7	
S024D		A1		61484	0-1	6.6	110	1.5	1.1	
S025		A2		61484	0-1	6.7	100	1.3	0.9	
S026		B2		61484	0-1	6.2	60	0.9	0.6	
S027		C2		61384	0-1	6.6	95	0.4	0.3	
S028		D2		61384	0-1	6.4	1600	0.7	0.4	
S029		E2		61384	0-1	6.4	290	0.3	0.25	
S030		F2		61384	0-1	6.7	775	0.4	0.3	
S031		G2		61384	0-1	6.3	500	0.3	0.2	
S032		H2		61384	0-1	4.7	1250	NA	0.2	
S033		H3		61484	0-1	5.3	1950	1	0.9	
S034		G3		61484	0-1	6.8	1750	1.4	0.8	
S035		F3		61484	0-1	6	2100	2.7	1.25	
S036		E3		61484	0-1	5.6	1225	1	0.8	
S037		D3		61484	0-1	7.1	400	0.9	0.9	
S038		C3		61484	0-1	4.9	90	1.1	0.9	
S039		B3		61484	0-1	7.6	150	1.3	1.1	
S039D		B3		61484	0-1	8.4	140	0.8	0.8	
S040		A3		61484	0-1	7	125	1	0.9	
S041		A4		61484	0-1	6.8	240	0.8	0.8	
S042		B4		61484	0-1	8.1	95	0.8	0.8	
S043		C4		61484	0-1	4.6	1450	1.7	1.4	
S043D		C4		61484	0-1	4.5	1500	1.9	1.6	
S044		D4		61484	0-1	6.2	1250	1.8	1.5	
S045		E4		61484	0-1	6.5	425	1.3	0.9	
S046		F4		61484	0-1	8.1	375	10.1	2.5	
S047		G4		61484	0-1	5.7	1750	3.8	2.5	
S048		H4		61484	0-1	6.7	1700	3.8	2	
S049		H5		61484	0-1	7	2300	1.3	1	
S050		G5		61484	0-1	6.3	1900	1.1	0.8	
S051		F5		61484	0-1	6.6	425	1.5	1.1	
S052		E5		61484	0-1	6	550	6.7	5.5	
S053		D5		61484	0-1	6.5	460	1.4	1.2	
S053D		D5		61484	0-1	6.6	1175	1.2	0.9	
S054		C5		61484	0-1	6.7	1300	1.1	0.8	
S055		B5		61484	0-1	8.1	275	0.9	0.8	
S056		A5		61484	0-1	7.1	180	1	0.8	
S057		A6		61484	0-1	8.1	125	1	0.9	
S058		B6		61484	0-1	6.8	450	0.9	0.9	
S059		C6		61484	0-1	4.5	950	0.9	0.9	
S060		D6		61484	0-1	7.4	1200	1.3	0.9	
S061		E6		61484	0-1	6.9	450	1.2	0.8	
S061D		E6		61484	0-1	6.7	500	1.5	1.3	
S062		F6		61484	0-1	6.8	2400	1.1	0.9	
S063		G6		61484	0-1	6.9	1400	7.3	4	
S064		H6		61484	0-1	4.6	2250	1.3	1.2	
S065		H7		61484	0-1	5	750	1.1	0.9	
S066		G7		61484	0-1	6.5	250	0.7	0.7	
S067		F7		61484	0-1	7	2500	1.6	1.1	
S068		E7		61484	0-1	2.9	1700	1.3	1	
S069		D7		61484	0-1	2.5	3000	1.1	1	
S070		C7		61484	0-1	2.2	8500	1.8	1.6	
S071		D8		61484	0-1	3.6	3000	1.3	1	
S072		E8		61484	0-1	6.3	650	0.9	0.9	
S073		F8		61484	0-1	6.2	1450	1.3	1	

PURSLDB AUG. 20,'85

Sample No.	Area	Site	Grid Location	Date	Depth ft	pH	Condt ug-mhos	VolPK ppmv	VolAV ppmv	Comments
Units -)										
Dct.Lmt.-)						.01	1			
S074		F9		61484	0-1	7	1850	0.6	0.6	
S075		E9		61484	0-1	7.1	1000	0.8	0.7	
S076		D9		61484	0-1	6	1200	0.6	0.6	
S077		D10		61484	0-1	7.3	200	0.6	0.6	
S078		E10		61484	0-1	6.9	280	0.7	0.6	
S079		F10		61484	0-1	7.6	2500	0.7	0.6	
S079D		F10		61484	0-1	7	140	0.6	0.6	
S080		F11		61484	0-1	7.8	30	0.6	0.6	
S081		F12		61484	0-1	7.5	210	0.6	0.5	
S082		E12		61484	0-1	7.5	370	0.6	0.5	
S082D		E12		61484	0-1	7.4	220	0.5	0.5	
S083		D12		61484	0-1	7.8	85	NA	NA	
S084		D13		62684	0-1	8.5	180	0.5	0.3	
S085		E13		62684	0-1	7.9	200	1.6	1	
S086		F13		62684	0-1	8.4	90	0.1	0	
S087		F14		62684	0-1	7.8	230	0.3	0.1	
S088		E14		62684	0-1	8	340	0.4	0.3	
S089		D14		62684	0-1	8.5	80	0.7	0.3	
S089D		D14		62684	0-1	8.2	95	0.4	0.1	
S090		D15		62684	0-1	7.6	725	0.6	0.2	
S091		E15		62684	0-1	8.1	290	0.4	0.3	
S092		F15		62684	0-1	7.5	425	0.4	0.2	
S093		F16		62684	0-1	8.3	200	0.1	0	
S093D		F16		62684	0-1	8.3	210	0	0	
S094		E16		62684	0-1	7.5	825	0.1	0.1	
S095		D16		62684	0-1	0.9	55000	1	0.7	
S096		D17		62684	0-1	78	100	0	0	
S097		E17		62684	0-1	8	950	0	0	
S097D		E17		62684	0-1	8	1200	0	0	
S098		F17		62684	0-1	7.3	23	0.1	0	
S099		F18		62684	0-1	7.2	45	0.1	0.1	
S100		E18		62684	0-1	8.3	1300	0.6	0.4	
S101		D18		62684	0-1	6	300	0.2	0.1	
S101D		D18		62684	0-1	5.7	220	0.3	0.1	
S102		D19		62684	0-1	8	260	0	0	
S103		E19		62684	0-1	7.7	3000	3.2	1.5	
S104		F19		62684	0-1	8.5	65	0.2	0.1	
S104D		F19		62684	0-1	8	95	0.2	0	
S105		F20		62684	0-1	8.2	120	0.6	0.2	
S106		E20		62684	0-1	7.7	1850	1.4	0.4	
S107		D20		62684	0-1	8.8	38	0.5	0.4	
S108		D21		62684	0-1	8.4	38	0.3	0.2	
S109		E21		62684	0-1	8.2	60	0.2	0.2	
S109D		E21		62684	0-1	8.3	60	0.3	0	
S110		F21		62684	0-1	7.3	50	0	0	
S111		F22		62684	0-1	8.3	50	0.1	0	
S112		E22		62684	0-1	8	18	0	0	
S113		E23		62684	0-1	8.6	25	0.2	0.2	
S114		F23		62684	0-1	8.9	40	0.6	0.2	
S115		F24		62784	0-1	6.2	440	0.7	0.6	
S115D		F24		62784	0-1	6.8	45	0.5	0.3	
S116		E24		62784	0-1	8	70	0.5	0.5	
S117		E25		62784	0-1	7	75	0.5	0.4	
S118		F25		62784	0-1	2.2	4200	1	0.7	
S120		G8		61484	0-1					No On Site Chem Rp
S121		G9		61484	0-1	6.8	2200	0.6	0.6	
S122		G10		61484	0-1	3.6	2000	0.6	0.6	
S123		G11		61484	0-1	6.2	360	0.7	0.6	
S124		G12		61484	0-1	6.9	300	0.6	0.6	
S125		G13		62684	0-1	6.8	35	0	0	
S126		G14		62684	0-1	5	270	2	1	
S127		G15		62684	0-1	8.5	80	0	0	
S128		G16		62684	0-1	6.9	220	0.3	0.3	
S129		G17		62684	0-1	5	300	0.8	0.3	
S130		G18		62684	0-1	7.3	25	0.6	0.2	
S131		G19		62684	0-1	6.8	30	0	0	

PURSLDB AUG. 20,'85

Sample No.	Area	Site	Grid Location	Date	Depth ft	pH	Condt ug-mhos	VolPK ppmv	VolAV ppmv	Comments
Units -)										
Dct.Lmt.-)						.01	1			
S132		G20		62684	0-1	8	35	0	0	
S133		G21		62684	0-1	6.9	20	0.2	0.1	
S134		G22		62684	0-1	1.5	29000	4.5	2.5	
S135		G23		62684	0-1	6.8	19	0.2	0.1	
S136		G24		62784	0-1	8.7	35	4.9	1	
S137		G25		62784	0-1	3.6	500	5.5	3.5	
S138		C18		62684	0-1	83	45	0.4	0.2	
S139		C19		62684	0-1	8.7	23	0.3	0.1	
S140		C20		62684	0-1	8.8	50	0	0	
S141		E11		61484	0-1			0.7	0.6	
S142		D11		61484	0-1	7.2	950	0.6	0.6	
S143	XS	F26	WofRowFinRRtrck	62784	0-1	1.5	22000	5.7	5	On RR Tracks
S144	WP		SofWPatWendofst	62784	0-1	1.2	45000	0.7	0.2	S of WP at W end
S145		F24*	10'E OF F24	62784	0-1	0.9	70000	1.3	0.7	
S146		F17*	22'W, 22'S	62784	0-1	1.8	3900	4	3.5	
S146D		F17*	22'W, 22'S	62784	0-1	2.4	2100	2.1	2.1	
S147		D19*	20'E OF D19	62784	0-1	5.1	150	32	9	
S148		D16*	22'W OF D16	62784	0-1	1.1	60000	2.5	1.5	
S149		E10*	20'W OF E10	62784	0-1	2.5	3100	25	20	
S150		E11*	20'N, 15'W	62784	0-1	3.8	950	1.7	1.5	
S151	XS	C1*	47.5'E	62884	0-1	6.85	28	1.3	1	
S152	XS	E1*	47.5'E	62884	0-1	5.9	22	1.4	1	
S153	XS	NWPC*	225'N, 140'W	62884	0-1	7.1	21	0.6	0.6	Northwest Prop.Cor
S154	XS	NWPC*	325'N, 140'W	62884	0-1	7.7	22	0.6	0.6	Northwest Prop.Cor
S155	XS		100W-RR,150S-CA	62884	0-1	7.4	9	1.5	1	
S156	XS		100W-RR,250S-CA	62884	0-1	7.1	8	1	0.5	
S157	XS		18W-RR,11S-CA	62884	0-1	6.5	140	6.8	4.5	
S158	XS	SWPC*	50'N, 65'W	62884	0-1	7.3	50	1.8	1.8	
S159	XS	NWPC*	60'W	62884	0-1	7.4	75	3	2.5	
S160	XS	NWPC*	50'N, 63'W	62884	0-1	7.9	300	5	3	
S161	XS		12S-CA250E-SWPC	62884	0-1	6.1	14	1.7	1.6	
S162	XS		12S-CA600E-SWPC	62884	0-1	6.2	7	0.8	0.8	
S163	XS	NWPC*	27'N	62884	0-1	5.5	90	2.8	1.5	Northwest Prop.Cor
S164	XS	NWPC*	45'W, 30'N	62884	0-1	6.4	50	0.6	0.5	Northwest Prop.Cor
S165		H8		62884	0-1	8	45	0.4	0.4	
S166		H9		62884	0-1	6.1	60	1	0.8	
S167		H10		62884	0-1	7.7	25	1.6	1	
S168		H11		62884	0-1	7.4	22	4	2	
S169		H12		62884	0-1	6.9	27	4	3	
S170		~G12	250N,500W-SEPC	62884	0-1	1.2	40000	1.3	1.3	Opportunity sample
S170D		~G12	250N,500W-SEPC	62884	0-1	1.4	40000	1.7	1.2	
S171	XS	NWPC*	10'N	62884	0-1	0.7	)100000	4	1.5	
S171D	XS	NWPC*	10'N	62884	0-1	1	55000	8.6	6	
S172	XS	H6*	50'N	62884	0-1	5	160	17	16	
S173	XS	H7*	50'N	62884	0-1	4.5	17	6.5	4.5	
S174		AA4		62884	0-1	7.4	30	8	5.5	
S175		AA5		62884	0-1	7.4	20	14	4	
S176		AA6		62884	0-1	7.4	26	40	17	
S177		AA3		62884	0-1	7.4	45	22	20	
S301	CA	Cnal 1	W OF HWY 99	61584	0-1	5.8	5	1.5	1.5	
S301D	CA	Cnal 1	W OF HWY 99	61584	0-1	7.3	12	1.5	1.5	
S303	CA	Cnal 2	E OF99,WOFSITE	61584	0-1	5	18	3	1.5	
S305	CA	Cnal 3	W OF RR TRACKS	61584	0-1	6.1	95	0.2	0.1	
S307	CA	Cnal 4	~S OF E25	61584	0-1	6	40	0.2	0.1	
S307D	CA	Cnal 4	~S OF E25	61584	0-1			0.2	0.1	
S309	CA	Cnal 5	~S OF E23-24	61584	0-1	6	100	0.2	0.1	
S311	CA	Cnal 6	~S OF D22	61584	0-1	6.3	50	0.1	0	
S313	CA	Cnal 7	~S OF D20	61584	0-1	6.7	16	0	0	
S315	CA	Cnal 8	~S OF D18-19	61584	0-1	6	70	0.5	0	
S317	CA	Cnal 9	~S OF D16-17	61584	0-1	5.7	35	0	0	
S319	CA	Cnal10	~S OF D15	61584	0-1	5.5	45	0	0	
S321	CA	Cnal11	~S OF D13	61684	0-1	6.6	5.5	0	0	
S323	CA	Cnal12	~S OF D11	61684	0-1	5.9	40	0.2	0	
S325	CA	Cnal13	~S OF D9	61684	0-1	6.6	22	0	0	
S327	CA	Cnal14	~W OF B6	61684	0-1	6.2	24	0	0	
S329	CA	Cnal15	~W OF A6	61684	0-1	6.3	60	0	0	

PURSLDB AUG. 20,'85

Sample No.	Area	Site	Grid Location	Date	Depth ft	pH	Condt ug-mhos	VolPK ppmv	VolAV ppmv	Comments
Units -)										
Dct.Lmt.-)						.01	1			
S331	CA	Cnal16		61684	0-1	6	24	0	0	
S333	CA	Cnal17	W SIDE MAPLE AV	61684	0-1	5.9	23	0	0	
S335	FY	Core 1	E3	61984	2.5-4.5	5.9	425	10	3.5	
S336	FY	Core 1	E3	61984	5-6.5	3.6	1100	15	5.5	
S337	FY	Core 1	E3	61984	7.5-9	4	500	0.3	0.05	
S338	FY	Core 1	E3	61984	10-11.5	3.8	950	1	0.2	
S339	FY	Core 1	E3	61984	12.5-14	5.8	450	0.7	0.1	
S341	FY	Core 1	E3	61984	15-16.5	7.8	425	1	0	
S342	FY	Core 1	E3	61984	20-21.5	8.4	190	0.3	0	
S343	FY	Core 1	E3	61984	25-26.5	8	125	0.3	0	
S344	FY	Core 1	E3	61984	30-31.5	7.9	190	0.1	0	
S345	FY	Core 1	E3	61984	35-36.5	8.2	500	0.3	0	
S346	FY	Core 1	E3	61984	40-41.5	8.2	350	0.5	0.2	
S347	FY	Core 1	E3	61984	45-46.5	7.4	450	0	0	
S349		G3		62084						No On Site Chem Rp
S350		Pit 1		62084						No On Site Chem Rp
S351	WP	Core 2	D10	62184	2.5-4	6.2	4000	2.4	1.2	80ppm SO2PK-cttngs
S352	WP	Core 2	D10	62184	5-6.5	4	5250	10	2	5ppm SO2PK
S353	WP	Core 2	D10	62184	7.5-9	8.1	210	27.5	13	3PPM SO2SS
S354	WP	Core 2	D10	62184	10-11.5	8.3	200	35	30	4PPM SO2SS
S355	WP	Core 2	D10	62184	12.5-14	8.3	100	85	20	
S356	WP	Core 2	D10	62184	15-16.5	8.3	400	34	10	
S357	WP	Core 2	D10	62184	17.5-18.3	8.4	350	10	6	
S358	WP	Core 2	D10	62184	20-21.5	8.6	300	7.9	4.5	
S359	WP	Core 2	D10	62184	22.5-24	8.6	350	1.2	0.6	
S360	WP	Core 2	D10	62184	25-26.5	9.2	220	2.4	1.2	
S361	WP	Core 2	D10	62184	30-31.5	8.7	225	12.9	5	
S362	WP	Core 2	D10	62184	35-36.5	8.4	90	1.8	0.5	
S363	WP	Core 2	D10	62184	40-41.5	8.1	290	0.9	0.5	
S365	WP	Core 2	D10	62284	45-46.5	8.1	150	5.8	4	
S366	WP	Core 2	D10	62284	50-51.5	8.1	390	65	15	GRDWTR 1PPM SO2SS
S367	WP	Core 2	D10	62284	55-56.5	8.2	150	10	4	
S369	WP	Core 3	E17	62384	2.5-3	7.2	2500	2.5	1.2	CONCRETE AT 5FT
S370	WP	Core 3	E17	62384	6-7.5	1.4	24000	2.5	1.2	SOSS1.5THCPK13SS10
S371	WP	Core 3	E17	62384	7.5-9	3.1	7000	14.7	4	SO2SS1;THCSS20
S372	WP	Core 3	E17	62384	10-11.5	3.3	3500	6	5	
S374	WP	Core 3	E17	62384	12.5-15	6.1	1650	1	0.8	
S375	WP	Core 3	E17	62384	15-16.5	7.3	2000	0.6	0.3	
S376	WP	Core 3	E17	62384	17.5-19	7.4	900	0.5	0.2	
S377	WP	Core 3	E17	62384	20-21.5	8.4	410	0.2	0	
S378	WP	Core 3	E17	62384	25-26.5	8.6	375	0.3	0	
S379	WP	Core 3	E17	62384	30-31.5	8.3	700	0.3	0	
S380	WP	Core 3	E17	62384	35-36.5	8.3	258	0	0	
S381	WP	Core 3	E17	62384	40-41.5	8	250	0	0	
S382	WP	Core 3	E17	62384	45-46.5	8	750	0.4	0	
S383	WP	Core 3	E17	62384	50-51.5	7.7	650	0	0	
S384	WP	Core 3	E17	62384	55-56	8.4	250	0	0	
S386	WP	Core 4	F20	62584	5-6.5	10	2250	0.02	0	SO2=0
S387	WP	Core 4	F20	62584	7.5-9	3.1	2500	20	15	
S388	WP	Core 4	F20	62584	10-11.5	6.2	2100	0	0	
S389	WP	Core 4	F20	62584	12.5-14	8.3	900	0	0	
S391	WP	Core 4	F20	62584	15-16.5	8.4	850	0.04	0	SO2=0
S392	WP	Core 4	F20	62584	17.5-19	8.2	700	0.5	0.1	SO2=0
S393	WP	Core 4	F20	62584	20-21.5	8.2	575	0	0	
S394	WP	Core 4	F20	62584	25-26.5	8.4	140	0	0	BKGRD=7.6
S395	WP	Core 4	F20	62684	30-31.5	8.4	250	3.3	1.5	
S396	WP	Core 4	F20	62684	35-36.5	8	135			
S397	WP	Core 4	F20	62684	40-41.5	8.1	210	40	5	
S398	WP	Core 4	F20	62684	45-46.5	8.1	300	140	45	
S399	WP	Core 4	F20	62684	50-51.5	7.6	950	2	0.5	
S401	WP	Core 5	E13	62784	2.5-4	7.8	500	6	3.5	
S402	WP	Core 5	E13	62784	5-6.5	1.6	15000	2	1	SO2PK=50,SS=30
S403	WP	Core 5	E13	62784	7.5-9	1.4	25000	11	7.5	SO2PK=80,SS=40
S415	WP	Core 5	E13	62984	10-11.5	5.7	130	16	10	
S416	WP	Core 5	E13	62984	12.5-14	2.3	9000	14	6	
S417	WP	Core 5	E13	62984	15-16.5	5.6	425	17	6	

PURSLDB AUG. 20,'85

Sample No.	Area	Site	Grid Location	Date	Depth ft	pH	Condt ug-mhos	VolPK ppmv	VolAV ppmv	Comments
Units -)										
Dct.Lmt.-)						.01	1			
S418	WP	Core 5	E13	62984	17.5-19	6.2	70	1	0	
S419	WP	Core 5	E13	62984	20-21.5	5.8	150	22	1.5	
S420	WP	Core 5	E13	62984	22.5-24	6.6	55	50	20	
S421	WP	Core 5	E13	62984	25-26.5	5.7	110		0	
S422	WP	Core 5	E13	62984	30-31.5	6.9	0.3		0.1	
S423	WP	Core 5	E13	62984	35-36.5	7.4	35	0.5	0.4	
S424	WP	Core 5	E13	62984	40-41.5	8.2	125		0	
S425	WP	Core 5	E13	62984	45-46.5	7.9	23	0.3	0.2	
S426	WP	Core 5	E13	62984	50-51.5	8	225			
S428	SU	Core 6	11.5FTN14FTW E6	70284	2.5-4	8.4	450	5.5	5	SO2=0
S430	SU	Core 6	11.5FTN14FTW E6	70284	5-6.5	8.2	80	2	0.8	
S431	SU	Core 6	11.5FTN14FTW E6	70284	7.5-9	8.4	450	2	1	OVA=BKGRD
S432	SU	Core 6	11.5FTN14FTW E6	70284	10-11.5	8.7	400	7.3	4.5	
S433	SU	Core 6	11.5FTN14FTW E6	70284	12.5-14	8.7	950	0.8	0.5	
S434	SU	Core 6	11.5FTN14FTW E6	70284	17-17.5	8.9	60	0.2	0.2	
S435	SU	Core 6	11.5FTN14FTW E6	70284	20-21	8.7	60	0	0	OVA=10PPM+BKGRD
S436	SU	Core 6	11.5FTN14FTW E6	70284	22.5-24	8.1	150	0.3	0.2	
S437	SU	Core 6	11.5FTN14FTW E6	70284	25-26.5	8.7	300	1	0.3	
S438	SU	Core 6	11.5FTN14FTW E6	70284	30-31.5	8.8	35	1	0.8	
S439	SU	Core 6	11.5FTN14FTW E6	70384	35*	8.4	900		0	
S440	SU	Core 6	11.5FTN14FTW E6	70384	40*	8.9	0.8		0	
S441	SU	Core 6	11.5FTN14FTW E6	70384	45*	7.9	1100	0.1	0	
S443	SU	Core 7	D6	70384	2.5-4	6.9	20	3	2.5	
S444	SU	Core 7	D6	70384	5-6.5	8.4	225		0	
S445	SU	Core 7	D6	70384	7.5-9	9.1	600		0.1	
S446	SU	Core 7	D6	70384	10-11.5	9.4	65	0.2	0.1	
S447	SU	Core 7	D6	70384	15-16	9.1	300		0.1	
S448	SU	Core 8	12.5'W11.5'N E5	70384	2.5-4	7.7	450			
S449	SU	Core 8	12.5'W11.5'N E5	70384	5-6.5	8.1	190	3.4	2.5	
S450	SU	Core 8	12.5'W11.5'N E5	70384	7.5-9	8.9	200	5.2	4.5	
S451	SU	Core 8	12.5'W11.5'N E5	70384	10-11.5	8.4	400	9.7	8.9	
S452	SU	Core 8	12.5'W11.5'N E5	70484	17.5-19	9.1	750		1.2	AID=1.0,INTERS=0.0
S453	SU	Core 9	2.5'W,2.5'N C4	70484	2.5-4	5.6	350	4.4	4.3	OVA=9-12PPM
S454	SU	Core 9	2.5'W,2.5'N C4	70484	5-6.5	8.2	200	4.6	4.4	
S455	SU	Core 9	2.5'W,2.5'N C4	70484	7.5-9	7.7	700	1	0.9	
S456	SU	Core 9	2.5'W,2.5'N C4	70484	10-11.5	8	225		0.2	
S457	SU	Core 9	2.5'W,2.5'N C4	70484	15-16.5	8.2	175		0.2	
S458	SU	Core10	1'E,2'N B6	70584	2.5-4	3.5	400	9.8	8	
S459	SU	Core10	1'E,2'N B6	70584	5-6.5	4.1	2000	5.1	4.8	
S460	SU	Core10	1'E,2'N B6	70584	7.5-9	4.6	750	4.1	2.4	
S461	SU	Core10	1'E,2'N B6	70584	10-11.5	4.7	1250	1.6	1.4	
S462	SU	Core10	1'E,2'N B6	70584	15-16.5	6.9	550	0.8	0.8	
S463	SU	Core11	44'W,32'N C6	70584	2.5-4	6.6	1050	9.1	8	
S464	SU	Core11	44'W,32'N C6	70584	5-6.5	7.8	300	11	9.5	
S465	SU	Core11	44'W,32'N C6	70584	7.5-9	7.5	340	10.2	8	
S466	SU	Core11	44'W,32'N C6	70584	10-11.5	6.9	100	9.1	8	
S467	SU	Core11	44'W,32'N C6	70584	15-16.5	7.6	80	16.6	10	
S468	SU	Core12	6'E,16'S H7	70584	2.5-4	3.15	3000	7.9	6.2	
S469	SU	Core12	6'E,16'S H7	70584	5-6.5	4	3000	12	9	
S470	SU	Core12	6'E,16'S H7	70584	7.5-9	5.6	2250	28	24	
S471	SU	Core12	6'E,16'S H7	70584	10-11.5	6.1	1400	50	40	
S472	SU	Core12	6'E,16'S H7	70584	15-15.7	5.5	1150	23	18	
S473	SU	Core12	6'E,16'S H7	70584	20-21.5	7.3	500	20.2	15	
S474	SU	Core13	F8	70684	2.5-4	3.9	3000	20.6	15	7FT S OF TEST TRCH
S475	SU	Core13	F8	70684	5-6.5	1.4	20000	12.8	9	
S476	SU	Core13	F8	70684	7.5-9	1.7	12000	66	40	
S477	SU	Core13	F8	70684	10-11.4	4.4	3000	21	13	
S478	SU	Core13	F8	70684	15-16.5	8.3	350	39	25	
S479	SU	Core13	F8	70684	20-20.7	8.9	500	24	13	
S480	SU	Core13	F8	70684	20.7-21.5	9	860	25	18	
S481	PD	Core14	E8*,4.5'S	70684	2.5-2.8	7.1	240	2.5	2	
S482	PD	Core14	E8*,4.5'S	70684	5-6.5	1.8	11000	7	5.5	
S483	PD	Core14	E8*,4.5'S	70684	7.5-9	2.6	4500	13.6	8	
S484	PD	Core14	E8*,4.5'S	70684	10-11.5	5.1	2500	17.5	13	
S485	PD	Core14	E8*,4.5'S	70684	12.5-14	8.2	1500	26	18	
S486	PD	Core14	E8*,4.5'S	70684	15-16.5	7	850	20	16	

PURSLDB AUG. 20,'85

Sample No.	Area	Site	Grid Location	Date	Depth ft	pH	Condt ug-mhos	VolPK ppmv	VolAV ppmv	Comments
Units ->										
Dct.Lmt.->						.01	1			
S487	PD	Core14	E8*,4.5'S	70684	17.5-19	5.7	750	5.9	4	
S488	PD	Core14	E8*,4.5'S	70684	20-21.5	7	550	38	23	
S489	PD	Core15	F15	70784	2.5-4	7.4	500	0.8	0.4	
S490	PD	Core15	F15	70784	5-6.5	3.8	300	1.4	0.8	
S491	PD	Core15	F15	70784	7.5-9	6.3	250	0.3	0.2	
S492	PD	Core15	F15	70784	10-11.5	2.2	350	14.3	10.5	
S493	PD	Core15	F15	70784	12.5-4	3.4	125	8.6	5	NOT 12.5-13 FT
S494	PD	Core15	F15	70784	15-16.5	3.7	90	4.5	3.5	
S495	PD	Core15	F15	70784	17.5-19	5.8	50	4.1	2.7	
S496	PD	Core15	F15	70784	20-21.5	7.7	80	0.9	0.7	
S497	PD	Core16	D15	70784	3-4.5	2.5	200	0.3	0.3	
S498	PD	Core16	D15	70784	5-6.3	1.9	700	5.3	3.1	
S499	PD	Core16	D15	70784	7.5-9	4	150	28	16	
S500	PD	Core16	D15	70784	10-11.5	5.6	75	21	15	
S501	PD	Core16	D15	70784	12.5-14	5.7	100	5.3	4.4	
S502	PD	Core16	D15	70784	15-16.5	5.3	60	39	20	
S503	PD	Core16	D15	70784	17.5-19	5.5	50	17	11	
S504	PD	Core16	D15	70784	20-21.5	5.8	35	13.2	10	
S505	PD	Core17	D20	70984	7.5-9	3.3	140	6.7	4	
S506	PD	Core17	D20	70984	10-11.5	3.4	75	3.1	2.3	
S507	PD	Core17	D20	70984	12.5-14	3.4	140	1	0.7	
S508	PD	Core17	D20	70984	15-16.5	4.4	90	0.6	0.5	
S508D	PD	Core17	D20	70984	15-16.5	4.4	125	0.5	0.5	
S509	PD	Core17	D20	70984	17.5-18.8	4.8	40	0.6	0.5	
S509D	PD	Core17	D20	70984	17.5-18.8	4.6	49	0.5	0.4	
S510	PD	Core17	D20	70984	20-21.5	6.3	27	0.5	0.4	
S510D	PD	Core17	D20	70984	20-21.5	7.7	75	0.5	0.4	
S511	PD	Core18	10'N of F24	71084	2.5-4	1.8	2200	8.4	7	
S511D	PD	Core18	10'N of F24	71084	2.5-4	1.5	1500	9	7.5	
S512	PD	Core18	10'N of F24	71084	5-6.5	1.2	40000	7.2	6	
S512D	PD	Core18	10'N of F24	71084	5-6.5	1.1	9000	7.2	6	
S513	PD	Core18	10'N of F24	71084	7.5-9	3.2	1500	2.9	1.8	NOT 7.5-8 FT
S513D	PD	Core18	10'N of F24	71084	7.5-9	3.3	900	8	5.5	
S514	PD	Core18	10'N of F24	71084	10-11.5	4.2	700	6.4	4.5	
S514D	PD	Core18	10'N of F24	71084	10-11.5	4.3	800	10.1	7	
S515	PD	Core18	10'N of F24	71084	12.5-14	3.7	700	1.2	1	
S515D	PD	Core18	10'N of F24	71084	12.5-14	4	450	1.1	0.9	
S516	PD	Core18	10'N of F24	71084	15-16.5	4.4	700	0.6	0.5	
S516D	PD	Core18	10'N of F24	71084	15-16.5	4.4	700	0.6	0.5	
S517	PD	Core18	10'N of F24	71084	17.5-19	3.8	750	0.5	0.5	
S517D	PD	Core18	10'N of F24	71084	17.5-19	3.8	800	0.5	0.4	
S518	PD	Core18	10'N of F24	71084	20-21.4	4.1	700	0.7	0.6	
S518D	PD	Core18	10'N of F24	71084	20-21.4	4.3	775	1.1	0.9	
S519	PD	Core19	F22	71084	2.5-4	7.1	1700	4	3	
S520	PD	Core19	F22	71084	5-6.5	0.7	9000	12	9-10	
S520D	PD	Core19	F22	71084	5-6.5	0.7	5600	17	12	
S521	PD	Core19	F22	71084	7.5-9	3.1	560	6	4	
S521D	PD	Core19	F22	71084	7.5-9	2.9	550	10	6.5	
S522	PD	Core19	F22	71084	10-11.5	6.7	600	0.9	0.8	Background=0.8
S522D	PD	Core19	F22	71084	10-11.5	6.7	650	1.7	1.2	
S523	PD	Core19	F22	71084	12.5-14	7.7	460	1	0.8	
S523D	PD	Core19	F22	71084	12.5-14		450	0.9	0.8	
S524	PD	Core19	F22	71084	15-16.5	7.7	900	0.9	0.8	Background=0.6
S524D	PD	Core19	F22	71084	15-16.5	7.9	750	0.8	0.7	
S525	PD	Core19	F22	71084	17.5-19	7.7	550	0.8	0.8	
S525D	PD	Core19	F22	71084	17.5-19	7.7	560	0.9	0.8	
S526	PD	Core19	F22	71084	20-20.8	7.8	450	0.9	0.9	1/3 of quart jar
S528	SU	Core20	24'N&13'EofF4	71284	2.5-4	9	850	13.2	10	
S528D	SU	Core20	24'N&13'EofF4	71284	2.4-4	9	700	32	20	
S529	SU	Core20	24'N&13'EofF4	71284	5-6.5	9.1	100	28	17	
S529D	SU	Core20	24'N&13'EofF4	71284	5-6.5	9	140	17	11	
S530	SU	Core20	24'N&13'EofF4	71284	7.5-9	4.5	50	34	25	
S530D	SU	Core20	24'N&13'EofF4	71284	7.5-9	4.6	50	30	15	
S531	SU	Core20	24'N&13'EofF4	71284	10-11.5	4.1	65	31.3	25	
S531D	SU	Core20	24'N&13'EofF4	71284	10-11.5	4	65	27	20	
S532	SU	Core20	24'N&13'EofF4	71284	15-16.5	8.8	75	4.1	3.4	

PURSLDB AUG. 20,'85

Sample No.	Area	Site	Grid Location	Date	Depth ft	pH	Condt ug-mhos	VolPK ppmv	VolAV ppmv	Comments
Units -)										
Dct.Lmt.-)						.01	1			
S532D	SU	Core20	24'N&13'EofF4	71284	15-16.5	8.8	125	2.6	2.3	
S533	SU	Core20	24'N&13'EofF4	71284	20-21.5	4.8	240	1.6	1.4	Background=0.9
S533D	SU	Core20	24'N&13'EofF4	71284	20-21.5	4.9	240	1.6	1.4	
S534	SU	Core20	24'N&13'EofF4	71284	25-26.5	4.2	310	2.9	2.5	
S534D	SU	Core20	24'N&13'EofF4	71284	25-26.5	4	300	2.2	2	
S535	SU	Core20	24'N&13'EofF4	71284	30-31.5	4.6	350	1.9	1.4	
S535D	SU	Core20	24'N&13'EofF4	71284	30-31.5	4.4	500	1.3	1.3	
S536	SU	Core20	24'N&13'EofF4	71284	35-36.5	4.1	500	1.4	1.2	
S536D	SU	Core20	24'N&13'EofF4	71284	35-36.5	4.1	450	2.7	2	
S537	SU	Core20	24'N&13'EofF4	71284	40-41.5	3.8	1000	11.9	7	
S537D	SU	Core20	24'N&13'EofF4	71284	40-41.5	3.9	850	10.4	8	
S538	SU	Core20	24'N&13'EofF4	71284	45-46.5	3.6	1300	14	11	
S538D	SU	Core20	24'N&13'EofF4	71284	45-46.5	3.8	950	9.3	5	
S541	XS	H13		71384	0-1	5.7	175	0.1	0	Surface Soil
S542	XS	H14		71384	0-1	6.4	60	0.4	0.3	
S543	XS	H15		71384	0-1	7.1	70	0.3	0.2	
S544	XS	H16		71384	0-1	6.4	55	0.6	0.3	
S545	XS	H17		71384	0-1	6.7	55	0.3	0.3	
S546	XS	H18		71384	0-1	5.9	900	0.7	0.5	
S547	XS	H19		71384	0-1	5.1	80	0.6	0.5	
S548	XS	H20		71384	0-1	6.2	100	1.2	1	
S549	XS	H21		71384	0-1	6.1	100	0.1	0.1	Surface Soil
S550	XS	H22		71384	0-1	6.1	150	0.4	0.4	
S551	XS	H23		71384	0-1	5.7	150	0.3	0.2	
S551D	XS	H23		71384	0-1	5.1	350	0.4	0.2	
S552		H24		71384		7.4	80	0	0	
S553		H25		71384		8.9	210	0	0	
S553D		H25		71384		8.8	210	0.1	0	
S554		H26		71384		7.8	55	0.2	0.1	
S555		H24*	20'W of24H	71384		5.1	55	0.4	0.2	
S556		G25*	8'N,15'E G25	71384		1.9	2800	0.7	0.4	
S558	SU	Core 21	17'S,15'WofF12	71884	5-6.5	4.5	2000	1.2	1	
S559	SU	Core 21	17'S,15'WofF12	71884	7.5-9	1.2	525	26	18	
S559D	SU	Core 21	17'S,15'WofF12	71884	7.5-9	1.1	300	12	6.5	
S560	SU	Core 21	17'S,15'WofF12	71884	10-11.5	4.9	140	31	11	
S561	SU	Core 21	17'S,15'WofF12	71884	12.5-14	5.5	70	24	5	
S562	SU	Core 21	17'S,15'WofF12	71984	15-16.5	5.8	110	11.8	8.5	
S563	SU	Core 21	17'S,15'WofF12	71984	20-21.5	6.6	45	5.1	3	
S564	SU	Core 21	17'S,15'WofF12	71984	25-26.5	6.6	32	9.2	7	
S565	SU	Core 21	17'S,15'WofF12	71984	30-31.5	6.2	26	0.5	0.3	
S566	PD	Core 22	~5'SE of F11	71984	2.5-4	8.3	350	2.8	2	
S567	PD	Core 22	~5'SE of F11	71984	5-6.3	2.5	460	7.7	5	
S568	PD	Core 22	~5'SE of F11	72084	7.5-9	6.8	425	26	24	
S569	PD	Core 22	~5'SE of F11	72084	10-11.5	8.3	75	46	31	
S569D	PD	Core 22	~5'SE of F11	72084	10-11.5	8.3	80	48	32	
S570	PD	Core 22	~5'SE of F11	72084	12.5-14	8.2	100	9.1	7	
S571	PD	Core 22	~5'SE of F11	72084	15-16.5	7.4	125	17.9	13	
S572	PD	Core 22	~5'SE of F11	72084	20-21.5	6.5	55	19.3	16	
S573	PD	Core 22	~5'SE of F11	72084	25-26.5	8.1	75	9.7	6	
S574	PD	Core 22	~5'SE of F11	72084	30-31.5	8	30	19.5	8	
S575	SU	Core 23	24'W,5.5'N F7	72084	2.5-4	8.1	200	6.4	5	
S576	SU	Core 23	24'W,5.5'N F7	72084	5-6.2	1.6	225	49	35	
S577	SU	Core 23	24'W,5.5'N F7	72084	7.5-9	4.2	110	20	12	
S578	SU	Core 23	24'W,5.5'N F7	72084	10-11.5	2.3	110	10	5	
S579	SU	Core 23	24'W,5.5'N F7	72084	12.5-14	4.5	120	26	12	
S579D	SU	Core 23	24'W,5.5'N F7	72084	12.5-14	4.2	120	15	10	
S580	SU	Core 23	24'W,5.5'N F7	72084	15-16.5	8.9	110	13	7	
S581	SU	Core 23	24'W,5.5'N F7	72084	20-21.5	8.1	100	21	9	
S582	SU	Core 23	24'W,5.5'N F7	72084	25-26.5	8.9	120	2	1.7	
S583	SU	Core 23	24'W,5.5'N F7	72084	30-31.5	9	100	2.3	2	

PURSL

Sample No.	QNG_A	PB_GA	PHEN	%O	%C	%H	%N	%S	%ASH	BTU/ LB	%VOL MATR	%FIX CARB	%DRY- LOSS	SO4_IC
Units -)	ug/g	ug/g	ug/g	calc.by										ug/g
Dct.Lmt.-)	*efft.	detect.	limit*	difference	* 0.1%	-- of	--	absolute	*	100	.5%	~1%	0.1%	* effec
S006														
S007														
S012														
S016														
S017														
S018														
S019														
S020														
S021	54000	1700	-0.05	9.54	12.17	2.19	0.21	0.31	75.58	2381	15.99	-0.01	8.67	
S022														
S023														
S024														
S024D														
S025														
S026														
S027														
S028														
S029														
S030														
S031														
S032	76000	480	0.11	3.21	6.61	0.95	0.03	0.23	88.97	1278	8.31	0.02	2.7	
S033	28000	570	0.85	0.66	5.66	0.91	0.03	0.43	92.31	920	7.24	-0.01	0.85	
S034														
S035														
S036														
S037														
S038														
S039														
S039D														
S040														
S041														
S042														
S043	45000	660	3.9	6.6	5.62	0.94	0.05	0.2	86.59	1305	7.79	1.57	4.05	
S043D	57000	540	0.41	4.23	4.58	0.95	0.06	0.34	89.84	1067	7.06	-0.01	3.69	
S044														
S045														
S046	130000	330	0.99	23.91	18.88	4.57	0.06	0.22	52.36	4610	24.92	2.76	19.96	
S047	110000	1500	11	10.81	8.96	2.09	0.05	0.49	77.6	1970	12.96	1.21	8.23	
S048														
S049														
S050	36000	870	0.58	6.29	3.71	0.96	0.19	0.21	88.64	853	5.42	0.46	5.48	
S051														
S052	67000	1800	0.32	25.51	16.33	4.7	0.07	0.48	52.91	3230	16.85	2.39	27.85	
S053														
S053D														
S054														
S055														
S056														
S057														
S058														
S059	39000	1850	-0.05	1.09	3.84	0.85	0.1	-0.1	94.12	638	5.25	0.04	0.59	
S060														
S061														
S061D														
S062														
S063	32000	670	0.18	3.87	3.48	0.94	0.11	0.33	91.27	469	3.84	0.37	4.53	
S064	64000	610	0.21*	4.32	5.51	1.25	0.05	0.53	88.34	1050	5.7	0.53	5.37	
S065	32000	970	0.21	7.73	4.55	1.14	0.06	0.39	86.13	995	6.58	-0.01	6.06	
S066														
S067														
S068	55000	4600	2.0*	11.18	10.58	2.27	0.15	0.64	75.18	2390	8.9	2.53	13.39	
S069	480000	8300	1.3	35.24	39.02	6.45	0.36	2.14	16.79	11259	56.03	10.32	16.86	
S070	290000	21000	2.2	21.16	40.58	6.95	0.29	2.67	28.35	8351	38.51	16.1	17.04	
S071	4000	210	-0.05	4.58	0.43	0.73	0.05	0.98	93.23	-100	1.29	0.35	5.13	
S072														
S073														

PURSL

Sample No.	ONG_A	PB_GA	PHEN	%O	%C	%H	%N	%S	%ASH	BTU/ LB	%VOL MATR	%FIX CARB	%DRY- LOSS	SO4_IC
Units -)	ug/g	ug/g	ug/g	calc.by										ug/g
Dct.Lmt.-)	*efft.	detect.	limit*	difference	* 0.1%	-- of	--	absolute	*	100	.5%	~1%	0.1%	* effec
S074														
S075														
S076														
S077														
S078														
S079														
S079D														
S080														
S081														
S082	26	85	-0.05	1.27	2.01	0.31	0.07	0.49	95.85	179	3.97	-0.01	0.49	
S082D	6900	200	-0.05	1.82	1.59	0.34	0.05	-0.1	96.2	125	3.11	0.03	0.66	
S083														
S084														
S085														
S086														
S087														
S088														
S089														
S089D														
S090														
S091														
S092														
S093														
S093D														
S094	8300	180	-0.05	2.68	2.29	0.32	0.09	0.3	94.32	240	4.91	-0.01	1.18	
S095														
S096														
S097														
S097D														
S098														
S099														
S100														
S101														
S101D														
S102														
S103														
S104														
S104D														
S105														
S106														
S107														
S108														
S109														
S109D														
S110														
S111														
S112														
S113	11000	350	-0.05	1.81	2.83	0.45	0.08	-0.1	94.83	354	4.69	-0.01	0.68	
S114														
S115														
S115D														
S116														
S117														
S118	110000	6200	0.25	2.83	10.27	1.51	0.14	0.78	84.47	1875	13.27	1.03	1.23	
S120	t													
S121														
S122														
S123														
S124														
S125														
S126	25000	4400	0.21	2.96	7.77	1.25	0.09	0.94	86.99	1328	9.42	-0.01	4.01	
S127														
S128														
S129														
S130														
S131														

PURSL

Sample No.	DNG_A	PB_GA	PHEN	%O	%C	%H	%N	%S	%ASH	BTU/ LB	%VOL MATR	%FIX CARB	%DRY- LOSS	SO4_IC
Units -)	ug/g	ug/g	ug/g	calc.by										ug/g
Dct.Lmt.-)	*efft.detect.limit*			difference * 0.1% -- of -- absolute *						100	.5%	~1%	0.1%	* effec
S132														
S133														
S134	290000*	4000	2.2	26.24	44.34	7.77	0.33	7.23	14.09	10255	70.73	10.14	5.04	
S135														
S136														
S137	150000	6600	2.0*	8.61	23.75	3.92	0.11	1.54	62.07	3906	27.03	1.36	9.54	
S138														
S139														
S140														
S141														
S142														
S143	520000	5800	6.8	37.47	37.25	8.84	0.25	4.88	11.31	9297	66.33	6.54	15.82	
S144	520000	4500	12	35.82	39.46	8.55	0.23	7.36	8.58	9364	67.86	7.94	15.62	
S145	210000	9400	3.3	31.95	40.67	7.89	0.31	6.24	12.94	9393	67.13	10.73	9.2	
S146	330000	1450	2.5	28.13	44.19	7.7	0.34	8.34	11.3	9692	73.06	12.36	3.29	
S146D	230000	4500	3.2*	28.05	44.32	7.94	0.27	8.2	11.22	9125	70.16	9.84	8.78	
S147	320000	810	0.38	19.33	20.41	4.6	0.06	0.78	54.82	4703	29.6	-0.01	15.83	
S148	290000	6060	1.1	25.63	44.76	7.67	0.37	8.61	12.96	9180	74.05	8.66	4.33	
S149	190000	4400	0.67	18.98	21.17	4.7	0.08	2.04	53.03	4842	36.14	-0.01	11.66	
S150	540000	900	0.93	14.83	49.81	7.94	0.03	1.5	25.89	10540	51.12	18.5	4.49	
S151	130	145	-0.05	3.92	1.03	0.15	0.1	-0.1	94.8	-100	1.7	0.26	3.24	
S152														
S153	4500	24	0.28	1.53	0.37	0.11	0.06	-0.1	97.93	-100	1.68	-0.01	0.67	
S154	n													
S155	4100	25	0.34	1.33	0.34	0.16	0.06	-0.1	98.11	-100	1.68	-0.01	0.53	
S156														
S157														
S158														
S159														
S160														
S161	6400	160	-0.05	5.66	1.26	0.64	0.13	-0.1	92.31	-100	4.09	0.46	3.14	
S162	4100	250	-0.05	3.36	1.69	0.62	0.1	-0.1	94.23	113	3.63	-0.01	2.06	
S163	n													
S164	n													
S165														
S166														
S167														
S168														
S169														
S170	220000	5700	0.08	29.66	35.34	6.42	0.28	4.95	23.35	7698	58.31	4	14.34	
S170D														
S171	400000	2700	14	25.47	48.14	8.29	0.3	5.63	12.17	9853	63.2	7.09	12.54	
S171D	320000	1960	-0.05*	20.96	48.5	8.3	0.28	6.61	15.35	9642	66.24	6.46	11.55	
S172														
S173														
S174														
S175														
S176														
S177														
S301	3100		-0.05											15
S301D	5518		0.15											20
S303	2200		-0.05											-10
S305	1391		-0.05											-10
S307	1800		-0.05											-10
S307D	3000		-0.05											-10
S309	1900		-0.05											23
S311	2100		-0.05											-10
S313	1400		-0.05											-10
S315														
S317	2300		-0.05											22
S319	4300		-0.05											-10
S321	3600		-0.05											-10
S323	5400		-0.05											-10
S325														
S327	2400		-0.05											-10
S329	2600		-0.05											-10

PURSL

Sample No.	ONG_A	PB_GA	PHEN	%O	%C	%H	%N	%S	%ASH	BTU/ LB	%VOL MATR	%FIX CARB	%DRY- LOSS	SO4_IC
Units -)	ug/g	ug/g	ug/g	calc.by										ug/g
Dct.Lmt.-)	*efft.	detect.	limit*	difference	* 0.1%	-- of	—	absolute	*	100	.5%	~1%	0.1%	* effec
S331	1600		-0.05											-10
S333	338		0.32											-10
S335	34000	5.2	-0.05	3.7	2.78	0.73	0.05	-0.1	92.74	500	3.25	0.18	3.83	
S336	27000	8.4	-0.05	3.64	1.84	0.49	0.02	0.1	93.91	339	2.08	0.29	3.72	
S337														
S338	920	14	-0.05	19.51	0.05	2.38	0.05	0.21	77.8	-100	1.5	-0.01	20.77	
S339														
S341	3500	12	-0.05	7.41	0.32	0.65	0.03	-0.1	91.59	-100	1.27	0.4	6.74	
S342	3200	3.2	-0.05	0.59	0.03	0.13	0.02	-0.1	99.23	-100	0.04	0.19	0.54	
S343	24000	5.3	-0.05	1.5	0.07	0.22	0.01	-0.1	98.2	-100	-0.01	-0.01	2.01	
S344	1100	3	-0.05	2.77	0.05	0.2	0.03	-0.1	96.95	-100	0.11	0.15	2.79	
S345	1900	4.6	-0.05	13.95	0.07	1.47	0.02	-0.1	84.49	-100	-0.01	-0.01	16.07	
S346	3600	7.1	-0.05	4.45	0.1	0.45	0.03	-0.1	94.97	-100	-0.01	0.41	4.62	
S347	9300	7.1	-0.05	11.66	0.63	1.06	0.02	-0.1	86.63	-100	0.99	-0.01	12.4	
S349	t													
S350	t													
S351														
S352	180000	330	0.67	16.7	15.93	3.17	0.1	1.31	62.79	3720	20.61	4.83	11.76	
S353														
S354	67000	82	4.5	4.44	6.04	1.35	0.02	0.11	88.04	1132	5.01	1.76	5.19	
S355														
S356	19000	56	4.1	19.91	1.48	2.36	0.01	-0.1	76.24	-100	2.61	-0.01	21.52	
S357														
S358														
S359														
S360	930	33	-0.05	3.56	0.1	0.37	-0.01	-0.1	95.97	-100	-0.01	0.3	3.73	
S361														
S362	3600	9.2	0.14	2.85	0.09	0.21	-0.01	-0.1	96.85	-100	-0.01	0.16	2.99	
S363														
S365	1000	7.2	-0.05	8.25	0.3	0.9	0.01	-0.1	90.54	-100	0.3	-0.01	9.63	
S366														
S367														
S369														
S370														
S371	26500	250	1.2	13.33	27.99	5.34	0.07	1.74	51.53	4973	33.7	-0.01	15.36	
S372	81000	35	2.2	5.26	5.49	1.17	0.01	0.36	87.71	1134	7.64	0.01	4.64	
S374	6900	22	-0.05*	7.01	0.28	0.62	0.01	0.24	91.84	-100	0.11	0.29	7.76	
S375														
S376	860	18	-0.05	7.62	0.16	0.6	0.01	-0.1	91.61	-100	1.54	0.26	6.59	
S377														
S378	2600	5.6	-0.05	1.61	0.1	0.17	0.02	-0.1	98.1	-100	0.02	0.25	1.63	
S379														
S380	2400	9.9	-0.05*	1.65	0.11	0.23	0.02	-0.1	97.99	-100	0.61	-0.01	2.24	
S381														
S382	24000	4.7	0.08	7.99	0.16	0.93	0.02	-0.1	90.9	-100	-0.01	0.19	8.91	
S383														
S384														
S386														
S387	97000	160	2.8	10.15	17.98	3.39	0.07	1.57	66.84	5336	23.57	0.55	9.04	
S388	43000	31	-0.05	10.36	1.03	1.23	0.02	0.42	86.94	-100	0.74	1.28	11.04	
S389														
S391	3100	6.1	-0.05	16.69	0.22	1.9	0.02	-0.1	81.17	-100	0.54	0.26	18.03	
S392														
S393														
S394	3500	5.1	0.07	2.67	0.1	0.26	0.05	-0.1	96.92	-100	-0.01	0.56	2.52	
S395														
S396	1300	4	0.1	2.28	0.01	0.42	0.04	-0.1	97.25	-100	-0.01	-0.01	3.1	
S397														
S398	2100	4.3	0.37	2.09	0.04	0.28	0.03	-0.1	97.56	-100	-0.01	-0.01	3.05	
S399														
S401														
S402														
S403	39000	980	0.3	13.05	4.11	1.66	0.07	6.21	74.9	705	19.13	1.09	4.83	
S415	20000	55	1.6	6.47	1.38	0.75	0.04	1.54	89.82	159	4.62	0.93	4.63	
S416														
S417	6800	25	1.2	19.58	0.03	2.43	0.03	-0.1	77.93	-100	-0.01	0.24	21.83	

PURSL

Sample No.	QNS_A	PB_GA	PHEN	%O	%C	%H	%N	%S	%ASH	BTU/ LB	%VOL MATR	%FIX CARB	%DRY- LOSS	SO4_IC
Units -)	ug/g	ug/g	ug/g	calc.by										ug/g
Dct.Lmt.-)	*efft.	detect.	limit*	difference	* 0.1%	-- of	--	absolute	*	100	.5%	~1%	0.1%	* effec
S418														
S419	3400	18	-0.05	6.21	0.02	0.7	0.02	-0.1	93.05	-100	0.99	-0.01	6.11	
S420														
S421	810	5.6	-0.05	4.87	0.01	0.55	0.02	-0.1	94.55	-100	0.14	0.05	5.26	
S422														
S423	1900	8.1	-0.05	1.13	-0.01	0.27	0.03	-0.1	98.57	-100	-0.01	-0.01	1.75	
S424														
S425	6500	13	-0.05	15.44	0.06	1.63	0.01	-0.1	82.86	-100	0.93	0.1	16.11	
S426														
S428	72000	140	0.72	3.6	6.64	1.35	0.04	0.15	88.22	1473	7.13	-0.01	5.24	
S430	1800	13	-0.05	5.42	0.09	0.58	-0.01	-0.1	93.91	-100	-0.01	0.24	5.85	
S431														
S432	2900	40	-0.05	4.67	0.07	0.61	0.03	-0.1	94.62	-100	-0.01	-0.01	6.21	
S433	660	13	-0.05	18.12	0.06	2.23	0.01	-0.1	79.58	-100	0.07	-0.01	20.57	
S434														
S435	2200	16	-0.05	9.64	0.88	0.79	0.02	-0.1	88.67	-100	2.75	1.24	7.34	
S436														
S437	2500	6.2	-0.05	8.75	0.21	1.09	0.01	-0.1	89.94	-100	-0.01	-0.01	10.71	
S438	6000	23	-0.05	3.81	0.19	0.43	0.04	-0.1	95.53	-100	0.01	0.64	3.83	
S439	4100	34	-0.05	19.27	0.23	2.12	0.04	-0.1	78.34	-100	0.47	-0.01	21.63	
S440	3300	8.5	-0.05	1.62	0.19	0.33	0.01	-0.1	97.85	-100	-0.01	-0.01	2.64	
S441	3100	5.2	-0.05	16.2	0.37	1.64	0.09	-0.1	81.7	-100	1.41	0.31	16.58	
S443	90000	845	0.41	2.9	8.21	1.37	0.1	-0.1	87.42	1747	9.66	0.54	1.58	
S444														
S445	2700	20	0.26	5.51	0.15	0.88	0.03	-0.1	93.43	-100	-0.01	-0.01	7.48	
S446														
S447														
S448														
S449	51000	660	0.31	12.46	4.82	1.55	0.06	0.12	80.99	1154	8.53	0.97	9.51	
S450														
S451														
S452	80	43	4.3	3.01	0.15	0.29	0.02	-0.1	96.53	-100	-0.01	-0.01	3.86	
S453	46000	75	0.19	4.76	5.58	1.15	0.07	0.1	88.34	1265	6.68	-0.01	4.63	
S454														
S455	10000	9.5	0.12	8.57	0.25	0.85	0.02	-0.1	90.31	-100	-0.01	0.14	9.55	
S456														
S457														
S458	150000	11000	42	13.48	34.15	5.49	0.35	2.03	44.5	5983	39.77	3.17	12.56	
S459														
S460														
S461	11000	11	-0.05	16.34	0.19	1.84	0.03	0.13	81.47	-100	0.06	0.15	18.28	
S462	4700	8.2	-0.05	6.55	0.07	0.91	0.02	-0.1	92.45	-100	0.08	-0.01	7.56	
S463	43000	39	0.16	3.33	3.29	0.63	0.08	0.1	92.57	750	2.59	0.61	4.23	
S464														
S465														
S466														
S467	21500	4.1	0.16	7.07	1.69	1.05	-0.01	-0.1	90.19	335	2.49	0.3	7.02	
S468	77000	1300	3	5.67	6.96	1.26	0.06	0.36	85.69	1416	9.24	0.17	4.9	
S469														
S470														
S471	84000	25	0.19	10.27	6.67	1.65	0.05	0.31	80.85	1193	6.54	0.68	11.93	
S472														
S473	18000	3.8	-0.05	3.79	0.96	0.51	0.04	0.12	94.58	158	1.08	-0.01	4.35	
S474														
S475	44000	2300	5.2	18.71	13.52	2.91	0.1	1.11	63.65	1686	13.72	10.38	12.25	
S476														
S477	46000	100	16	7.31	3.59	1.56	0.05	0.34	87.15	542	4.69	0.08	8.06	
S478														
S479	46000*	17	12	2.51	2.53	0.8	0.04	-0.1	94.12	365	1.78	0.89	3.21	
S480														
S481														
S482	270000	6500	49	36.9	27.02	5.19	0.11	2.26	28.52	5087	49.2	9.11	13.17	
S483														
S484	58000	170	4.8	17.19	5.93	2.66	0.09	0.47	73.66	1261	7.93	0.6	17.81	
S485														
S486														

PURSL

Sample No.	ONG_A	PB_GA	PHEN	%O	%C	%H	%N	%S	%ASH	BTU/ LB	%VOL MATR	%FIX CARB	%DRY-LOSS	SO4_IC
Units -)	ug/g	ug/g	ug/g	calc.by										ug/g
Dct.Lmt.-)*	efft.detect.limit*			difference *	0.1% -- of -- absolute *					100	.5%	~1%	0.1% *	effec
S487	3400	14	0.1	3.11	0.1	0.25	0.05	-0.1	96.49	-100	0.17	0.19	3.15	
S488														
S489														
S490	370000	3870	1.8	0.09	38.39	6.91	0.11	0.98	53.52	6903	39.89	-0.01	7.3	
S491														
S492	210000	11000	7.6	31.98	25.63	4.78	0.1	2.83	34.68	5389	20.49	26.38	18.45	
S493														
S494	65000	6.2	0.40*	9.43	4.32	1.56	0.02	0.2	84.47	801	5.52	0.12	9.89	
S495														
S496														
S497														
S498	210000	10000	0.86	29.69	34.95	6.74	0.25	2.7	25.67	6796	65.31	2.39	6.63	
S499														
S500	10000	55	2.2	6.03	1.07	0.62	0.03	0.95	91.3	282	3.02	-0.01	5.69	
S501														
S502														
S503														
S504	5800	3	0.16	4.8	0.28	0.36	0.01	-0.1	94.55	-100	0.13	-0.01	5.71	
S505	45000	6.4	0.49	4.62	3.88	0.97	0.02	0.72	89.79	726	5.92	0.42	3.67	
S506														
S507														
S508	2700	11000	0.08	2.41	0.05	0.18	0.01	-0.1	97.35	-100	0.04	0.26	2.35	
S508D														
S509														
S509D														
S510														
S510D														
S511														
S511D														
S512	770000	17000	12	30.15	42.78	7.92	0.21	6.18	12.76	9376	63.03	11.03	13.18	
S512D														
S513														
S513D														
S514	44000	3.2	-0.05*	4.96	3.36	1.17	0.01	0.47	90.03	654	2.99	0.2	6.78	
S514D														
S515														
S515D														
S516														
S516D														
S517	4400	3.3	-0.05*	5.33	0.05	0.78	-0.01	-0.1	93.84	-100	-0.01	-0.01	6.62	
S517D														
S518														
S518D														
S519														
S520	410000	70	5.7*	31.02	39.41	7.58	0.24	4.45	17.3	9640	59.07	9.3	14.33	
S520D														
S521														
S521D														
S522	4000	2.1	0.09	9.29	0.41	0.73	0.02	0.26	89.29	-100	-0.01	-0.01	11.53	
S522D														
S523														
S523D														
S524														
S524D														
S525														
S525D														
S526	2700	3.2	-0.05	4.42	0.06	0.32	0.01	-0.1	95.19	-100	0.78	0.54	3.49	
S528	71000	70	0.26	5.87	4.33	0.8	0.06	0.1	88.84	822	5.71	-0.01	5.48	
S528D														
S529														
S529D														
S530														
S530D														
S531	30000	3.7	0.28	11.8	1.54	1.47	0.01	0.46	84.72	200	3.92	-0.01	11.98	
S531D														
S532														

PURSL

Sample No.	ONG_A	PB_GA	PHEN	%O	%C	%H	%N	%S	%ASH	BTU/ LB	%VOL MATR	%FIX CARB	%DRY-LOSS	SO4_IC
Units -)	ug/g	ug/g	ug/g	calc.by										ug/g
Det.Lmt.-)*	efft.	detect.	limit*	difference *	0.1% --		of --		absolute	*	100	.5%	~1%	0.1% * effec
S532D														
S533	2400	6.7	0.07	3.15	0.11	0.31	0.01	-0.1	96.42	-100	-0.01	0.37	3.21	
S533D														
S534														
S534D														
S535	1600	2.7	-0.05	7.18	0.08	0.53	0.01	-0.1	92.2	-100	0.92	-0.01	7.66	
S535D														
S536														
S536D														
S537	1400	1.2	-0.09	13.94	0.11	1.49	0.01	0.13	84.32	-100	1.8	-0.01	14.84	
S537D														
S538	440	1.8	0.16	13.08	0.06	1.35	0.01	-0.1	85.5	-100	-0.01	-0.01	14.6	
S538D														
S541														
S542														
S543														
S544														
S545														
S546	24000	1600	0.17*	2.64	1.95	0.48	0.08	-0.1	94.85	353	2.85	0.29	2.01	
S547	39000	135	-0.05*	3.18	3.14	0.58	0.06	-0.1	93.04	835	4.89	1.39	0.68	
S548	79000	1320	-0.05*	12.15	7.44	1.34	0.06	0.17	78.84	1670	11.14	7.37	2.65	
S549														
S550														
S551	15000	120	-0.05*	8.99	10.43	1.85	0.08	0.1	78.55	1793	5.81	11.76	3.88	
S551D														
S552														
S553														
S553D														
S554														
S555	80000	34000	0.76*	5.14	8.42	1.45	0.04	-0.1	84.95	1888	10.73	2.53	1.79	
S556	600000	7600	5.6*	26.7	32.5	6.12	0.21	3.64	30.63	8506	45.15	5.01	15.01	
S558	170000	1900	2.1*	14.6	9.89	2.01	0.09	0.91	72.5	2214	16.04	5.68	5.58	
S559	55000	970	2.3*	19.72	5.16	2.24	0.08	5.16	67.64	842	18.61	3.71	10.04	
S559D	44000	570	2											
S560	15000	-10	1.5											
S561	11000	-10	0.47											
S562	15000	-10	1											
S563	6800	-10	0.15											
S564	11000	-10	0.24											
S565	-100	-10	-0.05											
S566	25000	450	0.4											
S567	100000	7440	6.0*	19.6	10.18	3.2	0.09	1.31	65.62	2018	13.83	2.73	17.77	
S568	160000	10000	49											
S569	4600	-10	0.62											
S569D	8300	160	1.3											
S570	-100	-10	0.27											
S571	1500	-10	0.14											
S572	22000	-10	0.79											
S573	-100	-10	0.26											
S574	1100	-10	-0.05											
S575	12000	-10	0.15											
S576	100000	10000	2.4*	6.07	9.83	1.61	0.11	0.27	82.05	2235	12.14	0.62	5.19	
S577	320000	930	1.7*	8.38	9.03	1.95	0.09	0.4	80.15	1607	14.11	-0.01	6.2	
S578	33500	1700	0.79*	27.38	5.39	1.81	0.07	5.37	59.98	403	21.05	0.71	18.26	
S579	79000	87	12											
S579D	93000	56	15											
S580	21000	-10	3.6											
S581	16000	-10	3.3											
S582	500	-10	1.6											
S583	1400	-10	1.1											

PURSL

Sample	ICPES					ICPES							ICPES
No.	AG	AL	AS	AU	B	BA	BE	BI	CA	CD	CO	CR	CU
Units -)	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g
Dct.Lmt.-)	tive detection limit follows minus sign * * effective detection limit follows minus sign *												
S006													
S007													
S012													
S016													
S017													
S018													
S019													
S020													
S021													
S022													
S023													
S024													
S024D													
S025													
S026													
S027													
S028													
S029													
S030													
S031													
S032													
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S034													
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S036													
S037													
S038													
S039													
S039D													
S040													
S041													
S042													
S043													
S043D													
S044													
S045													
S046													
S047													
S048													
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S053D													
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S061D													
S062													
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S064													
S065													
S066													
S067													
S068													
S069													
S070													
S071													
S072													
S073													

PURSL

Sample	ICPES					ICPES							ICPES
No.	AG	AL	AS	AU	B	BA	BE	BI	CA	CD	CO	CR	CU
Units -)	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g
Dct.Lmt.-)	tive detection limit follows minus sign * * effective detection limit follows minus sign *												
S074													
S075													
S076													
S077													
S078													
S079													
S079D													
S080													
S081													
S082													
S082D													
S083													
S084													
S085													
S086													
S087													
S088													
S089													
S089D													
S090													
S091													
S092													
S093													
S093D													
S094													
S095													
S096													
S097													
S097D													
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S100													
S101													
S101D													
S102													
S103													
S104													
S104D													
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S107													
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S109													
S109D													
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S112													
S113													
S114													
S115													
S115D													
S116													
S117													
S118													
S120													
S121													
S122													
S123													
S124													
S125													
S126													
S127													
S128													
S129													
S130													
S131													

PURSL

Sample No.	AG	AL	AS	AU	B	BA	BE	BI	CA	CD	CO	CR	CU
	ICPES					ICPES							ICPES
Units ->	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g
Dct.Lmt.->	tive detection limit follows minus sign * * effective detection limit follows minus sign *												
S132													
S133													
S134													
S135													
S136													
S137													
S138													
S139													
S140													
S141													
S142													
S143													
S144													
S145													
S146													
S146D													
S147													
S148													
S149													
S150													
S151													
S152													
S153													
S154													
S155													
S156													
S157	-.2*		-6*			51*	-0.1*		1500*	1.5*	6.0*	33*	24*
S158													
S159													
S160													
S161													
S162													
S163													
S164	-.2*		-6*			64*	-0.1*		1600*	0.2*	4.0*	20*	13*
S165	-.2*		-6*			64*	-0.1*		2300*	0.4*	3.0*	18*	22*
S166	-.2*		-6*			110*	-0.1*		1600*	0.7*	4.0*	20*	26*
S167													
S168	-.2*		-6*			65*	-0.1*		1500*	1.4*	4.0*	21*	16*
S169	-.2*		-6*			90*	-0.1*		1900*	0.7*	5.9*	25*	20*
S170													
S170D													
S171													
S171D													
S172	-.2*		-6*			84*	-0.1*		2100*	0.4*	3.9*	21*	16*
S173													
S174	-.2*		-6*			56*	-0.1*		2300*	-0.2*	5.1*	25*	10*
S175													
S176	-.2*		-6*			48*	-0.1*		1800*	0.5*	6.6*	33*	9.7*
S177													
S301	-2*		-6*			75*	-0.1*		1700*	1.4*	9.0*	57*	38*
S301D	-2*		-6*			71*	-0.1*		1800*	1.0*	10*	54*	46*
S303	-2*		-6*			83*	-0.1*		2100*	0.5*	13*	65*	23*
S305	-2*		-6*			27*	-0.1*		1400*	-0.2*	5.0*	31*	5.6*
S307	-2*		-6*			99*	-0.1*		2300*	3.2*	12*	62*	45*
S307D	-2*		-6*			45*	-0.1*		1300*	1.0*	8.6*	39*	14*
S309	-2*		-6*			85*	-0.1*		1900*	0.9*	11*	70*	35*
S311	-2*		-6*			43*	-0.1*		1100*	1.2*	16*	23*	5.0*
S313	-2*		-6*			43*	-0.1*		1300*	0.8*	6.8*	33*	23*
S315													
S317	-2*		-6*			36*	-0.1*		1400*	1.0*	8.9*	32*	13*
S319	-2*		-6*			27*	-0.1*		1500*	2.5*	7.0*	16*	12*
S321	-2*		-6*			35*	-0.1*		1500*	0.8*	5.0*	16*	9.0*
S323	-2*		-6*			20*	-0.1*		1100*	-0.2*	2.8*	7.5*	7.1*
S325													
S327	-2*		-6*			22*	-0.1*		1100*	-0.2*	5.0*	24*	7.1*
S329	-2*		-5*			52*	-0.1*		1300*	3.2*	9.9*	40*	21*

PURSL

Sample	ICPES					ICPES							ICPES
No.	AG	AL	AS	AU	B	BA	BE	BI	CA	CD	CO	CR	CU
Units -)	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g
Dct.Lmt.-)	tive detection limit follows minus sign * * effective detection limit follows minus sign *												
S331		-2*		-6*			39*	-0.1*		1500*	1.2*	8.1*	52*	15*
S333		-2*		-6*			48*	-0.1*		1300*	0.7*	8.3*	40*	16*
S335														
S336														
S337														
S338														
S339														
S341														
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S401														
S402														
S403														
S415														
S416														
S417														

PURSL

Sample	ICPES					ICPES							ICPES
No.	AG	AL	AS	AU	B	BA	BE	BI	CA	CD	CO	CR	CU
Units -)	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g
Dct.Lmt.-)	tive detection limit follows minus sign *						* effective detection limit follows minus sign *						
S418													
S419													
S420													
S421													
S422													
S423													
S424													
S425													
S426													
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S477													
S478													
S479													
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S481													
S482													
S483													
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S486													

PURSL

Sample	ICPES					ICPES							ICPES
No.	AG	AL	AS	AU	B	BA	BE	BI	CA	CD	CO	CR	CU
Units -)	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g
Dct.Lmt.-)	tive detection limit follows minus sign * * effective detection limit follows minus sign *												
S487													
S488													
S489													
S490													
S491													
S492													
S493													
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S528													
S528D													
S529													
S529D													
S530													
S530D													
S531													
S531D													
S532													

PURSL

Sample No.	ICPES AG	AL	AS	AU	B	BA	ICPES BE	BI	CA	CD	CO	CR	ICPES CU
Units -)	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g
Dct.Lmt.-)	tive detection limit follows minus sign * * effective detection limit follows minus sign *												
S532D													
S533													
S533D													
S534													
S534D													
S535													
S535D													
S536													
S536D													
S537													
S537D													
S538													
S538D													
S541	-0.2		-6			56	-0.1		1500*	-0.2	3.7	6	7.1
S542													
S543													
S544													
S545													
S546													
S547													
S548													
S549	-0.2		8			73	-0.1		1900*	-0.2	5	16	240
S550													
S551													
S551D													
S552													
S553	-0.2		-6			68	-0.1		2900*	-0.2	2	7.6	23
S553D													
S554	-0.2		-6			77	-0.1		2300*	-0.2	3.8	5.6	13
S555													
S556													
S558													
S559													
S559D													
S560													
S561	-0.2		-6			27	-0.1		1200*	-0.2	3	4.7	3.1
S562	-0.2		11			82	-0.1		1800	-0.2	6.9	7	6.5
S563	-0.2		-6			36	-0.1		750	-0.2	3.7	7	3.8
S564	-0.2		-6			41	-0.1		1300	-0.2	3	5.9	2.5
S565	-0.2		-6			23	-0.1		1010	-0.2	2.9	0.7	1.7
S566	-0.2		-6			520	-0.1		5500	1	2.7	15	30
S567													
S568													
S569	-0.2		9			47	-0.1		2100	-0.2	5	29	4.2
S569D													
S570	-0.2		-6			31	-0.1		2000	-0.2	4	16	2.4
S571	-0.2		-6			28	-0.1		1700	-0.2	2.8	5	3.8
S572	-0.2		8.7			39	-0.1		1200	-0.2	3	7	1.5
S573	-0.2		-6			54	-0.1		11700	-0.2	3.9	3.6	2.2
S574	-0.2		6			57	-0.1		14100	-0.2	3	4.7	2.8
S575	-0.2		-6			54	-0.1		2030	-0.2	3	5.5	6.4
S576													
S577													
S578													
S579													
S579D													
S580	-0.5		13			67	-0.1		1800	0.4	4.7	3.6	8.7
S581	-0.2		9			49	-0.1		4000	-0.2	4.5	11	2.7
S582	-0.2		-6			40	-0.1		1800	-0.2	4.5	3	1.2
S583	-0.2		-6			38	-0.1		1320	-0.2	4.5	1.7	2.8

PURSL

Sample	ICPES											ICPES	
No.	FE	HG	IN	K	LI	MG	MN	MO	NA	NI	P	PB	PT
Units -)	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g
Dct.Lmt.-)	* effective detection limit follows minus sign * * effective detection limit follows minus												
S006													
S007													
S012													
S016													
S017													
S018													
S019													
S020													
S021													
S022													
S023													
S024													
S024D													
S025													
S026													
S027													
S028													
S029													
S030													
S031													
S032													
S033													
S034													
S035													
S036													
S037													
S038													
S039													
S039D													
S040													
S041													
S042													
S043													
S043D													
S044													
S045													
S046													
S047													
S048													
S049													
S050													
S051													
S052													
S053													
S053D													
S054													
S055													
S056													
S057													
S058													
S059													
S060													
S061													
S061D													
S062													
S063													
S064													
S065													
S066													
S067													
S068													
S069													
S070													
S071													
S072													
S073													

PURSL

Sample	**********	ICPES	**********								ICPES*********	
No.	FE	HG	IN	K	LI	MG	MN	MO	NA	NI	P	PB	PT
Units -)	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g
Dct.Lmt.-)* effective detection limit follows minus sign * * effective detection limit follows minus													
S074													
S075													
S076													
S077													
S078													
S079													
S079D													
S080													
S081													
S082													
S082D													
S083													
S084													
S085													
S086													
S087													
S088													
S089													
S089D													
S090													
S091													
S092													
S093													
S093D													
S094													
S095													
S096													
S097													
S097D													
S098													
S099													
S100													
S101													
S101D													
S102													
S103													
S104													
S104D													
S105													
S106													
S107													
S108													
S109													
S109D													
S110													
S111													
S112													
S113													
S114													
S115													
S115D													
S116													
S117													
S118													
S120													
S121													
S122													
S123													
S124													
S125													
S126													
S127													
S128													
S129													
S130													
S131													

PURSL

Sample	ICPES											ICPES	
No.	FE	HG	IN	K	LI	MG	MN	MO	NA	NI	P	PB	PT
Units -)	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g
Dct.Lmt.-)* effective detection limit follows minus sign * * effective detection limit follows minus													
S132													
S133													
S134													
S135													
S136													
S137													
S138													
S139													
S140													
S141													
S142													
S143													
S144													
S145													
S146													
S146D													
S147													
S148													
S149													
S150													
S151													
S152													
S153													
S154													
S155													
S156													
S157						3900*		2.6*		43*		62*	
S158													
S159													
S160													
S161													
S162													
S163													
S164						2400*		1.4*		7.4*		-8*	
S165						2900*		1.0*		4.9*		10*	
S166						2500*		1.8*		6.0*		8*	
S167													
S168						2900*		2.3*		6.9*		10*	
S169						2800*		2.6*		11*		-8*	
S170													
S170D													
S171													
S171D													
S172						2500*		1.9*		6.7*		13*	
S173													
S174						3200*		1.9*		11*		27*	
S175													
S176						3000*		2.4*		27*		13*	
S177													
S301						4700*		3.5*		62*		8*	
S301D						5100*		3.5*		66*		-6*	
S303						5700*		2.0*		78*		-8*	
S305						2900*		2.4*		43*		6*	
S307						6200*		2.3*		81*		10*	
S307D						3100*		3.0*		41*		-8*	
S309						5400*		2.0*		72*		15*	
S311						2300*		4.0*		42*		6*	
S313						3100*		2.0*		40*		-8*	
S315													
S317						2700*		4.0*		37*		-8*	
S319						2800*		4.4*		9.0*		13*	
S321						3000*		2.0*		6.9*		14*	
S323						2100*		1.4*		4.7*		19*	
S325													
S327						2400*		1.4*		41*		-8*	
S329						3400*		4.7*		44*		-8*	

PURSL

Sample	ICPES											ICPES	
No.	FE	HG	IN	K	LI	MG	MN	MO	NA	NI	P	PB	PT
Units -)	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g
Dct.Lmt.-)* effective detection limit follows minus sign * * effective detection limit follows minus													
S331						3500*		3.0*		59*		14*	
S333						3600*		3.4*		50*		-6*	
S335													
S336													
S337													
S338													
S339													
S341													
S342													
S343													
S344													
S345													
S346													
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S399													
S401													
S402													
S403													
S415													
S416													
S417													

PURSL

Sample	ICPES											ICPES	
No.	FE	HG	IN	K	LI	MG	MN	MO	NA	NI	P	PB	PT
Units -)	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g
Dct.Lmt.-)	* effective detection limit follows minus sign *											* effective detection limit follows minus	
S418													
S419													
S420													
S421													
S422													
S423													
S424													
S425													
S426													
S428													
S430													
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S472													
S473													
S474													
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S476													
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S478													
S479													
S480													
S481													
S482													
S483													
S484													
S485													
S486													

PURSL

Sample	ICPES											ICPES	
No.	FE	HG	IN	K	LI	MG	MN	MO	NA	NI	P	PB	PT
Units -)	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g
Dct.Lmt.-)	* effective detection limit follows minus sign * * effective detection limit follows minus												
S487													
S488													
S489													
S490													
S491													
S492													
S493													
S494													
S495													
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S497													
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S499													
S500													
S501													
S502													
S503													
S504													
S505													
S506													
S507													
S508													
S508D													
S509													
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S510													
S510D													
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S522													
S522D													
S523													
S523D													
S524													
S524D													
S525													
S525D													
S526													
S528													
S528D													
S529													
S529D													
S530													
S530D													
S531													
S531D													
S532													

PURSL

Sample No.	FE	HG	IN	K	LI	MG	MN	MO	NA	NI	P	PB	PT
	**********					ICPES	**********					ICPES*********	
Units -)	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g
Dct.Lmt.-)* effective detection limit follows minus sign * * effective detection limit follows minus													
S532D													
S533													
S533D													
S534													
S534D													
S535													
S535D													
S536													
S536D													
S537													
S537D													
S538													
S538D													
S541						3300		-0.3		9.2		8	
S542													
S543													
S544													
S545													
S546													
S547													
S548													
S549						3700		-0.3		9.1		140	
S550													
S551													
S551D													
S552													
S553						4500		-0.3		6.6		26	
S553D													
S554						4040		-0.3		5.8		17	
S555													
S556													
S558													
S559													
S559D													
S560													
S561						2020		-0.3		9.7		12	
S562						5900		-0.3		11		-8	
S563						2060		-0.3		3		-8	
S564						3000		-0.3		4.5		-8	
S565						2300		-0.3		1.5		-8	
S566						1940		-0.3		7.4		7000	
S567													
S568													
S569						3300		-0.3		28		19	
S569D													
S570						3400		-0.3		22		12	
S571						2400		-0.3		5.4		19	
S572						3100		-0.3		3.3		-8	
S573						4500		-0.3		4.4		-8	
S574						4500		-0.3		4.7		-8	
S575						2510		-0.3		4		23	
S576													
S577													
S578													
S579													
S579D													
S580						4200		-0.3		1.4		51	
S581						2700		-0.3		6		-8	
S582						3500		-0.3		4.7		-8	
S583						3700		-0.3		4.7		-8	

PURSL

Sample	ICPES						ICPES						ICPES	
No.	S	SB	SE	SI	SN	SR	TE	TI	TL	U	V	W	Y	
Units -)	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	
Dct.Lmt.-)	sign * * effective detection limit follows minus sign * * efft.detect. limit follows minus													
S006														
S007														
S012														
S016														
S017														
S018														
S019														
S020														
S021														
S022														
S023														
S024														
S024D														
S025														
S026														
S027														
S028														
S029														
S030														
S031														
S032														
S033														
S034														
S035														
S036														
S037														
S038														
S039														
S039D														
S040														
S041														
S042														
S043														
S043D														
S044														
S045														
S046														
S047														
S048														
S049														
S050														
S051														
S052														
S053														
S053D														
S054														
S055														
S056														
S057														
S058														
S059														
S060														
S061														
S061D														
S062														
S063														
S064														
S065														
S066														
S067														
S068														
S069														
S070														
S071														
S072														
S073														

PURSL

Sample	ICPES						ICPES						ICPES	
No.	S	SB	SE	SI	SN	SR	TE	TI	TL	U	V	W	Y	
Units -)	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	
Dct.Lmt.-)	sign * * effective detection limit follows minus sign * * efft.detect. limit follows minus													
S074														
S075														
S076														
S077														
S078														
S079														
S079D														
S080														
S081														
S082														
S082D														
S083														
S084														
S085														
S086														
S087														
S088														
S089														
S089D														
S090														
S091														
S092														
S093														
S093D														
S094														
S095														
S096														
S097														
S097D														
S098														
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S101														
S101D														
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S104D														
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S109D														
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S112														
S113														
S114														
S115														
S115D														
S116														
S117														
S118														
S120														
S121														
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S123														
S124														
S125														
S126														
S127														
S128														
S129														
S130														
S131														

PURSL

Sample No.	S	SB	SE	SI	SN	SR	TE	TI	TL	U	V	W	Y
	**********	ICPES	**********				ICPES	**********				ICPES	*********
Units -)	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g
Dct.Lmt.-)	sign * * effective detection limit follows minus sign * * efft.detect. limit follows minus												
S132													
S133													
S134													
S135													
S136													
S137													
S138													
S139													
S140													
S141													
S142													
S143													
S144													
S145													
S146													
S146D													
S147													
S148													
S149													
S150													
S151													
S152													
S153													
S154													
S155													
S156													
S157		-3*	-8*							-9*		22*	
S158													
S159													
S160													
S161													
S162													
S163													
S164		-3*	-8*							-9*		14*	
S165		-3*	-8*							-9*		14*	
S166		-3*	-8*							-9*		15*	
S167													
S168		-3*	-8*							-9*		19*	
S169		-3*	-8*							-9*		21*	
S170													
S170D													
S171													
S171D													
S172		-3*	-8*							-9*		16*	
S173													
S174		-3*	10*							-9*		19*	
S175													
S176		-3*	-8*							-9*		21*	
S177													
S301		-3*	-8*							-9*		25*	
S301D		-3*	-8*							-9*		28*	
S303		-3*	-8*							-9*		32*	
S305		-3*	-8*							-9*		20*	
S307		-3*	-8*							-9*		32*	
S307D		-3*	-8*							-9*		20*	
S309		-3*	-8*							10		29*	
S311		-3*	-8*							12		22*	
S313		-3*	10*							-9*		18*	
S315													
S317		-3*	-8*							-9*		27*	
S319		-3*	-8*							-9*		31*	
S321		-3*	-8*							-9*		16*	
S323		-3*	-8*							-9*		13*	
S325													
S327		-3*	-8*							-9*		11*	
S329		-3*	-8*							-9*		33*	

PURSL

Sample	ICPES						ICPES						ICPES	
No.	S	SB	SE	SI	SN	SR	TE	TI	TL	U	V	W	Y	
Units -)	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	
Dct.Lmt.-)	sign * * effective detection limit follows minus sign * * efft.detect. limit follows minus													
S331			-3*	-8*						-9*		22*		
S333			-3*	-6*						-9*		25*		
S335														
S336														
S337														
S338														
S339														
S341														
S342														
S343														
S344														
S345														
S346														
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S398														
S399														
S401														
S402														
S403														
S415														
S416														
S417														

PURSL

Sample	**********	ICPES	**********	ICPES	**********	ICPES	*********						
No.	S	SB	SE	SI	SN	SR	TE	TI	TL	U	V	W	Y
Units -)	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g
Dct.Lmt.-)	sign * * effective detection limit follows minus sign * * efft.detect. limit follows minus												
S418													
S419													
S420													
S421													
S422													
S423													
S424													
S425													
S426													
S428													
S430													
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S462													
S463													
S464													
S465													
S466													
S467													
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S472													
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S481													
S482													
S483													
S484													
S485													
S486													

PURSL

Sample	ICPES						ICPES					ICPES	
No.	S	SB	SE	SI	SN	SR	TE	TI	TL	U	V	W	Y
Units -)	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g
Dct.Lmt.-)	sign * * effective detection limit follows minus sign * * efft.detect. limit follows minus												
S487													
S488													
S489													
S490													
S491													
S492													
S493													
S494													
S495													
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S503													
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S507													
S508													
S508D													
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S523D													
S524													
S524D													
S525													
S525D													
S526													
S528													
S528D													
S529													
S529D													
S530													
S530D													
S531													
S531D													
S532													

PURSL

Sample	**********	ICPES	**********	ICPES	**********	ICPES	*********					
No.	S	SB	SE	SI	SN	SR	TE	TI	TL	U	V	W	Y
Units -)	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g
Dct.Lmt.-)	sign * * effective detection limit follows minus sign * * efft.detect. limit follows minus												
S532D													
S533													
S533D													
S534													
S534D													
S535													
S535D													
S536													
S536D													
S537													
S537D													
S538													
S538D													
S541		-3	-8						-9		13		
S542													
S543													
S544													
S545													
S546													
S547													
S548													
S549		-3	-8						-9		12		
S550													
S551													
S551D													
S552													
S553		-3	-8						-9		14		
S553D													
S554		-3	-8						-9		13		
S555													
S556													
S558													
S559													
S559D													
S560													
S561		-3	-8						-9		13		
S562		-3	-8						-9		25		
S563		-3	-8						-9		15		
S564		-3	-8						-9		14		
S565		-3	-8						-9		9.2		
S566		-3	-8						-9		11		
S567													
S568													
S569		-3	-8						-9		15		
S569D													
S570		-3	-8						-9		16		
S571		-3	-8						-9		13		
S572		-3	-8						-9		16		
S573		-3	-8						-9		12		
S574		-3	-8						-9		17		
S575		-3	-8						-9		11		
S576													
S577													
S578													
S579													
S579D													
S580		-3	-8						-9		18		
S581		-3	-8						-9		15		
S582		-3	-8						-9		15		
S583		-3	-8						-9		13		

PURSL

Sample No.	***** ZN
Units -)	ug/g
Dct.Lmt.-)	sign *
S006	
S007	
S012	
S016	
S017	
S018	
S019	
S020	
S021	
S022	
S023	
S024	
S024D	
S025	
S026	
S027	
S028	
S029	
S030	
S031	
S032	
S033	
S034	
S035	
S036	
S037	
S038	
S039	
S039D	
S040	
S041	
S042	
S043	
S043D	
S044	
S045	
S046	
S047	
S048	
S049	
S050	
S051	
S052	
S053	
S053D	
S054	
S055	
S056	
S057	
S058	
S059	
S060	
S061	
S061D	
S062	
S063	
S064	
S065	
S066	
S067	
S068	
S069	
S070	
S071	
S072	
S073	

PURSL

Sample No.	***** ZN
Units -)	ug/g
Dct.Lmt.-)	sign *
S074	
S075	
S076	
S077	
S078	
S079	
S079D	
S080	
S081	
S082	
S082D	
S083	
S084	
S085	
S086	
S087	
S088	
S089	
S089D	
S090	
S091	
S092	
S093	
S093D	
S094	
S095	
S096	
S097	
S097D	
S098	
S099	
S100	
S101	
S101D	
S102	
S103	
S104	
S104D	
S105	
S106	
S107	
S108	
S109	
S109D	
S110	
S111	
S112	
S113	
S114	
S115	
S115D	
S116	
S117	
S118	
S120	
S121	
S122	
S123	
S124	
S125	
S126	
S127	
S128	
S129	
S130	
S131	

PURSL

Sample No.	***** ZN
Units -)	ug/g
Dct.Lmt.-)	sign *
S132	
S133	
S134	
S135	
S136	
S137	
S138	
S139	
S140	
S141	
S142	
S143	
S144	
S145	
S146	
S146D	
S147	
S148	
S149	
S150	
S151	
S152	
S153	
S154	
S155	
S156	
S157	50*
S158	
S159	
S160	
S161	
S162	
S163	
S164	85*
S165	97*
S166	95*
S167	
S168	81*
S169	110*
S170	
S170D	
S171	
S171D	
S172	180*
S173	
S174	50*
S175	
S176	37*
S177	
S301	63*
S301D	72*
S303	66*
S305	44*
S307	72*
S307D	36*
S309	73*
S311	23*
S313	41*
S315	
S317	33*
S319	42*
S321	41*
S323	35*
S325	
S327	19*
S329	41*

PURSL

Sample No.	***** ZN
Units -)	ug/g
Dct.Lmt.-)	sign *
S331	37*
S333	38*
S335	
S336	
S337	
S338	
S339	
S341	
S342	
S343	
S344	
S345	
S346	
S347	
S349	
S350	
S351	
S352	
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S382	
S383	
S384	
S386	
S387	
S388	
S389	
S391	
S392	
S393	
S394	
S395	
S396	
S397	
S398	
S399	
S401	
S402	
S403	
S415	
S416	
S417	

PURSL

Sample No.	***** ZN
Units -)	ug/g
Dct.Lmt.-)	sign *
S418	
S419	
S420	
S421	
S422	
S423	
S424	
S425	
S426	
S428	
S430	
S431	
S432	
S433	
S434	
S435	
S436	
S437	
S438	
S439	
S440	
S441	
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S466	
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S469	
S470	
S471	
S472	
S473	
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S476	
S477	
S478	
S479	
S480	
S481	
S482	
S483	
S484	
S485	
S486	

PURSL

Sample No.	***** ZN
Units -)	ug/g
Dct.Lmt.-)	sign *
S487	
S488	
S489	
S490	
S491	
S492	
S493	
S494	
S495	
S496	
S497	
S498	
S499	
S500	
S501	
S502	
S503	
S504	
S505	
S506	
S507	
S508	
S508D	
S509	
S509D	
S510	
S510D	
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S511D	
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S520D	
S521	
S521D	
S522	
S522D	
S523	
S523D	
S524	
S524D	
S525	
S525D	
S526	
S528	
S528D	
S529	
S529D	
S530	
S530D	
S531	
S531D	
S532	

PURSL

Sample No.	***** ZN
Units -)	ug/g
Dct.Lmt.-)	sign *
S532D	
S533	
S533D	
S534	
S534D	
S535	
S535D	
S536	
S536D	
S537	
S537D	
S538	
S538D	
S541	22
S542	
S543	
S544	
S545	
S546	
S547	
S548	
S549	150
S550	
S551	
S551D	
S552	
S553	57
S553D	
S554	35
S555	
S556	
S558	
S559	
S559D	
S560	
S561	160
S562	140
S563	11
S564	13
S565	9.9
S566	180
S567	
S568	
S569	85
S569D	
S570	53
S571	27
S572	17
S573	13
S574	14
S575	30
S576	
S577	
S578	
S579	
S579D	
S580	62
S581	14
S582	15
S583	13

PURSLDC AUG. 20,'85

Sample No.	Area	Site	Grid Location	Date	Depth ft	ACDT ug/g	AG_E ug/g	AS_HA ug/g	BE_E ug/g	CD_E ug/g	CR_E ug/g	CU_E ug/g
Units--)												
Dct.Lmt.-)						* effective detection limits follow minus sign *						
S046		F4		61484	0-1	1200	3.5	3.9	0.3	1.6	7	18
S047		G4		61484	0-1	150	6.7	3.4	0.4	4.3	11	38
S052		E5		61484	0-1	370	5.1	2.6	0.4	3.3	17	27
S068		E7		61484	0-1	3000	3.2	2.2	0.4	1.3	16	19
S069		D7		61484	0-1	390	3.2	1.4	0.2	6.5	25	69
S070		C7		61484	0-1	19000	5.5	4.6	0.2	8.7	28	110
S071		D8		61484	0-1	460	0.6	14	-0.1	1.1	25	19
S134		G22		62684	0-1	220000	5.2	0.9	0.2	11	39	180
S143	XS	F26	WofRowFinRRtrck	62784	0-1	50000	8.8	3.8	-0.1	7.5	40	200
S144	WP		SofWPatWendofst	62784	0-1	77000	2.8	1.3	0.2	7.7	36	120
S145		F24*	10'E OF F24	62784	0-1	47000	8.9	1.3	0.2	12	45	160
S150		E11*	20'N, 15'W	62784	0-1	510	9.7	8.8	-0.1	5.8	33	95
S151	XS	C1*	47.5'E	62884	0-1	330	6.9	3	0.4	2	14	32
S159	XS	NWPC*	60'N	62884	0-1	140	5.3	17	0.5	2	15	16
S163	XS	NWPC*	27'N	62884	0-1	29000	6.8	5.4	0.6	3.6	14	40
S336	FY	Core 1	E3	61984	5-6.5	790	9.9	2.7	-0.1	7.3	58	62
S346	FY	Core 1	E3	61984	40-41.5	90	1.3	2.8	-0.1	0.9	4.3	5.8
S352	WP	Core 2	D10	62184	5-6.5	370	9.7	16	0.3	5.3	32	69
S356	WP	Core 2	D10	62184	15-16.5	630	-0.2	5.5	-0.1	1.1	6.9	15
S365	WP	Core 2	D10	62284	45-46.5	550	1.7	4.6	-0.1	1.2	7.5	8.7
S376	WP	Core 3	E17	62384	17.5-19	430	1.3	5.8	-0.1	1.2	12	12
S382	WP	Core 3	E17	62384	45-46.5	230	8.1	3.4	0.3	2.8	11	19
S387	WP	Core 4	F20	62584	7.5-9	6900	6.5	3.8	0.5	2	9.9	21
S398	WP	Core 4	F20	62684	45-46.5	290	1.2	3.3	-0.1	0.6	3.9	6.2
S403	WP	Core 5	E13	62784	7.5-9	240000	7.5	5.3	0.5	6.6	36	20
S417	WP	Core 5	E13	62984	15-16.5	180	1.7	7.8	-0.1	1.9	9.7	15
S425	WP	Core 5	E13	62984	45-46.5	370	1.5	5.9	-0.1	1.8	17	12
S428	SU	Core 6	11.5'N,14'W E6	70284	2.5-4	160	11	5	-0.1	4.9	13	29
S435	SU	Core 6	11.5'N,14'W E6	70284	20-21	810	1.5	3.3	-0.1	0.8	6.3	6.8
S439	SU	Core 6	11.5'N,14'W E6	70384	35*	470	1	4.4	-0.1	1.4	6.7	12
S443	SU	Core 7	D6	70364	2.5-4	320	11	4.5	0.5	4.9	12	20
S449	SU	Core 8	12.5'W11.5'N E5	70384	5-6.5	-10	8.6	3.5	-0.1	4.3	24	44
S453	SU	Core 9	2.5'W,2.5'N C4	70464	2.5-4	370	6.5	4.3	-0.1	2.6	15	14
S458	SU	Core10	1'E,2'N B6	70584	2.5-4	2800	7.1	8.6	0.2	6.7	37	240
S463	SU	Core11	44'W,32'N C6	70564	2.5-4	-10	5.3	3.3	-0.1	3.1	14	13
S468	SU	Core12	6'E,16'S H7	70584	2.5-4	4000	8.6	3.6	0.5	6.4	15	23
S475	SU	Core13	F8	70664	5-6.5	29000	8.3	3.3	0.3	6.8	65	37
S482	PD	Core14	E8*,4.5'S	70684	5-6.5	14000	6.5	3.8	0.2	3.6	15	33
S492	PD	Core15	F15	70764	10-11.5	36000	4.5	8.2	0.3	22	14	190
S498	PD	Core16	D15	70784	5-6.3	140000	4.2	4.6	0.5	9.5	41	85
S505	PD	Core17	D20	70964	7.5-9	3400	6.2	4	0.4	3.6	14	12
S512	PD	Core18	10'N of F24	71084	5-6.5	34000	7.7	1.8	0.4	12	41	140
S520	PD	Core19	F22	71064	5-6.5	31000	7.6	1.9	-0.1	7.8	26	160
S528	SU	Core20	24'N&13'EofF4	71284	2.5-4	-10	4.4	3.7	0.5	4	9.9	12
S533	SU	Core20	24'N&13'EofF4	71284	20-21.5	5200	0.4	2.1	-0.1	1.5	6	5.1
S537	SU	Core20	24'N&13'EofF4	71284	40-41.5	690	1.5	3.2	-0.1	1.7	9.5	7.8
S552		H24		71384		370	7.2	2.9	-0.1	6.9	17	35
S560	SU	Core21	17'S,15'WofF12	71884	10-11.5	4200	6.7	5.2	-0.1	4.6	28	14
S568	PD	Core22	~5'SE of F11	72084	7.5-9	3400	5.1	25	-0.1	72	97	160
S579	SU	Core23	24'W,5.5'N F7	72084	12.5-14	3400	6.3	7.5	-0.1	10	18	17
S579D	SU	Core23	24'W,5.5'N F7	72084	12.5-14	130	-0.56	2	-0.1	7.8	7.3	5.8

PURSL

Sample No.	H2S_A	HG_CA	NI_E	PB_GA	SB_GA	SE_HA	SO3_TA	SO4_IC	TL_GA	ZN_E	DILUTN. FACTOR	2V	3V	4V
Units--)	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	--)	ug/kg	ug/kg	ug/kg
Dct.Lmt.-)*	effective detection limits follow minus sign * * * * * * * * * *											100	100	10
S046	-10	-0.1	18	330	-0.3	0.2	-20	290	-0.1	52	100	0	0	0
S047	-10	-0.08	11	770	0.7	0.3	-20	3510	-0.1	130	10	0	0	0
S052	-10	-0.08	23	880	1.3	0.4	-20	330	-0.1	110	100	0	0	0
S068	-10	-0.1	14	320	0.9	0.1	-20	2710	-0.1	270	100	0	0	0
S069	-10	-0.1	5.9	9400	3.4	0.2	-20	945	-0.1	320	100	0	0	0
S070	-10	-0.1	11	8200	-0.3	0.2	-20	6760	-0.1	620	100	0	0	0
S071	-10	-0.05	22	190	-0.3	0.3	-20	9530	-0.1	36	10	0	0	0
S134	-10	-0.1	12	6100	3.7	0.2	-20	71000	-0.1	1900	10	0	0	0
S143	-10	-0.1	10	6400	3.4	0.2	-20	14500	-0.1	1500	100	0	0	500
S144	-10	-0.1	11	2800	1.5	0.1	-20	39500	-0.1	1900	100	0	0	200
S145	-10	-0.1	13	5400	2.7	0.1	-20	77000	-0.1	2100	100	0	0	0
S150	-10	-0.08	25	2200	2	0.4	-20	2000	-0.1	510	100	0	0	0
S151	-10	0.09	12	160	-0.3	-0.1	-20	98	-0.1	130	10	0	0	0
S159	-10	-0.05	29	14	-0.3	0.2	-20	61	-0.1	81	5	0	0	0
S163	-10	-0.05	21	180	-0.3	0.2	-20	315	-0.1	160	1	0	0	0
S336	-10	-0.05	120	-10	-0.3	-0.1	-20	1500	-0.1	260	100	0	0	0
S346	-10	-0.09	5	-10	-0.3	0.3	-20	290	-0.1	23	10	0	0	0
S352	-10	-0.1	30	6300	1.4	0.5	-20	7000	-0.1	480	100	0	0	550
S356	-10	-0.05	19	46	-0.3	0.5	-20	17	0.2	65	10	0	0	0
S365	-10*	-0.05	10	-10	-0.3	-0.1	-20	22	-0.1	31	10	0	0	0
S376	-10	-0.05	17	39	-0.3	0.2	-20	570	-0.1	27	10	0	0	0
S382	-10	-0.05	16	830	0.7	0.2	-20	380	-0.1	89	10	0	0	0
S387	-10	-0.08	5	610	0.3	0.2	-20	14300	-0.1	90	100	0	0	0
S398	-10	-0.05	4.6	-10	-0.3	-0.1	-20	145	-0.1	21	10	0	0	0
S403	-10	-0.1	17	590	1.6	0.2	-20	152000	-0.1	390	10	0	0	150
S417	-10	-0.05	17	-10	-0.3	0.4	-20	225*	0.2	66	100	0	0	0
S425	-10	-0.05	21	1100	-0.3	0.4	-20	13	-0.1	36	10	0	0	0
S428	-10	-0.05	9.1	180	-0.3	0.4	-20	20	-0.1	41	100	0	0	0
S435	-10	-0.05	12	-10	-0.3	0.2	-20	87	-0.1	28	10	0	0	0
S439	-10	-0.05	11	-10	-0.3	0.4	-20	210	0.1	42	100	0	0	0
S443	-10	-0.06	22	120	-0.3	0.3	-20	13	0.1	48	10	0	0	0
S449	-10	-0.1	19	720	1.1	0.2	-20	330	-0.1	180	100	0	0	0
S453	-10	-0.06	34	33	-0.3	0.3	-20	250	0.1	56	100	0	0	0
S458	-10	-0.08	13	1400	2.6	0.3	-20	4200	-0.1	590	100	0	0	0
S463	-10	-0.1	21	54	-0.3	0.3	-20	1100	-0.1	27	10	0	0	0
S468	-10	-0.07	4.9	740	0.9	0.2	-20	14700	-0.1	75	100	0	0	0
S475	-10	-0.09	53	4200	2.5	0.2	-20	3000*	-0.1	510	100	0	0	160
S482	-10	-0.1	6.4	4400	1.9	0.2	-20	17000	-0.1	220	10	0	0	300
S492	-10	-0.1	18	9000	3.3	0.5	-20	39000	-0.1	210	100	0	0	1400
S498	-10	-0.1	17	5700	-0.3*	-0.1	-20	180000	-0.1	1900	100	0	0	180
S505	-10	-0.05	6.6	23	-0.1	0.4	-20	18000	-0.1	85	100	0	0	0
S512	-10	-0.1	12	350	4.3	-0.1	-20	25600	-0.1	2200	100	0	0	440
S520	-10	-0.08	7.2	1900	3.3	0.2	-20	30500	-0.1	1100	100	0	0	140
S528	-10	-0.06	13	29	-0.3	0.09	-20	2100	-0.1	51	10	0	0	0
S533	-10	-0.05	14	-10	-0.3	0.1	-20	1600	-0.1	24	10	0	0	0
S537	-10	-0.04	17	-10	-0.3	0.1	-20	1700	0.1	33	100	0	0	0
S552	-10	-0.05	24	19*	-0.3	-0.1	-20	9.4	0.1	160	10	0	0	0
S560	-10	-0.1	38	92	-0.3	0.3	-20	5000	-0.1	800	10	0	0	64
S568	-10	-0.09	56	8200	-0.3	0.3	-20*	4000	-0.1	5800	100	0	0	760
S579	-10	-0.1	15	110	-0.3	0.3	-20	4200	0.1	330	10	0	0	40
S579D	-10	-0.05*	4.4	72*	0.3	-0.1*	-20*	530*	0.1	430	100	0	0	800

PURSL

Sample No.	EPA 6V	********** 7V	10V	11V	13V	14V	EPA 15V	********** 16V	17V	19V	23V	29V	EPA 30V	********** 32V	33V/C	33V/T
Units--)	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Dct.Lmt.-)	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
S046	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S047	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S052	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S068	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S069	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S070	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S071	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S134	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S143	0	0	0	2300	0	0	0	0	0	0	0	0	0	0	0	0
S144	0	1600	0	900	0	0	0	0	0	0	0	0	0	0	0	0
S145	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S151	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S163	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S336	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S346	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S352	0	2300	0	860	0	0	0	0	0	0	0	0	0	0	0	0
S356	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S365	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S376	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S382	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S387	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S398	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S403	0	250	0	82	0	0	0	0	0	0	0	0	0	0	0	0
S417	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S425	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S428	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S435	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S439	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S443	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S449	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S453	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S458	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S463	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S468	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S475	0	0	0	390	0	0	0	0	0	0	0	0	0	0	0	0
S482	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S492	0	1900	290	0	0	0	0	0	0	0	0	0	0	0	0	0
S498	0	140	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S505	0	70	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S512	0	0	0	950	0	0	0	0	0	0	0	0	0	400	0	0
S520	0	320	0	190	0	0	0	0	0	0	0	0	0	0	0	0
S528	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S533	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S537	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S552	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S560	0	300	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S568	0	3200	0	0	0	0	0	0	0	0	0	0	220	0	0	0
S579	0	400	0	0	0	0	0	0	0	0	61	0	0	0	0	0
S579D	0	0	0	0	0	0	0	0	0	0	3800	0	0	0	0	0

PURSL

Sample	**********		EPA	**********							EPA	**********		DILUTN.	**********	
No.	38V	44V	45V	46V	47V	48V	49V	50V	51V	85V	86V	87V	88V	FACTOR	21A	22A
Units--)	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	--)	ug/kg	ug/kg
Dct.Lmt.-)	10	10	10	10	10	10	10	10	10	10	10	10	10		25000	25000
S046	0	0	0	0	0	0	0	0	0	0	0	700	0	1	0	0
S047	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
S052	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
S068	1200	0	0	0	0	0	0	0	0	2200	1800	0	0	5	0	0
S069	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
S070	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0
S071	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
S134	11000	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0
S143	5700	0	0	0	0	0	0	0	0	1700	9000	3700	0	10	0	0
S144	0	2600	0	0	0	0	0	0	0	600	3400	1300	0	6.7	0	0
S145	100	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0
S150	300	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0
S151	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
S159	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
S163	0	0	0	0	0	0	0	0	0	0	34	0	0	0.5	0	0
S336	12	0	0	0	0	0	0	0	0	0	16	0	0	1	0	0
S346	0	730	0	0	0	0	0	0	0	0	0	0	0	1	0	0
S352	12500	0	0	0	0	0	0	0	0	4300	17600	5000	0	50	0	0
S356	190	0	0	0	0	0	0	0	0	57	210	0	0	1	0	0
S365	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
S376	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
S382	0	4430	0	0	0	0	0	0	0	0	0	0	0	1	0	0
S387	160	0	0	0	0	0	0	0	0	0	200	0	0	1	0	0
S398	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
S403	1000	660	0	0	0	0	0	0	0	400	3000	510	0	1	0	0
S417	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
S425	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
S428	0	0	0	0	0	0	0	0	0	290	0	0	0	1	0	0
S435	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
S439	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
S443	0	160	0	0	0	0	0	0	0	0	0	160	0	1	0	0
S449	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
S453	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
S458	1600	0	0	0	0	0	0	0	0	210	1700	500	0	1	0	0
S463	97	0	0	0	0	0	0	0	0	0	150	0	0	1	0	0
S468	630	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
S475	3700	0	0	0	0	0	0	0	0	530	4100	4200	0	1	0	0
S482	480	180	0	0	0	0	0	0	0	0	850	670	0	20	0	0
S492	0	0	0	0	0	0	0	0	0	4400	16000	8500	0	1	0	0
S498	730	0	0	0	0	0	0	0	0	120	1600	450	0	1	0	0
S505	280	0	0	0	0	0	0	0	0	0	380	0	0	1	0	0
S512	3000	0	0	0	0	0	0	0	0	610	0	2300	0	100	0	0
S520	1900	0	0	0	0	0	0	0	0	260	2500	420	0	100	0	0
S526	200	0	0	0	0	0	0	0	0	170	160	200	0	10	0	0
S533	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
S537	0	0	0	0	0	0	0	0	0	0	260	0	0	1	0	0
S552	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
S560	1000	0	0	0	0	0	0	0	0	340	2200	370	0	5	0	0
S568	12000	0	0	0	0	0	0	0	0	4400	16000	4000	0	10	0	0
S579	2000	0	0	0	0	0	0	0	0	400	2800	480	0	5	0	0
S579D	8400	0	0	0	0	0	0	0	0	2200	14000	4100	0	1	0	0

PURSL

Sample	*****	EPA	**********					EPA	******DILUTN.	**********				EPA	******
No.	24A	31A	34A	57A	58A	59A	60A	64A	65A	FACTOR	1B	5B	8B	9B	12B	16B
Units--)	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	--)	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Dct.Lmt.-)	25000	25000	25000	25000	25000	25000	25000	25000	25000		10000	10000	10000	10000	10000	10000
S046	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
S047	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
S052	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
S068	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0
S069	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
S070	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0
S071	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
S134	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0
S143	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0
S144	0	0	0	0	0	0	0	0	0	6.7	0	0	0	0	0	0
S145	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0
S150	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0
S151	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0
S159	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
S163	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0
S336	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
S346	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
S352	0	0	0	0	0	0	0	0	0	50	0	0	0	0	0	0
S356	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
S365	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
S376	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
S382	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
S387	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
S398	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
S403	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
S417	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
S425	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
S428	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
S435	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
S439	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
S443	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
S449	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
S453	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
S458	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
S463	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
S468	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
S475	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
S482	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0
S492	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
S498	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
S505	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
S512	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
S520	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
S528	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0
S533	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
S537	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
S552	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
S560	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0
S568	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0
S579	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0
S579D	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0

PURSL

Sample	**********				EPA	**********					EPA	**********				
No.	20B	25B	26B	27B	28B	35B	36B	37B	39B	40B	41B	42B	43B	52B	53B	54B
Units--)	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Dct.Lmt.-)	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000
S046	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S047	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S052	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S068	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S069	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S070	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S071	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S134	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S143	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S144	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S145	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S151	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S163	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S336	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S346	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S352	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S356	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S365	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S376	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S382	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S387	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S398	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S403	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S417	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S425	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S428	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S435	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S439	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S443	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S449	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S453	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S458	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S463	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S468	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S475	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S482	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S492	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S498	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S505	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S512	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S520	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S528	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S533	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S537	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S552	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S560	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S568	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S579	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S579D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

PURSL

Sample No.	EPA 55B	********** 56B	61B	62B	63B	66B	EPA 67B	********** 68B	69B	70B	71B	72B	EPA 73B	********** 74B	75B	76B
Units--)	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Dct.Lmt.-)	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000
S046	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S047	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S052	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S068	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S069	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S070	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S071	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S134	105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S143	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S144	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S145	0	0	0	0	0	0	0	0	0	0	0	55	0	0	0	0
S150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S151	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S163	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S336	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S346	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S352	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S356	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S365	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S376	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S382	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S387	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S398	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S403	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S417	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S425	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S428	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S435	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S439	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S443	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S449	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S453	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S458	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S463	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S468	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S475	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S482	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S492	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S498	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S505	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S512	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S520	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S528	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S533	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S537	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S552	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S560	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S568	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S579	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S579D	12000	0	0	0	0	0	0	0	4000	0	0	0	0	0	0	0

PURSL

Sample	**********		EPA	**********					
No.	77B	78B	79B	80B	81B	82B	83B	84B	129B
Units--)	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Dct.Lmt.-)	10000	10000	10000	10000	10000	10000	10000	10000	ND
S046	0	0	0	0	0	0	0	0	0
S047	0	0	0	0	0	0	0	0	0
S052	0	0	0	0	0	0	0	0	0
S068	0	0	0	0	0	0	0	0	0
S069	0	0	0	0	0	0	0	0	0
S070	0	0	0	0	0	0	0	0	0
S071	0	0	0	0	0	0	0	0	0
S134	0	0	0	0	45	0	0	0	0
S143	0	0	0	0	0	0	0	0	0
S144	0	0	0	0	0	0	0	0	0
S145	0	55	0	0	0	0	0	0	0
S150	0	0	0	0	0	0	0	0	0
S151	0	0	0	0	0	0	0	0	0
S159	0	0	0	0	0	0	0	0	0
S163	0	0	0	0	0	0	0	0	0
S336	0	0	0	0	0	0	0	0	0
S346	0	0	0	0	0	0	0	0	0
S352	0	0	0	0	0	0	0	0	0
S356	0	0	0	0	0	0	0	0	0
S365	0	0	0	0	0	0	0	0	0
S376	0	0	0	0	0	0	0	0	0
S382	0	0	0	0	0	0	0	0	0
S387	0	0	0	0	0	0	0	0	0
S398	0	0	0	0	0	0	0	0	0
S403	0	0	0	0	0	0	0	0	0
S417	0	0	0	0	0	0	0	0	0
S425	0	0	0	0	0	0	0	0	0
S428	0	0	0	0	0	0	0	0	0
S435	0	0	0	0	0	0	0	0	0
S439	0	0	0	0	0	0	0	0	0
S443	0	0	0	0	0	0	0	0	0
S449	0	0	0	0	0	0	0	0	0
S453	0	0	0	0	0	0	0	0	0
S458	0	0	0	0	0	0	0	0	0
S463	0	0	0	0	0	0	0	0	0
S468	0	0	0	0	0	0	0	0	0
S475	0	0	0	0	0	0	0	0	0
S482	0	0	0	0	0	0	0	0	0
S492	0	0	0	0	0	0	0	0	0
S498	0	0	0	0	0	0	0	0	0
S505	0	0	0	0	0	0	0	0	0
S512	0	0	0	0	0	0	0	0	0
S520	0	0	0	0	0	0	0	0	0
S528	0	0	0	0	0	0	0	0	0
S533	0	0	0	0	0	0	0	0	0
S537	0	0	0	0	0	0	0	0	0
S552	0	0	0	0	0	0	0	0	0
S560	0	0	0	0	0	0	0	0	0
S568	0	0	0	0	0	0	0	0	0
S579	0	0	0	0	0	0	0	0	0
S579D	0	0	0	0	0	0	0	0	0

PURSL

Sample No.	********* GCMS Characterization **********
Units--)	ug/kg
Dct.Lmt.-)	
S046	cyclohexane(1048);oxetane,3,3-dimethyl-(686);
S047	boricacid(H3B03),trimethylester(1459);
S052	methane,isothiocyanato-(2440);pentane,3-bromo-(850);
S068	3-heptanone,4-methyl-(1724);cyclohexane,methyl-(2101);
S069	***2,5-cyclohexadiene-1,4-dione,2,3-dimethyl-(4E4);
S070	thiirane-(2433);propanoicacid,2-methyl-,methylester-(1433);
S071	butane,2,2-dimethyl-(15)***
S134	propanoicacid,methylester-(33433);
S143	propanoicacid,methylester-(9864);
S144	propanoicacid,methylester-(5662);
S145	propanoicacid,methylester-(2384);
S150	pentane,2-bromo-(808)
S151	***peroxide, dimethyl-(3E3);
S159	***cyclobutanone, 2,2,3-trimethyl-(9E3);1-hexyn-3-ol-(9E3);
S163	none
S336	bicyclo[3.3.1]nonane-(730);cyclohexane,1,2,3-trimethyl-(136);
S346	***sulfur,mos.(S8)-(2E4);'17-pentatriacontene-(1E5)
S352	hexane-(1901);cyclohexane,methyl-(10969);
S356	pentane,2,2,3,4-tetramethyl-(76);
S365	***1,2-benzenedicarboxylicacid,butyl2-methylpropylester-(8E4);
S376	***cyclopentane,1,1,3-trimethyl-(7E3);
S382	***cyclopentane,1,1,3-trimethyl-(6E3);
S387	2-butanone,3-methyl-(686);cyclohexane,1,1,3-trimethyl-(1390);
S398	***cyclopentane,1,1,3-trimethyl-(6E3);
S403	***hexane,2,5-dimethyl-(1E5);hexane,2,3,4-trimethyl-(1E5);
S417	2-butanone,3-methyl-(760);butanoicacid,2-propenylester-(210)
S425	***1,6-hexanediol-(1E4);2-cyclohexen-1-ol-(3E3);
S428	2-butanone,3-methyl-(801);
S435	***1,6-hexanediol-(1E4);2-cyclohexen-1-ol-(2E3);
S439	1-butanol-(152);2-butanone,3-methyl-(721);
S443	cyclohexane,methyl-(94);pentane,2,2,3,4-tetramethyl-(57);
S449	2-butanone,3-methyl-(760);
S453	1-butanol-(172);propanoicacid,2-methyl-,methylester-(726);
S458	pentane,3-bromo-(746);butane,2,2,-dimethyl-(410);
S463	pentane,2,2,3,4-tetramethyl-(37);
S468	hexane-(1078);butanoicacid,methylester-(269);
S475	2-butanone,3-methyl-(1201);cyclohexane,1,1,3-trimethyl-(1069);
S482	cyclohexane,methyl-(56);
S492	pentane,2-methyl-(4335);cyclohexane,methyl-(16165);
S498	aceticacid,methylester(46836);butane,2-chloro-(9215);
S505	2-butanone,3-methyl-(778);butanoicacid,methylester-(277);
S512	butane,2-chloro-(11195);
S520	oxetane,3,3-dimethyl-(4541);
S528	cyclohexane,methyl-(30);pentane,2,2,3,4-tetramethyl-(28);
S533	***heptanal-(1E4);nonanoicacid-(2E4);
S537	none
S552	***nitrousacid,3-methylbutylester-(2E3)
S560	none
S568	cyclohexane,methyl-(11549);pentane,2,2,3,4-tetramethyl-(8324);
S579	***decane-(3E6);
S579D	none

PURSL

Sample No.	********* GCMS Characterization **********
Units--)	ug/kg
Dct.Lmt.-)	
S046	hexane(1702);cyclohexane,methyl-(5633);
S047	3-heptanone,4-methyl-(1199);pentane,2,2,3,4-tetramethyl-(376);
S052	2-pentene,4,4-dimethyl-,(z)-(282);
S068	1-pentanol,3,4-dimethyl-(346);
S069	1,1'-biphenyl,4-fluoro-(5E4);octane,2,3,7-trimethyl-(7E4);
S070	cyclohexane,methyl-(363);propane,2,2-dimethyl-(192);
S071	
S134	propanoicacid,2-methyl-,methylester-(18197);
S143	propanoicacid,2-methyl-,methylester-(4115);
S144	propanoicacid,2-methyl-methylester-(2535);
S145	propanoicacid,2-methyl-,methylester-(1614);
S150	***decane,2,3,8-trimethyl-(5E5);
S151	cyclohexanone, phenylhydrazone-(1E4);
S159	17-pentatriacontene-(1E5)
S163	
S336	cyclopropane,1,2-dimethyl-3-pentyl-,(166);
S346	
S352	1-pentanol,3,4-dimethyl-(3005);
S356	cyclohexane,1,1,3-trimethyl-(405);
S365	decanoicacid-(2E4);2-propanol,2-methyl-(3E4);
S376	2-cyclohexen-1-ol-(3E3);1-propene,3,3,3-trichloro-(4E3);
S382	chlorineoxide(clo2)-(5E2);octanoicacid-(5E3);
S387	pentalene,octahydro-2-methyl-(2084);
S398	2-cyclohexen-1-ol-(3E3);ethanol,2-(2-methoxyethoxy)-(7E3);
S403	2-hexanol,2-methyl-(3E5);naphthalene,2-methyl-(5E4);
S417	***cyclopentane,1,1,3-trimethyl-(7E3);
S425	1h-imidazole-(5E3);propanoicacid,1,1-dimethylethylester-(8E3);
S428	butanoicacid,3-methyl-2-oxo-,methyles-(220);
S435	1h-imidazole-(5E3);octanoicacid-(1E4);
S439	butanoicacid,2-propenylester-(207)
S443	cyclohexane,ethyl-(104);cyclohexane,1,1,3-trimethyl-(211);
S449	2-butenoicacid,2-methoxy-,methylester-(239);
S453	butanoicacid,2-propenylester-(208);
S458	pentane,2,2,3,4-tetramethyl-(629);
S463	cyclohexane,1,1,3-trimethyl-(73);
S468	3,4-hexanedione,2,2,5,5-tetramethyl-(316);
S475	cyclohexane,1-ethyl-2-methyl-,cis-(1142);hexane,1-bromo-(566);
S482	furan,tetrahydro-2,4-dimethyl-,trans-(19);
S492	hexane,4-ethyl-2,2-dimethyl-(2855);
S498	2-butanone,3-methyl-(1222);
S505	pentane,2,2,3,4-tetramethyl-(397);cyclohexanemethanol-(1759);
S512	propanoicacid,2-methyl-,methylester-(3117);
S520	propanoicacid,2-methyl-,methylester-(2079);
S528	3-hexene,2,2-dimethyl-,(z)-(29);
S533	sulfur.mol.(S8)-(2E4);cycloheptanone,2-methyl-(8E3);
S537	
S552	
S560	
S568	1-pentyn-3-ol,4-methyl-(4680);
S579	decane,6-ethyl-2-methyl-(3E6);
S579D	

PURSL

Sample No.	********* GCMS Characterization **********
Units--)	ug/kg
Dct.Lmt.-)	
S046	cyclobutanone,2,3,3-trimethyl-(741);
S047	cyclopropanemethanol,2,2,3,3-tetramet-(1517);
S052	pentane,2,2,3,4-tetramethyl-(415);
S068	pentane,2,2,3,4-tetramethyl-(1343);cyclohexane,ethyl-(3624);
S069	undecane,2-methyl-(8E4);undecane,2-methyl-(1E5);
S070	1-pentene,4-methyl-(4353);
S071	
S134	propane,2,2-dimethyl-(15581);
S143	aceticacid,methylester-(2355);cyclohexane,methyl-(7266);
S144	butane,1-bromo-(1719);aceticacid,methylester-(1374);
S145	cyclopentane,1,1-dimethyl-(311);
S150	decane,3-bromo-(4E5);undecane,2,10-dimethyl-(6E5);
S151	17-pentatriacontene-(3E4)
S159	
S163	
S336	cyclohexane,cyclopropyl-(366);cyclopentane,pentylidene-(302);
S346	
S352	pentane,2,2,3,4-tetramethyl-(9738);
S356	cyclohexane,1-ethyl-2-methyl-,cis-(127);
S365	17-pentatriacontene-(2E5);2-pentene,5-bromo-2,3-dimethyl-(1E4);
S376	butane,1,1'-oxybis-(4E3);ethane,1,1,1,2-tetrafluoro-(1E3);
S382	propanoicacid,1,1-dimethylethylester-(5E3);
S387	1-heptene,3-methyl-(433);
S398	1-propene,3,3,3-trichloro-(3E3);octanoicacid-(1E4);
S403	hexane,2,3,4-trimethyl-(8E4);
S417	1,2-butadiene,3-methyl-(5E3);propanoicacid,2,2-dimethyl-(1E4);
S425	1-pentanol,2,2-dimethyl-(6E3);hexane,2,4-dimethyl-(5E3);
S428	cyclohexane,1,1,3-trimethyl-(2825);1-hexanol,4-methyl-(277);
S435	propanoicacid,1,1-dimethylethylester-(9E3);
S439	***3-decene,2,2-dimethyl-,(E)-(1E4);
S443	isooctanol-(44);cyclohexane,1,2,3-trimethyl-(57);
S449	pentane,2,2,3,4-tetramethyl-(233);bicyclo[3.3.1]nonane-(3273);
S453	cyclopentane,1,1,3-trimethyl-(225);
S458	cyclohexane,1,1,3-trimethyl-(7004);
S463	cyclopropane,1-methyl-2-(3-methylpent-(20);
S468	cyclohexane,1,1,3-trimethyl-(6626);d3-phenol(ss)-(155);
S475	cyclopentane,2-ethyl-1,1-dimethyl-(1176);
S482	cyclohexane,1,1,3-trimethyl-(51);benzene,1,3-dimethyl-(108);
S492	cyclopentane,1,1,3-trimethyl-(4482);
S498	propanoicacid,2-methyl,methylester(1531);
S505	cyclohexane,1,2,3-trimethyl-(832);
S512	butane,1-bromo-(2473);butanoicacid,methylester-(2381);
S520	butanoicacid,methylester-(1524);
S528	cyclohexane,1,1,3-trimethyl-(131);
S533	17-pentatriacontene(2E5);1-pentanol,4-methyl-2-propyl-(2E4)
S537	
S552	
S560	
S568	cyclohexane,1,1,3-trimethyl-(16554);
S579	decane,2,3,7-trimethyl-(3E6);octane,2,7-dimethyl-(2E6);
S579D	

PURSL

Sample No.	********* GCMS Characterization **********
Units--)	ug/kg
Dct.Lmt.-)	
S046	cyclopentane,1,1-dimethyl-(1691);
S047	cyclohexane,1,1,3-trimethyl-(701);
S052	cyclohexane,(1-propenyl)-(1116);bicyclo[3.3.1]nonane-(9418);
S068	cyclohexane,1,1,3-trimethyl-(3580);
S069	decane,2,3,5-trimethyl-(1E5);hexadecane(9E4);heptadecane(1E5);
S070	cyclohexane,1,4-dimethyl-,trans-(2304);
S071	
S134	cyclohexane,1,1,3-trimethyl-(47453);
S143	cyclohexane,ethyl-(3270);cyclohexane,1,1,3-trimethyl-(6828);
S144	cyclohexane,methyl-(3017);5-hexenenitrile,2-methyl-(10689);
S145	butanoicacid,2-methyl-,methylester-(863);
S150	dodecane2-cyclohexyl-,2-cyclohexyl-(1E6);decane,3-bromo-(1E6);
S151	
S159	
S163	
S336	3-octene,2,6-dimethyl-(1914);pentane,2,2,3,3-tetramethyl-(286)
S346	
S352	cyclopentane,1-methyl-2-(2-propenyl)-(9603);
S356	cyclooctane,1,4-dimethyl-,trans-(157);
S365	butanal-(2E4)
S376	phenol,4-(1,1,3,3-tetramethylbutyl)-(4E3);nonanoicacid-(9E3);
S382	1,9-nonanediol-(4E3);octane,2,7-dimethyl-(3E3);
S387	cyclopropane,1-methyl-2-(3-methylpent-(547);
S398	butane,1,1'-[methylenebis(oxy)bis-(4E3);
S403	hexane,3,3-dimethyl-(2E5);
S417	1,3-propanediamine-(5E3);1,9-nonanediol-(6E3);
S425	octane,2,7-dimethyl-(6E3);
S428	cyclohexane,1,2,3-trimethyl-(892);
S435	1,9-nonanediol-(8E3);octane,2,7-dimethyl-(8E3);
S439	2-cyclohexen-1-ol-(6E3);ethanol,2-(2-methoxyethoxy)-(2E4);
S443	cyclohexane,1,2,3-tremethyl-,(1.alpha-(75);
S449	cyclohexane,1-ethyl-2-methyl-,cis-(732);
S453	cyclohexane,1,1,3-trimethyl-(4889);cyclopentene,1-methyl-(1811);
S458	cyclohexane,1-ethyl-2-methyl-,cis-(1079);
S463	cyclohexane,propyl-(48);1-decene-(303);
S468	cyclohexane,1-ethyl-2-methyl-,cis-(1443);
S475	benzene,1,3-dimethyl-(6904);benzene,1,2-dimethyl-(6538);
S482	1-decene(268);1-pentanol,4-methyl-2-propyl-(303);
S492	pentane,2,2,3,4-tetramethyl-(8581);
S498	propane,2,2-dimethyl-(1786);butanoicacid,methylester(1188);
S505	cyclooctane,1,4-dimethyl-,trans-(800);cyclohexane,propyl-(2275);
S512	butanoicacid,2-methyl-,methylester-(3238);
S520	butanoicacid,2-methyl-,methylester-(1533);
S528	cyclohexane,1,2,3-trimethyl-,(1.alpha-(39);
S533	
S537	
S552	
S560	
S568	cyclohexane,1-ethyl-2-methyl-,cis-(4642);
S579	undecane,3,8-dimethyl-(3E6);
S579D	

PURSL

Sample No.	********* GCMS Characterization **********
Units--)	ug/kg
Dct.Lmt.-)	
S046	pentane,2,2,3,4-tetramethyl-(4619);
S047	cyclopentane,1,1,3,4-tetramethyl-,cis-(552);
S052	cyclohexane,1-ethyl-2-methyl-,cis-(2094);
S068	cyclohexane,1-ethyl-2-methyl-,cis-(1240);3-decyne-(1070);
S069	2-hexene,1-(pentyloxy)-,(E)-(3E4);
S070	1-pentyne,3-ethoxy-3-ethyl-(319);
S071	
S134	hexanoicacid,methylester-(24538);benzene,1,2-dimethyl-(34490);
S143	hexanoicacid,methylester-(11756);benzene,1,3-dimethyl-(13660);
S144	cyclobutane,1-cyclopropyl-2-ethenyl-(4339);
S145	propanoicacid,anhydride-(1055);heptane,3-methyl-(9808);
S150	1-nonene,4,6,8-trimethyl-(6E5);
S151	
S159	
S163	
S336	***heptane,5-ethyl-2-methyl-(8E4);
S346	
S352	cyclohexane,1,1,3-trimethyl-(30835);
S356	benzene,1,2-dimethyl-(572);benzene,1,2-dimethyl-(568);
S365	
S376	undecane6-cyclohexyl-,6-cyclohexyl-(1E5);
S382	phenol,4-(1,1,3,3-tetramethylbutyl)-(6E3);
S387	cyclohexane,propyl-(1872);
S398	cyclopentane,1,1,3-trimethyl-(2E3);
S403	benzene,(methylsulfonyl)-(2E4);
S417	ethane,chloro-(5E3);hexane,3,3-dimethyl-(1E4);
S425	4-octene,(E)-(4E3);octane,2,7-dimethyl-(6E3);
S428	cyclohexane,1,2,3-trimethyl-,(1.alpha-(831);
S435	phenol,4-(1,1,3,3-tetramethylbutyl)-(7E3);
S439	octanoicacid-(2E4);1,9-nonanediol-(6E3);
S443	cyclohexane,1-ethyl-4-methyl-,trans-(153);
S449	cyclooctane,1,4-dimethyl-,trans-(904);
S453	decane,2,4-dimethyl-(4900);cyclohexane,1-ethyl-1-methyl-(305);
S458	cyclopropane,1-methyl-2-(3-methylpent-(1480);
S463	isooctane,(ethenyloxy)-(35);benzene,1-ethyl-3-methyl-(58);
S468	cyclooctane,1,4-dimethyl-,trans-(1426);
S475	cyclohexane,1,1,2-trimethyl-(5085);isoctane,(ethenyloxy)-(1751)
S482	4-decene,7-methyl-,(e)-(25);benzene,1-ethyl-3-methyl-(59);
S492	furan,tetrahydro-2,4-dimethyl-,trans-(4667);
S498	cyclohexane,1,1,3-trimethyl-(2519);
S505	1,1'-bicyclopentyl(643);3-octene,2,6-dimethyl-(5376);
S512	pentanoicacid,methylester-(21826);
S520	pentanoicacid,methylester-(17516);
S528	cyclohexane,1-ethyl-4-methyl-,trans-(70);
S533	
S537	
S552	
S560	
S568	cyclohexane,(1-methylethyl)-(12818);octane(10539);
S579	undecane,3,8-dimethyl-(4E6);
S579D	

PURSL

Sample No.	********* GCMS Characterization **********
Units--)	ug/kg
Dct.Lmt.-)	
S046	cyclopentane,1-methyl-2-(2-propenyl)-(4146);
S047	cyclooctane,1,4-dimethyl-,trans-(485);
S052	cyclopropane,1,2-dimethyl-3-pentyl-(2539);
S068	cyclooctane,1,4-dimethyl-,trans-(1858);
S069	nonane,3-methyl-5-propyl-(1E5);
S070	cyclohexane,1,2,3-trimethyl-(313);
S071	
S134	benzene,1,2-dimethyl-(14815);3-octene,2,6-dimethyl-(36802);
S143	benzene,1,2-dimethyl-(11938);3-octene,2,6-dimethyl-(17360);
S144	1-pentene,3-methyl-(24504);hexanoicacid,methylester-(7672);
S145	thiirane,2,3-dimethyl-,trans-(234);
S150	tridecane7-cyclohexyl-,7-cyclohexyl-(1E6);
S151	
S159	
S163	
S336	naphthalene,decahydro-,trans-(4E4);
S346	
S352	cyclohexane,1-ethyl-2-methyl-,cis-(8741);
S356	cyclohexane,1,1,2-trimethyl-(671);cyclohexene,1-butyl-(171);
S365	
S376	1,7-octanediol,3,7-dimethyl-(2E4);
S382	octane,2,4,6-trimethyl-(5E3);
S387	1,3-cyclopentadiene,5-(1-methylethyli-(677);
S398	1,9-nonanediol-(4E3);
S403	octane,2,7-dimethyl-(1E5);
S417	hexane,3,3-dimethyl-(7E3);octane,2-bromo(6E3);
S425	hexadecanoicacid-(4E4);cyclohexaneethanol(3E3);
S428	cyclohexane,1-ethyl-4-methyl-,trans-(2417);
S435	phenol,nonyl-(7E3);octane,2,7-dimethyl-(9E3);
S439	phenol,4-(1,1,3,3-tetramethylbutyl)-(8E3);
S443	3-octene,2,6-dimethyl-(268);4-decene,7-methyl-,(e)-(85);
S449	cyclohexane,propyl-(2664);1,1'-bicyclopentyl-(926);
S453	isooctanol-(415);1-azabicyclo[3.1.0]hexane-(1052);
S458	benzene,1,3-dimethyl-(3787);benzene,1,2-dimethyl-(3986);
S463	benzene,1-ethyl-2-methyl-(48);benzene,4-ethyl-1,2-dimethyl-(40);
S468	cyclohexane,propyl-(3723);benzene,1,2-dimethyl-(1769);
S475	***benzene,1,3-dimethyl-(4E4);
S482	nonane(107);butane,2,2-dimethyl-(107);
S492	cyclohexane,1,1,3-trimethyl-(26529);
S498	hexanoicacid,methylester-(1390);benzene,1,2-dimethyl-(1325);
S505	1-pentanol,4-methyl-2-propyl-(1337)
S512	hexanoicacid,methylester-(6488);benzene,1,2-dimethyl-(6077);
S520	2(1h)-pyridinone,3-hydroxy-(6187);
S528	3-octene,2,6-dimethyl-(303);isooctane,(ethenyloxy)-(58);
S533	
S537	
S552	
S560	
S568	cyclooctane,1,4-dimethyl-,trans-(4930);
S579	undecane,2,10-dimethyl-(3E6);
S579D	

PURSL

Sample No.	********* GCMS Characterization **********
Units--)	ug/kg
Dct.Lmt.-)	
S046	cyclohexane,1,1,3-trimethyl-(14079);1-pentene,4-methyl-(1418);
S047	cyclohexane,(1-methylethyl)-(938);
S052	cyclohexane,propyl-(8183);1,1'-bicyclopentyl-(2658);
S068	benzene,1,3-dimethyl-(2671);benzene,1,3-dimethyl-(2858);
S069	undecane,2,10-dimethyl-(6E4);
S070	hexanoicacid,methylester-(1717);cyclohexane,propyl-(933);
S071	
S134	benzene,propyl-(10490);1-nonene,4,6,8-trimethyl-(16742)
S143	isooctane,(ethenyloxy)-(6449)
S144	benzene,1,2-dimethyl-(5318);benzene,1,2-dimethyl-(4319);
S145	hexanoicacid,4-methyl-,methylester-(223);
S150	1-nonene,4,6,8-trimethyl-(1E6);
S151	
S159	
S163	
S336	cyclohexane,1,2-diethyl-1-methyl-(2E4);
S346	
S352	cyclooctane,1,4-dimethyl-,trans-(11390);
S356	heptane,3,3-dimethyl-(1439)
S365	
S376	cyclooctanemethanol,.alpha.,.alpha.-dimethyl-(3E4)
S382	hexane,3,3-dimethyl-(6E3);decanoicacid-(3E4);
S387	3-octene,2,6-dimethyl-(4671);
S398	1,1'-bicyclopentyl-(2E3);
S403	phosphoramidousdifluoride,dimethyl-(4E4);
S417	hexadecanoicacid-(5E4);
S425	octane,2,7-dimethyl-(4E3);nonanoicacid-(1E4);
S428	bicyclo[2.2.1]heptane,2-ethyl-(411);
S435	hexadecanoicacid-(5E4);
S439	phenol,2-(1,1-dimethylethyl)-(8E3);
S443	benzene,1-ethenyl-2-methyl-(28);hexane,2,4-dimethyl-(282);
S449	3-octene,2,6-dimethyl(6442);1-pentanol,4-methyl-2-propyl-(1280)
S453	4-penten-1-ol,3-methyl-(315);3-octene,2,6-dimethyl-(2178)
S458	3-octene,2,6-dimethyl-(7992);hexane,3-methyl-(2602)
S463	1-azabicyclo[3.1.0]hexane-(135);1-azabicyclo[3.1.0]hexane-(135);
S468	3-octene,2,6-dimethyl-(8358);
S475	cyclohexene,6-(1,3-butadienyl)-1,5,5-trimethyl-(5E4);
S482	1,3-cyclopentadiene,5-(1-methylpropyl(22)
S492	cyclohexane,1-ethyl-2-methyl-,cis-(5127);octane-(14927);
S498	cyclohexane,1,2,3-trimethyl-(2138);1-hexanol,2-ethyl-(1067)***
S505	***propanoicacid,3-cyano-,methylester-(7E4);
S512	benzene,1,2-dimethyl-(5126);cyclohexane,1,2,3-trimethyl-(5811);
S520	hexane,2,4,4-trimethyl-(55783);
S528	benzene,1-ethyl-2-methyl-(89);
S533	
S537	
S552	
S560	
S568	cyclohexane,1-ethyl-4-methyl-,trans-(17415);
S579	nonane,5-methyl-5-propyl-(3E6);
S579D	

PURSL

Sample No.	********* GCMS Characterization **********
Units--)	ug/kg
Dct.Lmt.-)	
S046	cyclohexane,1-ethyl-2-methyl-,cis-(4266);
S047	3-octene,2,6-dimethyl-(3182);1-hexene,2,5,5-trimethyl-(973)
S052	3-octene,2,6-dimethyl-(19780);hexane,3-ethyl-4-methyl-(4529)
S068	cyclohexane,1,1,2-trimethyl-(9232);hexane,3-methyl-(10993)
S069	undecane,2,10-dimethyl-(8E4);
S070	cyclohexane,1,2,4-trimethyl-,(1.alpha(2942);
S071	
S134	***benzene,1-ethyl-4-methyl-(1E5);hexane,2,4-dimethyl-(3E5);
S143	***decane,2,4-dimethyl-(3E5);undecane-(2E5);
S144	4-decene-(5503);benzene,propyl-(5739);
S145	hexanoicacid,methylester-(3199);3-heptene,4-ethyl-(488);
S150	1-nonene,4,6,8-trimethyl-(1E6);
S151	
S159	
S163	
S336	1,4-butanediol,2,3-bis(methylene)-(2E4);
S346	
S352	benzene,1,3-dimethyl-(24578);benzene,1,3-dimethyl-(33142);
S356	***heptane,2,4-dimethyl-(5E4);hexane,3-methyl-(3E4);
S365	
S376	
S382	heptadecane,2,6,10,15-tetramethyl-(5E3);
S387	1-pentanol,4-methyl-2-propyl-(1172)
S398	hexadecanoicacid-(2E4);
S403	nonane,2-methyl-(1E5);decane,3-brom(2E5);
S417	1-pentanol,4-methyl-2-propyl-(2E3);
S425	nonanamide-(9E3);
S428	cyclohexane,1,2,3-trimethyl-(4521);
S435	octane,2,7-dimethyl-(5E3);
S439	octane,2,7-dimethyl-(9E3);hexadecanoicacid-(5E4);
S443	octane,2,3,7-trimethyl-(303)
S449	***2-pentanone,4-hydroxy-4-methyl-(3E4);1,6-hexanediol-(2E4);
S453	***decanoicacid-(6E4);undecane,3,8-dimethyl-(7E4);
S458	***naphthalene,2-methyl-(2E5);octane,2,4,6-trimethyl-(2E5);
S463	octane,2,3,7-trimethyl-(150)
S468	bicyclo[3.1.1]heptane,2,6,6-trimethyl-(2511)
S475	hexane,2,4-dimethyl-(1E5);1-hexanone,5-methyl-1-phenyl-(1E5);
S482	***nonane,2-methyl-5-propyl-(8E4);octane,5-ethyl-2-methyl-(8E4);
S492	cyclooctane,1,4-dimethyl-,trans-(6302);
S498	
S505	undecane,2-methyl-(6E4);decane,2,3,6-trimethyl-(1E5);
S512	hexane,2,2,3,3-tetramethyl-(2082)
S520	1,3-dioxolane,2-ethenyl-2-methyl-(2053);
S526	cyclopentane,1,1,3-trimethyl-(49);octane,2,6-dimethyl-(276);
S533	
S537	
S552	
S560	
S568	benzene,1,3-dimethyl-(14530);heptane,2,3,6-trimethyl-(4456);
S579	1-pentanol,2-ethyl-4-methyl-(5E6);
S579D	

PURSL

Sample No.	********* GCMS Characterization **********
Units-->	ug/kg
Dct.Lmt.->	
S046	cyclopropane,1-methyl-2-pentyl-(4570);
S047	***1-pentanol,2-ethyl-4--methyl-(1E6);
S052	***undecane,4,6,-dimethy-(6E4);
S068	***sulfur,mol.(S8)-(8E5);octane,2,7-dimethyl-(1E5)
S069	octane,2,7-dimethyl-(1E5);
S070	isooctane,(ethenyloxy)-(4983)
S071	
S134	pentane,2,3,4-trimethyl-(2E5);octane,1-bromo-(2E5);
S143	hexane,3,3-dimethyl-(8E5);hexane,3,3-dimethyl-(1E6);
S144	heptane,5-ethyl-2-methyl-(46382)
S145	cyclopropane,1,2-dimethyl-3-pentyl-,(3564)
S150	1-nonene,4,6,8-trimethyl-(1E6);
S151	
S159	
S163	
S336	heptane,2,4-dimethyl-(9E4);1-dodecyne-(4E4);
S346	
S352	3-octene,2,6-dimethyl-(55703);
S356	heptane,2,4-dimethyl-(5E4);heptane,2,4-dimethyl-(5E4);
S365	
S376	
S382	nonanoicacid-(5E3);
S387	***octane,2,7-dimethyl(2E5);decane,3-bromo-(2E5);
S398	undecane6-cyclohexyl-,6-cyclohexyl-(1E5);
S403	decane,3-bromo-(9E4);sulfur,mol.(S8)-(1E6);
S417	sulfur,mol.(S8)-(1E5);decanoicacid-(1E4);
S425	1,1-dodecanediol,diacetate-(5E3);
S428	1,4-butanediol,2,3-bis(methylene)-(291)
S435	octane,2,7-dimethyl-(6E3);
S439	octane,2-bromo-(7E3);nonanoicacid-(2E4);
S443	***octane,2,3,7-trimethyl-(1E5);
S449	2-cyclohexen-1-ol-(1E4);cyclohexanemethanol-(2E3);
S453	butane,2,2'-[methylenebis(oxy)]bis[2-methyl-(4E4);
S458	decanoicacid-(2E5);undecane,3,8-dimethyl-(2E5);
S463	***2,5-cyclohexadiene-1,4-dion,2,3-dimethyl-(6E4);
S468	***silane,tetraethyl-(9E4);octane,5-ethyl-2-methyl-(5E4);
S475	benzene,4-ethenyl-1,2-dimethyl-(3E4);
S482	octane,2-bromo-(7E4);heptadecane-(1E5);nonane,2-methyl-(6E4);
S492	benzene,1,3-dimethyl-(17618);benzene,1,2-dimethyl-(16239);
S498	
S505	nonanoicacid-(1E5);decane,2,3,6-trimethyl-(1E5);
S512	***undecane,2,4-dimethyl-(1E5);undecane,2,4-dimethyl-(2E5);
S520	benzene,1,2-dimethyl-(4256);benzene,1,4-dimethyl-(2883);
S528	1,3-cyclopentadiene,5-(1-methylpropyl-(74)
S533	
S537	
S552	
S560	
S568	1,1'-bicyclopentyl-(4431);4-decene-(24217);
S579	undecane,3,8-dimethyl-(5E6);
S579D	

PURSL

Sample No.	********* GCMS Characterization **********
Units--)	ug/kg
Dct.Lmt.-)	
S046	cyclohexane,1-ethyl-4-methyl-,trans-(12492);
S047	cyclopentane,(2-hexyloctyl)-(5E5);
S052	decane,2-methyl-(2E5);tridecane(1E5);
S068	
S069	1-pentanol,4-methyl-2-propyl-(3E5);
S070	***1-pentanol,2-ethyl-4-methyl-(7E4);undecane,4,6-dimethyl-(6E5);
S071	
S134	1-nonene,4,6,8-trimethyl-(5E5);undecane-(1E6);
S143	1-pentanol,4-methyl-2-propyl-(9E5);
S144	***thiophene,2-bromo-(3E5);1-nonene,4,6,8-trimethyl-(4E5);
S145	***octacosane-(1E5);
S150	1-nonene,4,6,8-trimethyl-(1E6);
S151	
S159	
S163	
S336	ethanedione,(4-methylphenyl)phenyl-(2E4);
S346	
S352	1-pentanol,4-methyl-2-propyl-(19234)
S356	octane,2,6-dimethyl-(4E4);hexane,3,3-dimethyl-(6E4);
S365	
S376	
S382	pentanamide,4-methyl-(9E3);
S387	undecane,2,10-dimethyl-(3E5);
S398	1,2,3,4-cyclopentantetrol,(1.alpha,2.beta,3.bet,4.alp)-(6E3)
S403	decane,3-bromo-(1E5);decane,3,8-dimethyl-(4E5);
S417	nonanamide-(3E4);
S425	undecane6-cyclohexyl-,6-cyclohexyl-(3E5);
S428	***heptanal-(1E5);decane-(2E5);
S435	nonanoicacid-(2E4);
S439	1-pentanol,4-methyl-2-propyl-(1E4);
S443	decanoicacid-(9E4);decane,2,3,5-trimethyl-(8E4);
S449	furan,tetrahydro-2,4-dimethyl-,trans-(7E3);
S453	pentanamide,4-methyl-(9E4);
S458	phenanthrene,2,3-dimethyl-(1E5);
S463	undecane,2-methyl-(1E5);undecane,2-methyl-(2E5);
S468	octane,2,3,7-trimethyl-(1E5);nonanoicacid-(1E5)
S475	undecane,5-ethyl-(3E5);
S482	undecane,3,8-dimethyl-(1E5);cyclohexane,2-propenyl-(4E4);
S492	cyclohexane,1,1,2-trimethyl-(27220);
S498	
S505	undecane,3,5-dimethyl-(1E5);
S512	naphthalene,2-methyl-(6E4);undecane,2,4-dimethyl-(8E4);
S520	3-octene,2,6-dimethyl-(7198);
S528	***octane,2,7-dimethyl-(2E3);
S533	
S537	
S552	
S560	
S568	cyclohexane,1,1,2-trimethyl-(23124);benzene,propyl-(10860);
S579	1-pentanol,2-ethyl-4-methyl-(3E6);
S579D	

PURSL

Sample No.	********* GCMS Characterization **********
Units--)	ug/kg
Dct.Lmt.-)	
S046	cyclohexanone,2-(1-methylethylidene)-(3562);
S047	17-pentatriacontene(1E6);17-pentatriacontene(7E5);
S052	1,2-benzenedicarboxylicacid,dibutylester(4E5);
S068	
S069	1-hexene,3,4,5-trimethyl-(8E4);
S070	3-octyne-(1E5);3-butyn-2ol,2-methyl-(2E5);decane,3-bromo-(8E5);
S071	
S134	nonane-(4E5);undecane,3,8-dimethyl-(5E5);
S143	undecane,4,7-dimethyl-(1E6);
S144	tetracontane,3,5,24-trimethyl-(3E5);
S145	1-pentanol,2-ethyl-4-methyl-(5E4);
S150	4-hexenoicacid,3-methyl-2,6-dioxo-(8E5);
S151	
S159	
S163	
S336	heptane,2,6-dimethyl-(2E4);
S346	
S352	***carbonicacid,dineopentylester-(4E6)
S356	1-hexene,3,5,5-trimethyl-(1E4);
S365	
S376	
S382	1-azabicyclo[2.2.2]octane,3-methyl-(4E3);
S387	1-azabicyclo[3.1.0]hexane-(9E4);
S398	
S403	undecane6-cyclohexyl-,6-cyclohexyl-(2E6);
S417	undecane6-cyclohexyl-,6-cyclohexyl-(3E5);
S425	9-octadecenal-(3E4);
S428	undecane-(2E5);undecane,3,8-dimethyl-(2E5);
S435	tridecanal-(7E3);1-tetradecanol-(4E5);
S439	1-decene,2,4-dimethyl-(2E4);
S443	1-hexadecanol,2-methyl-(6E5);nonane,2-methyl-5-propyl-(1E5);
S449	1-propene,3,3,3-trichloro-(3E3);
S453	octane,2,7-dimethyl-(1E5);
S458	undecane,3-ethyl-(2E5);
S463	decane,2,3,5-trimethyl-(2E5);hexadecane-(1E5);
S468	octane,2,7-dimethyl-(1E5);undecane-(1E5);
S475	decane,2,3,6-trimethyl-(3E5);
S482	decane,6-ethyl-2-methyl-(8E4);
S492	cyclohexene,3-(2-methylpropyl)-(10058);
S498	
S505	undecane,3,8-dimethyl-(1E5);hexadecane-(1E5);
S512	nonane,3,7-dimethyl-(2E5);
S520	bicyclo[2.2.1]heptan-2-one,3,3-dimeth-(2259)***
S528	undecane,3,8-dimethyl-(1E3);undecane,4,6-dimethyl-(2E3);
S533	
S537	
S552	
S560	
S568	benzene,propyl-(10855);pentane,2,2,3,3-tetramethyl-(11185)
S579	1-pentanol,4-methyl-2-propyl-(5E6);
S579D	

PURSL

Sample No.	********* GCMS Characterization **********
Units--)	ug/kg
Dct.Lmt.-)	
S046	3-octene,2,6-dimethyl-(24480);propanoicacid,anhydride(934);
S047	dodecane,1,2-dibromo-(8E5);17-pentatriacontene(3E5);
S052	octane,2-bromo-(1E5);hexadecane(2E5);
S068	
S069	decane,3,8-dimethyl-(8E4);
S070	1h-indol-5-ol-(2E4)
S071	
S134	1-pentanol,4-methyl-2-propyl-(1E6);
S143	undecane,5,7-dimethyl-(1E6);
S144	1-nonene,4,6,8-trimethyl-(3E5);
S145	1-nonene,4,6,8-trimethyl-(2E5);
S150	17-pentatriacontene-(3E5);
S151	
S159	
S163	
S336	hexane,2,4-dimethyl-(5E4);
S346	
S352	
S356	dodecane,2-methyl-(6E4);
S365	
S376	
S382	undecane6-cyclohexyl-,6-cyclohexyl-(2E5);
S387	nonane,3-methyl-5-propyl-(7E5);
S398	
S403	carbamicacid,(.alpha.-methylbenzyl)-,1-eth-1-methpentest(1E6)
S417	cyclopentane,1,1,3-trimethyl-(2E4);
S425	1,2-benzenedicarboxylicacid,dibutylester-(1E4);
S428	undecane,4,6-dimethyl-(2E5);
S435	1,7-octanediol,3,7-dimethyl-(2E4);
S439	dodecane6-cyclohexyl-,6-cyclohexyl-(3E5);
S443	octane,2-bromo-(1E5);4-hexenoicacid,3-metnyl-2,6-dioxo-(3E4);
S449	cyclopentane,1,1,3,4-tetramethyl-,cis-(1E4);
S453	1-pentanol,4-methyl-2-propyl-(4E5);
S458	cyclohexane,hexyl-(2E5);hexadecane-(2E5);
S463	heptadecane-(2E5);nonane,3-methyl-5-propyl-(2E5);
S468	undecane,3,8-dimethyl-(1E5);
S475	1-azabicyclo[3.1.0]hexane-(2E5);
S482	undecane,3,8-dimethyl-(1E5);decane,3-bromo-(7E4);
S492	1-hexene,3,5,5-trimethyl-(10258)
S496	
S505	undecane,3,8-dimethyl-(2E5);
S512	pentane,2,2,3,4-tetramethyl-(2E5);
S520	
S528	hexane,2,4,4-trimethyl-(6E2);
S533	
S537	
S552	
S560	
S568	***butane,2,2-dimethyl-(2E2);undecane,2,4-dimethyl-(4E2);
S579	1-pentanol,4-methyl-2-propyl-(6E6);
S579D	

PURSL

Sample No.	********* GCMS Characterization **********
Units--)	ug/kg
Dct.Lmt.-)	
S046	1-hexene,2,5,5-trimethyl-(7E3)
S047	undecane6-cyclohexyl-,6-cyclohexyl-(4E5);
S052	undecane,3,8-dimethyl-(2E5);
S068	
S069	undecane,3,8-dimethyl-(1E5);
S070	
S071	
S134	2,6-pyrazinediamine-(7E5);
S143	undecane,3,8-dimethyl-(2E6);
S144	decane,3-bromo-(4E5);hexadecane-(3E5);
S145	1-pentanol,4-methyl-2-propyl-(4E5);
S150	4-hexenoicacid,3-methyl-2,6-dioxo-(5E5);
S151	
S159	
S163	
S336	1-pentanol,4-methyl-2-propyl-(3E5);
S346	
S352	
S356	1-pentanol,4-methyl-2-propyl-(5E4);
S365	
S376	
S382	17-pentatriacontene(2E4);
S387	1-pentanol,4-methyl-2-propyl-(1E6);
S398	
S403	
S417	furan,2,5-dihydro-3,4-dimethyl-(7E3);
S425	cyclooctanemethanol,.alpha.,.alpha.-dimethyl-(6E4);
S428	undecane,4,6-dimethyl-(2E5);
S435	1,2-benzenedicarboxylicacid,dibutylester-(2E4);
S439	1-tridecene-(2E4);hexane,2,3,4-trimethyl-(1E4);
S443	17-pentatriacontene(1E5);
S449	benzene,1,2,3-trimethyl(3E3);decane(2E4);
S453	hexadecane-(1E5);
S458	decane,2,3,8-trimethyl-(3E5);hexadecane-(2E5);
S463	undecane,2,10-dimethyl-(9E4);
S468	octane,2,7-dimethyl-(8E4);hexadecane-(2E5);
S475	pentadecane,2-methyl-(3E5);
S482	decane,3-bromo-(1E5);
S492	***hexane,2,4-dimethyl-(5E5);
S498	
S505	octane,2,7-dimethyl-(1E5);
S512	hexane,3,3-dimethyl-(3E5);octane,2,7-dimethy(5E5);
S520	
S528	1-pentanol,4-methyl-2-propyl-(2E3);p-menthan-9-ol,cis-(1E3);
S533	
S537	
S552	
S560	
S568	naphthalene,2-methyl-(3E2);hexane,3,3-dimethyl-(8E2);
S579	1-pentanol,4-methyl-2-propyl-(2E6);
S579D	

PURSL

Sample No.	********* GCMS Characterization **********
Units--)	ug/kg
Dct.Lmt.-)	
S046	***octane,2,3,7-trimethyl-(5E4);
S047	17-pentatriacontene(5E5);
S052	undecane,3,8-dimethyl-(1E5);
S068	
S069	tetradecane-(1E5);
S070	
S071	none
S134	tridecane7-cyclohexyl-,7-cyclohexyl(2E6);
S143	cyclohexane,(1-methylethyl)-(8E5);
S144	1-pentanol,4-methyl-1-propyl(7E5);
S145	4-hexenoicacid,3-methyl-2,6-dioxo-(2E5);
S150	1-nonene,4,6,8-trimethyl-(5E5);
S151	
S159	
S163	
S336	octane,5-ethyl-2-methyl-(6E4);
S346	
S352	
S356	octane,2,6-dimethyl-(1E5);
S365	
S376	
S382	heptanamide,4-ethyl-5-methyl-(4E4);
S387	tetracontane,3,5,24-trimethyl-(5E5);
S398	
S403	
S417	cyclodecane,methyl-(5E4);
S425	4-octenoicacid,6-ethyl-3-hydroxy-3,7-dimethyl-,methester-(2E4)
S428	octane,2,3,7-trimethyl-(6E5);
S435	4-octenoicacid,6-ethyl-3-hydroxy-3,7-dimeth-,methester-(1E4)
S439	1,2-benzenedicarboxylicacid,dibutylester-(3E4);
S443	tridecane7-cyclohexyl-,7-cyclohexyl-(6E4);
S449	benzeneacetaldehyde,.alpha.-methyl-(4E3)
S453	octane,6-ethyl-2-methyl-(2E5);
S458	decane,3-bromo-(3E5);
S463	undecane,2,10-dimetyyl-(1E5);
S468	decane,6-ethyl-2-methyl-(1E5);
S475	nonane,3-methyl-5-propyl-(5E5);
S482	octane,2,7-dimethyl-(1E5);
S492	hexane,3-methyl-(2E5);hexane,2,4-dimethyl-(3E5);
S498	
S505	1-pentanol,4-methyl-2-propyl-(8E4);
S512	nonane,2-methyl-(5E5);
S520	
S528	17-pentatriacontene(2E3);
S533	
S537	
S552	
S560	
S568	decane,2,3,7-trimethyl-(5E2);
S579	17-pentatriacontene(2E6);
S579D	

PURSL

Sample No.	********* GCMS Characterization **********
Units--)	ug/kg
Det.Lmt.-)	
S046	Sulfur, mol.(S8)(6E4);octane,2,7-dimethyl-(4E4);
S047	nonane,2-bromo-5-ethyl-(6E5);
S052	undecane,3,8-dimethyl-(3E5);
S068	
S069	octane,2,7-dimethyl-(1E5);
S070	
S071	
S134	1-pentanol,4-methyl-2-propyl-(1E6);
S143	nonane,3,7-dimethyl-(2E6);
S144	cyclopentane,1,1,3-trimethyl-(4E5);
S145	17-pentatriacontene-(6E5);
S150	cyclohexanol,3-methyl-2-(1-methylethyl)-,(1.alpha.,2.al-(4E5);
S151	
S159	
S163	
S336	cyclopentane,1-methyl-2-(2-propenyl)-,trans-(2E4)
S346	
S352	
S356	hydroxylamine,O-(2-methylpropyl)-(4E4);
S365	
S376	
S382	tricyclo[4.3.1.13,8]undecane,3-bromo-(4E3);
S387	octane,2-bromo-(1E6);
S398	
S403	
S417	2-oxazoline,4,5-diethyl-2-methyl-,trans-(9E2);
S425	
S428	octane,2,4,6-trimethyl-(2E5);
S435	
S439	cyclooctanemethanol,.alpha.,.alpha.-dimethyl-(6E4);
S443	undecane6-cyclohexyl-,6-cyclohexyl-(3E4);
S449	
S453	decane,3,8-dimethyl-(1E5);
S458	decane,2,3,6-trimethyl-(2E5);
S463	octane,2,7-dimethyl-(2E5);
S468	decane,3-bromo-(2E5);hexadecane-(4E5);
S475	3.4-hexanedion,2,2,5-trimethyl-(1E5);
S482	octane,5-ethyl-2-methyl-(5E4);
S492	hexane,3,3-dimethyl-(3E5);
S498	
S505	dodecane,2-methyl-6-propyl-(1E5);
S512	undecane,4,6-dimethyl-(4E5);
S520	
S528	tetracontane,3,5,24-trimethyl-(2E3);
S533	
S537	
S552	
S560	
S568	octane,2,4,6-trimethyl-(7E2);
S579	17-pentatriacontene(5E6);
S579D	

PURSL

Sample No.	********* GCMS Characterization **********
Units--)	ug/kg
Dct.Lmt.-)	
S046	cyclopentane,(2-methylpropyl)-(6E4);
S047	17-pentatriacontene(3E5);
S052	undecane,3,8-dimethyl-(2E5);
S068	
S069	tetracontane,3,5,24-trimethyl-(6E4)
S070	
S071	
S134	17-pentatriacontene(1E6);
S143	decane,3,8-dimethyl-(3E6);
S144	4-hexenoicacid,3-methyl-2,6-dioxo-(3E5);
S145	3-nonen-2-one-(5E4);
S150	naphthalene,1,2,3,4,4a,5,6,8a-octahydro-4a,8-dimethyl-(3E5);
S151	
S159	
S163	
S336	
S346	
S352	
S356	hexane,3,3-dimethyl-(6E4)
S365	
S376	
S382	1,2-benzenedicarboxylicacid,dibutylester-(2E4);
S387	tetracontane,3,5,24-trimethyl-(9E5);
S398	
S403	
S417	1,2-benzenedicarboxylicacid,dibutylester-(2E4)
S425	
S428	hexadecanoicacid-(8E5);
S433	
S439	4-octenoicacid,6-ethyl-3-hydroxy-3,7-dimethyl-,methestr-(1E4);
S443	17-pentatriacontene(5E4);
S445	
S453	undecane,3,8-dimethyl-(2E5);
S456	1-pentanol,2-ethyl-4-methyl-(4E5);
S463	1-pentanol,4-methyl-2-propyl-(5E5);
S468	1-pentanol,4-methyl-2-propyl-(5E5);
S475	octane,2,7-demethyl-(5E5);
S482	dodecane,2-methyl-6-propyl-(8E4);
S492	butane,2,2-dimethyl-(2E5);
S498	
S505	hexadecane-(3E5);
S512	octane,2-bromo-(4E5);
S520	
S528	17-pentatriacontene(2E3);17-pentatriacontene(2E3);
S533	
S537	
S552	
S560	
S568	decane,3,4-dimethyl-(1E3);octane,2,7-dimethl(1E3);
S579	cyclobutaneacetonitrile,1-methyl-2-(1-methylethylidene)-(1E6);
S579D	

PURSL

Sample No.	********* GCMS Characterization **********
Units--)	ug/kg
Dct.Lmt.-)	
S046	dodecane,2,6,11-trimethyl-(7E4);decane,3-methyl-(1E5);
S047	nonane,2-bromo-5-ethyl-(5E5);
S052	decane,3,8-dimethyl-(2E5);
S068	
S069	
S070	
S071	
S134	17-pentatriacontene(5E5);
S143	1,2,4,5-tetrazine,1,4-dihydro-3,6-dimethyl-(3E5);
S144	tridecane7-cyclohexyl-,7-cyclohexyl-(1E6);
S145	benzenamine,4-(6-methyl-2-benzothiazolyl)-(2E6)
S150	naphthalene,2-(1,1-dimethylethyl)decahydro-4a-methyl-(3E5);
S151	
S159	
S163	
S336	
S346	
S352	
S356	
S365	
S376	
S382	cyclooctanemethanol,.alpha.,.alpha.-dimethyl-(7E4)
S387	1,3-oxathiane,2-tert-butyl-2,6-dimethyl-,stereoisomer-,(2E6)
S398	
S403	
S417	
S425	
S428	hexadecanoicacid-(8E5)
S435	
S439	4-octenoicacid,6-ethyl-3-hydroxy-3,7-dimeth-,methester-(4E4)
S443	undecane6-cyclohexyl-,6-cyclohexyl-(6E4);
S449	
S453	octane,2-bromo-(1E5);
S458	benzenamine,4-(6-methyl-2-benzothiazolyl)-(6E5);
S463	1-hexene,3,4,5-trimethyl-(1E5);
S468	tetracontane,3,5,24-trimethyl-(3E5);
S475	6-azabicyclo[3.2.1]octan-4-one,6-methyl-(2E4)
S482	1-pentanol,2-ethyl-4-methyl-(2E5);
S492	hexane,3,3-dimethyl-(3E5);
S498	
S505	1-pentanol,4-methyl-2-propyl-(5E5);
S512	cyclohexane,hexyl-(5E5);
S520	
S528	17-pentatriacontene(8E2);
S533	
S537	
S552	
S560	
S568	octane,2,7-dimethyl-(1E3);
S579	
S579D	

PURSL

Sample No.	********* GCMS Characterization **********
Units--)	ug/kg
Dct.Lmt.-)	
S046	tridecane5-cyclohexyl-,5-cyclohexyl(1E5);
S047	dodecane6-cyclohexyl-,6-cyclohexyl-(4E5);
S052	tetracontane,3,5,24-trimethyl-(1E5);
S068	
S069	
S070	
S071	
S134	17-pentatriacontene-(8E5);
S143	benzenamine,4-(6-methyl-2-benzothiazolyl)-(2E6)
S144	1-nonene,4,6,8-trimethyl-(3E5);
S145	
S150	2(1h)-naphthalenone.octahydro-4a,7,7-trimethyl-,trans-(3E5);
S151	
S159	
S163	
S336	
S346	
S352	
S356	
S365	
S376	
S382	
S387	
S398	
S403	
S417	
S425	
S428	
S435	
S439	
S443	p-menthan-9-ol,cis-(3E4);
S449	
S453	octane,2,7-dimethyl-(9E4);
S458	1-pentanol,4-methyl-2-propyl-(7E5);
S463	decane,3,8-dimethyl-(1E5);
S468	undecane6-cyclohexyl-,6-cyclohexyl-(8E4);
S475	
S482	1-pentanol,4-methyl-2-propyl-(3E5);
S492	naphthalene,2-methyl-(1E5);
S498	
S505	nonane,5-methyl-5-propyl-(3E5);
S512	octane,2,4,6-trimethyl-(5E5);
S520	
S528	1-nonene,4,6,8-trimethyl-(1E3);
S533	
S537	
S552	
S560	
S568	octane,2,7-dimethyl-(7E2);
S579	
S579D	

PURSL

Sample No.	********* GCMS Characterization *********
Units--)	ug/kg
Dct.Lmt.-)	
S046	1-pentanol,4-methyl-2-propyl-(2E5);
S047	1-hentetracontanol-(4E5);
S052	1-hexadecanol,2-methyl-(1E6);
S068	
S069	
S070	
S071	
S134	17-pentatriacontene-(5E5);
S143	
S144	undecane6-cyclohexyl-,6-cyclohexyl-(4E5);
S145	
S150	naphthalene,2-(1,1-dimethylethyl)decahydro-4a-methyl-(3E5)
S151	
S159	
S163	
S336	
S346	
S352	
S356	
S365	
S376	
S382	
S387	
S398	
S403	
S417	
S425	
S428	
S435	
S439	
S443	17-pentatriacontene(5E4);
S449	
S453	decane,3-bromo-(9E4);
S458	1-pentanol,4-methyl-2-propyl-(4E5);
S463	undecane,3,8-dimethyl-(2E5);
S468	1-pentanol,4-methyl-2-propyl-(4E4);
S475	
S482	1h-1,2,4-triazole,1-ethyl-(1E5);
S492	hexane,2,3,4-trimethyl-(2E5);
S498	
S505	tetracontane,3,5,24-trimethyl-(2E5);
S512	octane,2-bromo-(6E5);cyclohexane,bromo-(1E5);
S520	
S528	17-pentatriacontene(6E2);
S533	
S537	
S552	
S560	
S568	octane,2,7-dimethyl-(1E3);
S579	
S579D	

PURSL

Sample No.	********* GCMS Characterization **********
Units--)	ug/kg
Dct.Lmt.-)	
S046	1-pentanol,4-methyl-2-propyl-(2E5);
S047	17-pentatriacontene(5E5);
S052	4-hexenoicacid,3-methyl-2,6-dioxo-(9E4);
S068	
S069	
S070	
S071	
S134	4-hexenoicacid,3-methyl-2,6-dioxo-(5E5);
S143	
S144	dodecane2-cyclohexyl-,2-cyclohexyl-(7E5);
S145	
S150	
S151	
S159	
S163	
S336	
S346	
S352	
S356	
S365	
S376	
S382	
S387	
S398	
S403	
S417	
S425	
S428	
S435	
S439	
S443	tridecane7-cyclohexyl-,7-cyclohexyl-(6E4);
S449	
S453	1-pentanol,4-methyl-2-propyl-(4E4);
S458	tridecane7-cyclohexyl-,7-cyclohexyl-(3E5);
S463	tetradecane-(2E5);
S468	1-nonene,4,6,8-trimethyl-(6E4)
S475	
S482	heptadecane-(2E5);
S492	undecane,2,4-dimethyl-(3E5);
S498	
S505	1,2-benzenedicarboxylicacid,dibutylester-(3E5);
S512	1-pentanol,4-methyl-2-propyl-(8E5);
S520	
S528	tetracontane,3,5,24-trimethyl-(2E3);
S533	
S537	
S552	
S560	
S568	undecane,4,6-dimethyl-(1E3)
S579	
S579D	

PURSL

Sample No.	********* GCMS Characterization **********
Units-->	ug/kg
Dct.Lmt.->	
S046	cyclohexane,1,1,2-trimethyl-(1E5);
S047	17-pentatriacontene(4E5);
S052	tridecane7-cyclohexyl-,7-cyclohexyl-(2E5);
S068	
S069	
S070	
S071	
S134	17-pentatriacontene-(7E5);
S143	
S144	4-hexenoicacid,3-methyl-2,6-dioxo-(3E5);
S145	
S150	
S151	
S159	
S163	
S336	
S346	
S352	
S356	
S365	
S376	
S382	
S387	
S398	
S403	
S417	
S425	
S428	
S435	
S439	
S443	17-pentatriacontene(7E4);
S449	
S453	1-pentanol,4-methyl-2-propyl-(7E4);
S458	undecane3,8-dimethyl-(4E5)
S463	octane,2,7-dimethyl-(2E5);
S468	
S475	
S482	tridecane7-cyclohexyl-,7-cyclohexyl-(5E4)
S492	octane,2,7-dimethyl-(4E5);
S498	
S505	2(1H)-naphthalenone,octahydro-4a-methyl-7-(1-metheth)-4a(6E4)
S512	undecane,2,10-dimethyl-(9E5);nonane,2-methyl-5-propyl-(1E6)
S520	
S528	17-pentatriacontene(1E3);
S533	
S537	
S552	
S560	
S568	
S579	
S579D	

PURSL

Sample No.	********* GCMS Characterization **********
Units--)	ug/kg
Dct.Lmt.-)	
S046	17-pentatriacontene(2E5);
S047	dodecane,1,2-dibromo-(6E5);
S052	17-pentatriacontene(9E4);
S068	
S069	
S070	
S071	
S134	4-hexenoicacid,3-methyl-2,6-dioxo-(4E5);
S143	
S144	4-hexenoicacid,3-methyl-2,6-dioxo-(2E5);
S145	
S150	
S151	
S159	
S163	
S336	
S346	
S352	
S356	
S365	
S376	
S382	
S387	
S398	
S403	
S417	
S425	
S428	
S435	
S439	
S443	4-octenoicacid,6-ethyl-3-hydroxy-3,7-dimethyl-,methester-(4E4)
S449	
S453	17-pentatriacontene(6E4);
S458	
S463	tetracontane,3,5,24-trimethyl-(9E4)
S468	
S475	
S482	
S492	octane,2,7-dimethyl-(6E5);
S498	
S505	
S512	
S520	
S528	17-pentatriacontene(9E2);
S533	
S537	
S552	
S560	
S568	
S579	
S579D	

PURSL

Sample No.	********* GCMS Characterization **********
Units--)	ug/kg
Det.Lmt.-)	
S046	17-pentatriacontene(7E4);
S047	2,3-bornanediol,endo-2,exo-3-(3E5);
S052	4-octenoicacid,6-ethyl-3-hydroxy-3,7-dimethyl-,methestr-(3E5);
S068	
S069	
S070	
S071	
S134	4-octenoicacid,6-ethyl-3-hydroxy-3,7-dimethyl-,methest-(5E5)
S143	
S144	4-hexenoicacid,3-methyl-2,6-dioxo-(3E5);
S145	
S150	
S151	
S159	
S163	
S336	
S346	
S352	
S356	
S365	
S376	
S382	
S387	
S398	
S403	
S417	
S425	
S428	
S435	
S439	
S443	
S449	
S453	undecane6-cyclohexyl-,6-cyclohexyl-(5E4);
S458	
S463	
S468	
S475	
S482	
S492	1-heptanol,2-propyl-(5E5);
S498	
S505	
S512	
S520	
S528	4-hexenoicacid,3-methyl-2,6-dioxo-(1E3);
S533	
S537	
S552	
S560	
S568	
S579	
S579D	

PURSL

Sample No.	********* GCMS Characterization **********
Units--)	ug/kg
Dct.Lmt.-)	
S046	1-pentanol,4-methyl-2-propyl-(1E5);
S047	17-pentatriacontene(6E5);
S052	2h-pyran-2-carboxylicacid,3,6-dihydr-4,5-dimeth-,methest-(1E5)
S068	
S069	
S070	
S071	
S134	
S143	
S144	2-buten-1-one,1-(6,7,7-trimethyl-2,3-dioxabicyclo[2.2.2](8E4);
S145	
S150	
S151	
S159	
S163	
S336	
S346	
S352	
S356	
S365	
S376	
S382	
S387	
S398	
S403	
S417	
S425	
S428	
S435	
S439	
S443	
S449	
S453	9-undecen-2-one,6,10-dimethyl-(4E4);
S458	
S463	
S468	
S475	
S482	
S492	nonane,2-methyl-(9E5);nonane,2-methyl-(7E5);
S498	
S505	
S512	
S520	
S528	17-pentatriacontene(2E3);17-pentatriacontene(9E2);
S533	
S537	
S552	
S560	
S568	
S579	
S579D	

PURSL

Sample No.	********* GCMS Characterization **********
Units--)	ug/kg
Dct.Lmt.-)	
S046	17-pentatriacontene(1E5);
S047	d-homoandrostane,(5.alpha.,13.alpha.)-(4E5);
S052	
S068	
S069	
S070	
S071	
S134	
S143	
S144	2(1H)-naphthalenone,octahydro-4a-methyl-7-(1-methylethyl)(2E5);
S145	
S150	
S151	
S159	
S163	
S336	
S346	
S352	
S356	
S365	
S376	
S382	
S387	
S398	
S403	
S417	
S425	
S428	
S435	
S439	
S443	
S449	
S453	1-nonene,4,6,8-trimethyl-(1E5);
S458	
S463	
S468	
S475	
S482	
S492	undecane,3,8-dimethyl-(9E5);
S498	
S505	
S512	
S520	
S528	17-pentatriacontene(2E3)
S533	
S537	
S552	
S560	
S568	
S579	
S579D	

PURSL

Sample No.	********* GCMS Characterization **********
Units--)	ug/kg
Dct.Lmt.-)	
S046	3-hexanone,2,4-dimethyl-(1E5);
S047	cyclohexanol,3-methyl-2-(1-metheth)-,(1.alp,2.alp,3.alp-(7E5);
S052	
S068	
S069	
S070	
S071	
S134	
S143	
S144	cyclohexanol,4-ethyl-4-methyl-3-(1-methylethenyl)-,(1.al-(1E5);
S145	
S150	
S151	
S159	
S163	
S336	
S346	
S352	
S356	
S365	
S376	
S382	
S387	
S398	
S403	
S417	
S425	
S428	
S435	
S439	
S443	
S449	
S453	tetracontane,3,5,24-trimethyl-(5E4)
S458	
S463	
S468	
S475	
S482	
S492	nonane,2-methyl-(5E5);nonane,5-(1-methylpropyl)-(7E5);
S498	
S505	
S512	
S520	
S528	
S533	
S537	
S552	
S560	
S568	
S579	
S579D	

PURSL

Sample No.	********* GCMS Characterization **********
Units--)	ug/kg
Dct.Lmt.-)	
S046	17-pentatriacontene(1E5);
S047	
S052	
S068	
S069	
S070	
S071	
S134	
S143	
S144	
S145	
S150	
S151	
S159	
S163	
S336	
S346	
S352	
S356	
S365	
S376	
S382	
S387	
S398	
S403	
S417	
S425	
S428	
S435	
S439	
S443	
S449	
S453	
S458	
S463	
S468	
S475	
S482	
S492	decane,2,3,8-trimethyl-(1E6);
S498	
S505	
S512	
S520	
S528	
S533	
S537	
S552	
S560	
S568	
S579	
S579D	

PURSL

Sample No.	********* GCMS Characterization **********
Units--)	ug/kg
Dct.Lmt.-)	
S046	indeno[2',1',:4,5]thieno[3,2-B]thiopyran-(9E4);
S047	
S052	
S068	
S069	
S070	
S071	
S134	
S143	
S144	
S145	
S150	
S151	
S159	
S163	
S336	
S346	
S352	
S356	
S365	
S376	
S382	
S387	
S398	
S403	
S417	
S425	
S426	
S435	
S439	
S443	
S449	
S453	
S458	
S463	
S468	
S475	
S482	
S492	1-pentanol,2-ethyl-4-methyl-(2E6);
S498	
S505	
S512	
S520	
S528	
S533	
S537	
S552	
S560	
S568	
S579	
S579D	

PURSL

Sample No.	********* GCMS Characterization **********
Units--)	ug/kg
Dct.Lmt.-)	
S046	cyclohexanol,3-methyl-2-(1-metheth)-,(1.alp,2.alp,3.alp-(2E5);
S047	
S052	
S068	
S069	
S070	
S071	
S134	
S143	
S144	
S145	
S150	
S151	
S159	
S163	
S336	
S346	
S352	
S356	
S365	
S376	
S382	
S387	
S398	
S403	
S417	
S425	
S428	
S435	
S439	
S443	
S449	
S453	
S458	
S463	
S468	
S475	
S482	
S492	17-pentatriacontene(5E5)
S498	
S505	
S512	
S520	
S528	
S533	
S537	
S552	
S560	
S568	
S579	
S579D	

PURSL

Sample No.	********* GCMS Characterization **********
Units--)	
Det.Lmt.-)	
S046	2-propen-1-one,1-(2,6,6-trimethyl-1-cyclohexen-1-yl)-(1E4);
S047	
S052	
S068	
S069	
S070	
S071	
S134	
S143	
S144	
S145	
S150	
S151	
S159	
S163	
S336	
S346	
S352	
S356	
S365	
S376	
S382	
S387	
S398	
S403	
S417	
S425	
S428	
S435	
S439	
S443	
S449	
S453	
S458	
S463	
S468	
S475	
S482	
S492	
S498	
S505	
S512	
S520	
S528	
S533	
S537	
S552	
S560	
S568	
S579	
S579D	

PURSL

Sample
No.
Units—)
Det.Lmt.-)

S046	4-octenoicacid,6-ethyl-3-hydroxy-3,7-dimethyl-,methester-(4E4)
S047	
S052	
S068	
S069	
S070	
S071	
S134	
S143	
S144	
S145	
S150	
S151	
S159	
S163	
S336	
S346	
S352	
S356	
S365	
S376	
S382	
S387	
S398	
S403	
S417	
S425	
S428	
S435	
S439	
S443	
S449	
S453	
S458	
S463	
S468	
S475	
S482	
S492	
S498	
S505	
S512	
S520	
S528	
S533	
S537	
S552	
S560	
S568	
S579	
S579D	

PURWTRB AUG. 19,'85

Sample No.	Area	Site	Grid Location	Date	Depth ft	pH	Condt ug-mhos	VolPK ppmv	VolAV ppmv
Units -)									
Dct.Lmt.-)						.01	1		
W300	CA	Cnal 1	W OF HWY 99	61584	0	7.4	35	4.6	4.6
W300D	CA	Cnal 1	W OF HWY 99	61584	0	7.5	32	0.1	0.1
W302	CA	Cnal 2	Eof99,Wof Site	61584	0	7.7	33	0.1	0.1
W304	CA	Cnal 3	W OF RR TRACKS	61584	0	7.7	30	0.1	0.1
W306	CA	Cnal 4	~S OF E25	61584	0	7.6	30	0	0
W306D	CA	Cnal 4	~S OF E25	61584	0	7.7	31	0.6	0.2
W308	CA	Cnal 5	~S OF E23-24	61584	0	7.6	30	0.5	0.5
W310	CA	Cnal 6	~S OF D22	61584	0	7.7	30	0	0
W312	CA	Cnal 7	~S OF D20	61584	0	7.8	31	0	0
W314	CA	Cnal 8	~S OF D18-19	61584	0	8	34	0.3	0
W316	CA	Cnal 9	~S OF D16-17	61584	0	8	34	0.3	0
W318	CA	Cnal10	~S OF D15	61584	0	8	31	0	0
W320	CA	Cnal11	~S OF D13	61684	0	7.9	30	0	0
W322	CA	Cnal12	~S OF D11	61684	0	7.6	30	0	0
W324	CA	Cnal13	~S OF D9	61684	0	7.5	31	0	0
W326	CA	Cnal14	~W OF B6	61684	0	7.5	32	0	0
W328	CA	Cnal15	~W OF A6	61684	0	7.6	32	0	0
W330	CA	Cnal16		61684	0	7.5	34	0	0
W332	CA	Cnal17	W SIDE MAPLE AV	61684	0	7.7	35	0	0
W348	FY	Core 1	E3	61984	45-50	6.8	2300	5	3.5
W368	WP	Core 2	D10	62284	60-61.5			3.7	3
W385	WP	Core 3	E17	62384				0	0
W400	WP	Core 4	F20	62684		7.1	1025	0.1	0.05
W404	XS		Coast Labs	62884	NA	7	1000		0.1
W405	XS		3341 S. Maple	62884	NA	7.5	325		0.1
W406	XS		Van Gas	62884	NA	7.4	420		0
W407	XS		Fresno Ir&Steel	62884	NA	7.7	410		0
W408	XS		Tall Trees	62884	NA	7.9	350		0.1
W409	XS		Burkhardt	62884	NA	7.7	500		0
W410	XS		3147 GoldenSt.R	62884	NA	7.6	550		0.1
W411	XS		2055 North Ave	62884	NA	7.5	800		0.1
W412	XS		3014 S. Cedar	62884	NA	7.5	900		0.1
W413	XS		3050 S. Cedar	62884	NA	7.6	650		0.1
W427	WP	Core 5	E13	62984	GW	6.4	1500	0.1	0.1
W442	SU	Core 6	11.5'N,14'W E6	70384	55	7	1600	0.1	0
W527	XS		EPA-7	71184	44.4	7.1	550	0.1	0
W539	SU	Core20	24'N&13'Eof F4	71284		5.3	1500	7	4
W540	XS	Well 4		71284		7.3	350	0	0
W557		Well 6		71784	42'	6.9	1450	0	0
W584			NA - BLANK	72384	NA				
W585			EPA Well 2	72684		6.85	1500	-0.1	
W586			Well 1S	72784		10.95	1000	-0.1	
W587			Well 1D	72784		7.1	750	-0.1	
W588			Well 4	72784		7.25	750	5	
W589			Well 2D	73084		7.15	250	-0.1	
W590			Well 5	80284		7.25	600	50	
W591			Well 6	80284		7.1	425	5	
W592			Well 8	80284		7.25	700	0.1	
W593			Well 7	80284		7.25	550	0.6	
W594			Well 2S	80284		11.2	1040	1	
W595			Well 3S	80284		7.5	1020	0.1	
W596			Well 3D	80284		7.4	250	1.1	
W597			PRIVATE WELL L	80884		7.5	600	-0.1	
W598			PRIVATE WELL I	80884		7.6	700	-0.1	
W599			PRIVATE WELL F	80884		7.6	600	-0.1	
W600			EPA Well 1	80884		7.1	1500	-0.1	
W601			Well 9	80884		7.7	500	-0.1	
W602			Well 3S						
W603			Well 3D						
W604			Well 2S						
W605			Well 2D						
W606			Well 1S						
W607			Well 1D						
W608			EPA Well 2						
W609			Well 8						
W610			EPA Well 7						
W611			Well 6						
W612			Well 7						
W613			Well 5						
W614			Well 4						
W615			EPA Well 1						
W616			Well 9						

PURWT

Sample No.	Comments	AS_HA	HG_CA	PB_GA	PHEN	SE-HA	SO4_IC	ICPES AG	AL	AS
Units -)		ug/ml	ug/ml	ug/ml	mg/L	ug/ml	mg/L	ug/ml	ug/ml	ug/ml
Dct.Lmt.-)		* effective detection limit follow minus sign *						* effective detection limit		
W300	Bkgd=4.0				-0.005*		-1*	0.044	0.077	-0.06
W300D					-0.005*		1*	0.053	0.27	0.25
W302					-0.005*		1*	-0.002	-0.05	-0.06
W304								-0.002	-0.05	-0.06
W306								0.049	0.25	0.22
W306D								0.092	0.27	0.26
W308								0.1	0.29	0.28
W310								0.094	0.32	0.31
W312								0.069	0.32	0.3
W314								0.012	0.09	-0.06
W316								0.057	0.12	-0.06
W318								0.03	0.069	-0.06
W320								0.057	0.26	0.25
W322								-0.002	0.15	-0.06
W324								-0.002	-0.05	-0.06
W326					-0.005*			0.054	0.25	0.23
W328					-0.005*			0.051	0.17	-0.06
W330								0.047	0.05	-0.06
W332								0.015	0.082	-0.06
W348		0.018	-0.0002	0.021	-0.005*	-0.002	1200*	0.33		2.3
W368		0.017	0.0006	0.007	-0.005*	-0.002	190	0.29		1.9
W385	SO2SS02;THCSS9	0.005	-0.0002	0.01	-0.005*	-0.002	720	0.25		1.9
W400		0.005	-0.0002	0.003	-0.005*	-0.002	220	0.21		-0.06
W404										
W405										
W406										
W407										
W408	Tap water									
W409										
W410										
W411										
W412										
W413										
W427		0.008	-0.0002	0.007	-0.005*	-0.002	520	0.2		1.5
W442	Groundwater									
W527	Groundwater									
W539	Groundwater-6	0.008	0.0022	0.005	0.31	-0.002*	3050*	0.43		2.2
W540	Bkgd.=1.0ppm									
W557	Groundwater	-0.002	0.0015	-0.002	0.048	-0.002	250*	0.38		1.6
W584	Grdwtr. blank	-0.002	0.0025	-0.002	0.1	-0.002	-1*	0.031		-0.06
W585	Groundwater									
W586	Groundwater	0.01	-0.0002*	-0.002*	0.53*	-0.002*	130	-0.002		-0.06
W587	Groundwater	0.005	-0.0002*	-0.002*	0.075*	-0.002*	40	-0.002		-0.06
W588	Groundwater									
W589	Groundwater									
W590	Groundwater									
W591	Groundwater									
W592	Groundwater	0.003*	-0.0002	-0.002	0.013	-0.002	510*	-0.002		-0.06
W593	Groundwater									
W594	Groundwater									
W595	Groundwater	0.003*	-0.0002	-0.002	-0.01	-0.002	520	-0.002		-0.06
W596	Groundwater									
W597	Groundwater									
W598										
W599										
W600		-0.002	-0.0002	-0.002	0.035	-0.002	220	-0.002		-0.06
W601		0.004	-0.0002	-0.002	0.013	-0.002	35	-0.002		-0.06
W602										
W603										
W604										
W605										
W606										
W607										
W608										
W609										
W610										
W611										
W612										
W613										
W614										
W615										
W616										

PURWT

Sample	ICPES					ICPES				ICPES
No.	AU	B	BA	BE	BI	CA	CD	CO	CR	CU
Units -)	ug/ml	ug/ml	ug/ml	ug/ml	ug/ml	ug/ml	ug/ml	ug/ml	ug/ml	ug/ml
Dct.Lmt.-)	follow	minus sign *		* effective detection limit follow				minus sign *		* effecti
W300		-0.009	0.055	-0.0005		3.2	0.2	-0.006	-0.001	0.002
W300D		0.43	0.067	-0.0005		3.4	-0.002	0.015	0.018	0.021
W302		-0.009	0.083	-0.0005		3.2	-0.002	-0.006	-0.001	-0.001
W304		-0.009	0.046	-0.0005		3.1	-0.002	-0.006	-0.001	-0.001
W306		0.37	0.083	-0.0005		3.1	0.022	0.013	0.016	0.018
W306D		0.36	0.051	-0.0005		3.2	0.22	0.015	0.019	0.025
W308		0.41	0.052	-0.0005		3.2	0.24	0.018	0.021	0.025
W310		0.46	0.053	-0.0005		3.2	0.13	0.018	0.024	0.03
W312		0.38	0.047	-0.0005		3.1	0.024	0.018	0.025	0.031
W314		-0.009	0.047	-0.0005		3	0.007	-0.006	0.004	0.008
W316		-0.009	0.042	-0.0005		3.1	0.21	-0.006	0.005	0.008
W318		-0.009	0.045	-0.0005		3.2	0.082	-0.006	0.001	0.002
W320		0.4	0.057	-0.0005		3.4	0.17	0.015	0.018	0.023
W322		-0.009	0.054	-0.0005		3.7	-0.002	-0.006	0.04	-0.001
W324		-0.009	0.048	-0.0005		3.2	-0.002	-0.006	-0.001	-0.001
W326		0.32	0.046	-0.0005		3.4	0.06	0.013	0.016	0.02
W328		-0.009	0.06	-0.0005		4.1	0.24	-0.006	0.014	0.018
W330		-0.009	0.038	-0.0005		3.5	0.19	-0.006	-0.001	-0.001
W332		-0.009	0.041	-0.0005		3.4	0.049	-0.006	-0.001	-0.001
W348			-0.001	0.005		360	0.053	0.032	0.15	0.034
W368			0.028	0.001		260	0.061	0.017	0.13	0.018
W385			-0.001	-0.0005		120	-0.002	0.006	0.12	0.01
W400			0.5	0.001		210	-0.002	0.027	0.11	-0.001
W404										
W405										
W406										
W407										
W408										
W409										
W410										
W411										
W412										
W413										
W427			-0.001	0.002		150	-0.002	0.038	0.096	0.044
W442										
W527										
W539			0.13	0.009		560	0.021	0.25	0.24	0.059
W540										
W557			-0.001	0.002		130	-0.002	-0.006	0.037	-0.001
W584			-0.001	-0.0005		0.21	-0.002	-0.006	-0.001	-0.001
W585										
W586			-0.001	0.001		31	-0.002	-0.006	0.022	0.007
W587			-0.001	-0.0005		61	-0.002	-0.006	0.007	-0.001
W588										
W589										
W590										
W591										
W592			-0.001	-0.0005		46	-0.002	-0.006	0.008	-0.001
W593										
W594										
W595			0.18	-0.0005		71	-0.002	-0.006	0.027	-0.001
W596										
W597										
W598										
W599										
W600			-0.001	-0.0005		130	-0.002	-0.006	-0.001	-0.001
W601			-0.001	-0.0005		37	-0.002	-0.006	0.003	-0.001
W602										
W603										
W604										
W605										
W606										
W607										
W608										
W609										
W610										
W611										
W612										
W613										
W614										
W615										
W616										

PURWT

Sample	ICPES					ICPES			ICPES	
No.	FE	HG	IN	K	LI	MG	MN	MO	NA	NI
Units -)	ug/ml	ug/ml	ug/ml	ug/ml	ug/ml	ug/ml	ug/ml	ug/ml	ug/ml	ug/ml
Dct.Lmt.-)	ve detection limit follow			minus sign *		* effective detection limit follow				minus sig
W300	0.025			0.4	0.003	0.81	-0.001	0.012	2.7	-0.003
W300D	0.042			1.4	0.02	0.96	0.004	0.03	2.9	0.012
W302	0.013			0.16	-0.0005	0.77	-0.001	-0.002	2.5	-0.003
W304	0.015			0.29	-0.0005	0.74	-0.001	-0.002	2.6	-0.003
W306	0.042			1.3	0.019	0.89	0.005	0.028	2.8	0.008
W306D	0.046			1.4	0.022	0.92	0.004	0.033	2.6	0.01
W308	0.07			1.4	0.024	0.92	0.005	0.035	2.8	0.012
W310	0.049			1.5	0.026	0.96	0.005	0.036	2.8	0.016
W312	0.048			1.6	0.027	0.94	0.005	0.033	2.6	0.016
W314	0.034			0.53	0.008	0.75	-0.001	0.018	2.4	-0.003
W316	0.022			0.54	0.007	0.77	-0.001	0.011	2.5	-0.003
W318	0.022			0.38	0.002	0.73	-0.001	0.008	2.6	-0.003
W320	0.049			1.4	0.02	0.95	0.005	0.031	2.9	0.012
W322	0.24			0.28	-0.0005	0.78	0.026	0.003	2.6	0.004
W324	0.036			0.2	-0.0005	0.74	-0.001	-0.002	2.5	-0.003
W326	0.045			1.3	0.018	0.94	0.004	0.023	2.7	0.01
W328	0.22			0.41	-0.0005	0.94	0.018	0.009	2.5	-0.003
W330	0.021			0.39	-0.0005	0.83	-0.001	0.006	2.4	-0.003
W332	0.02			0.27	-0.0005	0.81	-0.001	0.005	2.5	-0.003
W348						270		0.062		0.01
W368						120		0.042		-0.003
W385						44		0.04		-0.003
W400						77		0.017		0.009
W404										
W405										
W406										
W407										
W408										
W409										
W410										
W411										
W412										
W413										
W427						68		0.051		0.006
W442										
W527										
W539						220		0.075		0.45
W540										
W557						65		0.017		-0.003
W584						0.035		-0.002		-0.003
W585										
W586						0.14		0.02		0.011
W587						32		0.006		0.022
W588										
W589										
W590										
W591										
W592						20		0.003		0.019
W593										
W594										
W595						-0.03		0.018		0.012
W596										
W597										
W598										
W599										
W600						54		-0.002		-0.003
W601						21		0.013		0.025
W602										
W603										
W604										
W605										
W606										
W607										
W608										
W609										
W610										
W611										
W612										
W613										
W614										
W615										
W616										

PURWT

Sample No.	P	PB	PT	S	SB	SE	SI	SN	SR	TE
	*********ICPES**********					ICPES**********				ICPES ***
Units -)	ug/ml	ug/ml	ug/ml	ug/ml	ug/ml	ug/ml	ug/ml	ug/ml	ug/ml	ug/ml
Dct.Lmt.-)n *		* effective detection limit follow minus sign *						* effective detection limit		
W300	0.89	-0.08		0.34	-0.03	-0.08	4.6		0.022	
W300D	1.9	0.18		1.5	0.11	-0.08	4.6		0.02	
W302	0.76	-0.08		0.56	-0.03	-0.08	4.5		0.019	
W304	0.75	-0.08		0.52	-0.03	-0.08	4.5		0.02	
W306	1.8	0.16		1.6	0.1	-0.08	4.5		0.021	
W306D	1.8	0.27		1.2	0.1	-0.08	4.6		0.022	
W308	1.9	0.31		1.3	0.1	0.09	4.5		0.022	
W310	11	0.26		1.3	0.13	0.1	4.5		0.021	
W312	11	0.2		1.6	0.12	0.1	4.4		0.02	
W314	10	-0.08		0.73	-0.03	-0.08	4.3		0.021	
W316	10	0.12		0.31	-0.03	-0.08	4.4		0.021	
W318	10	-0.08		0.54	-0.03	-0.08	4.6		0.02	
W320	11	0.19		1.5	0.11	0.09	4.7		0.021	
W322	10	-0.08		0.83	-0.03	-0.08	4.6		0.019	
W324	10	-0.08		0.3	-0.03	-0.08	4.6		0.02	
W326	11	0.19		1.8	0.1	-0.08	4.6		0.023	
W328	10	0.15		0.65	-0.03	-0.08	4.6		0.022	
W330	9.9	0.11		0.56	-0.03	-0.08	4.7		0.021	
W332	9.8	-0.08		0.3	-0.03	-0.08	4.7		0.019	
W348		0.29			0.22	0.14				
W368		0.094			0.06	-0.08				
W385		-0.08			-0.03	-0.08				
W400		-0.08			-0.03	-0.08				
W404										
W405										
W406										
W407										
W408										
W409										
W410										
W411										
W412										
W413										
W427		0.16			0.14	0.09				
W442										
W527										
W539		0.32			0.35	0.34				
W540										
W557		0.18			0.14	-0.08				
W584		-0.08			-0.03	-0.08				
W585										
W586		-0.08			-0.03	-0.08				
W587		-0.08			-0.03	-0.08				
W588										
W589										
W590										
W591										
W592		-0.08			-0.03	-0.08				
W593										
W594										
W595		-0.08			-0.03	-0.08				
W596										
W597										
W598										
W599										
W600		-0.08			-0.03	-0.08				
W601		-0.08			-0.03	-0.08				
W602										
W603										
W604										
W605										
W606										
W607										
W608										
W609										
W610										
W611										
W612										
W613										
W614										
W615										
W616										

PURWT

Sample No.	TI	TL	U	V	W	Y	ZN	DILUTION FACTOR	601_01	601_02
	**********				ICPES		**********			
Units -)	ug/ml	ug/ml	ug/ml	ug/ml	ug/ml	ug/ml	ug/ml	--)	ug/L	ug/L
Dct.Lmt.-)	follow	minus sign *	*	eff.detct.lmt.	follows	minus sign *			.08	1.16
W300	0.018	-0.09		0.009			0.003	1/1	0	0
W300D	0.089	-0.09		0.076			-0.003	1/1	0	0
W302	-0.005	-0.09		-0.003			-0.003	1/1	0	0
W304	-0.005	-0.09		-0.003			-0.003	1/1	0	0
W306	0.082	-0.09		0.068			0.95	1/1	0	0
W306D	0.11	-0.09		0.083			0.038	1/1	0	0
W308	0.12	-0.09		0.085			0.006	1/1	0	0
W310	0.12	-0.09		0.094			0.004	1/1	0	0
W312	0.11	-0.09		0.09			0.008	1/1	0	0
W314	0.015	-0.09		0.012			-0.003	1/1	0	0
W316	0.025	-0.09		0.015			0.004	1/1	0	0
W318	0.011	-0.09		0.01			-0.003	1/1	0	0
W320	0.093	-0.09		0.079			0.012	1/1	0	0
W322	-0.005	-0.09		-0.003			0.004	1/1	0	0
W324	-0.005	-0.09		-0.003			0.004	1/1	0	0
W326	0.086	-0.09		0.071			0.003	1/1	0	0
W328	0.02	-0.09		0.014			0.021	1/1	0	0
W330	0.016	-0.09		0.01			-0.003	1/1	0	0
W332	-0.005	-0.09		-0.003			-0.003	1/10	0	0
W348		0.13		0.17			0.065	1/1	0	0
W368		-0.09		0.06			0.32	1/1	0	0
W385		-0.09		0.023			0.02	1/1	0	0
W400		-0.09		0.009			0.44	1/1	0	0
W404										
W405										
W406										
W407										
W408										
W409										
W410										
W411										
W412										
W413										
W427		0.1		0.12			0.04	1/1	0	0
W442								1/1	0	0
W527										
W539		0.17		0.16			2.9	1/1	0	0
W540										
W557		-0.09		0.074			0.004	1/1	0	0
W584		-0.09		-0.003			0.008	1/1	0	0
W585										
W586		-0.09		0.036			0.18	1/1	0	0
W587		-0.09		-0.003			0.074	1/1	0	0
W588										
W589										
W590										
W591										
W592		-0.09		0.013			0.014	1/1	0	0
W593										
W594										
W595		-0.09		0.049			0.084	1/1	0	0
W596										
W597										
W598										
W599										
W600		-0.09		-0.003			0.027	1/1	0	0
W601		-0.09		0.01			0.073	1/1	0	0
W602								1/1	0	0
W603								1/1	0	0
W604								1/1	0	0
W605								1/1	0	0
W606								1/1	0	0
W607								1/1	0	0
W608								1/1	0	0
W609								1/1	0	0
W610								1/1	0	0
W611								1/1	0	0
W612								1/1	0	0
W613								1/1	0	0
W614								1/1	0	0
W615								1/1	0	0
W616								1/1	0	0

PURWT

Sample No.	601_03	601_04	601_05	601_06	601_07	601_08	601_09	601_10	601_11	601_12
Units -)	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Dct.Lmt.-)	1.81	.52	.25	ND	.13	.07	.10	.05	.03	.03
W300	0	0	0	2	0	0	0	0	0	0
W300D	0	0	0	3.6	0	0	0	0	0	0
W302	0	0	0	4.1	0	0	0	0	0	0
W304	0	0	0	3.8	0	0	0	0	0	0
W306	0	0	0	2.6	0	0	0	0	0	0
W306D	0	0	0	4.9	0	0	0	0	0	0
W308	0	0	0	4.2	0	0	0	0	0	0
W310	0	0	0	3.2	0	0	0	0	0	0
W312	0	0	0	3.2	0	0	0	0	0	0
W314	0	0	0	3	0	0	0	0	0	0
W316	0	0	0	3.2	0	0	0	0	0	0
W318	0	0	0	3.3	0	0	0	0	0	0
W320	0	0	0	2.7	0	0	0	0	0	0
W322	0	0	0	3.1	0	0	0	0	0	0
W324	0	0	0	2.6	0	0	0	0	0	0
W326	0	0	0	2.9	0	0	0	0	0	0
W328	0	0	0	2.7	0	0	0	0	0	0
W330	0	0	0	2.2	0	0	0	0	0	0
W332	0	0	0	3.3	0	0	0	0	0	0
W348	3.2	0	0	2.9	0.7	17.3	500	0	5.5	0
W368	0	0	0	0	1.3	20.8	152	0	6.6	1.2
W385	0	0	0	2.5	0	0.1	0.5	0	0.6	0.2
W400	0	0	0	3.7	0	0	0	0	0	0
W404										
W405										
W406										
W407										
W408										
W409										
W410										
W411										
W412										
W413										
W427	0	0	0	0	0	3.2	40.5	0	1.3	0
W442	0	0	0	3.3	0.3	2.1	73.2	0	9.1	0
W527										
W539	0	0	0	0	0.3	3.2	91.8	0	6.1	0
W540										
W557	0	0	0	0	0	3.2	26.7	0	0.1	0
W584	0	0	0	0	0	0	0	0	0	0
W585										
W586	0	0	0	0	0	0	2.1	0	1.2	0
W587	0	0	0	0	0	0	0	0	0.5	0
W588										
W589										
W590										
W591										
W592	0	0	0	0	0	0	0	0	0	0
W593										
W594										
W595	0	0	0.2	0	0	0	0	0	0	0.4
W596										
W597										
W598										
W599										
W600	0	0	0	0	0	0	0	0	0	0
W601	0	0	0	0	0	0	0	0	0	0
W602	0	0	0.7	0	0	0	0	0	0	0
W603	0	0	0	0	0	0	0	0	0	0
W604	0	0	0.8	0	0	2.4	24.2	0	1.2	0
W605	0	0	0	0	0	0	0	0	0	0
W606	0	0	0	0	0	0	18.4	0	2.9	0
W607	0	0	0	0	0	0	0	2.2	0	0
W608	0	0	0	0	0	0	0	2.4	0	0
W609	0	0	0	0	0	0	0	0.6	0	0
W610	0	0	0	0	0	0	0	0.3	0	0
W611	0	0	0	0	0	0	0	0.2	0	0
W612	0	0	0	0	0	0	2.4	0	0	0
W613	0	0	0	0	0	2	15.4	0	3.8	0
W614	0	0	0	0	0	2.2	19.3	0	0.6	0
W615	0	0	0	0	0	0	0	0	0	0
W616	0	0	0	0	0	0	0	0	0	0

PURWT

Sample No.	601_13	601_14	601_15	601_16	601_17	601_18	601_19	601_20	601_21	601_22
Units -)	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Dct.Lmt.-)	.12	.10	.04	.34	.12	.09	.02	.20	.13	.20
W300	0	0	0	0	0	0	0	0	0	0
W300D	0	0	0	0	0	0	0	0	0	0
W302	0	0	0	0	0	0	0	0	0	0
W304	0	0	0	0	0	0	0	0	0	0
W306	0	0	0	0	0	0	0	0	0	0
W306D	0	0	0	0	0	0	0	0	0	0
W308	0	0	0	0	0	0	0	0	0	0
W310	0	0	0	0	0	0	0	0	0	0
W312	0	0	0	0	0	0	0	0	0	0
W314	0	0	0	0	0	0	0	0	0	0
W316	0	0	0	0	0	0	0	0	0	0
W318	0	0	0	0	0	0	0	0	0	0
W320	0	0	0	0	0	0	0	0	0	0
W322	0	0	0	0	0	0	0	0	0	0
W324	0	0	0	0	0	0	0	0	0	0
W326	0	0	0	0	0	0	0	0	0	0
W328	0	0	0	0	0	0	0	0	0	0
W330	0	0	0	0	0	0	0	0	0	0
W332	0	0	0	0	0	0	0	0	0	0
W348	0	3.1	0	0	2	0	0	0	0	0
W368	0	0	1.3	0	5.5	0	0	0	0	0
W385	0	0	0	0	1.2	0	0	0	1.8	0
W400	0	0	0	0	0	0	0	0	0	0
W404										
W405										
W406										
W407										
W408										
W409										
W410										
W411										
W412										
W413										
W427	0	0	0	0	1.4	0	0	0	0	0
W442	0	0	0.4	0	7.7	0	0	0	0	0
W527										
W539	0	0	1.7	0	11.9	0	0	0	0	0
W540										
W557	0	0	0	0	0	0	0	0	0	0
W584	0	0	0	0	0	0	0	0	0	0
W585										
W586	0	0	0	0	1	0	0	0	0	0
W587	0	0	0	0	0	0	0	0	0	0
W588										
W589										
W590										
W591										
W592	0	0	0	0	0	0	0	0	0	0
W593										
W594										
W595	0	0	0	0	0.7	0	0	0	0	0
W596										
W597										
W598										
W599										
W600	0	0	0	0	0	0	0	0	0	0
W601	0	0	0	0	0	0.1	0	0	0	0
W602	0	0	0	0	0	0	0	0	0	0
W603	0	0	0	0	0	0	0	0	0	0
W604	0	0	0	0	0	0	0	0	0	0
W605	0	0	0	0	0	0	0	0	0	0
W606	0	0	0	0	4.7	0	0	0	0	0
W607	0	0	0	0	0	0	0	0	0	0
W608	0	0	0	0	0	0	0	0	0	0
W609	0	0	0	0	0	0	0	0	0	0
W610	0	0	0	0	0	0	0	0	0	0
W611	0	0	0	0	0	0	0	0	0	0
W612	0	0	0	0	0	0	0	0	0	0
W613	0	0	0	0	0	0	0	0	0	0
W614	0	0	0	0	0	0	0	0	0	0
W615	0	0	0	0	0	0	0	0	0	0
W616	0	0	0	0	0	0	0	0	0	0

PURWT

Sample No.	601_23	601_24	601_25	601_26	601_27	601_28	DILUTION FACTOR	602_01	602_02	602_03
Units ->	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	-->	ug/L	ug/L	ug/L
Dct.Lmt.->	.03	.03	.25	.32	.15	.24		.2	.2	.2
W300	0	0	0	0	0	0	1/1	0	0	0
W300D	0	0	0	0	0	0	1/1	0	0	0
W302	0	0	0	0	0	0	1/1	0	0	0
W304	0	0	0	0	0	0	1/1	0	0	0
W306	0	0	0	0	0	0	1/1	0	0	0
W306D	0	0	0	0	0	0	1/1	0	0	0
W308	0	0	0	0	0	0	1/1	0	0	0
W310	0	0	0	0	0	0	1/1	0	0	0
W312	0	0	0	0	0	0	1/1	0	0	0
W314	0	0	0	0	0	0	1/1	0	0	0
W316	0	0	0	0	0	0	1/1	0	0	0
W318	0	0	0	0	0	0	1/1	0	0	0
W320	0	0	0	0	0	0	1/1	0	0	0
W322	0	0	0	0	0	0	1/1	0	0	0
W324	0	0	0	0	0	0	1/1	0	0	0
W326	0	0	0	0	0	0	1/1	0	0	0
W328	0	0	0	0	0	0	1/1	0	0	0
W330	0	0	0	0	0	0	1/1	0	0	0
W332	0	0	0	0	0	0	1/10	0	0	0
W348	1.1	0	22.3	0	39	0	1/1	0	0	0
W368	0.9	0	0.4	0	0	0	1/1	0	9	0
W385	0.7	0	0.3	0	0.2	0	1/1	0	5	2
W400	0	0	0	0	0	0	1/1	0	0	0
W404										
W405										
W406										
W407										
W408										
W409										
W410										
W411										
W412										
W413										
W427	0	0	0	0	0	0	1/1	0	18	3
W442	0.4	0	0.3	0	1.5	0	1/1	0	1	0
W527										
W539	6.5	0	5.9	0	5.8	0	1/1	0	0	15
W540										
W557	0	0	0	0	0	0	1/1	0	0	0
W584	0	0	0	0	0	0	1/1	0	0	0
W585										
W586	2.8	0	0	0	0	0	1/1	0	2	1
W587	0	0.1	0	0	0	0	1/1	0	0	0
W588										
W589										
W590										
W591										
W592	0	0	0	0	0	0	1/1	0	0	0
W553										
W594										
W595	2.1	0	0	0	0	0	1/1	0	0	0
W596										
W597										
W598										
W599										
W600	0	0	0	0	0	0	1/1	0	0	0
W601	0.6	0	0	0	0	0	1/1	0	0	0
W602	0	0	0	0	0	0	1/1	0	0	0
W603	0	0	0	0	0	0	1/1	0	0	0
W604	0	0	0	0	0	0	1/1	10	0	0
W605	0	0	0	0	0	0	1/1	0	0	0
W606	0	0	0	0	0	0	1/1	16.9	0	0
W607	0	0	0	0	0	0	1/1	0	0	0
W608	2.1	0	0	0	0	0	1/1	0	0	0
W609	0	0	0	0	0	0	1/1	2.2	0	0
W610	0	0	0	0	0	0	1/1	0	0	0
W611	0	0	0	0	0	0	1/1	0	0	0
W612	0	0	0	0	0	0	1/1	0	0	0
W613	0.4	0	0	0	0	0	1/1	7.6	0	0
W614	0	0	0	0	0	0	1/1	11.2	0	0
W615	0	0	0	0	0	0	1/1	0	0	0
W616	0.5	0	0	0	0	0	1/1	0	0	0

PURWT

Sample No.	602_04	602_05	602_06
Units -)	ug/L	ug/L	ug/L
Dct.Lmt.-)	.4	.4	.3
W300	0	0	0
W300D	0	0	0
W302	0	0	0
W304	0	0	0
W306	0	0	0
W306D	0	0	0
W308	0	0	0
W310	0	0	0
W312	0	0	0
W314	0	0	0
W316	0	0	0
W318	0	0	0
W320	0	0	0
W322	0	0	0
W324	0	0	0
W326	0	0	0
W328	0	0	0
W330	0	0	0
W332	0	0	0
W348	0	22	0
W368	0	0	0
W385	0	0	0
W400	0	0	0
W404			
W405			
W406			
W407			
W408			
W409			
W410			
W411			
W412			
W413			
W427	0	0	0
W442	0	0	0
W527			
W539	18	7.9	6
W540			
W557	0	0	0
W564	0	0	0
W585			
W586	0	0	0
W587	0	0	0
W588			
W589			
W590			
W591			
W592	0	0	0
W593			
W594			
W595	0	0	0
W596			
W597			
W598			
W599			
W600	0	0	0
W601	0	0	0
W602	0	0	0
W603	0	0	0
W604	0	0	0
W605	0	0	0
W606	0	0	0
W607	0	0	0
W608	0	0	0
W609	0	0	0
W610	0	0	0
W611	0	0	0
W612	0	0	0
W613	0	0	0
W614	0	0	0
W615	0	0	0
W616	0	0	0

PURWTRC AUG. 19,'85

Sample No.	Area	Site	Grid Location	Date	Depth ft	ACDT mg/L	AG_E ug/ml	AS_E ug/ml	AS_HA ug/ml	BA_E ug/ml	BE_E ug/ml	CA_E ug/ml
Units ->						mg/L	ug/ml	ug/ml	ug/ml	ug/ml	ug/ml	ug/ml
Dct.Lmt.->						*effective detection limits follow minus sign*						
W300	CA	Cnal 1	W OF HWY 99	61584	0	46						
W300D	CA	Cnal 1	W OF HWY 99	61584	0	31						
W302	CA	Cnal 2	Eof99,W of SITE	61584	0	24						
W304	CA	Cnal 3	W OF RR TRACKS	61584	0	25						
W306	CA	Cnal 4	~S OF E25	61584	0	27						
W306D	CA	Cnal 4	~S OF E25	61584	0	30						
W308	CA	Cnal 5	~S OF E23-24	61584	0	29						
W310	CA	Cnal 6	~S OF D22	61584	0	25						
W312	CA	Cnal 7	~S OF D20	61584	0	24						
W314	CA	Cnal 8	~S OF D18-19	61584	0	25						
W316	CA	Cnal 9	~S OF D16-17	61584	0	26						
W318	CA	Cnal10	~S OF D15	61584	0	26						
W320	CA	Cnal11	~S OF D13	61684	0	24						
W322	CA	Cnal12	~S OF D11	61684	0	24						
W324	CA	Cnal13	~S OF D9	61684	0	24						
W326	CA	Cnal14	~W OF B6	61684	0	25						
W328	CA	Cnal15	~W OF A6	61684	0	26						
W330	CA	Cnal16		61684	0	26						
W332	CA	Cnal17	W SIDE MAPLE AV	61684	0	25						
W348	FY	Core 1	E3	61584	45-50	700						
W405	XS		3341 S. Maple	62884	NA	160	0.31		0.006		0.002	
W406	XS		Van Gas	62884	NA	170	0.23		0.005		-0.0005	
W408	XS		Tall Trees	62884	NA	150	0.16		0.006		-0.0005	
W409	XS		Burkhardt	62884	NA	210	0.2		0.005		-0.0005	
W410	XS		3147 GoldenSt.R	62884	NA	210	0.26		0.006		-0.0005	
W411	XS		2055 North Ave	62884	NA	290	0.23		0.005		-0.0005	
W413	XS		3050 S. Cedar	62884	NA	270	0.24		0.005		-0.0005	
W442	SU	Core 6	11.5'N,14'W E6	70384	55	480						
W585			EPA 2	72684		640	-0.002		0.003		-0.0005	
W588			Well 4	72784		290	-0.002		0.014		-0.0005	
W589			Well 2D	73084		130	-0.002		0.006		-0.0005	
W590			Well 5	80284		350	-0.002		0.006		-0.0005	
W591			Well 6	80284		170	-0.002		0.003		-0.0005	
W593			Well 7	80284		250	-0.002		0.004		-0.0005	
W594			Well 2S	80284		250	-0.002		-0.002		-0.0005	
W596			Well 3D	80284		139	-0.002		0.005		-0.0005	
W597			PRIVATE WELL L	80884		190	-0.002		-0.002		-0.0005	
W598			PRIVATE WELL I	80884		216	-0.002		-0.002		-0.0005	
W599			PRIVATE WELL F	80884		183	-0.002		-0.002		-0.0005	
W602			Well 3S	91484		28	0.021	0.21	-0.002	0.051	0.001	59
W603			Well 3D	91484		26	0.024	0.15	0.004	0.033	0.001	22
W602Nalgene			Well 3S	91484								
W603Nalgene			Well 3D	91484								
W604			Well 2S	91484		26	0.027	0.21	0.006	0.034	0.001	4.7
W605			Well 2D	91484		19	0.025	0.21	0.002	0.044	0.001	33
W606			Well 1S	91484		61	0.014	0.21	0.016	0.088	0.001	95
W607			Well 1D	91484		58	0.025	0.22	-0.002	0.089	0.001	55
W608			EPA Well 2	91484		6	-0.002	0.21	-0.002	0.087	0.001	150
W609			Well 8	91484		34	0.014	0.13	0.002	0.038	0.001	46
W610			EPA Well 7	91584		120	-0.002	0.17	0.002	0.073	0.001	100
W611			Well 6	91584		91	0.016	0.17	0.003	0.033	0.001	27
W612			Well 7	91584		90	0.02	0.18	0.004	0.058	0.001	38
W613			Well 5	91584		153	0.003	0.21	0.003	0.14	0.001	74
W614			Well 4	91584		170	0.15	0.15	0.003	0.14	0.001	72
W615			EPA Well 1	91584		250	-0.002	0.17	0.002	0.11	0.001	140
W616			Well 9	91584		125	0.018	0.14	0.003	0.052	0.001	44

PURWT

Sample No.	CD_E	CL_IC	COD_A	CO_E	CR_E	CU_E	F_IC	HARD	HG_CA	MG_E	MO_E	NI_E	NO3	PB_E
Units -)	ug/ml	mg/L	mg/L	ug/ml	ug/ml	ug/ml	mg/L	ug/ml	ug/ml	ug/ml	ug/ml	ug/ml	mg/L	ug/ml
Dct.Lmt.-)	* effective detection limimits follow minus sign									* * effective detection limits follow minu				
W300		-1	8*				-0.1	11*					-1	
W300D		1*	8*				-0.1*	8.5*					-1*	
W302		1	-5				-0.1	11*					-1	
W304		1	28				-0.1	11*					-1	
W306		1	-5				-0.1	11*					-1	
W306D		1	-5				-0.1	12*					-1	
W308		1	-5				-0.1	12*					-1	
W310		1	8*				-0.1	12*					-1	
W312		1	-5				-0.1	12*					-1	
W314		1	-5				-0.1	11*					-1	
W316		1	-5				-0.1	11*					-1	
W318		1	-5				-0.1	11*					-1	
W320		1	-5				-0.1	12*					-1	
W322		-1	-5				-0.1	12*					-1	
W324		-1	-5				-0.1	11*					-1	
W326		-1	8*				-0.1	12*					-1	
W328		1	8*				-0.1	14*					-1	
W330		-1	-5				-0.1	13*					-1	
W332		1	-5				-0.1*	12*					-1	
W348		190	350*				3.7	2100*	0.001				-1	
W405	-0.002	11	32		0.022	0.043	0.1	158	-0.0002			-0.003	1	
W406	-0.002	20	-5		-0.001	0.006	0.1	192	-0.0002			-0.003	17	
W408	0.011	16	64		0.002	-0.001	0.1	132	-0.0002			-0.003	19	
W409	0.072	25	16		-0.001	0.004	0.1	208	-0.0002			-0.003	15	
W410	0.023	29	48		0.004	0.006	-0.1	239	-0.0002			-0.003	24	
W411	-0.002	31	-5		-0.001	-0.001	0.2	351	-0.0002			-0.003	4	
W413	-0.002	29	16		0.002	0.001	0.1	260	-0.0002			-0.003	4	
W442		110	200*				0.7*	670*	0.001				-1	
W585	0.028	76*	10		0.008	-0.001	0.8*	580*	-0.0002			0.025	44*	
W588	0.016	46*	40		-0.001	0.002	0.2*	156*	-0.0002			0.022	13*	
W589	-0.002	3*	10		-0.001	-0.001	0.8*	126*	-0.0002			0.018	-1*	
W590	-0.002	63*	130		-0.001	-0.001	0.3*	330	-0.0002			0.012	10*	
W591	-0.002	5.7*	160		-0.001	-0.001	0.2*	141	-0.0002			0.019	3*	
W593	-0.002	19*	190		-0.001	-0.001	0.1*	250	-0.0002			0.018	5*	
W594	-0.002	37*	15		-0.001	-0.001	0.5*	530	-0.0002			0.007	2*	
W596	-0.002	38*	180		-0.001	-0.001	0.2*	134	-0.0002			0.011	1*	
W597	0.009	36	15*		0.002	0.009	0.3	227*	0.0004			0.017	19	
W598	-0.002	36	15*		0.004	-0.001	-0.1	275*	-0.0002			0.013	22	
W599	-0.002	30	-5*		0.001	-0.001	-0.1	216*	-0.0002			0.017	17	
W602	-0.002	33	62*	0.02	0.03	0.026	-0.1*	280	0.0002	32	0.036	0.04	-1*	0.05
W603	-0.002	4*	46*	0.016	0.02	0.023	-0.1*	92	-0.0002	9.3	0.025	0.041	-1*	-0.08
W602Nalgen														
W603Nalgen														
W604	-0.002	23*	-5*	0.019	0.032	0.029	-0.1*	31	-0.0002	5.5	0.047	0.045	-1*	0.1
W605	-0.002	2*	62*	0.02	0.027	0.03	-0.1*	150	-0.0002	17	0.028	0.049	-1*	0.12
W606	-0.002	99*	77*	0.019	0.027	0.026	0.5*	400	-0.0002	42	0.037	0.055	-1*	0.12
W607	-0.002	21*	78*	0.023	0.028	0.024	-0.1*	260	-0.0002	31	0.033	0.072	12*	0.09
W608	-0.002	75*	78*	0.01	0.022	0.008	1.0*	667	-0.0002	71	0.023	0.049	45*	-0.08
W609	-0.002	6*	46*	0.013	0.018	0.018	-0.1*	200	-0.0002	19	0.02	0.037	-1*	-0.08
W610	-0.002	22*	31*	0.017	0.024	0.011	-0.1*	420	-0.0002	42	0.04	0.041	38*	-0.08
W611	-0.002	7*	62*	0.018	0.019	0.015	-0.1*	125	-0.0002	14	0.025	0.049	3*	0.1
W612	-0.002	7*	31*	0.017	0.02	0.014	-0.1*	190	-0.0002	23	0.028	0.042	-1*	0.1
W613	-0.002	55*	46*	0.016	0.019	0.008	-0.1*	390	-0.0002	49	0.033	0.051	-1*	0.09
W614	-0.002	10*	15*	0.018	0.019	0.01	-0.1*	340	-0.0002	39	0.025	0.054	-1*	-0.08
W615	-0.002	42*	46*	0.008	0.018	-0.001	0.9*	592	-0.0002	59	0.02	0.047	-1*	-0.08
W616	-0.002	34*	-5*	0.021	0.021	0.011	-0.1*	210	-0.0002	25	0.03	0.04	12*	0.09

PURWT

Sample No.	PB_GA	PHEN	SB_E	SB_GA	SE_E	SE_HA	SO3	SO4	S_TIT	TDS	TL_E	TL_GA	TOC	V_E
Units ->	ug/ml	mg/L	ug/ml	ug/ml	ug/ml	ug/ml	mg/L	mg/L	ug/ml	mg/L	ug/ml	ug/ml	mg/L	ug/ml
Dct.Lmt.->	s sign	*	* effective detection limits				follow	minus	sign	*	* eff.dct.lmt.		follow	minus si
W300		0.01					-2*	1	3*	824			-1	
W300D		0.01					-2*	1	3*	861			-1	
W302		0.01					-2*	1	4*	1110			-1	
W304		0.016					-2*	1	3*	932			-1	
W306		0.016					-2*	1	5*	354			-1	
W306D		0.01					-2*	1	-1*	114			-1	
W308		0.01					-2*	1	5*	14			-1	
W310		0.009					-2*	1	4*	97			-1	
W312		0.02					-2*	1	2*	846			-1	
W314		0.009					-2*	1	-1*	125			-1	
W316		0.01					-2*	1	-1*	106			-1	
W318		0.009					-2*	1	-1*	187			-1	
W320		0.015					-2*	1	-1*	115			-1	
W322		-0.005					-2*	1	-1*	105			-1	
W324		0.015					-2*	1	-1*	70			-1	
W326		-0.005					-2*	1	3*	1100			-1	
W328		-0.005					-2*	1	-1*	1010			-1	
W330		-0.005					-2*	1	-1*	18*			-1	
W332		-0.005*					-2*	1	-1*	16*			-1	
W348							-2		-1	1800			63*	
W405	0.002	-0.005*		-0.003		-0.002	-2*	7	-1	226		-0.002	-1*	
W406	-0.002	-0.005*		-0.003		-0.002	-2*	14	-1	290		-0.002	-1*	
W408	0.002	0.49		-0.003		0.002	-2*	8	-1	235		-0.002	-1*	
W409	0.003	-0.005*		-0.003		0.002	-2*	16	-1	330		-0.002	-1*	
W410	-0.002	-0.005*		-0.003		-0.002	-2*	20	-1	355		-0.002	-1*	
W411	0.002	-0.005*		-0.003		-0.002	-2*	70	-1	586		-0.002	2*	
W413	0.002	-0.005*		-0.003		-0.002	-2*	32	-1*	440		-0.002	4*	
W442				-0.003			-2		-1	950			41*	
W585	-0.002*	0.030*		-0.003		-0.002*	-2	260*	-1	1400		-0.002	30	
W588	-0.002*	0.140*		-0.003		-0.002*	-2	48*	-1	580		-0.002	22	
W589	-0.002*	0.040*		-0.003		-0.002*	-2	10*	-1	230		-0.002	6	
W590	-0.002	0.01		-0.003		-0.002	-2	81*	2	610		-0.002	7	
W591	-0.002	-0.005		-0.003		-0.002	-2	37*	2	297		-0.002	2	
W593	-0.002	-0.005		-0.003		-0.002	-2	56*	-1	413		-0.002	4	
W594	-0.002	0.01		-0.003		-0.002	-2	40*	-1	535		-0.002	2	
W596	0.007	0.016		-0.003		-0.002	-2	58*	2	270		-0.002	1	
W597	0.003	-0.005*		-0.003		-0.002	-2	19	2	375*		-0.002	-1	
W598	-0.002	-0.005*		-0.003		-0.002	-2	20	2	420*		-0.002	-1	
W599	-0.002	-0.005*		-0.003		-0.002	-2	18	2	360*		-0.002	-1	
W602	-0.002*	0.020*	0.14	-0.003	0.22	-0.002	-2	320*	-1	735	-0.09	-0.002	6	0.035
W603	-0.002*	0.018*	0.11	-0.003	0.19	-0.002	-2	12*	-1	170	-0.09	-0.002	2	0.046
W602Nalgen														
W603Nalgen														
W604	-0.002*	0.11	0.11	-0.003	0.24	-0.002	-2	29*	-1	290	-0.09	-0.002	22	0.059
W605	-0.002*	0.01	0.14	-0.003	0.2	-0.002	-2	4*	-1	390	-0.09	-0.002	5	0.031
W606	-0.002*	0.026	0.14	-0.003	0.2	-0.002	-2	170*	-1	635	-0.09	-0.002	12	0.039
W607	-0.002*	-0.005	0.12	-0.003	0.17	-0.002	-2	21*	-1	370	-0.09	-0.002	1	0.061
W608	-0.002*	0.026	0.11	-0.003	0.16	-0.002	-2	32*	-1	1400	-0.09	-0.002	6	0.02
W609	-0.002*	0.008	0.11	-0.003	0.13	-0.002	-2	27*	-1	275	-0.09	-0.002	6	0.025
W610	-0.002*	0.03	0.11	-0.003	0.18	-0.002	-2	31*	-1	520	-0.09	-0.002	1	0.027
W611	-0.002*	-0.005	0.12	-0.003	0.22	-0.002	-2	14*	-1	200	-0.09	-0.002	1	0.03
W612	-0.002*	0.01	0.12	-0.003	0.18	-0.002	-2	17*	-1	260	-0.09	-0.002	2	0.021
W613	-0.002*	0.01	0.13	-0.003	0.2	-0.002	-2	66*	-1	620	-0.09	-0.002	8	0.015
W614	-0.002*	0.026	0.11	-0.003	0.18	-0.002	-2	19*	-1	410	-0.09	-0.002	9	0.023
W615	-0.002*	0.026	0.1	-0.003	0.15	-0.002	-2	235*	-1	1400	-0.09	-0.002	2	0.015
W616	-0.002*	0.03	0.08	-0.003	0.18	-0.002	-2	30*	-1	325	-0.09	-0.002	1	0.016

PURWT

Sample No.	ZN_E	TetraE Lead	DILUT FACTOR	2V	3V	4V	EPA 6V	7V	10V	11V	13V	14V	EPA 15V	16V	17V
Units -)	ug/ml		--)	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Dct.Lmt.-)	gn *			100	100	10	10	10	10	10	10	10	10	10	10
W300			1	0	0	0	0	0	0	0	0	0	0	0	0
W300D															
W302															
W304															
W306															
W306D															
W308															
W310															
W312															
W314															
W316															
W318			1	0	0	0	0	0	0	0	0	0	0	0	0
W320															
W322															
W324															
W326															
W328															
W330															
W332			1	0	0	0	0	0	0	0	0	0	0	0	0
W348			100	0	0	0	0	0	0	0	0	0	0	0	0
W405	0.052		1	0	0	0	0	0	0	0	0	0	0	0	0
W406	0.04		1	0	0	0	0	0	0	0	0	0	0	0	0
W408	0.008		1	0	0	0	0	0	0	0	0	0	0	0	0
W409	0.092		1	0	0	0	0	0	0	0	0	0	0	0	0
W410	0.14		1	0	0	0	0	0	0	0	0	0	0	0	0
W411	0.094		1	0	0	0	0	0	0	0	0	0	0	0	0
W413	0.19		1	0	0	0	0	0	0	0	0	0	0	0	0
W442			1	0	0	0	0	0	0	0	0	0	0	0	0
W585	0.2		1	0	0	0	0	0	0	0	0	0	0	0	0
W586	0.074		1	0	0	0	0	0	0	0	0	0	0	0	0
W589	0.04		1	0	0	0	0	0	0	0	0	0	0	0	0
W590	0.035		1	0	0	0	0	0	0	0	0	0	0	0	0
W591	0.052		1	0	0	0	0	0	0	0	0	0	0	0	0
W593	0.27		1	0	0	0	0	0	0	0	0	0	0	0	0
W594	0.074		1	0	0	0	0	0	0	0	0	0	0	0	0
W596	0.013		1	0	0	0	0	0	0	0	0	0	0	0	0
W597	0.047		1	0	0	0	0	0	0	0	0	0	0	0	0
W598	0.24		1	0	0	0	0	0	0	0	0	0	0	0	0
W599	0.2		1	0	0	0	0	0	0	0	0	0	0	0	0
W602	-0.003		1	0	0	0	0	0	0	0	0	0	0	0	0
W603	0.031		1	0	0	0	0	0	0	0	0	0	0	0	0
W602Nalgen															
W603Nalgen															
W604	-0.003		1	0	0	0	0	0	0	0	0	0	0	0	0
W605	0.044		1	0	0	0	0	0	0	0	0	0	0	0	0
W606	-0.003		1	0	0	0	0	0	0	0	0	0	0	0	0
W607	0.02		1	0	0	0	0	0	0	0	0	0	0	0	0
W608	0.024		1	0	0	0	0	0	0	0	0	0	0	0	0
W609	0.035		1	0	0	11	0	0	0	0	0	0	0	0	0
W610	-0.003		1	0	0	0	0	0	0	0	0	0	0	0	0
W611	-0.003		1	0	0	0	0	0	0	0	0	0	0	0	0
W612	0.02		1	0	0	0	0	0	0	0	0	0	0	0	0
W613	-0.003		1	0	0	0	0	0	0	0	0	0	0	0	0
W614	0.048		1	0	0	0	0	0	0	0	0	0	0	0	0
W615	0.047		1	0	0	0	0	0	0	0	0	0	0	0	0
W616	0.023		1	0	0	0	0	0	0	0	0	0	0	0	0

PURWT

Sample	**********			EPA	**********					EPA	**********					
No.	19V	23V	29V	30V	32V	33V/C	33V/T	38V	44V	45V	46V	47V	48V	49V	50V	51V
Units -)	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Dct.Lmt.-)	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
W300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W300D																
W302																
W304																
W306																
W306D																
W308																
W310																
W312																
W314																
W316																
W318	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W320																
W322																
W324																
W326																
W328																
W330																
W332	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W348	0	0	0	630	0	0	0	0	0	0	0	0	0	0	0	0
W405	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W406	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W408	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W409	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W410	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W411	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W413	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W442	0	0	0	44	0	0	0	0	0	0	0	0	0	0	0	0
W585	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W588	0	0	0	26	0	0	0	0	0	0	0	0	0	0	0	0
W589	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W590	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0
W591	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W593	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W594	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W596	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W597	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W598	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W599	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W602	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W603	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W602Nalgen																
W603Nalgen																
W604	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W605	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W606	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0
W607	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W608	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W609	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W610	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W611	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W612	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W613	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0
W614	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0
W615	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W616	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

PURWT

Sample	*****	EPA	**********		CONC.	**********			EPA	**********					EPA	******
No.	85V	86V	87V	88V	FACTOR	21A	22A	24A	31A	34A	57A	58A	59A	60A	64A	65A
Units -)	ug/l	ug/l	ug/l	ug/l	--)	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Dct.Lmt.-)	10	10	10	10		25	25	25	25	25	25	25	25	250	25	25
W300	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0
W300D																
W302																
W304																
W306																
W306D																
W308																
W310																
W312																
W314																
W316																
W318	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
W320																
W322																
W324																
W326																
W328																
W330																
W332	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
W348	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
W405	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
W406	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
W408	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
W409	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
W410	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
W411	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
W413	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
W442	0	0	0	0	2	0	0	0	0	5	0	0	0	0	0	5
W585	0	9.7	0	0	2	0	0	0	0	0	0	0	0	0	0	0
W586	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
W589	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
W590	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
W591	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
W593	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
W594	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
W596	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
W597	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
W598	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
W599	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
W602	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0
W603	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0
W602Nalgen					1	0	0	0	0	0	0	0	0	0	0	0
W603Nalgen					1	0	0	0	0	0	0	0	0	0	0	0
W604	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0
W605	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0
W606	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0
W607	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0
W608	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0
W609	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0
W610	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0
W611	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0
W612	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0
W613	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0
W614	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0
W615	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0
W616	0	0	0	0												

PURWT

Sample No.	CONC. FACTOR	1B	5B	8B	9B	EPA 12B	18B	20B	25B	26B	27B	EPA 28B	35B	36B	37B	39B
Units -)	--)	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Det.Lmt.-)		10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
W300	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W300D																
W302																
W304																
W306																
W306D																
W308																
W310																
W312																
W314																
W316																
W318	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W320																
W322																
W324																
W326																
W328																
W330																
W332	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W348	2	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0
W405	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W406	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W408	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W409	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W410	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W411	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W413	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W442	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W585	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W588	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W589	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W590	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W591	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W593	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W594	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W596	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W597	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W598	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W599	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W602	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W603	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W602Nalgen	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W603Nalgen	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W604		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W605		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W606		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W607		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W608		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W609		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W610		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W611		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W612		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W613		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W614		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W615		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W616																

PURWT

Sample	*****	EPA	**********					EPA	**********					EPA	**********	
No.	40B	41B	42B	43B	52B	53B	54B	55B	56B	61B	62B	63B	66B	67B	68B	69B
Units -)	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Dct.Lmt.-)	10	10	10	10	10	10	10	10	10	ND	10	10	10	10	10	10
W300	0	0	0	0	0	0	0	0	0	0	0	0	14	0	0	134
W300D																
W302																
W304																
W306																
W306D																
W308																
W310																
W312																
W314																
W316																
W318	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W320																
W322																
W324																
W326																
W328																
W330																
W332	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W348	0	0	0	0	0	0	300	52	0	0	0	0	0	0	0	0
W405	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W406	0	0	0	0	0	0	0	0	0	0	0	0	106	0	0	26
W408	0	0	0	0	0	0	0	0	0	0	0	0	94	0	0	54
W409	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W410	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W411	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W413	0	0	0	0	0	0	0	0	0	0	0	0	26	0	10	0
W442	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W585	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W586	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W589	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W590	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W591	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W593	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W594	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W596	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W597	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W598	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W599	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W602	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W603	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W602Nalgen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W603Nalgen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W604	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W605	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W606	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W607	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W608	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W609	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W610	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W611	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0
W612	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W613	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W614	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W615	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W616																

PURWT

Sample	**********			EPA	**********					EPA	**********					
No.	70B	71B	72B	73B	74B	75B	76B	77B	78B	79B	80B	81B	82B	83B	84B	129B
Units -)	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Dct.Lmt.-)	10	10	10	10	10	10	10	10	10	25	10	10	25	25	10	ND
W300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W300D																
W302																
W304																
W306																
W306D																
W308																
W310																
W312																
W314																
W316																
W318	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W320																
W322																
W324																
W326																
W328																
W330																
W332	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W348	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W405	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W406	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W408	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W409	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W410	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W411	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W413	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W442	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W585	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W588	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W589	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W590	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W591	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W593	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W594	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W596	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W597	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W598	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W599	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W602	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W603	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W602Nalgen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W603Nalgen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W604	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W605	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W606	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W607	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W608	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W605	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W610	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W611	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W612	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W613	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W614	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W615	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W616																

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    PURWT
Sample
No.       ******  GCMS  Characterization ****************************************
Units -)                        ug/l
Dct.Lmt.-)
W300      10 unident.esters of phthallic acid(42,31,22,78,25,8.2,27,3.5,
W300D
W302
W304
W306
W306D
W308
W310
W312
W314
W316
W318      analysis not requested
W320
W322
W324
W326
W328
W330
W332      analysis not requested
W348      eicosane(27);heneicosane(39);2-methylhexadecane(44);
W405      none
W406      none
W408      C9 saturated aliphatic hydrocarbon(26)
W409      none
W410      none
W411      none
W413      none
W442      2-methylpropane(10);oleicacid,3-hydroxypropylester(77);
W585      1-heptanol,2-propyl(40);octacosane(46);trimethyl-nonene(25);
W588      2-phenyl-naphthol-thiophene(17);1-propanol,3(diethylamino)(44);
W589      teteamethoxy-butane(26);(2-ethenyloxy)ethoxy-ethanol(16);
W590      dodecanoic acid(13);hexadecanoic acid(13);undecanenitrile(20);
W591      benzothiazole (21);unknown (35);unknown (23)
W593      none
W594      2H-azepin-2-one,hexahydro (27);dodecanoic acid (9)
W596      2H-azepin-2-one,hexahydro (70)
W597      none
W598      none
W599      none
W602      1-propene,3,3,3-trichloro-(11);dodecanoicacid(110);
W603      2-pyrrolicinecarboxylicacid,1,2-dimeth-5-oxo-,methylester(16)
W602Nalgen
W603Nalgen
W604      none
W605      2-pyrrolicinecarboxylicacid,1,2-dimeth-5-oxo-,methylester(80)
W606      hexane,3-methoxy-(26);dodecanoicacid(416);
W607      none
W608      2-cyclohexen-1-ol(15);2-cyclohexen-1-one(18);
W609      2,5-cyclohexadiene-1,4-dione,2,3-dimethyl-(64);
W610      2-cyclohexen-1-ol(14);2-cyclohexen-1-one(19);
W611      2-cyclohexen-1-one(12);nonanoicacid(29);
W612      2-cyclohexen-1-ol(9);2-cyclohexen-1-one(14);
W613      2-cyclohexen-1-ol(10);1h-pyrazole(5);
W614      octanoicacid(388);dodecanoicacid(1450);
W615      2-cyclohexen-1-one(10);furan,2,5-diethyltetrahydro-(27);
W616
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PURWT

Sample No.	****** GCMS Characterization ******
Units -)	ug/l
Dct.Lmt.-)	
W300	3.0,16)
W300D	
W302	
W304	
W306	
W306D	
W308	
W310	
W312	
W314	
W316	
W318	
W320	
W322	
W324	
W326	
W328	
W330	
W332	
W348	heptadecane(34);2,6,10,14-tetramethyl-pentadecane(51);
W405	
W406	
W408	
W409	
W410	
W411	
W413	
W442	hexadecanoicacid(77);tetradecanoicacid(113);
W585	cyclohexane(68);1-undecene(55)
W588	benzothiazole,2-(4-morpholinyl)(54);hexadecane (140)
W589	2-(4-morpholinyl)benzothiazole(46);hexadecane(310)
W590	unknown (29)
W591	
W593	
W594	
W596	
W597	
W598	
W599	
W602	pyridine,1,2,3,6-tetrahydro-1-nitroso-(6)
W603	
W602Nalgen	
W603Nalgen	
W604	
W605	
W606	tetradecanoicacid(97);butane,2-methoxy-2,3,3-trimethyl-(19);
W607	
W608	1-propene,3,3,3-trichloro-(8);octanoicacid(13);
W609	decanoicacid(729);dodecanoicacid(3300);tetradecanoicacid(779);
W610	1-hexyne,5-methyl-(72);2-propanol,2-methyl-(6);
W611	ethanone,1-[4-(1-hydroxy-1-methylethyl)phenyl]-(37);
W612	2-pyrrolidinecarboxylicacid,1,2-dimethy-5-oxo-,methylester(1);
W613	1-propene,3,3,3-trichloro-(9);ethane,1,1'-oxybis[2-ethoxy-(18);
W614	4-penten-2-one,4-methyl-(47);tetradecanoicacid(355);
W615	nonanoicacid(26);decanoicacid(5);1-dodecyne(19);
W616	

PURWT

Sample No.	****** GCMS Characterization ******
Units -)	ug/l
Dct.Lmt.-)	
W300	
W300D	
W302	
W304	
W306	
W306D	
W308	
W310	
W312	
W314	
W316	
W318	
W320	
W322	
W324	
W326	
W328	
W330	
W332	
W348	2-butoxyethoxy-ethanol(112);hexadecane(47)
W405	
W406	
W408	
W409	
W410	
W411	
W413	
W442	dodecanoicacid(130);1,2-benzenediol,3-fluoro(23)
W585	
W588	
W589	
W590	
W591	
W593	
W594	
W596	
W597	
W598	
W599	
W602	
W603	
W602Nalgen	
W603Nalgen	
W604	
W605	
W606	3-hepten-2-one,4-methyl-(22)
W607	
W608	furan,2,5-diethyltetrahydro-(69);dodecanoicacid(100);
W609	hexadecanoicacid(528);ethanol,2-[2-(ethenyloxy)ethoxy]-(121);
W610	2-pyrrolicinecarboxylicacid,1,2-dimeth-5-oxo-,methylester(14)
W611	benzenemethanol,.alpha.,.alpha.-dimethyl-(28);
W612	ethanone,1,1'-(1,4-phenylene)bis-(5);
W613	1,3,4-thiadiazolium,5-hydroxy-3-meth-2-phen-,hydrox,innrslt(3);
W614	cyclopropane,octyl-(30);hexadecanoicacid(361);
W615	2-pyrrolidinecarboxylicacid,1,2-dimethyl-5-oxo-,methlester(4);
W616	

PURWT

Sample No.	****** GCMS Characterization ******
Units -)	ug/l
Dct.Lmt.-)	
W300	
W300D	
W302	
W304	
W306	
W306D	
W308	
W310	
W312	
W314	
W316	
W318	
W320	
W322	
W324	
W326	
W328	
W330	
W332	
W348	
W405	
W406	
W408	
W409	
W410	
W411	
W413	
W442	
W585	
W588	
W589	
W590	
W591	
W593	
W594	
W596	
W597	
W598	
W599	
W602	
W603	
W602Nalgen	
W603Nalgen	
W604	
W605	
W606	
W607	
W608	nonanoicacid(34);nonanoicacid(29);
W609	cyclodecane,methyl-(193);decanoicacid(215);
W610	1-dodecyne(69);heptane,5-ethyl-2-methyl(15);
W611	dodecanoicacid(230);tetradecanoicacid(93);
W612	benzenepentanamine,hydrochloride(14);
W613	3-hexanol,3,5-dimethyl-(14);1h-isoindole,2,3-dihydro-(6);
W614	1-butanol,4-(hexyloxy)-(20);cyclodecane,methyl-(194);
W615	heptane,3,3,5-trimethyl-(4);2-propenoicacid,octylester(19)
W616	

PURWT

Sample No.	****** GCMS Characterization ******
Units -)	ug/l
Det.Lmt.-)	
W300	
W300D	
W302	
W304	
W306	
W306D	
W308	
W310	
W312	
W314	
W316	
W318	
W320	
W322	
W324	
W326	
W328	
W330	
W332	
W348	
W405	
W406	
W408	
W409	
W410	
W411	
W413	
W442	
W585	
W588	
W589	
W590	
W591	
W593	
W594	
W596	
W597	
W598	
W599	
W602	
W603	
W602Nalgen	
W603Nalgen	
W604	
W605	
W606	
W607	
W608	butanedioicacid,2,3-dihydroxy-[r-(r*,r*)]-,dimethylester(7);
W609	cyclopentane,1-methyl-2-propyl-(262);3-hexanol,2-ethyl-(242);
W610	propane,1,2-dimethoxy-(4);2,6-pyrazinediamine(45);
W611	cyclopropane,octyl-(23);nonanoicacid(64);
W612	cyclohexanone,4-methyl-(6);1-dodecyne(33);
W613	1h-indole-3-aceticacid,5-hydroxy-,methylester(4);
W614	decanoicacid(106);1-dodecyne(47);
W615	
W616	

PURWT

Sample No.	****** GCMS Characterization ******
Units -)	ug/l
Dct.Lmt.-)	
W300	
W300D	
W302	
W304	
W306	
W306D	
W308	
W310	
W312	
W314	
W316	
W318	
W320	
W322	
W324	
W326	
W328	
W330	
W332	
W348	
W405	
W406	
W408	
W409	
W410	
W411	
W413	
W442	
W585	
W588	
W589	
W590	
W591	
W593	
W594	
W596	
W597	
W598	
W599	
W602	
W603	
W602Nalgen	
W603Nalgen	
W604	
W605	
W606	
W607	
W608	heptane,5-ethyl-2-methyl-(30);
W609	heptane,5-ethyl-2-methyl(45);heptane,4-propyl-(111);
W610	benzeneethanamine,n,4-dimethyl-n-(2-phenylethyl)-(6)
W611	1h-1,2,4-triazol-3-amine,5-methyl-(6);
W612	1-decene,2,4-dimethyl-(8);3-nonanol(28)
W613	cyclopentane,(2-methylpropyl)-(5);benzothiazole(3);
W614	2-pyrrolidinecarboxylicacid,1,2-dimethyl-5-oxo-,methlester(75);
W615	
W616	

PURWT

Sample No.	****** GCMS Characterization ******
Units -)	ug/l
Dct.Lmt.-)	
W300	
W300D	
W302	
W304	
W306	
W306D	
W308	
W310	
W312	
W314	
W316	
W318	
W320	
W322	
W324	
W326	
W328	
W330	
W332	
W348	
W405	
W406	
W408	
W409	
W410	
W411	
W413	
W442	
W585	
W588	
W589	
W590	
W591	
W593	
W594	
W596	
W597	
W598	
W599	
W602	
W603	
W602Nalgen	
W603Nalgen	
W604	
W605	
W606	
W607	
W608	cyclopentanemethanol,.alpha.,.alpha.-dimethyl-(30)
W609	1-octanol,2,2-dimethyl-(279);pentadecane,5-methyl-(411);
W610	
W611	cyclooctane,1,4-dimethyl-,cis-(45);
W612	
W613	sulfur,mol.(S8)(34);cyclopropane,octyl-(14);
W614	heptane,5-ethyl-2-methyl-(24);heptane,4-ethyl-(52);
W615	
W616	

PURWT

Sample No.	****** GCMS Characterization ******
Units -)	ug/l
Dct.Lmt.-)	
W300	
W300D	
W302	
W304	
W306	
W306D	
W308	
W310	
W312	
W314	
W316	
W318	
W320	
W322	
W324	
W326	
W328	
W330	
W332	
W348	
W405	
W406	
W408	
W409	
W410	
W411	
W413	
W442	
W585	
W588	
W589	
W590	
W591	
W593	
W594	
W596	
W597	
W598	
W599	
W602	
W603	
W602Nalgen	
W603Nalgen	
W604	
W605	
W606	
W607	
W608	
W609	1-decanol,2,-dimethyl-(418);
W610	
W611	2-pyrrolidinecarboxylicacid,1,2-dimethyl-5-oxo-,methylest(55);
W612	
W613	2-pyrrolidinecarboxylicacid,1,2-dimethyl-5-oxo-,methylest(17);
W614	1,3-dioxolane,4-heptadecyl-2,2,5-trimethyl-,cis-(79);
W615	
W616	

PURWT

Sample No.	****** GCMS Characterization ******
Units ->	ug/l
Dct.Lmt.->	
W300	
W300D	
W302	
W304	
W306	
W306D	
W308	
W310	
W312	
W314	
W316	
W318	
W320	
W322	
W324	
W326	
W328	
W330	
W332	
W348	
W405	
W406	
W408	
W409	
W410	
W411	
W413	
W442	
W585	
W586	
W589	
W590	
W591	
W593	
W594	
W596	
W597	
W598	
W599	
W602	
W603	
W602Nalgen	
W603Nalgen	
W604	
W605	
W606	
W607	
W608	
W609	ethanol,2,2'-[1,2-ethanediylbis(oxy)]bis-(140);
W610	
W611	pentanamide,4-methyl-(13);heptane,5-ethyl-2-methyl-(15);
W612	
W613	1-dodecyne(36); 1-hexene,3,5,5-trimethyl-(15);
W614	3-hexene,1-(1-methoxyethoxy)-,(E)-(38);
W615	
W616	

Sample No.	PURWT	****** GCMS Characterization ******
Units -)		ug/l
Dct.Lmt.-)		
W300		
W300D		
W302		
W304		
W306		
W306D		
W308		
W310		
W312		
W314		
W316		
W318		
W320		
W322		
W324		
W326		
W328		
W330		
W332		
W348		
W405		
W406		
W408		
W409		
W410		
W411		
W413		
W442		
W585		
W588		
W589		
W590		
W591		
W593		
W594		
W596		
W597		
W598		
W599		
W602		
W603		
W602Nalgen		
W603Nalgen		
W604		
W605		
W606		
W607		
W608		
W609		2h-1,3-thiazine-6-carboxylicacid,tetrahydro-4-oxo-3-phenyl(72);
W610		
W611		3-isoxazolamine,5-methyl-(8);1,2-cyclopentanediol,3-methyl(57);
W612		
W613		cyclopentanemethanol,.alpha.,.alpha.-dimethyl-(30)
W614		decane,3-ethyl-3-methyl-(89);hexanal,3,3-dimethyl-(53):
W615		
W616		

PURWT

Sample No.	****** GCMS Characterization ******
Units -)	ug/l
Dct.Lmt.-)	
W300	
W300D	
W302	
W304	
W306	
W306D	
W308	
W310	
W312	
W314	
W316	
W318	
W320	
W322	
W324	
W326	
W328	
W330	
W332	
W348	
W405	
W406	
W408	
W409	
W410	
W411	
W413	
W442	
W585	
W588	
W589	
W590	
W591	
W593	
W594	
W596	
W597	
W598	
W599	
W602	
W603	
W602Nalgen	
W603Nalgen	
W604	
W605	
W606	
W607	
W608	
W609	
W610	
W611	heptane,2,3-dimethyl-(25);decane,3-ethyl-3-methyl-(44);
W612	
W613	
W614	dodecanoicacid,ethenylester(180);
W615	
W616	

PURWT

Sample No.	****** GCMS Characterization ******
Units -)	ug/l
Dct.Lmt.-)	
W300	
W300D	
W302	
W304	
W306	
W306D	
W308	
W310	
W312	
W314	
W316	
W318	
W320	
W322	
W324	
W326	
W328	
W330	
W332	
W348	
W405	
W406	
W408	
W409	
W410	
W411	
W413	
W442	
W585	
W588	
W589	
W590	
W591	
W593	
W594	
W596	
W597	
W598	
W599	
W602	
W603	
W602Nalgen	
W603Nalgen	
W604	
W605	
W606	
W607	
W608	
W609	
W610	
W611	dodecanoicacid,ethenylester(47);
W612	
W613	
W614	1-heptanol,2,4-dimethyl-,(2s,4r)-(-)-(206)
W615	
W616	

Appendix F

QUALITY CONTROL INFORMATION

HNU #1

RADIAN CORPORATION

MULTIPOINT CALIBRATION DATA

C_6H_6 PARAMETER

Site: PURITY / FRESNO

Engineer: D. RANUM

Date: Hour 6-4-84

Instrument Model HNU PI-101

Instrument S/N: 1

Instrument Range: 0-2 ppm

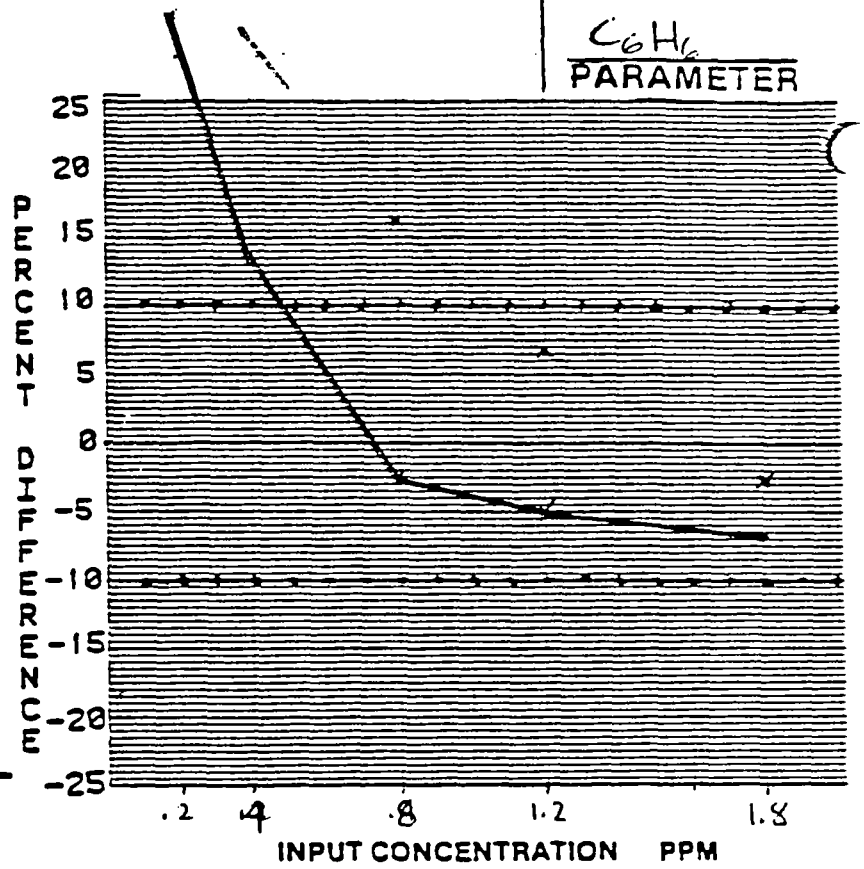
Calibrator: RAD II

Serial No.: 1005

Source Gas Cyl. No.: AAL 10951

Concentration: 5.95 ppm C_6H_6 PPM

Ultra-pure Air Cylinder No. N101186



Unadjusted: Recalibrate if Response Greater Than ± 10 Percent

	Source Flow SCCM %	Dilution Flow SCCM %	Input Concentration (ppm), A	Analyzer Response (ppm), B	Percent Difference $(\frac{B-A}{A})\times 100 = \%$	
CH_4 CAPS			0.000	.09		RF
LOW	30	11.3	.2	.32	60.0	0.625
HIGH	0	71.5	.4	.53	32.5	0.754
	10	35.7	.8	.93	16.25	0.860
	30	35.6	1.2	1.28	6.7	0.937
	60	28.6	1.8	1.75	-2.8	1.029

Corr -0.9177 $\overline{RF}$ = .8413

Adjusted: Adjust Analyzer Response at 40 Percent of Full Scale

6/6/84			0.000	.11		RF
MULTIPOINT			.2	.27	35.0	.740
PERFORMED			.4	.45	12.5	.888
DUE TO			.8	.78	-2.5	1.026
RESPONSE FACTOR			1.2	1.14	-5.0	1.053
>15% OF			1.8	1.68	-6.7	1.071

Corr: -.8280 $\overline{RF}$ = .9559

PREVIOUS MULTIPOINT (6-4-84)

Span pot = 0.52

RADIAN

MULTIPOINT CALIBRATION DATA

HNU #1
C_6H_6
PARAMETER

Site: PURITY/FRESNO

Sheet: D. RANUM

Date: Hour 6-7-84 830

Instrument Model HNU PI-101

Instrument S/N: #1

Instrument Range: 0-2 ppm

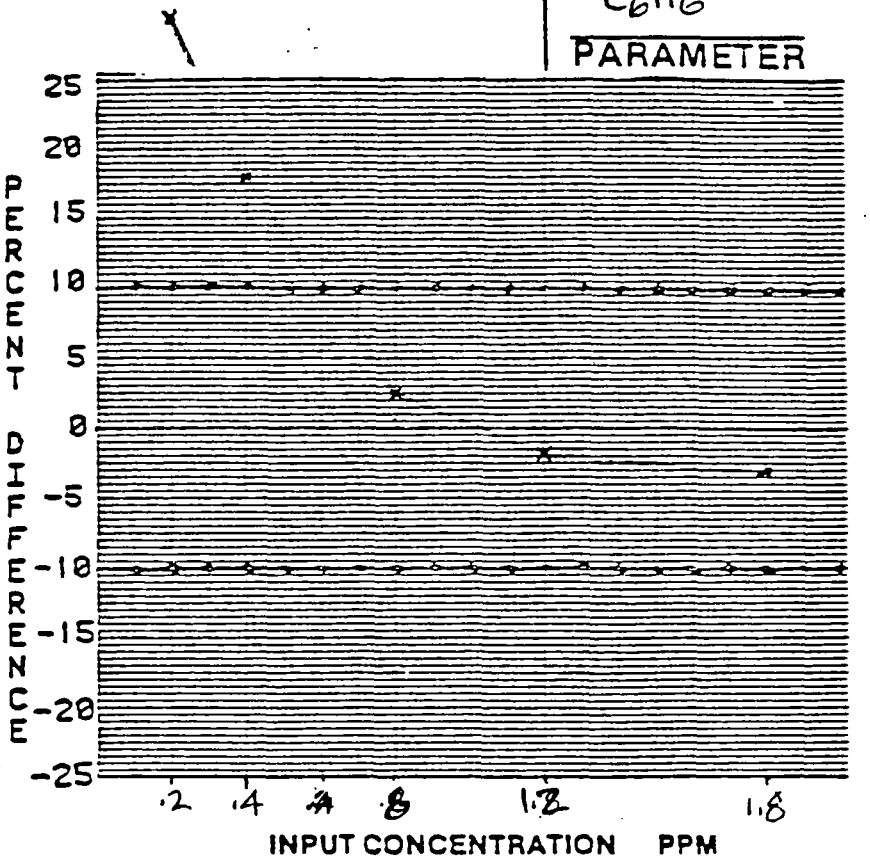
Calibrator: RAD II

Serial No.: 1005

Source Gas Cyl. No.: AAL 10951

Concentration: 5.95 ppm C_6H_6 PPM

Ultra-pure Air Cylinder No. N10186



Unadjusted: Recalibrate if Response Greater Than ± 10 Percent

Source Flow SCCM %	Dilution Flow SCCM %	Input Concentration (ppm), A	Analyzer Response (ppm), B	Percent Difference $(\frac{B-A}{A}) \times 100 = \%$	RF
		0.000	.1		
30	11.3	.2	.26	30.0	.7692
0	71.5	.4	.47	17.5	.8511
10	35.7	.8	.82	2.5	.9756
30	35.6	1.2	1.18	-1.7	1.017
60	28.6	1.8	1.75	-2.8	1.028

H_4 CAPS ON HIGH

$\overline{RF} = 0.9282$

Adjusted: Adjust Analyzer Response at 40 Percent of Full Scale

		0.000		

Comments: MULTIPOINT PERFORMED DUE TO RF > 15%
SPAN POT = 0.52

RADIAN CORPORATION

MULTIPOINT CALIBRATION DATA

HNU #1

Cl4H6

PARAMETER

Site: PURITY/FRESNO

Engineer: D. RANUM

Date: Hour 6.12.94 730

Instrument Model HNU PI-101

Instrument S/N: 1

Instrument Range: 0-2 ppm

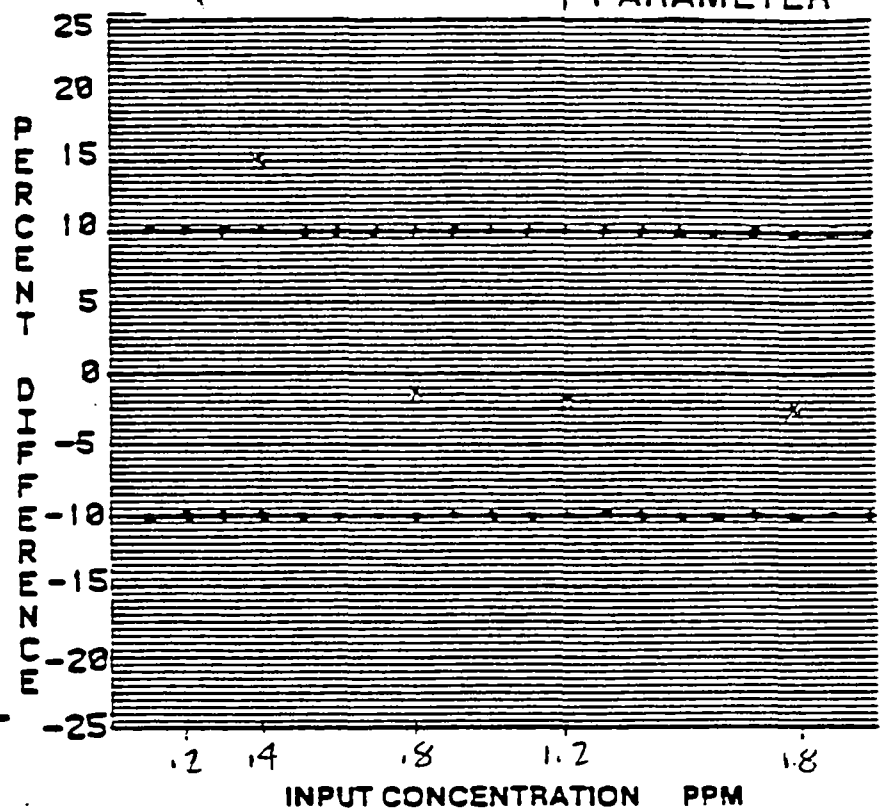
Calibrator: RADII

Serial No.: 1005

Source Gas Cyl. No.: AAL 10951

Concentration: 5.95 ppm C4H6 PPM

Ultra-pure Air Cylinder No. N261044



Unadjusted: Recalibrate if Response Greater Than ± 10 Percent

C4H6 CAPS

Source Flow SCCM %	Dilution Flow SCCM	Input Concentration (ppm), A	Analyzer Response (ppm), B	Percent Difference $(\frac{B-A}{A}) \times 100 = \%$
		0.000		
30	11.3	.2	.26	30.0
0	71.5	.4	.46	15.0
10	25.7	.8	.79	-1.25
30	35.6	1.2	1.18	-1.7
60	28.6	1.8	1.76	-2.2

LOW HIGH

$\overline{RF} = .9384$

Adjusted: Adjust Analyzer Response at 40 Percent of Full Scale

		0.000		

Figure 7-1. Multipoint Calibration Data Form

span pot = 0.24

RADIAN CORPORATION

MULTIPOINT CALIBRATION DATA

HNU #1
C_6H_6
PARAMETER

Site: PUPITY/FRESNO

Engineer: R. STEPHENS

Date: Hour 6-27-84 900

Instrument Model HNUPI-101

Instrument S/N: #1

Instrument Range: 0-2PPM

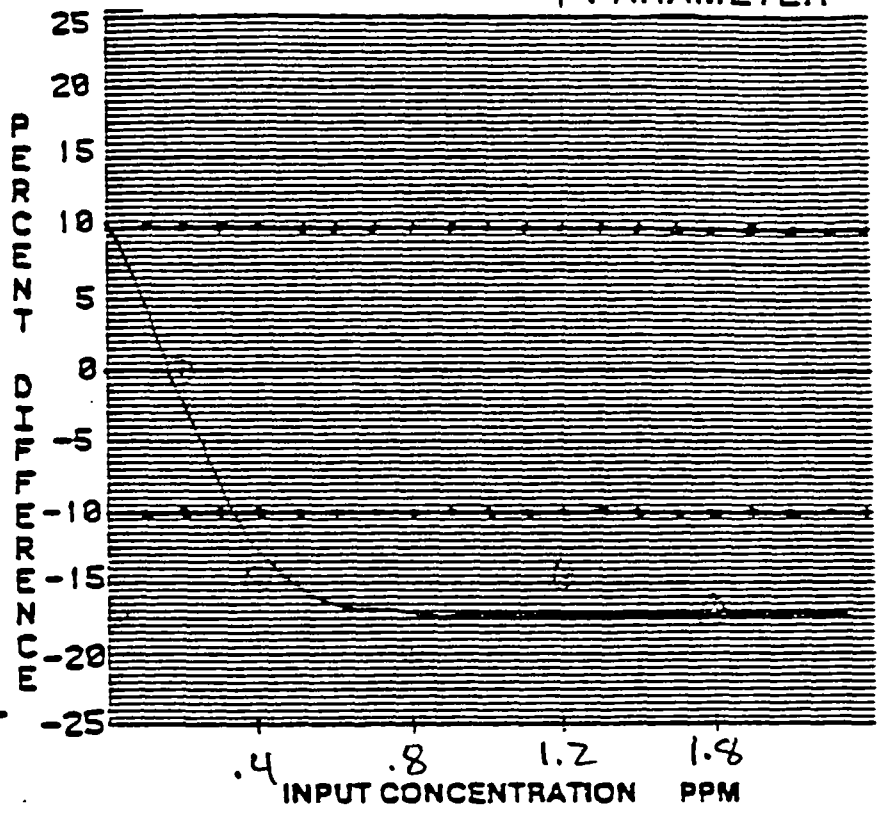
Calibrator: RAD 2C

Serial No.: 803

Source Gas Cyl. No.: AAL 10951

Concentration: 5.95 PPM C_6H_6 PPM

Ultra-pure Air Cylinder No. CC 12248



Unadjusted: Recalibrate if Response Greater Than ± 10 Percent

	Source Flow SCCM	Dilution Flow SCCM	Input Concentration (ppm), A	Analyzer Response (ppm), B	Percent Difference $(\frac{B-A}{A}) \times 100 = \%$	RF
L	—	—	0.000	0.02		
H	100%	38.5%	0.20	0.20	0	1.00
H	0%	62.5%	0.40	0.34	-15%	1.17
H	70%	55%	0.80	0.64	-20%	1.25
H	60%	72%	1.20	1.04	-13.3%	1.15
	80%	39%	1.80	1.50	-16.7%	1.20

AVG = -13% RF 1.155

Adjusted: Adjust Analyzer Response at 40 Percent of Full Scale

		0.000		

Figure 7-1. Multipoint Calibration Data Form

* GAIN SENSITIVITY ADJUSTMENT @ 0.0 (MAX. SENSITIVITY) LAMP WAS [illegible]

RADIAN CORPORATION

MULTIPOINT CALIBRATION DATA

HNU #1

Site: Purity / Fremont

Engineer: D. Ranum

Date: Hour 6/22/94 1200

Instrument Model HNU # PI-101

Instrument S/N: 1

Instrument Range: 0-2 ppm

Calibrator: RAD II

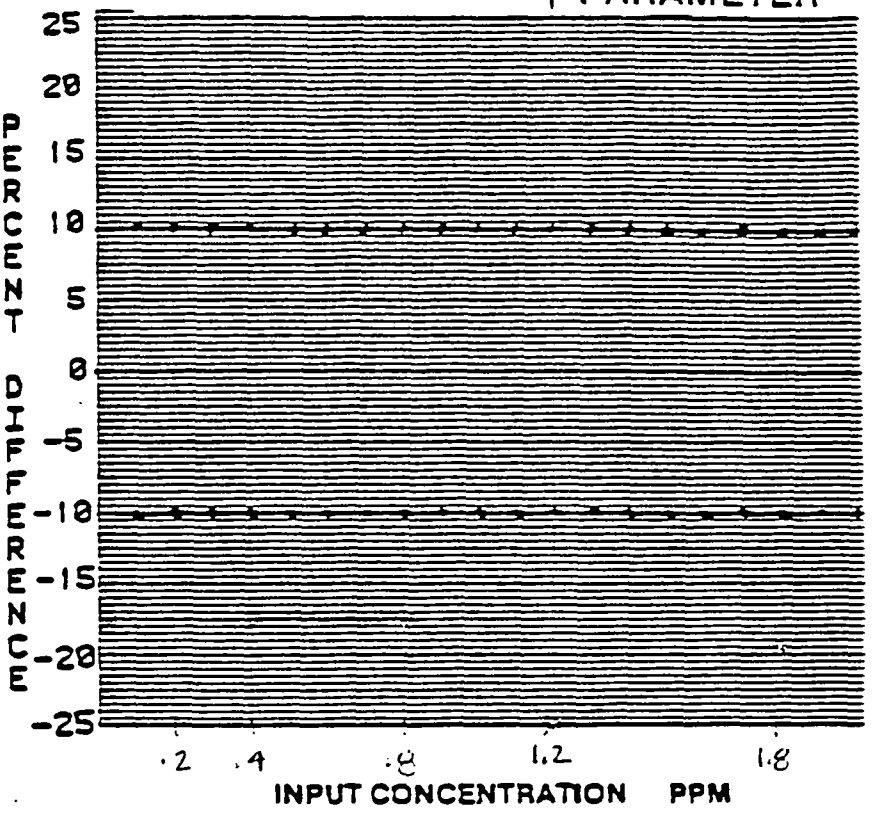
Serial No.: 1005

Source Gas Cyl. No.: AAL 10951

Concentration: 5.05 ppm PPM

Ultra-pure Air Cylinder No. CC17249

PARAMETER



Unadjusted: Recalibrate if Response Greater Than ± 10 Percent

Source Flow SCCM %	Dilution Flow SCCM %	Input Concentration (ppm), A	Analyzer Response (ppm), B	Percent Difference $(\frac{B-A}{A}) \times 100 = \%$	RF
		0.000			
30	1.3	.2	.2	0.0	1.000
0	7.5	.4	.32	-17.5	1.212
10	35.7	.8	.66	-17.5	1.212
30	35.6	1.2	.9	-25.0	1.333
[illegible]	25.6	1.8	1.45	-19.4	1.24

Cite Caps

Low

High

Adjusted: Adjust Analyzer Response at 40 Percent of Full Scale

RF = 1.2

Corr = .9977

		0.000		
Instrument adjusted to [illegible] 1.73 ppm [illegible]				
Span pot = 30.22				

Figure 7-1. Multipoint Calibration Data Form

RADIAN CORPORATION

MULTIPOINT CALIBRATION DATA

HNU #1

PARAMETER

Site: PURITY/FRESNO

Engineer: D. RANUM

Date: Hour 6/29/84 730

Instrument Model HNU PI-101

Instrument S/N: 1

Instrument Range: 0-2 PPM

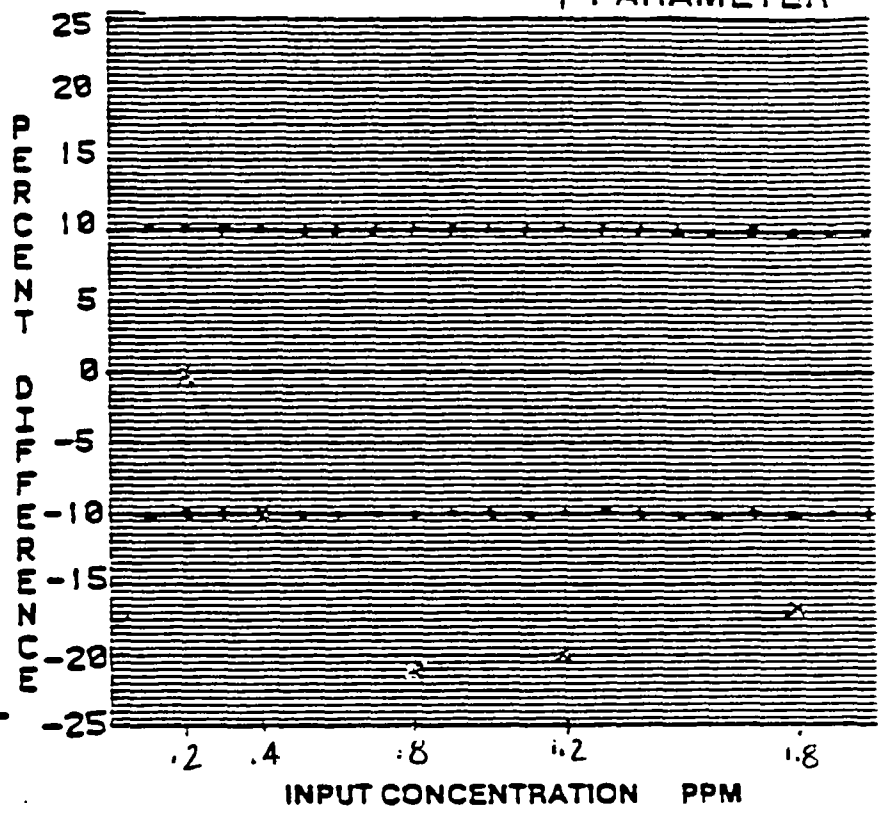
Calibrator: RAD II

Serial No.: 1005

Source Gas Cyl. No.: AAL 10951

Concentration: 5.95 ppm C_6H_6 PPM

Ultra-pure Air Cylinder No. CC12748



Unadjusted: Recalibrate if Response Greater Than ± 10 Percent

Source Flow SCCM %	Dilution Flow SCCM %	Input Concentration (ppm), A	Analyzer Response (ppm), B	Percent Difference $(\frac{B-A}{A})\times 100 = \%$	RF
		0.000	0.08		
30	11.3	.2	.2	0.0	1.000
0	71.5	.4	.36	-10.0%	1.111
10	35.7	.8	.63	-21.3	1.27
30	35.6	1.2	.96	-20.0	1.25
60	28.6	1.8	1.5	-16.7	1.2

CAPS

LOW

HIGH

Corr: 0.9984 $\overline{RF}$ = 1.166

Adjusted: Adjust Analyzer Response at 40 Percent of Full Scale

6-84

					RF
		0.000	.09		
		.2	.21	5.0	0.95
		.4	.34	-15.0	1.17
		.8	.62	-22.5	1.290
		1.2	.94	-21.7	1.27
		1.8	1.36	-24.4	1.323

Figure 7-1. Multipoint Calibration Data Form

span post = 0.72

$\overline{RF}$ = 1.204

Span = 0.0

Corr = 0.9997

RADIAN CORPORATION

MULTIPOINT CALIBRATION DATA

HNU #1

HNU #1 PARAMETER

Site: PURITY/FRESNO

Engineer: D RANUM

Date: Hour 7-7-84 400

Instrument Model HNU PI-101

Instrument S/N: 1

Instrument Range: 0-2 ppm

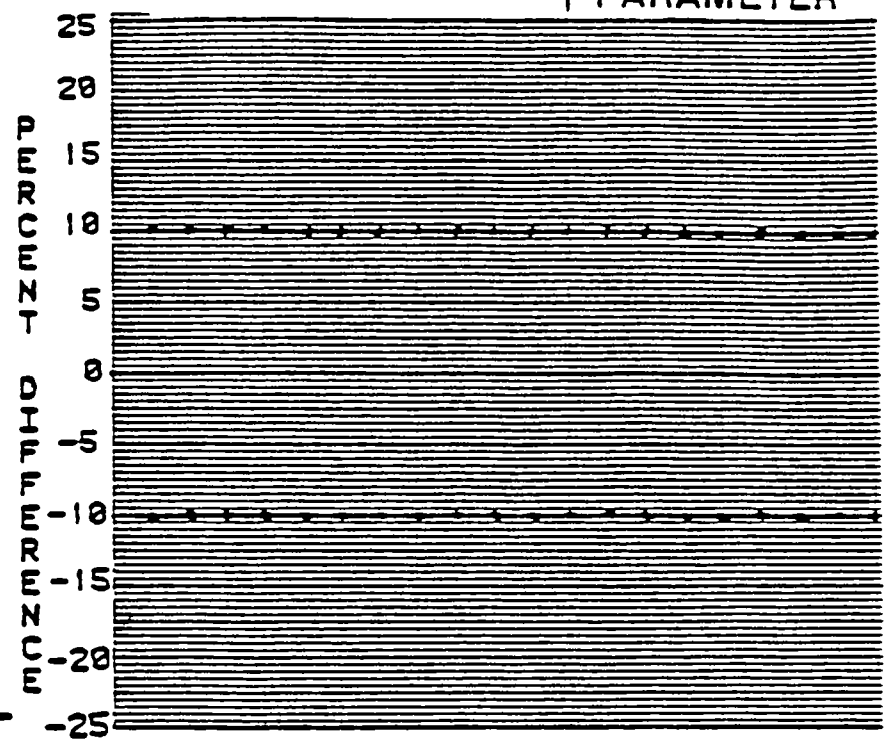
Calibrator: RAD II

Serial No.: 1005

Source Gas Cyl. No.: AAL 10951

Concentration: 5.95 ppm C4 PPM

Ultra-pure Air Cylinder No. AAL 4151



Span: 0.0

INPUT CONCENTRATION PPM

Unadjusted: Recalibrate if Response Greater Than ± 10 Percent

Source Flow SCCM %	Dilution Flow SCCM %	Input Concentration (ppm), A	Analyzer Response (ppm), B	Percent Difference $(\frac{B-A}{A}) \times 100 = \%$	
		0.000	.22 DR .08		
30	11.3	.2	.22	10.0	0.900
0	71.5	.4	.3	-25.0	1.467
10	35.7	.8	.57	-28.8	1.404
30	35.6	1.2	.84	-30	1.429
60	28.6	1.8	1.3	-27.8	1.385

CHK CAPS LOW HIGH

$\overline{RF} = 1.421$

Adjusted: Adjust Analyzer Response at 40 Percent of Full Scale

					RF
		0.000	.09		
		.2	.2	0.0	1.000
		.4	.34	-15.0	1.176
		.8	.61	-23.8	1.311
		1.2	.96	-20.0	1.25
		1.8	1.38	-23.3	1.304

11-84

Figure 7-1. Multipoint Calibration Data Form

$\overline{RF} = 1.260$

Corr: 0.9992

Instrument drifting repaired & multipointed

Span : 0.80

RADIAN CORPORATION

MULTIPOINT CALIBRATION DATA

HNU #1

PARAMETER

Site: PURITY/FRESNO

Engineer: D. RANUM

Date: Hour 7-12-84 445

Instrument Model HNU PI-101

Instrument S/N: 1

Instrument Range: 0-2 ppm

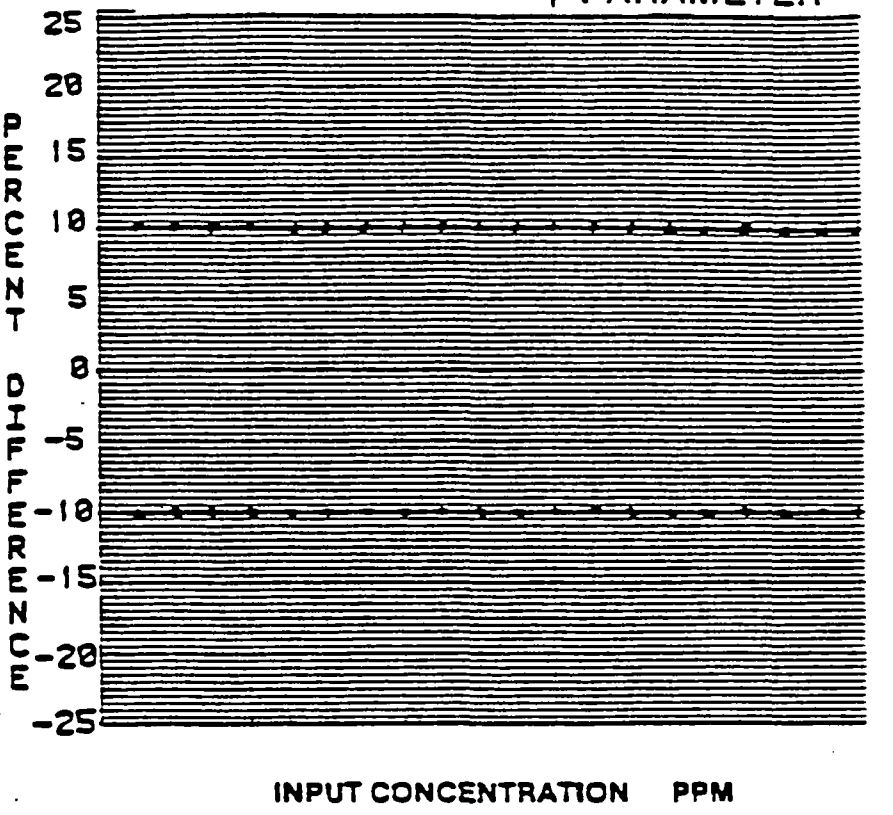
Calibrator: RAD II

Serial No.: 1005

Source Gas Cyl. No.: AAL10951

Concentration: 5.95 ppm C_6H_6 PPM

Ultra-pure Air Cylinder No. AAL1187



: 0.8

Unadjusted: Recalibrate if Response Greater Than ± 10 Percent

CH4 CAPS LOW HIGH

Source Flow SCCM %	Dilution Flow SCCM %	Input Concentration (ppm), A	Analyzer Response (ppm), B	Percent Difference $(\frac{B-A}{A}) \times 100 = \%$	RF
		0.000	.07		
30	11.3	.2	.19	-5.0	1.053
0	71.5	.4	.28	-30	1.429
10	35.7	.8	.58	-27.5	1.38
30	35.6	1.2	.84	-30	1.429
60	28.6	1.8	1.3	-27.8	1.385

Corr = 0.9945 RF = 1.406

Adjusted: Adjust Analyzer Response at 40 Percent of Full Scale

		0.000		

Figure 7-1. Multipoint Calibration Data Form

INSTRUMENT CALIBRATION AND QC DATA

Instrument HNU PI-101 Site Purity / Fresno

S/N 1 Technician DR

Daily Calibration Data

Date/ Time	Current Multipoint RF[1]	Zero Input	Zero Response	Span Input	Span Response	Daily RF[2]	RF C
6.5.84 1100	.8413	Amb	.12 ppm	.8 ppm C_6H_6	.87 ppm	.9195	9.
6.6.84 845	.9559	UHP Air	.11 ppm	.8 ppm C_6H_6	.78 ppm	1.026	7.
6.7.84 830	.9282	UHP Air	.10 ppm	.8 ppm C_6H_6	.82 ppm	.9757	5.
6.8.84 1741	.9282	UHP Air	.11 ppm	.8 ppm C_6H_6	.84 ppm	.9524	2.
6.9.84 805	.9282	UHP Air	.11 ppm	.8 ppm C_6H_6	.88 ppm	.9091	-2
6.11.84	.9282	UHP Air	.12 ppm	.8 ppm C_6H_6	.76 ppm	1.053	13
6.12.84	.9384	UHP Air	.12 ppm	.8 ppm C_6H_6	.79 ppm	1.013	7.
6.13.84 740	.9384	UHP Air	.08 ppm	.8 ppm C_6H_6	.78 ppm	1.026	9.
6.14.84	.9384	UHP Air	.1 ppm	.8 ppm C_6H_6	.78 ppm	1.026	9.

QC Data

Date	QC Input Conc.	Pretest QC Response	QC Δ%[3]	Posttest QC Response	Upscale % Drift[4]	Posttest Zero Response	Zero Drift
6.5.84	.673 ppm C_6H_6	.69 ppm	2.5%	.66 ppm	-1.5%	.11 ppm	-0.5%
6.6.84	.673 ppm C_6H_6	.8 ppm	18.9%	.8 ppm	0.0%	.13 ppm	.01%
6.7.84	.673 ppm C_6H_6	.77 ppm	14.4%	1 ppm	11.5%	.13 ppm	1.5%
6.8.84	.673 ppm C_6H_6	.82 ppm	21.8%	Instrument only QC after testing			
6.9.84	.673 ppm C_6H_6	.93 ppm	38.2%	.96 ppm	1.5%	.18	3.5%
6.11.84	.673 ppm C_6H_6	.97 ppm	44.1%	.90 ppm	-3.5%	.12	0.0
6.12.84	.673 ppm C_6H_6	.92 ppm	36.7%	.89 ppm	-1.5%	.11	-0.5%
6.13.84	.673 ppm C_6H_6	.89 ppm	32.2%	.92 ppm	1.5%	.14	3.0
6.14.84	.673 ppm C_6H_6	.91 ppm	35.2%	~~Intsr~~	Instrument not used		

[1]Average RF for multipoint calibration where RF = $\frac{\text{Standard Concentration}}{\text{Instrument Response}}$

[2]Calculated based on span results; acceptance criterion is: agreement within ±20% of multipoint RF

[3]QC Δ% = (Measured Conc. - Input Conc.)(100)/Input Conc.; acceptance criterion is: $-10\% \leq \Delta\% \leq 10\%$

[4]% Drift = (Posttest QC Response - Pretest QC Response)(100)/Full Scale Response

INSTRUMENT CALIBRATION AND QC DATA

Instrument HNU PI-101 Site PURITY / FRESNO

S/N 1 Technician R STEPHENS

Daily Calibration Data

Date/ Time	Current Multipoint RF[1]	Zero Input	Zero Response	Span Input	Span Response	Daily RF[2]	R Δ
6-18-84	.9384	UHP AIR	0.12 PPM	0.8 PPM C_6H_6	0.82 PPM	0.9756	+3
6-19-84	.9384	UHP AIR	*ADJUSTED 0.05 PPM	0.8 PPM C_6H_6	0.82 PPM	0.9756	+3
6·20·84	.9384	UHP AIR	0.05 PPM	0.8 PPM C_6H_6	0.76 PPM	1.053	+12
6·21·84	.9384	UHP AIR	0.02 PPM	0.8 PPM C_6H_6	0.76 PPM	1.053	+12
6·22·84	.9384	UHP AIR	0.03 PPM	0.8 PPM C_6H_6	0.78 PPM	1.026	+9
6·23·84	.9384	UHP AIR	0.03 PPM	0.8 PPM C_6H_6	0.80 PPM	1.000	+6
6·25·84	.9384	UHP AIR	0.02 PPM	0.8 PPM C_6H_6	0.78 PPM	1.026	+9
6·26·84	.9384	UHP AIR	0.00 PPM	0.8 PPM C_6H_6	0.76 PPM	1.053	+12
6·27·84	.9384	UHP AIR	0.04 PPM	0.8 PPM C_6H_6	0.64 PPM	1.250 *	+33

MULTIPOINT CAL PERFORM SEE CAL FORM

QC Data

Date	QC Input Conc.	Pretest QC Response	QC Δ%[3]	Posttest QC Response	Upscale % Drift[4]	Posttest Zero Response	Zero Drift
6·18·84	.673 PPM	0.76 PPM	+12.9%	INSTRUMENT WAS NOT USED			
6·19·84	.673 PPM	0.96 PPM	+42.6%	0.98 PPM	+2.0%	0.1 PPM	0.05 PPM
6·20·84	.673 PPM	0.90 PPM	+33.7%	0.96 PPM	+6.7%	0.0 PPM	0.05 PPM
6·21·84	.673 PPM	0.94 PPM	+39.7%	0.94 PPM	0%	0.0 PPM	0.02 PPM
6·22·84	.673 PPM	0.88 PPM	+30.8%	0.78 PPM	-11.4%	0.02 PPM	0.01 PPM
6·23·84	.673 PPM	0.90 PPM	+33.7%	0.88 PPM	-2.3%	0.05 PPM	0.02 PPM
6·25·84	.673 PPM	0.86 PPM	+27.7%	0.80 PPM	-6.9%	0.04 PPM	0.02 PPM
6·26·84	.673 PPM	0.82 PPM	+21.8%	0.74 PPM	-9.7%	0.04 PPM	0.04 PPM
6·27·84	.673 PPM	0.74 PPM	+9.9%	INSTRUMENT NOT USED			

[1] Average RF for multipoint calibration where RF = $\frac{\text{Standard Concentration}}{\text{Instrument Response}}$

[2] Calculated based on span results; acceptance criterion is: agreement within ±20% of multipoint RF

[3] QC Δ% = (Measured Conc. - Input Conc.)(100)/Input Conc.; acceptance criterion is: $-10\% \leq \Delta\% \leq 10\%$

[4] % Drift = (Posttest QC Response - Pretest QC Response)(100)/Full Scale Response

INSTRUMENT CALIBRATION AND QC DATA

Instrument HNU PI-101 Site PURITY/FRESNO

S/N 1 Technician DR

Daily Calibration Data

Date/ Time	Current Multipoint RF[1]	Zero Input	Zero Response	Span Input	Span Response	Daily RF[2]	Δ R
6/29/84	1.166	UHP Air	.08	.8ppm C_6H_6	.63	1.270	-8.
7.2.84	1.166	UHP Air	.07	.8ppm C_6H_6	.62	1.29	-10
7.3.84	1.166	UHP Air	.09	.8ppm C_6H_6	.60	1.33	14
7.4.84	1.166	UHP Air	.06	.8ppm C_6H_6	.60	1.33	14
7.5.84	1.166	UHP Air	.08	.8ppm C_6H_6	.61	1.311	12
7.6.84	1.166	UHP Air		.8ppm C_6H_6	.56	1.429 MTPT NEC	22
7.6.84	1.204	UHP Air	.09	.8ppm C_6H_6	.62	1.29	7.
7.7.84	1.204	UHP Air		.8ppm C_6H_6	DR ~~.57~~ .57	1.404 MTPT NEC	16
7.7.84	1.421	UHP	.08	.8ppm C_6H_6	.57	1.404	-1.

QC Data

Date	QC Input Conc.	Pretest QC Response	QC Δ%[3]	Posttest QC Response	Upscale % Drift[4]	Posttest Zero Response	Zero Drift
6.29.84	.673ppm C_6H_6	.71ppm	5.5%	.64ppm	-3.5%	.06	-1.0%
7.2.84	.673ppm C_6H_6	.7ppm	4.0%	.58	-6.0%	.08	0.5%
7.3.84	.673ppm C_6H_6	.86ppm	27.8%	.62	-12.0%	.07	-1.0%
7.4.84	.673ppm C_6H_6	.64ppm	-4.9%	.62	-1.0%	.08	1.0%
7.5.84	.673ppm C_6H_6	.65ppm	-3.4%	.60	-2.5%	.12	2.0%
7.6.84	.673ppm C_6H_6	.65ppm	-3.4%				
7.6.84	.673ppm C_6H_6	.70ppm	4.01%	.68	-1.0%	.11	1.0%
7.7.84	.673ppm C_6H_6	.66ppm	-1.9%				
7.7.84	.673ppm C_6H_6	.66ppm	-1.9%	.58	-4.0%	.06	-1.0%

[1]Average RF for multipoint calibration where RF = $\frac{\text{Standard Concentration}}{\text{Instrument Response}}$

[2]Calculated based on span results; acceptance criterion is: agreement within ±20% of multipoint RF

[3]QC Δ% = (Measured Conc. - Input Conc.)(100)/Input Conc.; acceptance criterion is: $-10\% \leq \Delta\% \leq 10\%$

[4]% Drift = (Posttest QC Response - Pretest QC Response)(100)/Full Scale Response

INSTRUMENT CALIBRATION AND QC DATA

Instrument HNU PI-101 Site Purity / Fresno

S/N 1 Technician DR

Daily Calibration Data

Date/ Time	Current Multipoint RF[1]	Zero Input	Zero Response	Span Input	Span Response	Daily RF[2]	Δ R
07.09.84	1.421	UHP Air	.1	.8ppm C_6H_6	.54	1.481	4.
07 10 84	1.421	UHP Air	.11	.8ppm C_6H_6	.54	1.481	4.
07 11 84	1.421	UHP Air		.8ppm C_6H_6	1.02	.7843 MTPT	.4
07 11 84	1.26	UHP Air	.09	.8ppm C_6H_6	.61	1.311	4.
07 12 84	1.26	UHP Air		.8ppm C_6H_6	.42	1.905 MTPT	5
07 12 84	1.406	UHP Air	.07	.8ppm C_6H_6	.58	1.38	-1.
07 18 84	1.406	UHP Air	.1	.8ppm C_6H_6	~~.65~~ .62 ppm DR	~~1.231~~ 1.290	8.
07 19 84	1.406	UHP Air	.14	.8ppm C_6H_6	.56	1.429	1.
07 20 84	1.406	UHP Air	.08	.8ppm C_6H_6	.58	1.379	-1.

QC Data

Date	QC Input Conc.	Pretest QC Response	QC Δ%[3]	Posttest QC Response	Upscale % Drift[4]	Posttest Zero Response	Zero Drift
07 09 84	.673ppm C_6H_6	.68ppm	1.04 %	.64	-2.0	.04	-3.0
07 10 84	.673ppm C_6H_6	.72 ppm	7.0%	.65	-3.5%	.10	-0.5%
07 11 84	.673ppm C_6H_6	.79ppm DR	17.4% DR				
07 11 84	.673ppm C_6H_6	.70ppm	4.0%	Instrument not used			
07 12 84	.673ppm C_6H_6	.68ppm	1.0%	.73	2.5%	1.0 DR	1.5%
07 18 84	.673ppm C_6H_6	.8ppm	18.9%	.46	-17.0	.06ppm	-2%
07 19 84	.673ppm C_6H_6	.66ppm	-1.9%	.72	3.0%	.12 ppm	-1%
07 20 84	.673ppm C_6H_6	.7ppm	4.0%	.68	-1.0%	.1 ppm	1.0%

[1]Average RF for multipoint calibration where RF = $\frac{\text{Standard Concentration}}{\text{Instrument Response}}$

[2]Calculated based on span results; acceptance criterion is: agreement within ±20% of multipoint RF

[3]QC Δ% = (Measured Conc. - Input Conc.)(100)/Input Conc.; acceptance criterion is: $-10\% \leq \Delta\% \leq 10\%$

[4]% Drift = (Posttest QC Response - Pretest QC Response)(100)/Full Scale Response

AIDS 207263

RADIAN CORPORATION

MULTIPOINT CALIBRATION DATA

C_6H_6

PARAMETER

Site: PURITY / FRESNO

Engineer: D. RANUM

Date: Hour 6-4-84 1600

Instrument Model AID ~~930~~ 580

Instrument S/N: 207263

Instrument Range: 0-200 ppm

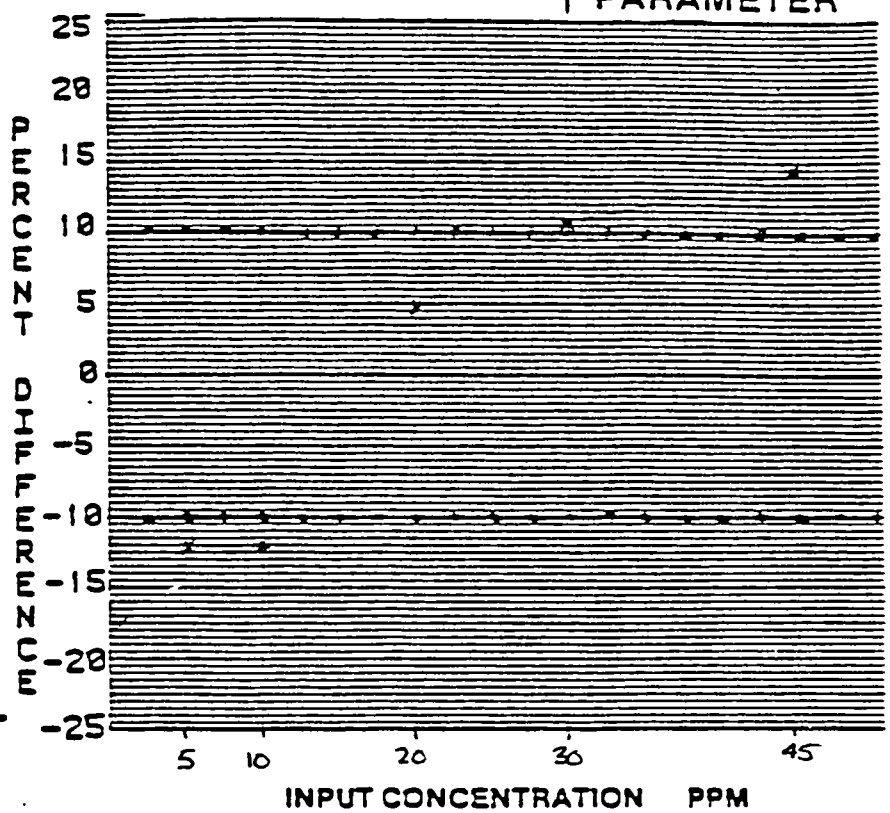
Calibrator: RAD II

Serial No.: 1005

Source Gas Cyl. No.: AAL 11878

Concentration: 100ppm C_6H_6 PPM

Ultra-pure Air Cylinder No. N101186



Unadjusted: Recalibrate if Response Greater Than ± 10 Percent

Source Flow SCCM %	Dilution Flow SCCM %	Input Concentration (ppm), A	Analyzer Response (ppm), B	Percent Difference $(\frac{B-A}{A})\times 100 = \%$	
		0.000	-00.2		RF
70	23.7	5	4.4	-12.0	1.136
10	65	10	8.8	-12.0	1.136
30	36.4	20	21.0	5.0	.952
60	29.4	30	33.2	10.7	.903
100	13.5	45	51.5	14.4	.873

CH_4 CAPS

LOW

HIGH

Corr = 0.7225

$\overline{RF}$ = 1.0003

Adjusted: Adjust Analyzer Response at 40 Percent of Full Scale

		0.000		

Figure 7-1. Multipoint Calibration Data Form

AIDS 207263

RADIAN CORPORATION

MULTIPOINT CALIBRATION DATA

C_6H_6
PARAMETER

Site: PURITY / FRESNO

Engineer: D. RANUM

Date: Hour 6-7-84 1520

Instrument Model AIDS 580

Instrument S/N: 207263

Instrument Range: 0-200 ppm

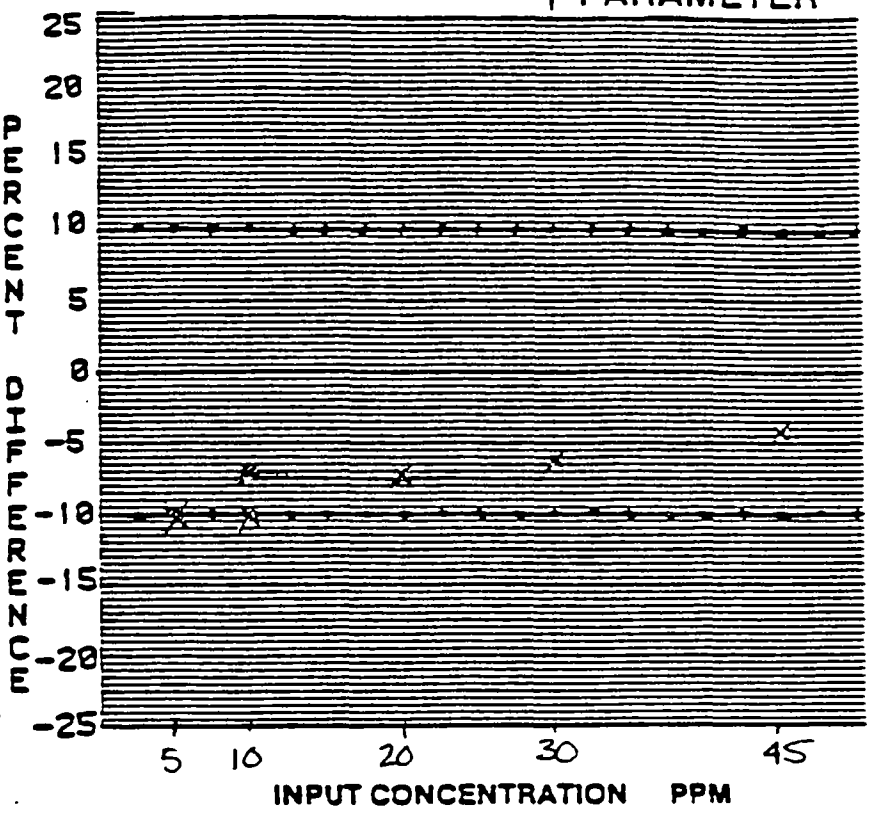
Calibrator: RAD II

Serial No.: 1005

Source Gas Cyl. No.: AAL11878

Concentration: 100ppm C_6H_6 PPM

Ultra-pure Air Cylinder No. N101196



Unadjusted: Recalibrate if Response Greater Than ± 10 Percent

Source Flow SCCM %	Dilution Flow SCCM %	Input Concentration (ppm), A	Analyzer Response (ppm), B	Percent Difference $(\frac{B-A}{A}) \times 100 = \%$	RF
		0.000	00.1		
70	23.7	5	4.5	-10.0	1.111
10	65	10	9.3	-7.0	1.075
30	36.4	20	18.5	-7.5	1.081
60	29.4	30	28	-6.7	1.071
100	13.5	45	43	-4.4	1.046

CH4 CAPS

LOW

HIGH

$\overline{RF} = 1.077$

Adjusted: Adjust Analyzer Response at 40 Percent of Full Scale

		0.000		

Figure 7-1. Multipoint Calibration Data Form

ANALYZER MULTIPOINTED DUE TO RF > 15%

RADIAN CORPORATION

MULTIPOINT CALIBRATION DATA

AIDS 207263

Site: PURITY/FRESNO

Engineer: D. RANUM

Date: Hour 6.13.84 ~700

Instrument Model AIDS 550

Instrument S/N: 207263

Instrument Range: 0-200 ppm

Calibrator: RAD II

Serial No.: 1005

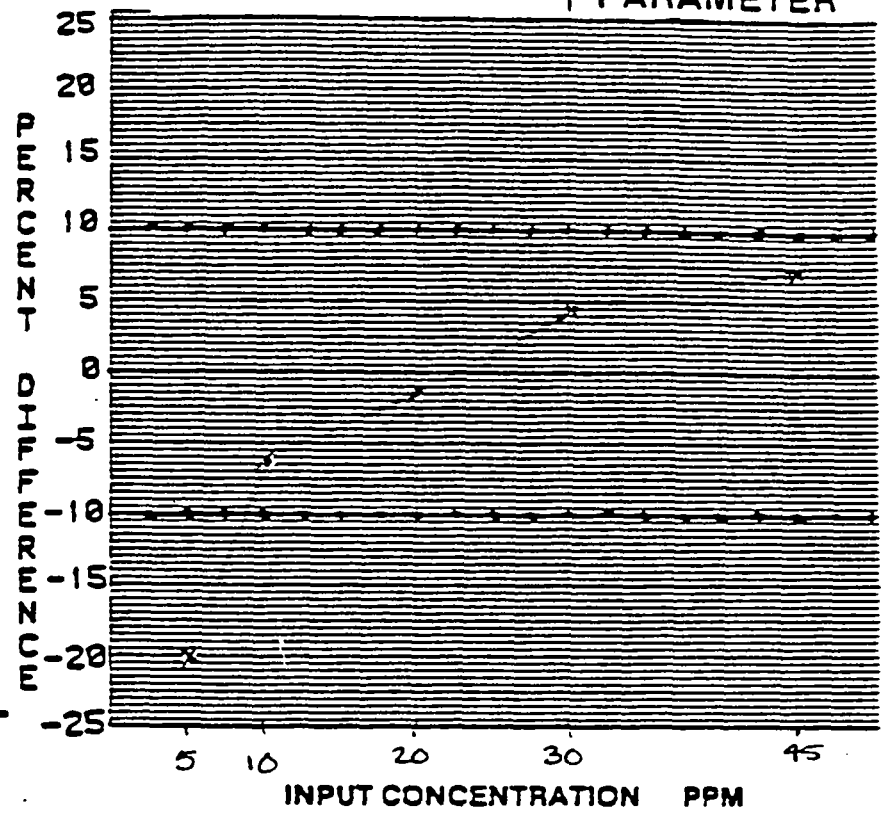
Source Gas Cyl. No.: AAL 11878

Concentration: 100ppm C_6H_6 PPM

Ultra-pure Air Cylinder No. N261044

Cotte

PARAMETER



Unadjusted: Recalibrate if Response Greater Than ± 10 Percent

Source Flow SCCM %	Dilution Flow SCCM %	Input Concentration (ppm), A	Analyzer Response (ppm), B	Percent Difference $(\frac{B-A}{A}) \times 100 = \%$	RF
		0.000	00.2		
70	23.7	5	4	-20.0	1.25
10	65	10	9.4	-6.0	1.064
30	46.4	20	19.8	-1.0	1.010
60	29.4	30	31.4	4.7	.955
100	13.5	45	48.2	7.1	.933

CH_4 CAPS

LOW

HIGH

Adjusted: Adjust Analyzer Response at 40 Percent of Full Scale

$\overline{RF}$ 1.043

		0.000		

Figure 7-1. Multipoint Calibration Data Form

INSTRUMENT CALIBRATION AND QC DATA

Instrument AIDS 580 Site PURITY / FRESNO

S/N 207263 Technician DR

Daily Calibration Data

Date/ Time	Current Multipoint RF[1]	Zero Input	Zero Response	Span Input	Span Response	Daily RF[2]	R C
6.5.84 1030	1.0003	Amb	00.0	20ppm C_6H_6	19.1 ppm	1.047	4.
6.6.84 915	1.0003	Amb	-00.6	20ppm C_6H_6	19.0ppm	1.053	5.
6.7.84 1530	1.077	UHP	00.1	20ppm C_6H_6	18.5ppm	1.081	0.
6.8.84 900	1.077	UHP	00.0	20ppm C_6H_6	18.4ppm	1.087	0.
6.9.84 850	1.077	UHP	-00.0	20ppm C_6H_6	18.8 ppm	1.064	-1.
~~6.10.84~~	~~1.077~~	~~UHP~~	~~-00.0~~	~~20ppm C_6H_6~~	~~18.8 ppm~~	~~1.064~~	~~1.~~
6.11.84	1.077	UHP	-00.0	20ppm C_6H_6	18.2 ppm	1.099	2.
6.12.84	1.077	UHP	-00.1	20ppm C_6H_6	17.2 ppm	1.163	8.
6.13.84	1.043	UHP	00.2	20ppm C_6H_6	19.8 ppm	1.010	-3.

QC Data

Date	QC Input Conc.	Pretest QC Response	QC Δ%[3]	Posttest QC Response	Upscale % Drift[4]	Posttest Zero Response	Zero Drift
6.5.84	23.7ppm C_6H_6	31.5ppm	32.9%	30.5ppm	-0.5%	-00.4	-0.2%
6.6.84	23.7ppm C_6H_6	28.7ppm	21.1%	Instrument not used			
6.7.84	23.7ppm C_6H_6	30.8ppm	29.9%	28ppm	-0.95%	00.3	0.1%
6.8.84	23.7ppm C_6H_6	28.8ppm	21.5%	29ppm	0.1%	00.1	0.05%
6.9.84	23.7ppm C_6H_6	29 ppm	22.4%	Instrument not used			
~~6.10.84~~	~~23.7ppm C_6H_6~~	~~29 ppm~~	~~22.4%~~	~~Instrument not used~~			
6.11.84	23.7ppm C_6H_6	28.6ppm	20.7%	27.5ppm	-0.55%	00.2	0.1
6.12.84	23.7ppm C_6H_6	27.2ppm	14.8%	Instrument not used			
6.13.84	23.7ppm C_6H_6	34.4ppm	45.2%	Instrument not used			

[1]Average RF for multipoint calibration where RF = $\frac{\text{Standard Concentration}}{\text{Instrument Response}}$

[2]Calculated based on span results; acceptance criterion is: agreement within ±20% of multipoint RF

[3]QC Δ% = (Measured Conc. - Input Conc.)(100)/Input Conc.; acceptance criterion is: $-10\% \leq \Delta\% \leq 10\%$

[4]% Drift = (Posttest QC Response - Pretest QC Response)(100)/Full Scale Response

INSTRUMENT CALIBRATION AND QC DATA

Instrument ADS 580 Site PURITY/FRESNO

S/N 207263 Technician DR

Daily Calibration Data

Date/ Time	Current Multipoint RF[1]	Zero Input	Zero Response	Span Input	Span Response	Daily RF[2]	Δ R
6·14·84	1.043	UHP	00.4ppm	20ppm C_6H_6	18.6ppm	1.075	3.
6·15·84	1.043	UHP	00.0ppm	20ppm C_6H_6	18.2ppm	1.099	5
6·16·84	1.043	UHP	-1.0	20ppm C_6H_6	19.5	1.026	-1.

QC Data

Date	QC Input Conc.	Pretest QC Response	QC Δ%[3]	Posttest QC Response	Upscale % Drift[4]	Posttest Zero Response	Zero Drift
6·14·84	23.7ppm C_6H_6	32.8ppm	38.4%	Instrument not used			
6·15·84	23.7ppm C_6H_6	33.4ppm	40.9%				
6·16·84	23.7ppm C_6H_6	30.4ppm	28.3%	32.2ppm	0.9%	-00.8	0.5%

[1]Average RF for multipoint calibration where RF = $\frac{\text{Standard Concentration}}{\text{Instrument Response}}$

[2]Calculated based on span results; acceptance criterion is: agreement within ±20% of multipoint RF

[3]QC Δ% = (Measured Conc. - Input Conc.)(100)/Input Conc.; acceptance criterion is: $-10\% \leq \Delta\% \leq 10\%$

[4]% Drift = (Posttest QC Response - Pretest QC Response)(100)/Full Scale Response

ECOLYZER

RADIAN CORPORATION

MULTIPOINT CALIBRATION DATA

SO_2 PARAMETER

Site: PURITY / FRESNO

Engineer: D. RANUM

Date: Hour 6-5-84 930

Instrument Model ECOLYZER

Instrument S/N: A 1674

Instrument Range: 0-2 ppm

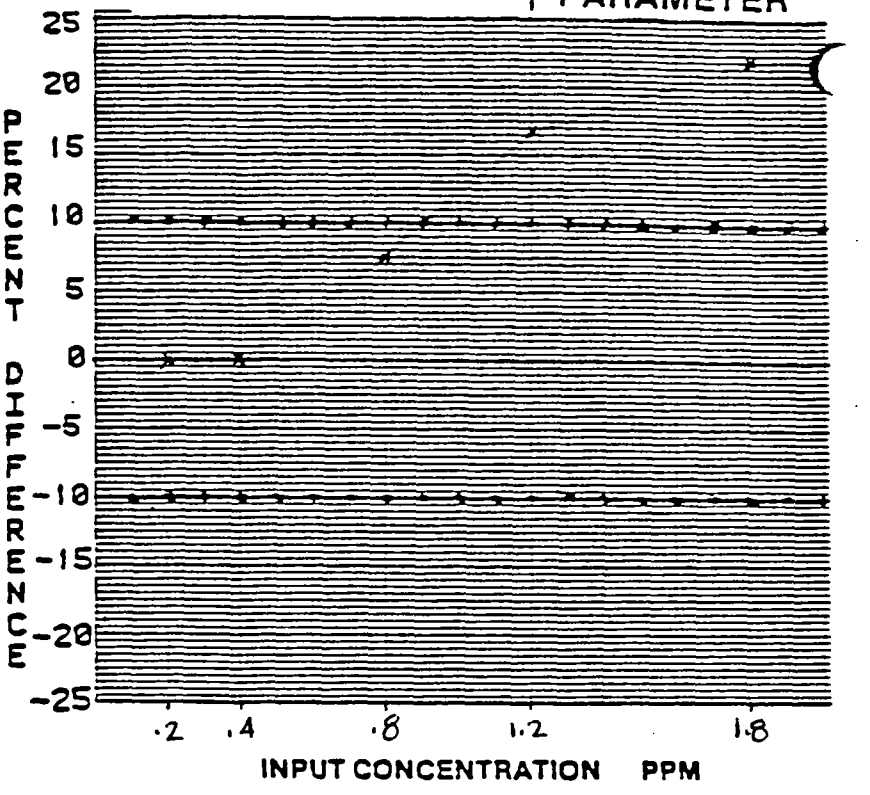
Calibrator: RAD II

Serial No.: 1005

Source Gas Cyl. No.: CC7378

Concentration: 48.9 ppm SO_2 PPM

Ultra-pure Air Cylinder No. N101186



Unadjusted: Recalibrate if Response Greater Than ± 10 Percent

CAPS SO2 HIGH

Source Flow SCCM %	Dilution Flow SCCM %	Input Concentration (ppm), A	Analyzer Response (ppm), B	Percent Difference $(\frac{B-A}{A}) \times 100 = \%$	RF
		0.000	.02		
5	84.8	.2	.2	0.0	1.000
10	23.4	.4	.4	0.0	1.000
40	23.9	.8	.86	7.5	.930
70	25.3	1.2	1.4	16.7	.85
100	18.5	1.8	2.2	22.2	.81

Corr: .8819 $\overline{RF}$ = .9211

Adjusted: Adjust Analyzer Response at 40 Percent of Full Scale

		0.000		

RADIAN CORPORATION

MULTIPOINT CALIBRATION DATA

ECOLYZER

SO_2

PARAMETER

Site: DIRITY/FRESNO

Engineer: D. RANDM

Date: Hour 6.12.84 700

Instrument Model ECOLYZER

Instrument S/N: A 1674

Instrument Range: 0-2 ppm

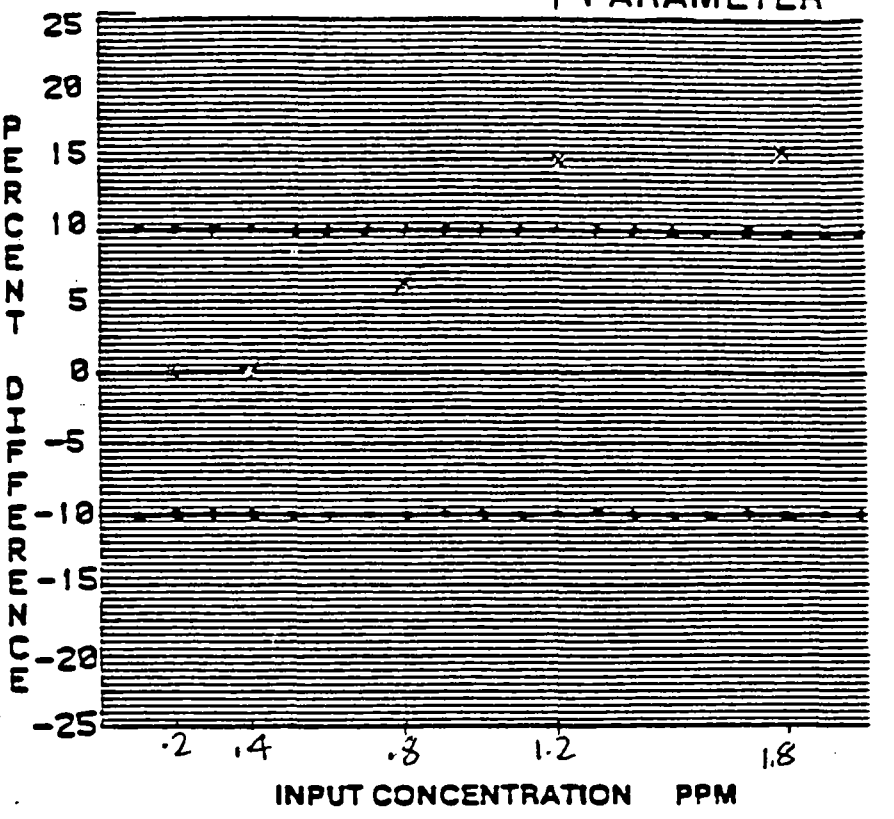
Calibrator: RAD II

Serial No.: 1005

Source Gas Cyl. No.: CC7378

Concentration: 48.9 ppm SO_2 PPM

Ultra-pure Air Cylinder No. N261044



Unadjusted: Recalibrate if Response Greater Than ± 10 Percent

CAPS SO_2 HIGH

Source Flow SCCM %	Dilution Flow SCCM %	Input Concentration (ppm), A	Analyzer Response (ppm), B	Percent Difference $(\frac{B-A}{A}) \times 100 = Z$
		0.000		
5	24.8	.2	.2	0.0
10	23.4	.4	.4	0.0
40	23.9	.8	.85	6.25
70	25.3	1.2	1.38	15.0
100	18.5	1.8	2.08	15.5

$\overline{RF}$ = .9352

Adjusted: Adjust Analyzer Response at 40 Percent of Full Scale

		0.000		

Figure 7-1. Multipoint Calibration Data Form

RADIAN CORPORATION

MULTIPOINT CALIBRATION DATA

ECOLYZER

PARAMETER

Site: Purity/Fresno

Engineer: D. RANUM

Date: Hour 7-2-84 550

Instrument Model ECOLYZER

Instrument S/N: A1674

Instrument Range: 0-2ppm

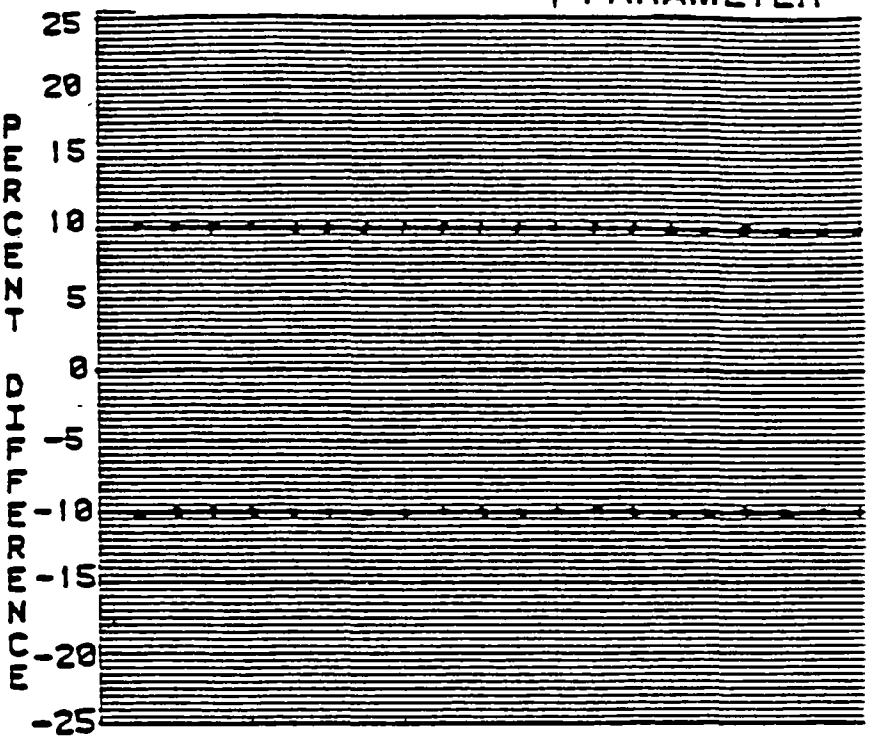
Calibrator: RAD II

Serial No.: 1005

Source Gas Cyl. No.: CC7378

Concentration: 48.9 ppm SO_2 PPM

Ultra-pure Air Cylinder No. AAL 4151



INPUT CONCENTRATION PPM

Unadjusted: Recalibrate if Response Greater Than ± 10 Percent

SO_2 CAPS

HIGH

Source Flow SCCM %	Dilution Flow SCCM %	Input Concentration (ppm), A	Analyzer Response (ppm), B	Percent Difference $(\frac{B-A}{A})\times 100 = \%$	RF
		0.000			
5	84.8	.2	.18	-10	1.111
10	23.4	.4	.32	-20	1.25
40	23.9	.8	.64	-20	1.25
70	25.9	1.2	1.04	-13.3	1.154
100	18.5	1.8	1.6	-11.1	1.125

$\overline{RF}$ = 1.178

Adjusted: Adjust Analyzer Response at 40 Percent of Full Scale

		0.000		

Figure 7-1. Multipoint Calibration Data Form

Corr: 0.9987

RADIAN CORPORATION

MULTIPOINT CALIBRATION DATA

ECOLYZER

PARAMETER

Site: PURITY/FRESNO

Engineer: D RANUM

Date: Hour 7-9-84 538

Instrument Model ECOLYZER

Instrument S/N: A1674

Instrument Range: 0-2 ppm

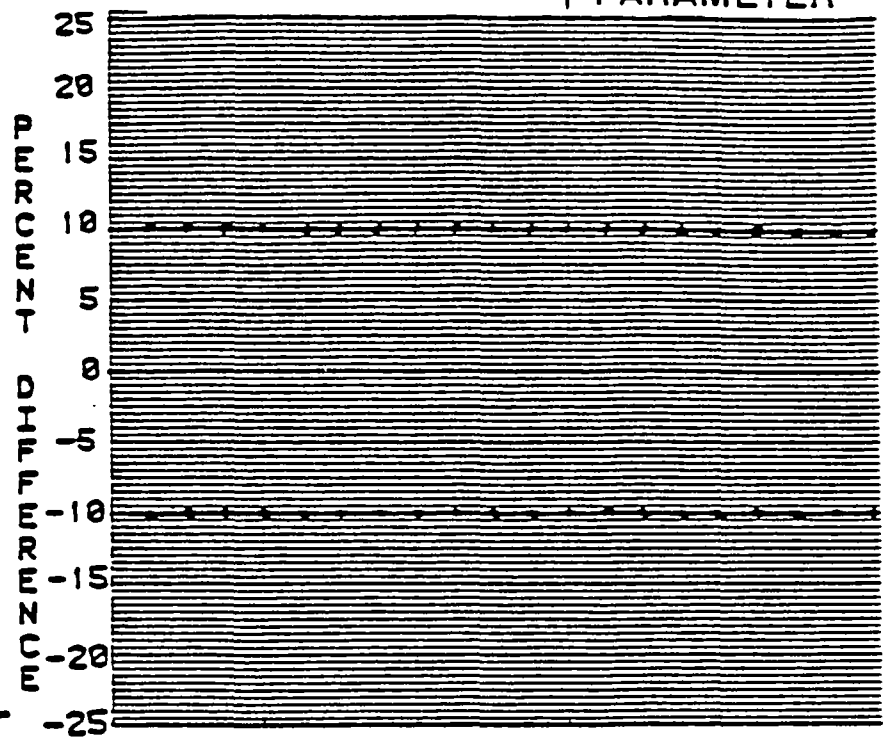
Calibrator: RAD II

Serial No.: 1005

Source Gas Cyl. No.: CC7378

Concentration: 48.9 ppm SO_2 PPM

Ultra-pure Air Cylinder No. AAL4151



Unadjusted: Recalibrate if Response Greater Than ± 10 Percent

Source Flow SCCM %	Dilution Flow SCCM %	Input Concentration (ppm), A	Analyzer Response (ppm), B	Percent Difference $(\frac{B-A}{A}) \times 100 = \%$	RF
		0.000			
5	84.8	.2	.26	30	0.769
10	23.4	.4	.38	-5	1.05
40	23.9	.8	.80	0.0	1.000
70	25.3	1.2	1.3	8.3	.923
100	18.5	1.8	1.9	5.6%	.947

SO_2 CAPS HIGH

$\overline{RF}$ = .9385
Corr: .9980

Adjusted: Adjust Analyzer Response at 40 Percent of Full Scale

7.18.84

					RF
		0.000	.04		
		.2	.26	30	0.76
		.4	.36	-10	1.111
		.8	.72	-10	1.111
		1.2	1.14	-5	1.05
		1.8	1.7	-5.6	1.05

Figure 7-1. Multipoint Calibration Data Form

$\overline{RF}$ = 1.021
Corr 0.9807

INSTRUMENT CALIBRATION AND QC DATA

Instrument Ecolyzer Site Purity/Fresno

S/N A1674 Technician DR

Daily Calibration Data

Date/ Time	Current Multipoint RF[1]	Zero Input	Zero Response	Span Input	Span Response	Daily RF[2]	RF Δ
6.5.84 1000	.9211	Amb	.02ppm	.4ppm SO_2	.4ppm	1.000	8.
6.6.84 830	.9211	Amb	.00ppm	.4ppm SO_2	.46ppm	.8696	-5
6.7.84 839	.9211	UHP Air	.00ppm	.4ppm SO_2	.47	.8511	-7.
6.8.84 830	.9211	Amb	00.00	.4ppm SO_2	.5ppm	.8000	13
6.9.84 830	.9211	UHP Air	-00.2ppm	.4ppm SO_2	.5ppm	.8000	13
6.11.84 830	.9211	UHP Air	-00.4ppm	.4ppm SO_2	.5ppm	.8000	13.
6.12.84	.9352	UHP Air	-0.03ppm	.4ppm SO_2	.4ppm	1.000	6.
6.13.84	.9352	UHP Air	-0.04ppm	.4ppm SO_2	.41ppm	.9756	4.
6.14.84	.9352	UHP Air	-0.04ppm	.4ppm SO_2	.38ppm	1.053	12

QC Data

Date	QC Input Conc.	Pretest QC Response	QC Δ%[3]	Posttest QC Response	Upscale % Drift[4]	Posttest Zero Response	Zero Drift[4]
6.5.84	.96ppm SO_2	1.8ppm	87.5%	1.84ppm	2.0%	.06ppm	2.0%
6.6.84	.96ppm SO_2	1.9ppm	97.9%	1.82ppm	-1.0%	.01ppm	0.5%
6.7.84	.96ppm SO_2	1.8ppm	87.5%	1.88ppm	4.0%	-.02ppm	-1.0%
6.8.84	.96ppm SO_2	1.96ppm	104.2%	1.84	-6.0%	.07ppm	3.5%
6.9.84	.96ppm SO_2	1.88ppm	95.8%	1.80ppm	-0.04%	-0.04ppm	-0.01%
6.11.84	.96ppm SO_2	1.84ppm	91.7%	1.80ppm	-2.0%	.02ppm	3.0%
6.12.84	.96ppm SO_2	1.34ppm	39.6%	1.20ppm	-7.0%	0.04ppm	3.5%
6.13.84	.96ppm SO_2	1.32ppm	37.5%	1.20ppm	-6.0%	0.00	2.0%
6.14.84	.96ppm SO_2	1.26ppm	31.25%	Instrument not	used		

[1]Average RF for multipoint calibration where RF = $\frac{\text{Standard Concentration}}{\text{Instrument Response}}$

[2]Calculated based on span results; acceptance criterion is: agreement within ±20% of multipoint RF

[3]QC Δ% = (Measured Conc. - Input Conc.)(100)/Input Conc.; acceptance criterion is: $-10\% \leq \Delta\% \leq 10\%$

[4]% Drift = (Posttest QC Response - Pretest QC Response)(100)/Full Scale Response

INSTRUMENT CALIBRATION AND QC DATA

Instrument ECOLYZER Site PURITY/FRESNO

S/N A1674 Technician DR

Daily Calibration Data

Date/ Time	Current Multipoint RF[1]	Zero Input	Zero Response	Span Input	Span Response	Daily RF[2]	Δ% RF
6·15·84	.9352	UHP Air	-0.04	.4ppm SO_2	.39ppm	1.026	9.7
6·18·84	.9352	UHP AIR	+0.01	.4 PPM SO_2	.46PPM	0.8695	-7
6·19·84	.9352	UHPAIR	+0.04	.4PPM SO_2	.405PPM	0.9876	+5
6·20·84	.9352	UHP AIR	+0.02	.4PPM SO_2	0.45PPM	0.8889	-4
6·21·84	.9352	UHPAIR	+0.02	.4PPM SO_2	0.44PPM	0.9091	-2
6·22·84	.9352	UHP AIR	+0.01	.4PPM SO_2	0.45PPM	0.8889	-4
6·23·84	.9352	UHPAIR	+0.0[illegible]	.4PPM SO_2	0.46PPM	0.8695	-7
6·25·84	.9352	UHP AIR	+0.02	.4PPM SO_2	0.46PPM	0.8695	-7
6·26·84	.9352	UHP AIR	0.0	.4PPM SO_2	0.42PPM	0.9524	+1

QC Data

Date	QC Input Conc.	Pretest QC Response	QC Δ%[3]	Posttest QC Response	Upscale % Drift[4]	Posttest Zero Response	Zero Drift[4]	
6·15·84	.96ppm SO_2	1.08ppm	12.5%	Instrument not used				
6·18·84	.96PPM SO_2	1.20 PPM	25.0%	INSTRUMENT NOT USED			ONLY BACKGROUND	
6·19·84	.96PPM SO_2	1.06PPM	10.4%	PUMP WENT OUT * SO_2			RECORDED	TODAY CLR
6·20·84	.96PPM SO_2	1.2PPM	25.0%	1.1PPM	-8.3%	-0.5	0.52	
6·21·84	.96PPM SO_2	1.4PPM	45.8%	1.2PPM	-14.5%	0.0	0.02	* PUMP P OUT 2 16 U-.2PP RE
6·22·84	.96PPM SO_2	1.2PPM	25.0%	1.1PPM	-8.3%	+0.0	0.03	
6·23·84	.96PPM SO_2	1.2PPM	25.0%	1.1PPM	-8.3%	+0.02	0.02	
6·25·84	.96PPM SO_2	1.1PPM	14.6%	1.0PPM	-9.1%	+0.03	0.01	
6·26·84	.96PPM SO_2	1.1PPM	14.6%	1.1PPM	0%	+0.06	0.06	

[1] Average RF for multipoint calibration where RF = $\frac{\text{Standard Concentration}}{\text{Instrument Response}}$

[2] Calculated based on span results; acceptance criterion is: agreement within ±20% of multipoint RF

[3] QC Δ% = (Measured Conc. - Input Conc.)(100)/Input Conc.; acceptance criterion is: $-10\% \leq \Delta\% \leq 10\%$

[4] % Drift = (Posttest QC Response - Pretest QC Response)(100)/Full Scale Response

INSTRUMENT CALIBRATION AND QC DATA

Instrument ECOLYZER Site PURITY/FRESNO

S/N A1674 Technician JRS

Daily Calibration Data

Date/ Time	Current Multipoint RF[1]	Zero Input	Zero Response	Span Input	Span Response	Daily RF[2]	R Δ
6·27·84	.9352	UHP AIR	0.02PPM	.4PPM SO_2	.42PPM	0.9524	+1
6·28·84	.9352			.4ppm SO_2			
6·29·84	.9352	UHP	.07	.4ppm SO_2	.39ppm	1.026	9.
7·2·84	.9352	UHP		.4ppm SO_2	Multipoint necessary		
7·2·84	1.178	UHP	.06	.4ppm SO_2	.32	1.25	6.
7·3·84	1.178	UHP	.05	.4ppm SO_2	.32	1.25	6.
7·4·84	1.178	UHP Air	.02	.4ppm SO_2	.32	1.25	6.
7·5·84	1.178	UHP Air	.03	.4ppm SO_2	.32	1.25	6.
7·6·84	1.178	UHP Air	.02	.4ppm SO_2	.36	1.11	-5.

QC Data

Date	QC Input Conc.	Pretest QC Response	QC Δ%[3]	Posttest QC Response	Upscale % Drift[4]	Posttest Zero Response	Zero Drift
6·27·84	.96PPM SO_2	1.1PPM	14.6%	1.1PPM	0	0.04PPM	0.02PPM
6·28·84	.96ppm SO_2	.96	0.0	Instrument not used			
6·29·84	.96ppm SO_2	.96	0.0	.92ppm	-2.0	.08	0.5%
7·2·84	.96ppm SO_2	.80 ~~.86~~ DR	-16.7% ~~-10.4~~				
7·2·84	.96ppm SO_2	.96	0.0	.88	-4.0	.02	-3.0
7·3·84	.96ppm SO_2	.90	-6.25%	.90	0.0	.08	1.5%
7·4·84	.96ppm SO_2	.96	0.0	.92	-2.0	.06	2.0%
7·5·84	.96ppm SO_2	.92	-4.2	.80	-6.0	.1	~~-10%~~ 3.5% DR
7·6·84	.96ppm SO_2	.82	-14.6	.92	5.0	.08	3.0%

[1] Average RF for multipoint calibration where RF = $\frac{\text{Standard Concentration}}{\text{Instrument Response}}$

[2] Calculated based on span results; acceptance criterion is: agreement within ±20% of multipoint RF

[3] QC Δ% = (Measured Conc. - Input Conc.)(100)/Input Conc.; acceptance criterion is: $-10\% \leq \Delta\% \leq 10\%$

[4] % Drift = (Posttest QC Response - Pretest QC Response)(100)/Full Scale Response

INSTRUMENT CALIBRATION AND QC DATA

Instrument ECOLYZER Site PURITY / FRESNO

S/N A1674 Technician DR

Daily Calibration Data

Date/ Time	Current Multipoint RF[1]	Zero Input	Zero Response	Span Input	Span Response	Daily RF[2]	Δ R
7-7-84	1.178	UHP Air	.02 ppm	.4 ppm SO_2	.32	1.25	6
7-9-84	1.178	UHP Air		.4 ppm SO_2	.28	1.429 MTPT	21
7-9-84	.9385	UHP Air	.10 DR	.4 ppm SO_2	.38	1.053	12
07 10 84	.9385	UHP Air	.12	.4 ppm SO_2	.50	0.8	-14
07 11 84	.9385	UHP Air	.08	.4 ppm SO_2	.48	0.833	-11
07 12 84	.9385	UHP Air	.06	.4 ppm SO_2	.46	0.8696	-7
07 18 84	.9385	UHP Air		.4 ppm SO_2	Multipoint Nec		
07 18 84	1.021	UHP Air	.04	.4 ppm SO_2	.36	1.111	8.
07 19 84	1.021	UHP Air	0.0	.4 ppm SO_2	.35	1.143	11.

QC Data

Date	QC Input Conc.	Pretest QC Response	QC Δ%[3]	Posttest QC Response	Upscale % Drift[4]	Posttest Zero Response	Zero Drift
7-7-84	.96 ppm SO_2	.88 ppm	-8.3%	.72	-8.0%	.08	3.0%
7-9-84	.96 ppm SO_2	.76 ppm	-20.8%				
7-9-84	.96 ppm SO_2	1.2 ppm	25%	1.2	0.00	.08	-1.0%
07-10-84	.96 ppm SO_2	1.28 ppm	33.3%	1.36	-4%	0.2	4.0%
07 11 84	.96 ppm SO_2	1.36 ppm	41.7%	Instrument not		used	
07 12 84	.96 ppm SO_2	1.4 ppm	45.8%	1.36	-2.0	.1	2.0
07 18 84	.96 ppm SO_2	1.3 ppm	35.4%				
07 18 84	.96 ppm SO_2	.98 ppm	2.1%	.98 ppm	0.0	.06	1.0%
07 19 84	.96 ppm SO_2	.92 ppm	-4.2%	.96	2.0%	.02	1.0%

[1] Average RF for multipoint calibration where RF = $\frac{\text{Standard Concentration}}{\text{Instrument Response}}$

[2] Calculated based on span results; acceptance criterion is: agreement within ±20% of multipoint RF

[3] QC Δ% = (Measured Conc. - Input Conc.)(100)/Input Conc.; acceptance criterion is: $-10\% \leq \Delta\% \leq 10\%$

[4] % Drift = (Posttest QC Response - Pretest QC Response)(100)/Full Scale Response

INSTRUMENT CALIBRATION AND QC DATA

Instrument ECOLYZER Site Purity/Fresno

S/N A1674 Technician DR

Daily Calibration Data

Date/ Time	Current Multipoint RF[1]	Zero Input	Zero Response	Span Input	Span Response	Daily RF[2]	Δ R
072084	1.021	UHP Air	0.0	.4ppm SO_2	.36ppm DR	1.171 DR	8.

QC Data

Date	QC Input Conc.	Pretest QC Response	QC Δ%[3]	Posttest QC Response	Upscale % Drift[4]	Posttest Zero Response	Zero Drift
072084	.96ppm SO_2	.96ppm	0.0%	.32	-32%	.02	1.0%

[1]Average RF for multipoint calibration where RF = $\frac{\text{Standard Concentration}}{\text{Instrument Response}}$

[2]Calculated based on span results; acceptance criterion is: agreement within ±20% of multipoint RF

[3]QC Δ% = (Measured Conc. - Input Conc.)(100)/Input Conc.; acceptance criterion is: $-10\% \leq \Delta\% \leq 10\%$

[4]% Drift = (Posttest QC Response - Pretest QC Response)(100)/Full Scale Response

INTERSCAN (LOW)

RADIAN CORPORATION

MULTIPOINT CALIBRATION DATA

SO_2 PARAMETER

Site: PURITY/FRESNO

Engineer: D. RANUM

Date: Hour 6-5-84 1600

Instrument Model Interscan

Instrument S/N:

Instrument Range: 0-100 ppm (LOW)

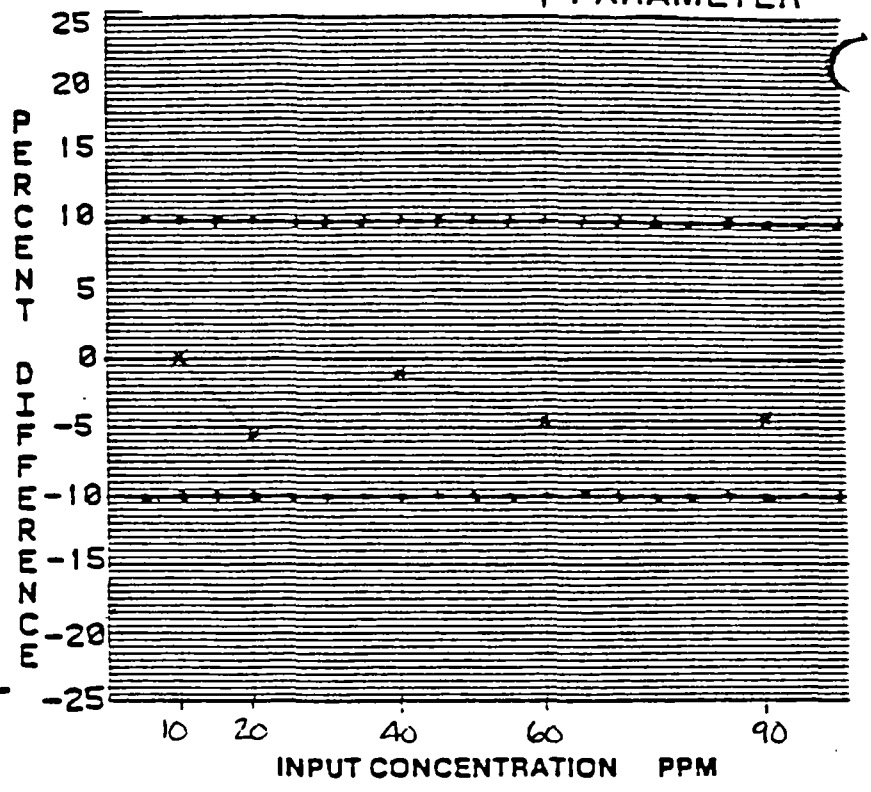
Calibrator: RAD II

Serial No.: 1005

Source Gas Cyl. No.: CC12339

Concentration: 2030 ppm SO_2 PPM

Ultra-pure Air Cylinder No. N101186



Unadjusted: Recalibrate if Response Greater Than ± 10 Percent

Source Flow SCCM %	Dilution Flow SCCM %	Input Concentration (ppm), A	Analyzer Response (ppm), 3	Percent Difference $(\frac{3-A}{A})\times100$ = %	RF
		0.000	00.0		
10	82.7	10	10.0	0.0	1.000
20	33.3	20	18.9	-5.5	1.058
50	20	40	40.4	1.0	0.990
80	19.5	60	57.3	-4.5	1.047
100	3.7	90	86.0	-4.4	1.047

SO_2 CAPS HIGH

Corr: -0.8120 $\overline{RF}$ = 1.028

Adjusted: Adjust Analyzer Response at 40 Percent of Full Scale

		0.000		

RADIAN CORPORATION

MULTIPOINT CALIBRATION DATA

INTERSCAN (MID)

SO_2

PARAMETER

Site: PURITY / FRESNO

Engineer: D. RANJM

Date: Hour 6-5-84 1400

Instrument Model INTERSCAN

Instrument S/N:

Instrument Range: 0 - 1000 ppm (MID)

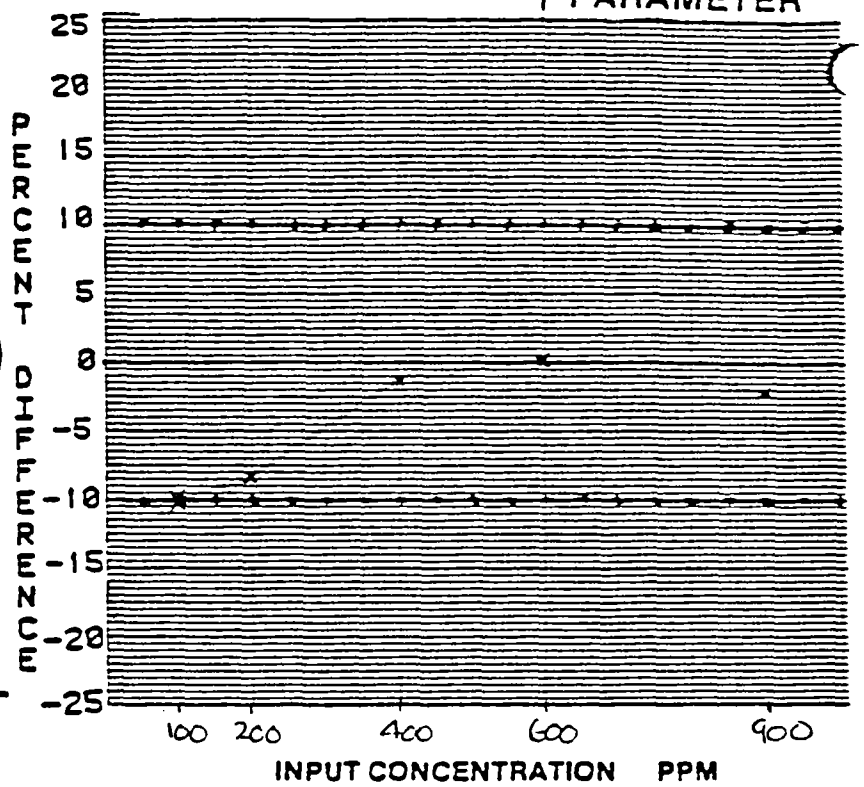
Calibrator: RAD II

Serial No.: 1005

Source Gas Cyl. No.: CC 12339

Concentration: 2030 ppm SO_2 PPM

Ultra-pure Air Cylinder No. N101126



Unadjusted: Recalibrate if Response Greater Than ± 10 Percent

CH4 CAPS

LOW

HIGH

Source Flow SCCM %	Dilution Flow SCCM %	Input Concentration (ppm), A	Analyzer Response (ppm), B	Percent Difference $(\frac{B-A}{A})\times 100 = \%$	RF
		0.000	0		
80	33.3	100	90	-10.0	1.1111
0	34.3	200	183	-8.5	1.092
30	37.8	400	395	-1.25	1.013
60	30.7	600	600	0.0	1.00
90	14.8	900	880	-2.2	1.023

Corr: 0.7691

$\overline{RF}$ = 1.048

Adjusted: Adjust Analyzer Response at 40 Percent of Full Scale

		0.000		

RADIAN CORPORATION

MULTIPOINT CALIBRATION DATA

INTERSCAN SO_2 (HIGH)
PARAMETER

Site: PURITY / FRESNO

Engineer: D. RANUM

Date: Hour 6-5-84 1430

Instrument Model INTERSCAN

Instrument S/N:

Instrument Range: 0-5000ppm SO_2 (HIGH)

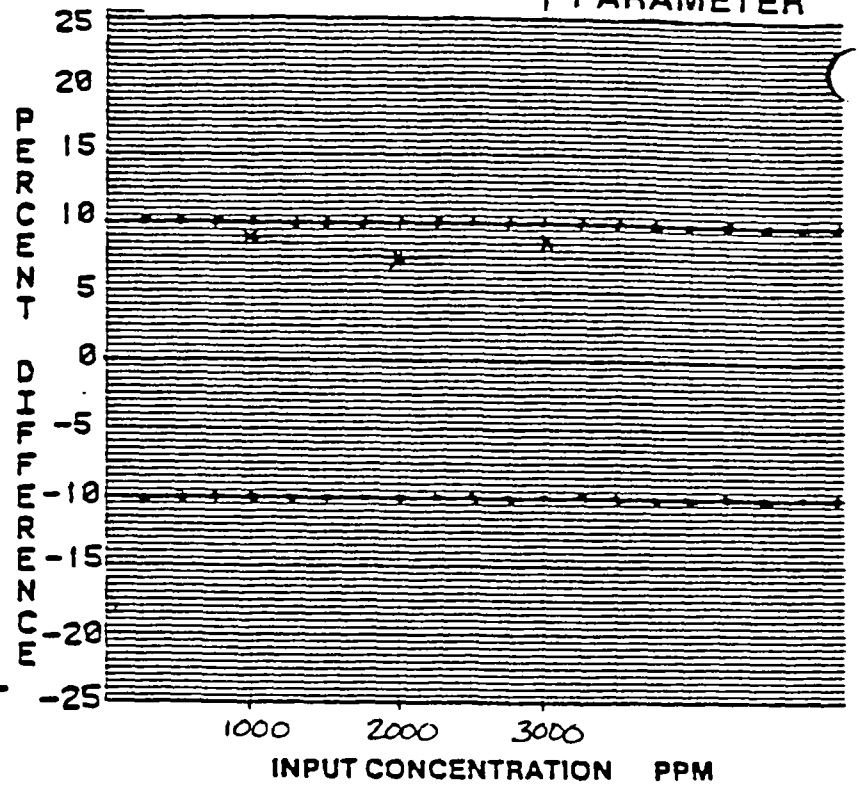
Calibrator: RAD II

Serial No.: 1005

Source Gas Cyl. No.: CC12272

Concentration: 6130ppm SO_2 PPM

Ultra-pure Air Cylinder No. N101186



Unadjusted: Recalibrate if Response Greater Than ± 10 Percent

CH4 CAPS

HIGH

Source Flow SCCM %	Dilution Flow SCCM %	Input Concentration (ppm), A	Analyzer Response (ppm), B	Percent Difference $(\frac{B-A}{A}) \times 100 =$	RF
		0.000	00.2		
20	38.3	1000	1090	9.0	0.917
60	21.7	2000	2150	7.5	0.930
100	6.0	3000	3270	9.0	0.917

Corr: 0.9999 $\overline{RF}$ = .9217

Adjusted: Adjust Analyzer Response at 40 Percent of Full Scale

		0.000		

RADIAN CORPORATION

MULTIPOINT CALIBRATION DATA

INTERSCAN [LOW]

SO_2 PARAMETER

Site: PURITY / FRESNO

Engineer: D. RANUM

Date: Hour 6·13·84

Instrument Model INTERSCAN

Instrument S/N:

Instrument Range: 0-100 ppm (LOW)

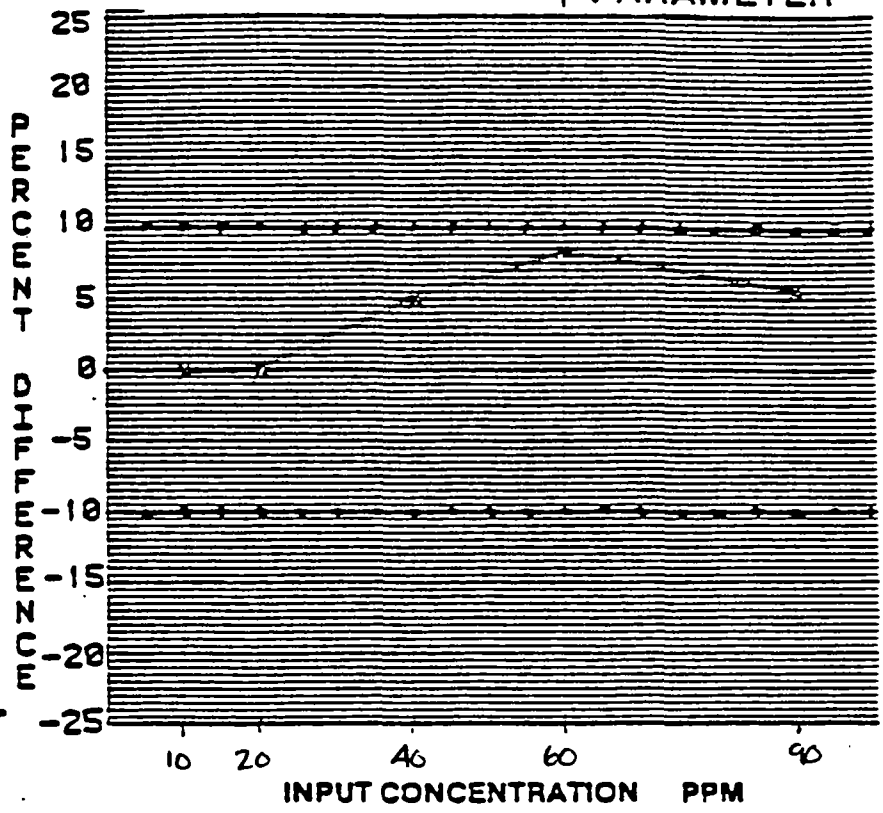
Calibrator: RAD II

Serial No.: 1005

Source Gas Cyl. No.: CC12339

Concentration: 2020 ppm SO_2 PPM

Ultra-pure Air Cylinder No. N261044



Unadjusted: Recalibrate if Response Greater Than ± 10 Percent

Source Flow SCCM ~~%~~	Dilution Flow SCCM ~~%~~	Input Concentration (ppm), A	Analyzer Response (ppm), B	Percent Difference $(\frac{B-A}{A}) \times 100 = Z$	RF
		0.000	1.0		
10	82.7	10	10	0.0	1.000
20	33.3	20	20	0.0	1.000
50	20	40	42	5.0	.952
80	19.5	60	65	8.3	.923
100	3.7	90	95	5.5	.947

SO_2 CAPS

HIGH

$\overline{RF}$ = .9646

Adjusted: Adjust Analyzer Response at 40 Percent of Full Scale

		0.000		

Figure 7-1. Multipoint Calibration Data Form

RADIAN CORPORATION

MULTIPOINT CALIBRATION DATA

INTERSCAN LOW

PARAMETER

Site: PURITY/FRESNO

Engineer: D. RANUM

Date: Hour 6·29·84

Instrument Model INTERSCAN

Instrument S/N:

Instrument Range: 0-100 ppm (LOW)

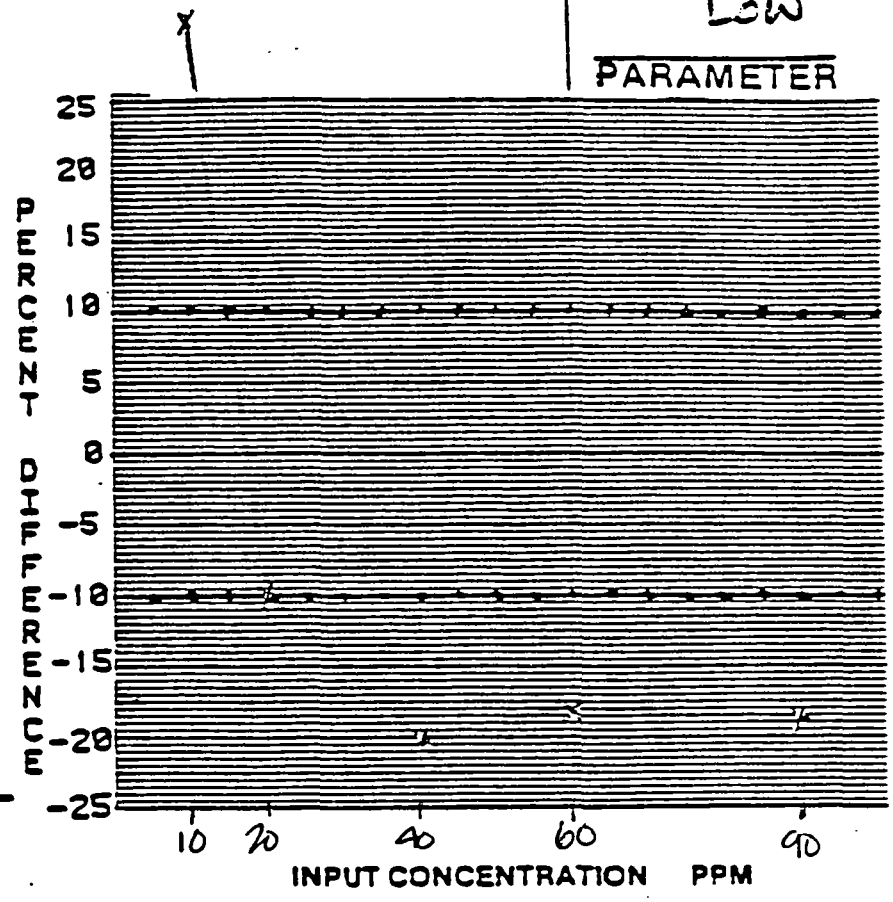
Calibrator: RAD II

Serial No.: 1005

Source Gas Cyl. No.: CC12339

Concentration: 2030 ppm SO_2 PPM

Ultra-pure Air Cylinder No. CC12248



Unadjusted: Recalibrate if Response Greater Than ± 10 Percent

Source Flow SCCM %	Dilution Flow SCCM %	Input Concentration (ppm), A	Analyzer Response (ppm), B	Percent Difference $(\frac{B-A}{A}) \times 100 = \%$	RF
		0.000			
10	83.7	10	13	30	.7692
20	33.3	20	18	-10	1.111
50	20	40	32	-20	1.25
80	12.5	60	49	-18.3	1.224
100	3.7	90	74	-17.8	1.216

SO_2 CAP'S

Corr. : 0.9978

$\overline{RF} = 1.114$

Adjusted: Adjust Analyzer Response at 40 Percent of Full Scale

		0.000		

Figure 7-1. Multipoint Calibration Data Form

RADIAN CORPORATION

MULTIPOINT CALIBRATION DATA

INTERSCAN LOW

PARAMETER

Site: PURITY / FRESNO

Engineer: D. RANUM

Date: Hour 7-5-84 530

Instrument Model INTERSCAN

Instrument S/N:

Instrument Range: 0 - 100ppm (LOW)

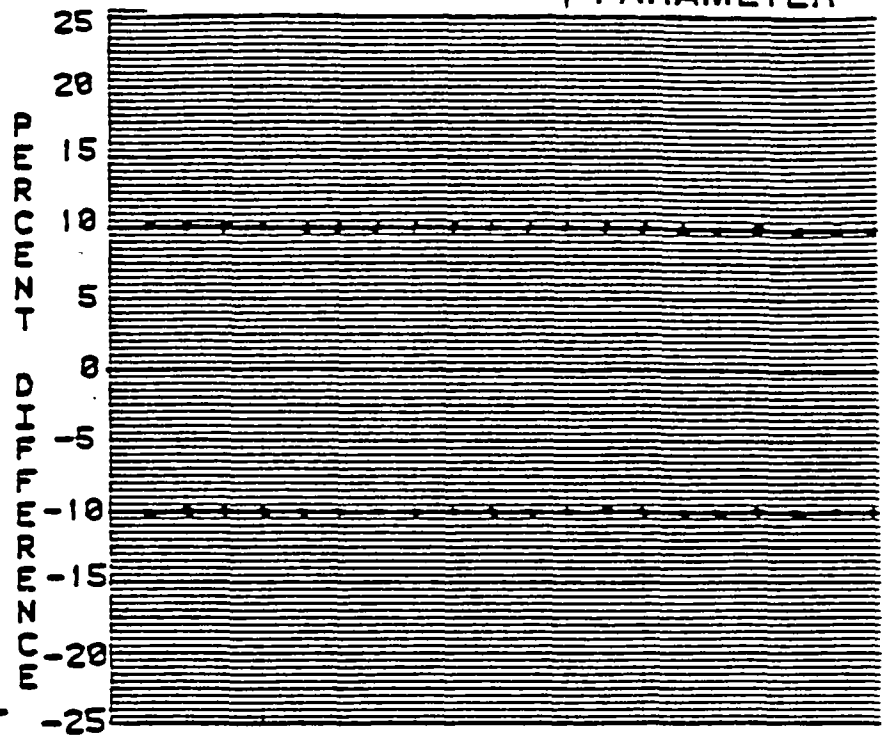
Calibrator: RAD II

Serial No.: 1005

Source Gas Cyl. No.: CC12339

Concentration: 2030 ppm SO_2 PPM

Ultra-pure Air Cylinder No. AAL4151



INPUT CONCENTRATION PPM

Unadjusted: Recalibrate if Response Greater Than ± 10 Percent

SO_2 CAPS HIGH

Source Flow SCCM %	Dilution Flow SCCM %	Input Concentration (ppm), A	Analyzer Response (ppm), B	Percent Difference $(\frac{B-A}{A}) \times 100 = \%$	RF
		0.000	0.5		
10	82.7	10	8.5	-15.0%	1.176
20	33.3	20	14	-30.0	1.429
50	20	40	28.5	-28.8	1.404
80	19.5	60	44.5	-25.8	1.348
100	37	90	67	-25.6	1.343

Corr: 0.9993

$\overline{RF} = 1.34$

Adjusted: Adjust Analyzer Response at 40 Percent of Full Scale

		0.000		

Figure 7-1. Multipoint Calibration Data Form

INSTRUMENT CALIBRATION AND QC DATA

Instrument INTERCAN Site PURDY/FRESNO

S/N Technician DR

Daily Calibration Data

Date/ Time	Current Multipoint RF[1]	Zero Input	Zero Response	Span Input	Span Response	Daily RF[2]	Δ: RF
				40 ppm	39.9 ppm		
6.11.84 915	1.007	UHP	00.3 ppm	~~39 ppm SO_2~~ ~~48.9 ppm~~	~~[illegible]~~ ~~100 ppm~~	.9 1.003	
6.12.84	1.007	UHP	~200 ppm High	2030 ppm SO_2	2000 (adj)	1.0	
6.13.84	.9646	UHP	1	40 ppm	42	.9524	-1.[illegible]
6.15.84	.9646	UHP	0.00	40 ppm	38 ppm	1.053	9.
6.18.84	.9646	UHP	0	40 PPM	43 PPM	0.9302	-3.
6.19.84	.9646	UHP	0.0	40 PPM	44 PPM	0.9090	-5
6.							

QC Data

Date	QC Input Conc.	Pretest QC Response	QC Δ%[3]	Posttest QC Response	Upscale % Drift[4]	Posttest Zero Response	Zero Drift[4]
6.11.84	48.9 ppm SO_2	100 ppm SO_2	104.5	90 ppm	-7.45%	50 ppm	24.8%
6.12.84	2030 ppm	~~[illegible]~~		2002 ppm			
	48.9 ppm			- 80 ppm			
6.13.84	48.9 ppm Low	62 ppm	26.8%	78 ppm	16.0%	7 ppm	6.0%
	2030 ppm HIGH	1900 ppm	- 6.4%	2700 ppm	16.0%		
6.15.84	48.9 ppm Low	75	53.4%	Instrument	not used		
	2030 ppm HIGH	2800	37.9%				
6.18.84	48.9 ppm Low	63 PPM	28.8%	INSTRUMENT	NOT USED		
	2030 PPM HIGH	1850 PPM	- 8.8				
		67 PPM					
		2050 PPM					

[1]Average RF for multipoint calibration where RF = $\frac{\text{Standard Concentration}}{\text{Instrument Response}}$

[2]Calculated based on span results; acceptance criterion is: agreement within ±20% of multipoint RF

[3]QC Δ% = (Measured Conc. - Input Conc.)(100)/Input Conc.; acceptance criterion is: $-10\% \leq \Delta\% \leq 10\%$

[4]% Drift = (Posttest QC Response - Pretest QC Response)(100)/Full Scale Response

INSTRUMENT CALIBRATION AND QC DATA

Instrument INTERSCAN Site PURITY/FRESNO

S/N _____ Technician RS.

Daily Calibration Data

Date/ Time	Current Multipoint RF[1]	Zero Input	Zero Response	Span Input	Span Response	Daily RF[2]	Δ R
6·19·84	.9646	UHP AIR	0.0	40 PPM SO_2	44 PPM	0.9090	-5
6·20·84	.9646	UHP AIR	1.0	40 PPM SO_2	42 PPM	0.9524	-1
6·21·84	.9646	UHP AIR	0.0	40 PPM SO_2	41 PPM	0.9756	+1
6·22·84	.9646	UHP AIR	0.0	40 PPM SO_2	43 PPM	0.9302	-3
6·23·84	.9646	UHP AIR	0.0	40 PPM SO_2	42 PPM	0.9524	-1

QC Data

Date	QC Input Conc.	Pretest QC Response	QC Δ%[3]	Posttest QC Response	Upscale % Drift[4]	Posttest Zero Response	Zero Drift
6·19·84	48.9 PPM LOW	67 PPM	+37%	64.0 PPM	-4.5%	0.0 PPM	+1.0 PPM
	2030 PPM HIGH	2050 PPM	+1.0%	1950 PPM	-4.8%	—	—
6·20·84	48 PPM LOW	69 PPM	+41%	66 PPM	-4.3	1.5 PPM	.5 PPM
	2030 PPM HIGH	2040 PPM	+0.5%	2045 PPM	0.2%	—	—
6·21·84	48.9 PPM LOW	~~1650 PPM~~ 58 PPM	+18.6%	46.0 PPM	~~[illegible]~~ -20%	1.5 PPM	1.5 PPM
	2030 PPM HIGH	1850 PPM	-8.9%	1620 PPM	-12.4%	—	—
6·22·84	48.9 PPM LOW	66 PPM	+34.9%	64 PPM	-3.0%	1.0	1.0 PPM
	2030 PPM HIGH	2060 PPM	+1.5%	2075 PPM	0.7%	—	—
		~~[illegible]~~ 72 2090					

[1]Average RF for multipoint calibration where RF = $\frac{\text{Standard Concentration}}{\text{Instrument Response}}$

[2]Calculated based on span results; acceptance criterion is: agreement within ±20% of multipoint RF

[3]QC Δ% = (Measured Conc. - Input Conc.)(100)/Input Conc.; acceptance criterion is: $-10\% \leq \Delta\% \leq 10\%$

[4]% Drift = (Posttest QC Response - Pretest QC Response)(100)/Full Scale Response

INSTRUMENT CALIBRATION AND QC DATA

Instrument INTERSCAN Site PURITY / FRESNO

S/N Technician RS.

Daily Calibration Data

Date/ Time	Current Multipoint RF[1]	Zero Input	Zero Response	Span Input	Span Response	Daily RF[2]	R: D
6.23.84	.9646	UHP AIR	0.0	40PPM SO_2	42PPM	0.9524	-1.
6.25.84	.9646	UHP AIR	0.0	40PPM SO_2	43PPM	0.9302	-3
6.26.84	.9646	UHP AIR	0.0	40 PPM SO_2	43PPM	0.9302	-3.
6.27.84	.9646	UHP AIR	0.0	40 PPM SO_2	42PPM	0.9523	-1.
6.28.84	.9646	UHP Air	1.0				
6.29.84	1.113	Amb		40ppm SO_2	32ppm	1.25	12

QC Data

Date	QC Input Conc.	Pretest QC Response	QC Δ%[3]	Posttest QC Response	Upscale % Drift[4]	Posttest Zero Response	Zero Drift
6.23.84	48.9PPM LOW	72PPM	+47.2%	66PPM	-8.3%	1.5PPM	1.5PPM
	2030PPM HIGH	2090PPM	+2.9%	SCALE NOT USED	RANGE NOT USED	—	—
6.25.84	48.9PPM LOW	76PPM	+55.4%	68PPM	-10.5%	2.0PPM	2.0PPM
	2030PPM HIGH	2650PPM	+30.5%	RANGE NOT USED	RANGE NOT USED	—	—
6.26.84	48.9PPM LOW	75PPM	53.4%	68PPM	-9.3%	1.5PPM	1.5PPM
	2030PPM HIGH	2600PPM	+28.1%	RANGE NOT USED	"	—	—
6.27.84	48.9PPM LOW	72PPM	+47.2%	66PPM	-8.3	0.5PPM	0.5PPM
	2030PPM HIGH	2450PPM	+20.7%	RANGE NOT USED		—	—
6.28.84	2030 ppm HIGH 48.9 ppm LOW	2400 70	18.2% 43.1%	Instrument not used			
6.29.84	2030 HIGH 48.9 LOW			1800 57		1.0	

[1]Average RF for multipoint calibration where RF = $\frac{\text{Standard Concentration}}{\text{Instrument Response}}$

[2]Calculated based on span results; acceptance criterion is: agreement within ±20% of multipoint RF

[3]QC Δ% = (Measured Conc. - Input Conc.)(100)/Input Conc.; acceptance criterion is: $-10\% \leq \Delta\% \leq 10\%$

[4]% Drift = (Posttest QC Response - Pretest QC Response)(100)/Full Scale Response

2250 2050 150 150 150 200

INSTRUMENT CALIBRATION AND QC DATA

Instrument INTERSCAN Site PURDY/FRESNO

S/N Technician DR

Daily Calibration Data

Date/ Time	Current Multipoint RF[1]	Zero Input	Zero Response	Span Input	Span Response	Daily RF[2]	Δ% R
7.2.84	1.114	UHP Air	5ppm	40ppm SO_2	36ppm	1.111	-0
7.3.84	1.114	UHP Air	1ppm	40ppm SO_2	32ppm	1.25	12
7.4.84	1.114	UHP Air	3ppm	40ppm SO_2	32ppm	1.25	12.
7.5.84	1.114	UHP Air		40ppm SO_2	30ppm	1.33 MTPT	19.
7.5.84	1.34	UHP Air	DR ~~0~~ 0.5	40ppm SO_2	28.5ppm	1.404	4.
7.6.84	1.34	UHP Air	1ppm	40ppm SO_2	34ppm	1.176	-12
7.7.84	1.34	UHP Air		40ppm SO_2	35ppm	1.142	-1
7.9.84	1.34	UHP Air	2ppm	40ppm SO_2	29ppm	1.379	2.
071084	1.34	UHP Air	3ppm	40ppm SO_2	27ppm	1.481	10.

QC Data

Date	QC Input Conc.	Pretest QC Response	QC Δ%[3]	Posttest QC Response	Upscale % Drift[4]	Posttest Zero Response	Zero Drift
7.2.84	2030/48.9	2000/63	-1.5/28.8	1500/46	-10%/-17%	2ppm ~~0.04~~	-3.0%
7.3.84	2030/48.9	2000/58	-1.5/18.6	1580/42	-8.4%/-16%	3.5	2.5%
7.4.84	2030/48.9	2100/58	3.4/18.6	1750/44	-7.0/-14%	2.0ppm	-1.0%
7.5.84	2030/48.9	2000/49	-1.5/0.2				
7.5.84	2030/48.9	2000/49	-1.5/0.2	1650/40	-7.0/-9%	2.0ppm	1.5%
7.6.84	2030/48.9	2000/50	-1.5/2.2	1650/48.5	-7.0/-1.5%	3.0ppm	2.0%
7.7.84	2030/48.9	1950/51	-3.9/4.3	1600/40	-7.0/-11%	4.0ppm	—
7.9.84	2030/48.9	2000/50	-1.5/2.2	1600/41	-8.0/-9%	1.0ppm	-1.0%
7.10.84	2030/48.9	1900/47	-6.4/-3.9	1500/46	-8.0/-1.0	3.0	0.0

[1]Average RF for multipoint calibration where RF = $\frac{\text{Standard Concentration}}{\text{Instrument Response}}$

[2]Calculated based on span results; acceptance criterion is: agreement within ±20% of multipoint RF

[3]QC Δ% = (Measured Conc. - Input Conc.)(100)/Input Conc.; acceptance criterion is: $-10\% \leq \Delta\% \leq 10\%$

[4]% Drift = (Posttest QC Response - Pretest QC Response)(100)/Full Scale Response

INSTRUMENT CALIBRATION AND QC DATA

Instrument INTERSCAN Site PURITY/FRESNO

S/N Technician DR

Daily Calibration Data

Date/ Time	Current Multipoint RF[1]	Zero Input	Zero Response	Span Input	Span Response	Daily RF[2]	L R
071184	1.34	UHP Air	2.5	40ppm SO_2	30ppm	1.333	-0
071284	1.34	UHP Air	1.0	40ppm SO_2	29ppm	1.379	2
071884	1.34	UHP Air	3.5	40ppm SO_2	29ppm	1.379	2
071984	1.34	UHP Air	2.0	40ppm SO_2	29ppm	1.379	2.
072084	1.34	UHP Air	2.0ppm	40ppm SO_2	31ppm	1.29	-3

QC Data

Date	QC Input Conc.	Pretest QC Response	QC Δ%[3]	Posttest QC Response	Upscale % Drift[4]	Posttest Zero Response	Zero Drift
071184	2030/48.9	1950/50	-3.9%/2.2%				
071284	2030/48.9	2000/57	-1.5/16.6%	1600/47	-8/-10	2	1.0%
071884	2030/48.9	1900/56	-6.4/14.5%	1450/39	-9/-17	6	2.5%
071984	2030/48.9	1850/50	-8.9/2.2	1600/45	-5/-5	2.5	0.5%
072084	2030/48.9	1900/48	-6.4/-1.8%	1700/51	-4/3	3.0	1.0%

[1]Average RF for multipoint calibration where RF = $\frac{\text{Standard Concentration}}{\text{Instrument Response}}$

[2]Calculated based on span results; acceptance criterion is: agreement within ±20% of multipoint RF

[3]QC Δ% = (Measured Conc. - Input Conc.)(100)/Input Conc.; acceptance criterion is: $-10\% \leq \Delta\% \leq 10\%$

[4]% Drift = (Posttest QC Response - Pretest QC Response)(100)/Full Scale Response

RADIAN CORPORATION

MULTIPOINT CALIBRATION DATA

AIDS 103304

C_6H_6
PARAMETER

Site: PURITY / FRESNO

Engineer: R. STEPHENS

Date: Hour 6-6-84 ~ 1500

Instrument Model AIDS 580

Instrument S/N: 103304

Instrument Range: 0-20ppm

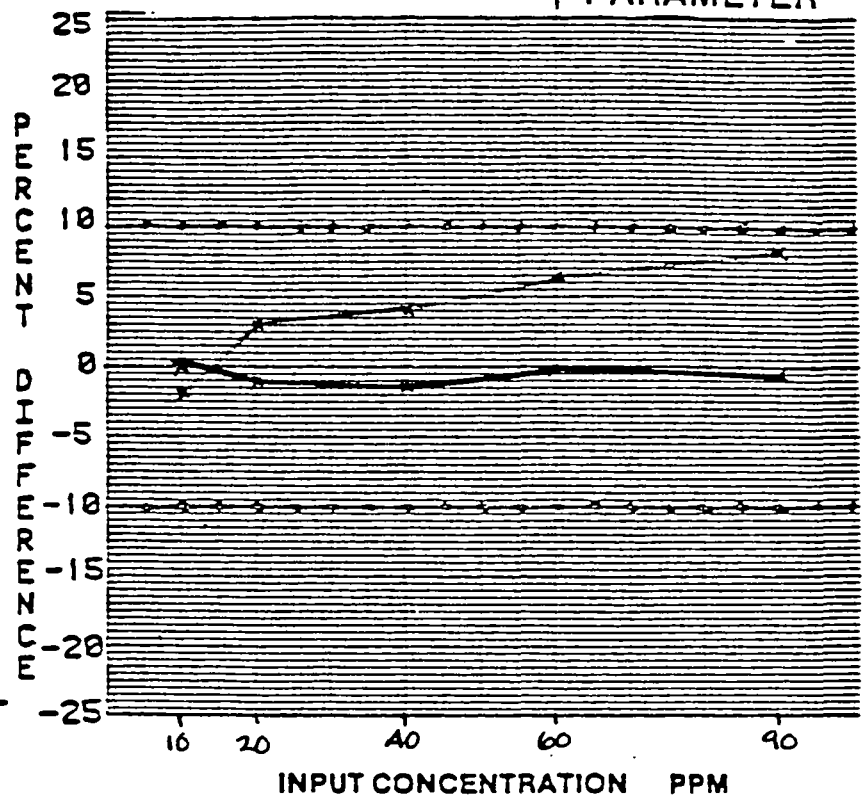
Calibrator: RAD II

Serial No.: 1005

Source Gas Cyl. No.: AAL11878

Concentration: 100ppm C_6H_6 PPM

Ultra-pure Air Cylinder No. N101186



Unadjusted: Recalibrate if Response Greater Than ± 10 Percent

Source Flow SCCM C_6	Dilution Flow SCCM N_2	Input Concentration (ppm), A	Analyzer Response (ppm), B	Percent Difference $(\frac{B-A}{A}) \times 100 = \%$	RF
		0.000	-00.1		
70	23.7	5	4.9	-2.0	1.020
10	65	10	10.3	3.0	.971
30	36.4	20	20.8	4.0	.961
60	29.4	30	31.9	6.3	.940
100	13.5	45	48.7	8.2	.905

3rd CAPS

LOW

HIGH

$\overline{RF} = 0.959$

Adjusted: Adjust Analyzer Response at 40 Percent of Full Scale

6.12.84

		0.000	-00.3	
		5	5.0	0.0
		10	9.9	-1.0
		20	19.7	-1.5%
		30	29.9	-0.3
		45	45.3	0.7

$\overline{RF} = 1.004$

Comments:

RADIAN CORPORATION

MULTIPOINT CALIBRATION DATA

AIDS 103304

PARAMETER

Site: Pinsith / Freeway

Engineer: D. Rankin

Date: Hour 6/29/04 1400

Instrument Model AIDS 500

Instrument S/N: 103304

Instrument Range: 0-20000ppm

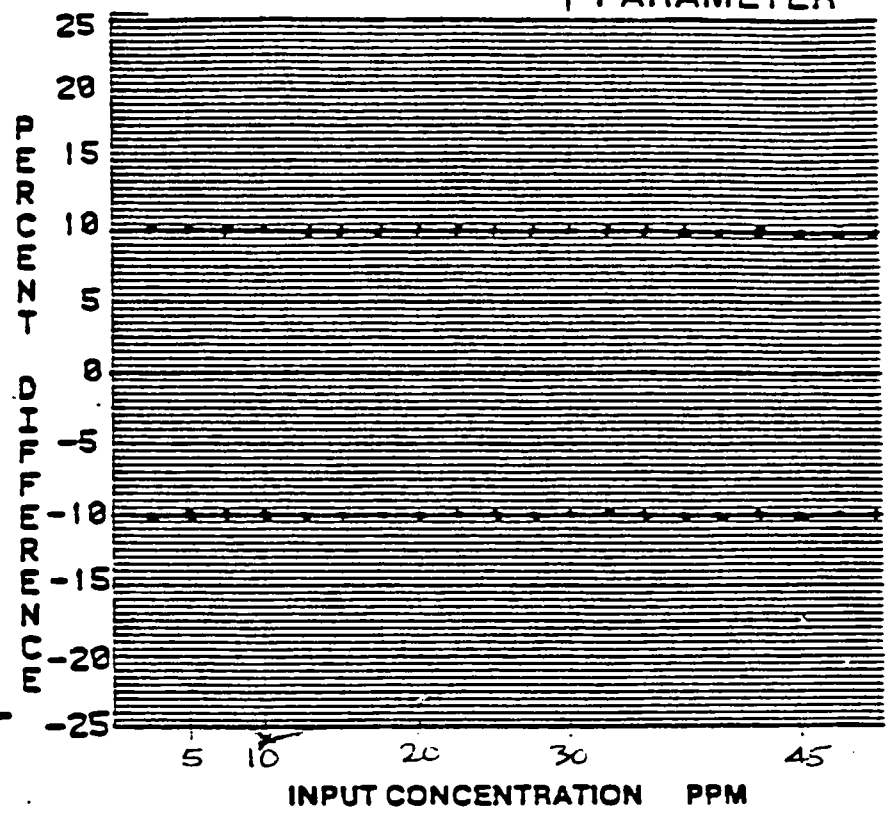
Calibrator: PADTB

Serial No.: 1005

Source Gas Cyl. No.: AAL 118756

Concentration: 100ppm C6H6 PPM

Ultra-pure Air Cylinder No. CC122449



Unadjusted: Recalibrate if Response Greater Than ± 10 Percent

Source Flow SCCM	Dilution Flow SCCM	Input Concentration (ppm), A	Analyzer Response (ppm), B	Percent Difference $(\frac{B-A}{A}) \times 100 = \%$	
		0.000	-00.1		RF
70	22.7	5	3.9	-22.0	1.282
10	65	10	7.4	-26.0	1.35
20	21.4	20	15.5	-22.5	1.290
40	29.4	30	24.5	-18.3	1.224
100	13.5	45	36.9	-18.0	1.22

C6H6 Caps low high

Corr. 0.9996

RF = 1.273

Adjusted: Adjust Analyzer Response at 40 Percent of Full Scale

		0.000			

Figure 7-1. Multipoint Calibration Data Form

Analyzer adjusted to 23.7 ppm C6H6 QC gas

RADIAN CORPORATION

MULTIPOINT CALIBRATION DATA

AIDS
103304
PARAMETER

Site: Purdy/Fresno

Engineer: D. Rankin

Date: Hour 7.2.84 800

Instrument Model AIDS

Instrument S/N: 103304

Instrument Range: 0-200

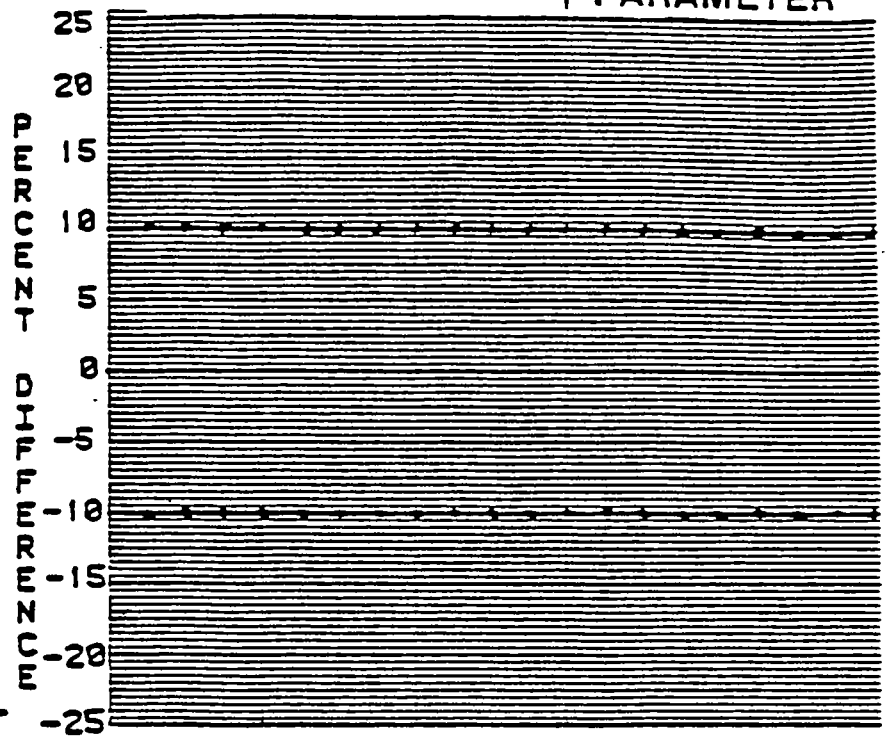
Calibrator: RAD II

Serial No.: 1005

Source Gas Cyl. No.: AAL 11878

Concentration: 100ppm C_6H_6 PPM

Ultra-pure Air Cylinder No. _____



INPUT CONCENTRATION PPM

Unadjusted: Recalibrate if Response Greater Than ± 10 Percent

CH_4 CAPS Low HIGH

Source Flow SCCM	Dilution Flow SCCM	Input Concentration (ppm), A	Analyzer Response (ppm), B	Percent Difference $(\frac{B-A}{A})\times100$ = %	
		0.000			
70	23.7	5	~~4.4~~ 2.2	-56	2.273
10	65	10	~~8.3~~ 5.8	-42	1.724
30	36.4	20	~~16~~ 12.8	-36	1.563
60	29.4	30	19.9	-33.7	1.508
100	13.5	45	30.8	-31.6	1.461

Corr: 0.99997

$\overline{RF}$ = 1.706

Adjusted: Adjust Analyzer Response at 40 Percent of Full Scale

7-6-84

					RF
		0.000	-00.8		
		5	3.2	-36.0	1.563
		10	7.6	-24.0	1.316
		20	16.4	-18.0	1.220
		30	25.4	-15.3	1.181
		45	39.7	-11.8	1.134

Figure 7-1. Multipoint Calibration Data Form

$\overline{RF}$ = 1.283

Instrument drifts when outside

Sens Cal: 2.0

Corr = 0.9998

RADIAN CORPORATION

MULTIPOINT CALIBRATION DATA

AIDS 103304

PARAMETER

Site: Purity / Fresno

Engineer: D. RANUM

Date: Hour 7-9-84 445

Instrument Model AIDS 580

Instrument S/N: 103304

Instrument Range: 0-200ppm

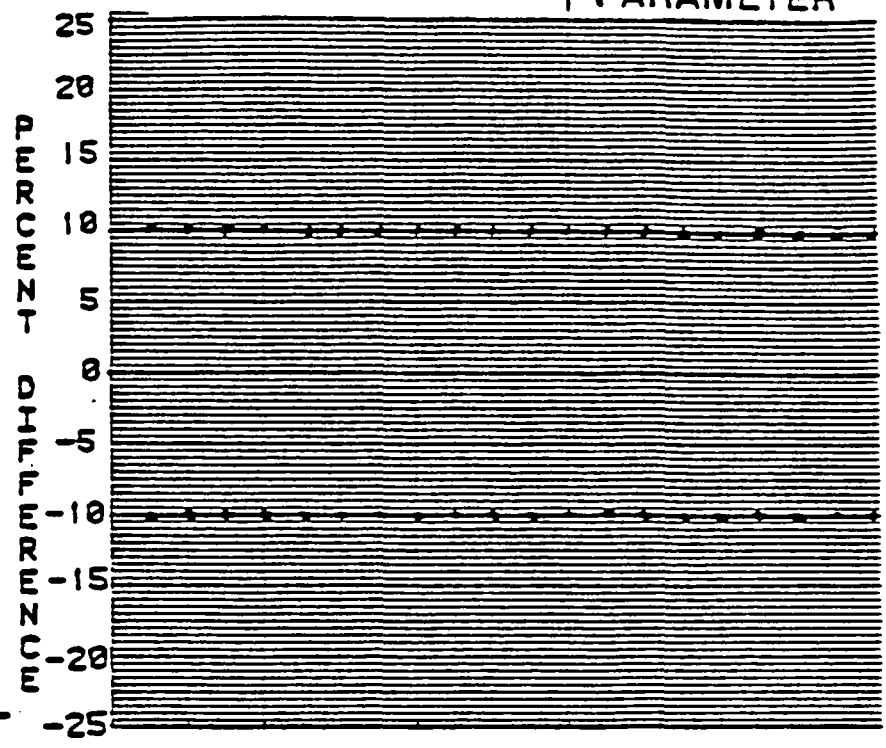
Calibrator: RADII

Serial No.: 1005

Source Gas Cyl. No.: AAL 11878

Concentration: 100ppm C_6H_6 PPM

Ultra-pure Air Cylinder No. AAL 4151



INPUT CONCENTRATION PPM

Unadjusted: Recalibrate if Response Greater Than ± 10 Percent

Source Flow SCCM %	Dilution Flow SCCM %	Input Concentration (ppm), A	Analyzer Response (ppm), B	Percent Difference $(\frac{B-A}{A}) \times 100 = \%$	RF
		0.000	00.0		
70	23.7	5	4.2	-16.0	1.190
10	65	10	8.4	-16.0	1.190
30	36.4	20	16.9	-15.5	1.183
60	29.4	30	25.9	-13.7	1.158
100	13.5	45	39.4	-12.4	1.142

CH4 CAPS

LOW

HIGH

Corr: 0.9999

$\overline{RF}$ = 1.173

Adjusted: Adjust Analyzer Response at 40 Percent of Full Scale

					RF
		0.000	00.1		
		5	3.6	-28 %	1.389
		10	7.5	-25 %	1.333
		20	15.9	-21 %	1.266
		30	24.1	-19.7 %	1.245
		45	37.5	-16.7 %	1.2

1.12.84

Figure 7-1. Multipoint Calibration Data Form

$\overline{RF}$ = 1.287

Corr = 0.9997

RADIAN CORPORATION

MULTIPOINT CALIBRATION DATA AIDS 103304

Site: Pixity/Fresno

Engineer: D. Ranum

Date: Hour 7.18.84 1000

Instrument Model AIDS 580

Instrument S/N: 103304

Instrument Range: 0-2000 ppm

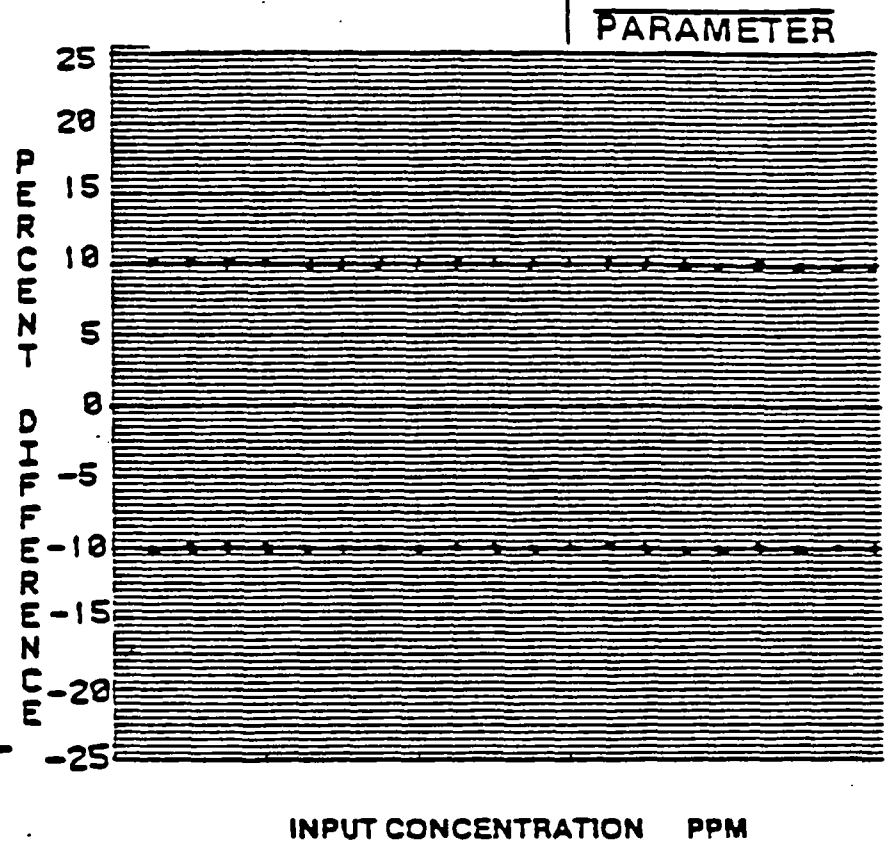
Calibrator: RAD II

Serial No.: 1005

Source Gas Cyl. No.: AAL 11878

Concentration: 100ppm C_6H_6 PPM

Ultra-pure Air Cylinder No. AAL 11876



Unadjusted: Recalibrate if Response Greater Than ± 10 Percent

Source Flow SCCM %	Dilution Flow SCCM	Input Concentration (ppm), A	Analyzer Response (ppm), B	Percent Difference $(\frac{B-A}{A}) \times 100 = \%$	
		0.000	-00.7		RF
70	23.7	5	3	-40.0	1.667
10	65	10	7.2	-28	1.389
30	36.4	20	15.8	-21 %	1.266
60	29.4	30	24.8	-17.3	1.21
100	13.5	45	38.9	-13.6	1.157

CH_4 CAPS Low High

Corr: 0.9997 $\overline{RF}$ = 1.338

Adjusted: Adjust Analyzer Response at 40 Percent of Full Scale

		0.000		

Figure 7-1. Multipoint Calibration Data Form

INSTRUMENT CALIBRATION AND QC DATA

Instrument AIDS 103304 Site PURITY/FRESNO

S/N 103304 Technician DR

Daily Calibration Data

Date/ Time	Current Multipoint RF[1]	Zero Input	Zero Response	Span Input	Span Response	Daily RF[2]	RI Δ
6.8.84	0.959	UHP Air	-00.3	20ppm C_6H_6	18.5 ppm	1.081	12.
6.9.84	0.959	UHP Air	-00.3	20ppm C_6H_6	19.3 ppm	1.036	8.0
~~6.10.84 700~~	~~0.959~~	~~UHP Air~~	~~-00.3~~	~~20ppm C_6H_6~~	~~19.3ppm~~	~~1.036~~	~~8.0~~
6.11.84 850	0.959	UHP Air	-00.2	20ppm C_6H_6	18.8ppm	1.064	10.9
6.12.84	1.004	UHP Air	-00.0	20ppm C_6H_6	19.7ppm	1.015	1.1
6.13.84 700	1.004	AmD	-00.0	20ppm C_6H_6	23.4ppm	.8547	-14.
6.14.84	1.004	UHP	-01.2	20ppm C_6H_6	21.7ppm	.9217	-8.
6.15.84	1.004	UHP	-00.4ppm	20ppm C_6H_6	23.3ppm	.8584	-14
6-19-84900	1.004	UHP	00.0 ppm	20ppm C_6H_6	19.4PPM	1.031	+2.

QC Data

Date	QC Input Conc.	Pretest QC Response	QC Δ%[3]	Posttest QC Response	Upscale % Drift[4]	Posttest Zero Response	Zero Drift[4]
6.8.84	23.7ppm C_6H_6	31 ppm	30.8 %	29.6 ppm	-0.7 %	00.0	0.15%
6.9.84	23.7ppm C_6H_6	30.6ppm	+29.1	29.8ppm	0.35%	00.0	0.15%
~~6.10.84~~	~~23.7ppm C_6H_6~~	~~30.~~					
6.11.84	23.7ppm C_6H_6	29.6ppm	24.9 %	23 ppm	-3.3 %	00.0	0.1%
6.12.84	23.7ppm C_6H_6	32.3ppm	36.3%	43.2ppm	5.45%	1.0	0.5%
6.13.84	23.7ppm C_6H_6	40.7ppm	68.7%	39.6ppm	-0.55%	-2.0	-1.0%
6.14.84	23.7ppm C_6H_6	36ppm	51.9%	38ppm	1.0%	0.0	0.6%
6.15.84	23.7ppm C_6H_6	36ppm	51.9%	30.5ppm	-2.75%	-1.1	0.35%
6-19-84900	23.7ppm C_6H_6	31PPM	30.8%	INSTRUMENT NOT		USED	

[1]Average RF for multipoint calibration where RF = $\frac{\text{Standard Concentration}}{\text{Instrument Response}}$

[2]Calculated based on span results; acceptance criterion is: agreement within ±20% of multipoint RF

[3]QC Δ% = (Measured Conc. - Input Conc.)(100)/Input Conc.; acceptance criterion is: $-10\% \leq \Delta\% \leq 10\%$

[4]% Drift = (Posttest QC Response - Pretest QC Response)(100)/Full Scale Response

INSTRUMENT CALIBRATION AND QC DATA

Instrument AID 580 Site PURITY / FRESNO

S/N 103304 Technician R.S.

Daily Calibration Data

Date/ Time	Current Multipoint RF[1]	Zero Input	Zero Response	Span Input	Span Response	Daily RF[2]	R Δ
6·19·84	1.004	UHP AIR	+0.10 PPM	20 PPM C_6H_6	20.3 PPM	0.9852	-
6·20·84	1.004	UHP AIR	+0.10 PPM	20 PPM C_6H_6	20.4 PPM	0.9804	-2
6·21·84	1.004	UHP AIR	0.0 PPM	20 PPM C_6H_6	18.9 PPM	1.058	+5
6·22·84	1.004	UHP AIR	-0.2 PPM	20 PPM C_6H_6	20.2 PPM	0.9901	-1.
6·23·84	1.004	UHP AIR	-0.4 PPM	20 PPM C_6H_6	20.4 PPM	0.9804	-2
6·25·84	1.004	UHP AIR	-0.1 PPM	20 PPM C_6H_6	20.5 PPM	0.9615	-1
6·26·84	1.004	UHP AIR	+0.3 PPM	20 PPM C_6H_6	20.4 PPM	0.9804	-2
6·27·84	1.004	UHP AIR	+0.3 PPM	20 PPM C_6H_6	19.3 PPM	1.036	+3
6·29·84	1.273	UHP Air	-1.3	20 ppm C_6H_6	17 ppm	1.176	-7

QC Data

Date	QC Input Conc.	Pretest QC Response	QC Δ%[3]	Posttest QC Response	Upscale % Drift[4]	Posttest Zero Response	Zero Drift
6·19·84	23.7 PPM C_6H_6	35.5 PPM	49.7%	32.8 PPM	-7.6%	-0.1 PPM	0.2 PPM
6·20·84	23.7 PPM C_6H_6	36.2 PPM	52.7%	36.9	+1.9%	+0.1 PPM	0.2 PPM
6·21·84	23.7 PPM C_6H_6	34.2 PPM	44.3%	26.5	-22.5%	-0.1 PPM	0.1 PPM
6·22·84	23.7 PPM C_6H_6	34.0 PPM	43.4%	30.8	-9.4%	-0.1 PPM	0.1 PPM
6·23·84	23.7 PPM C_6H_6	34.6 PPM	45.9%	28.4	-17.9%	-0.7 PPM	0.3 PPM
6·25·84	23.7 PPM	36.1 PPM	52.3%	33.2	-8.0%	-0.6 PPM	0.5 PPM
6·26·84	23.7 PPM	34.5 PPM	45.6%	33.4	-3.2%	+0.3 PPM	0 PPM
6·27·84	23.7 PPM	32.6 PPM	37.6%				
6·29·84	23.7 ppm	23.8 ppm	0.4%	18.5	-2.7%	-01.6	-0.15%

[1] Average RF for multipoint calibration where RF = $\frac{\text{Standard Concentration}}{\text{Instrument Response}}$

[2] Calculated based on span results; acceptance criterion is: agreement within ±20% of multipoint RF

[3] QC Δ% = (Measured Conc. - Input Conc.)(100)/Input Conc.; acceptance criterion is: $-10\% \leq \Delta\% \leq 10\%$

[4] % Drift = (Posttest QC Response - Pretest QC Response)(100)/Full Scale Response

INSTRUMENT CALIBRATION AND QC DATA

Instrument BUDS 580 Site PURITY / FRESNO

S/N 103304 Technician DR

Daily Calibration Data

Date/ Time	Current Multipoint RF[1]	Zero Input	Zero Response	Span Input	Span Response	Daily RF[2]	R Δ
7.2.84	1.273	UHP Air		20ppm	12.1	1.653	29
7.2.84	1.273	UHP Air		2			
7.3.84	1.706	UHP Air	-00.4	20ppm C_6H_6	13.0	1.538	-9.
7.4.84	1.706	UHP Air	-00.3	20ppm C_6H_6	12.8	1.563	-8
7.5.84	1.706	UHP Air	-00.4	20ppm C_6H_6	11.4	1.754	2.
7.6.84	1.706	UHP Air	-00.4	20ppm C_6H_6	10.2	1.961 MTPT	14.
7.6.84	1.283	UHP Air	-00.8	20ppm C_6H_6	16.4	1.22	-4
7.7.84	1.283	UHP Air	00.1	20ppm C_6H_6	15.4	1.299	1.
7.9.84	1.283	UHP Air		20ppm C_6H_6	12.4	1.613 MTPT	25

QC Data

Date	QC Input Conc.	Pretest QC Response	QC Δ%[3]	Posttest QC Response	Upscale % Drift[4]	Posttest Zero Response	Zero Drift[4]
7.2.84	23.7ppm C_6H_6	18.6	-21.5%				
7.2.84	23.7ppm	19.6	-17.3%	18.3	-0.07	-1.7	
7.3.84	23.7ppm C_6H_6	~~18.4ppm~~ 20.0	~~-23.1%~~ -15.6%	19.2	-0.4	-00.5	0.05%
7.4.84	23.7ppm C_6H_6	18.8	-20.7	17.9	-0.5%	-00.5	0.0%
7.5.84	23.7ppm C_6H_6	17.7	-25.3%	15.3	-1.2%	-00.6	0.1%
7.6.84	23.7ppm C_6H_6	15.2					
7.6.84	23.7ppm C_6H_6	23.7ppm	0.0	22.5	-0.6%	-00.8	0.0%
7.7.84	23.7ppm C_6H_6	21.3ppm	-10.1%	17.8	-7.0%	-1.0	-2.2%
7.9.84	23.7ppm C_6H_6	18.0ppm	-24.1%				

[1]Average RF for multipoint calibration where RF = $\frac{\text{Standard Concentration}}{\text{Instrument Response}}$

[2]Calculated based on span results; acceptance criterion is: agreement within ±20% of multipoint RF

[3]QC Δ% = (Measured Conc. - Input Conc.)(100)/Input Conc.; acceptance criterion is: $-10\% \leq \Delta\% \leq 10\%$

[4]% Drift = (Posttest QC Response - Pretest QC Response)(100)/Full Scale Response

INSTRUMENT CALIBRATION AND QC DATA

Instrument AOS 580 Site Purina/Fresno

S/N 103304 Technician DR

Daily Calibration Data

Date/ Time	Current Multipoint RF[1]	Zero Input	Zero Response	Span Input	Span Response	Daily RF[2]	Δ% R
7-9-84	1.173	UHP Air	00.0	20ppm C_6H_6	16.9ppm	1.183	0.
07-10-84	1.173	UHP Air	00.0	20ppm C_6H_6	15.0 ppm	1.333	13.
071184	1.173	UHP Air	00.0	20ppm C_6H_6	15.8 ppm	1.266	7.
071284	1.173	UHP Air		20ppm C_6H_6	13.6 ppm	1.471 MTPT	25
071284	1.287	UHP Air	00.1	20ppm C_6H_6	15.8ppm	1.266	-1.
071384	1.287	UHP Air	-00.3	20 ppm C_6H_6	15.0	1.333	3.
071784	1.287	UHP Air	-00.3	20ppm C_6H_6	13.7	1.460	13
071884	1.338	UHP Air	-00.7	20ppm C_6H_6	15.8ppm	1.266	-5
071984	1.338	UHP Air	-00.8	20ppm C_6H_6	14.2	1.408	5.

QC Data

Date	QC Input Conc.	Pretest QC Response	QC Δ%[3]	Posttest QC Response	Upscale % Drift[4]	Posttest Zero Response	Zero Drift
7-9-84	23.7ppm C_6H_6	24.0		Instrument not used			
07-10-84	23.7ppm C_6H_6	21.0	-11.4%	17.4ppm	-1.8%	00.0	0.0
071184	23.7ppm C_6H_6	22.9ppm	-3.4%	22.3ppm	0.3%	00.0 DR	0.0% DR
071284	23.7ppm C_6H_6	20.9ppm					
071284	23.7ppm C_6H_6	23.9ppm	0.8%	23.4ppm	-0.25%	00.0	-0.4%
071384	23.7ppm C_6H_6	22.6ppm	-4.6%	22.0ppm	-0.3%	-00.2	0.05%
071784	23.7ppm C_6H_6	21.0ppm	-11.4%	20.3ppm	-0.4%	-00.4	-0.05%
071884	23.7ppm C_6H_6	24.1ppm	1.7%	Instrument not used			
071984	23.7ppm C_6H_6	21.3ppm	-10.1	19.6	-0.9%	-00.9	-0.05%

[1]Average RF for multipoint calibration where RF = $\frac{\text{Standard Concentration}}{\text{Instrument Response}}$

[2]Calculated based on span results; acceptance criterion is: agreement within ±20% of multipoint RF

[3]QC Δ% = (Measured Conc. - Input Conc.)(100)/Input Conc.; acceptance criterion is: $-10\% \leq \Delta\% \leq 10\%$

[4]% Drift = (Posttest QC Response - Pretest QC Response)(100)/Full Scale Response

INSTRUMENT CALIBRATION AND QC DATA

Instrument ADS 580 Site Purity/Fresno

S/N 103304 Technician DR

Daily Calibration Data

Date/ Time	Current Multipoint RF[1]	Zero Input	Zero Response	Span Input	Span Response	Daily RF[2]	Δ% RF
072084	1.338	UHP Air	00.1	20ppm Hc	13.5 ppm	1.481	10

QC Data

Date	QC Input Conc.	Pretest QC Response	QC Δ%[3]	Posttest QC Response	Upscale % Drift[4]	Posttest Zero Response	Zero Drift
072084	23.7ppm Hc	19.7 ppm	-16.9%	18.0	0.9%	00.1	0.0

[1]Average RF for multipoint calibration where RF = $\frac{\text{Standard Concentration}}{\text{Instrument Response}}$

[2]Calculated based on span results; acceptance criterion is: agreement within ±20% of multipoint RF

[3]QC Δ% = (Measured Conc. - Input Conc.)(100)/Input Conc.; acceptance criterion is: $-10\% \leq \Delta\% \leq 10\%$

[4]% Drift = (Posttest QC Response - Pretest QC Response)(100)/Full Scale Response

RADIAN

MULTIPOINT CALIBRATION DATA

OVA 108
CH_4 C5788
PARAMETER

Site: PURITY/FRESNO

Tester: D. RANUM

Date: Hour 6.6.84 1430

Instrument Model OVA 108

Instrument S/N: C5788

Instrument Range: 0-1%

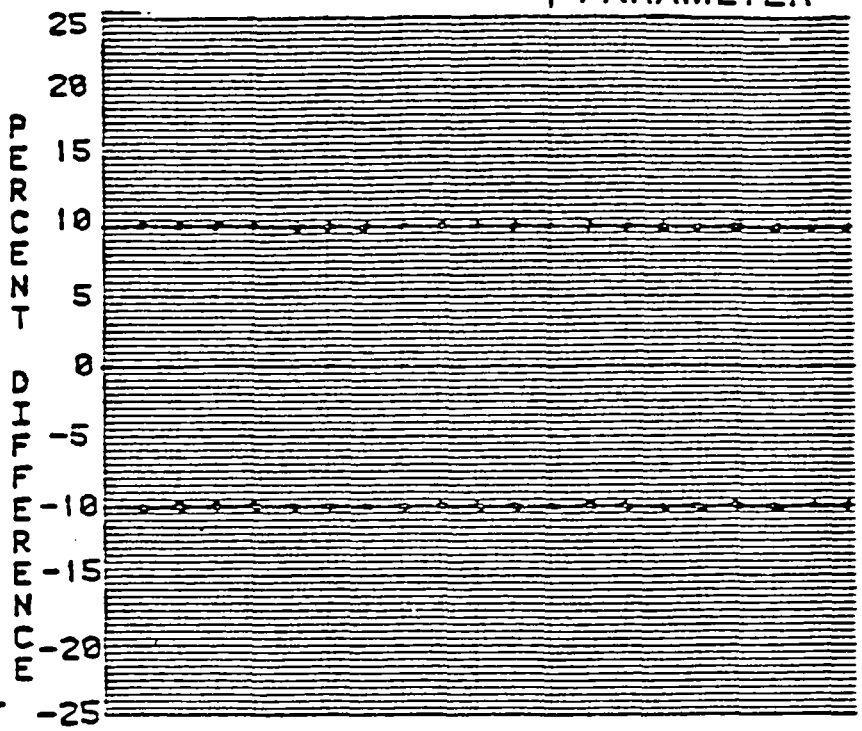
Calibrator: RAD II

Serial No.: 1005

Source Gas Cyl. No.: AAL 5965

Concentration: 1020ppm CH_4 PPM

Ultra-pure Air Cylinder No. N101186



INPUT CONCENTRATION PPM

Unadjusted: Recalibrate if Response Greater Than ± 10 Percent

H_4 CAPS LOW

Source Flow SCCM %	Dilution Flow SCCM %	Input Concentration (ppm), A	Analyzer Response (ppm), B	Percent Difference $(\frac{B-A}{A})\times 100 = \%$	RF
		0.000			
10	63.1	10	9	- 10.0	1.1111
30	47.5	20	18	- 10.0	1.1111
50	23.2	40	38	- 5.0	1.053
70	14	60	55	- 8.3	1.091
100	9.6	90	85	- 5.5	1.059

Adjusted: Adjust Analyzer Response at 40 Percent of Full Scale

HIGH

		0.000			
10	67.2	100	110	10.0	.9091
20	23.1	200	200	0.0	1.000
70	12.5	400	425	6.25%	.9412

RF = 1.034

Comments: CH_4 vent capped

Span pot = 540

INSTRUMENT CALIBRATION AND QC DATA

Instrument ONA 108 Site PURITY/FRESNO

S/N C5788 Technician DR

Daily Calibration Data

Date/ Time	Current Multipoint RF[1]	Zero Input	Zero Response	Span Input	Span Response	Daily RF[2]	RF Δ%
060784 1000	1.034	UHP	2.5ppm	40ppm CH_4	35ppm	1.143	10.
6.11.84 1000	1.034	UHP	2.2 ppm	40ppm CH_4	40ppm	1.000	-3.
6.12.84	1.034	UHP	2.5ppm	40ppm CH_4	40ppm	1.000	-3.
6.13.84	1.034	UHP	2.5 ppm	40ppm CH_4	40ppm	1.000	-3.
6.14.84	1.034	UHP	2.8ppm	40ppm CH_4	38ppm	1.053	1.
6.15.84	1.034	UHP	2.5ppm	40ppm CH_4	35ppm	1.143	10.5
6.19.84	1.034	UHP	2.8PPM	40PPM CH_4	41PPM	0.9756	-5.
6.19.84	1.034	UHP	2.2PPM	40PPM CH_4	38PPM	1.053	+1.
6.20.84	1.034	UHP AIR	1.5PPM	40 PPM CH_4	40PPM	1.000	-3.

QC Data

Date	QC Input Conc.	Pretest QC Response	QC Δ%[3]	Posttest QC Response	Upscale % Drift[4]	Posttest Zero Response	Zero Drift
6.7.84	100ppm CH_4	190ppm	90%	Instrument not used			
6.11.84	100ppm CH_4	110ppm	10%	100ppm	-0.1%	7.5ppm	.053%
6.12.84	100ppm CH_4	110ppm	10%	85ppm	-0.25%	00.0	-0.025%
6.13.84	100ppm CH_4	88 ppm	-12%	60ppm	.28%	14ppm	-0.01%
6.14.84	100ppm CH_4	100ppm	0.00%	Instrument not used			
6.15.84	100ppm CH_4	100ppm	0.00%	Instrument not used			
6.19.84	100PPM CH_4	100 PPM	0.0	INSTRUMENT NOT USED			
6.19.84	100PPM CH_4	95PPM	-5%	90PPM	-10%	2.0	-0.2
6.20.84	100PPM CH_4	100PPM	0.0	95PPM	-5%	1.5	-0.5

[1] Average RF for multipoint calibration where RF = $\frac{\text{Standard Concentration}}{\text{Instrument Response}}$

[2] Calculated based on span results; acceptance criterion is: agreement within ±20% of multipoint RF

[3] QC Δ% = (Measured Conc. - Input Conc.)(100)/Input Conc.; acceptance criterion is: $-10\% \leq \Delta\% \leq 10\%$

[4] % Drift = (Posttest QC Response - Pretest QC Response)(100)/Full Scale Response

INSTRUMENT CALIBRATION AND QC DATA

Instrument OVA 108 Site PURITY/FRESNO

S/N C5788 Technician J.R.S.

Daily Calibration Data

Date/ Time	Current Multipoint RF[1]	Zero Input UHP AIR	Zero Response	Span Input	Span Response	Daily RF[2]	R
6·21·84	1.034	~~1.5ppm~~	1.5ppm	40ppm CH_4	40ppm CH_4	1.000	-3
6·22·84	1.034	UHP AIR	1.5ppm	40ppm CH_4	38ppm CH_4	1.053	+1
6·23·84	1.034	UHP AIR	1.5ppm	40ppm CH_4	38ppm CH_4	1.053	+1
6·25·84	1.034	UHP AIR	1.5ppm	40ppm CH_4	35ppm CH_4	1.143	+1
6·26·84	1.034	UHP AIR	1.5ppm	40ppm CH_4	42ppm CH_4	0.9523	-7
6·27·84	1.034	UHP AIR	1.5ppm	40ppm CH_4	35ppm CH_4	1.143	+1
6·29·84	1.034	UHP Air	2.5ppm	40ppm CH_4	33ppm	1.212	17
7·2·84	1.034	UHP Air	2.5ppm	40ppm CH_4	42ppm	.9524	-7
7·3·84	1.034	UHP Air	3.2ppm	40ppm CH_4	40ppm	1.000	-3

QC Data

Date	QC Input Conc.	Pretest QC Response	QC Δ%[3]	Posttest QC Response	Upscale % Drift[4]	Posttest Zero Response	Zero Drift[4]
6·21·84	100ppm	110ppm	10%	95ppm	-13.6%	1.5ppm	0
6·22·84	100ppm	100ppm	0%	90ppm	-10.0%	1.5ppm	0
6·23·84	100ppm	105ppm	+5%	98ppm	-6.7%	2.5ppm	1.0ppm
6·25·84	100ppm	110ppm	+10%	110ppm	0	3.5ppm	2.0ppm
6·26·84	100ppm	100ppm	0%	100ppm	0	3.5ppm	2.0ppm
6·27·84	100ppm	95ppm	-5%	95ppm	0	2.8ppm	1.3ppm
6·29·84	100ppm	110ppm	10%	100ppm	-0.1%	2.0ppm	-0.005%
7·2·84	100ppm CH_4	130ppm	30%	69ppm	-0.6%	1.5ppm	-0.01%
7·3·84	100ppm CH_4	95ppm	-5.0%	95ppm	0.0	5ppm	0.02%

[1] Average RF for multipoint calibration where RF = $\frac{\text{Standard Concentration}}{\text{Instrument Response}}$

[2] Calculated based on span results; acceptance criterion is: agreement within ±20% of multipoint RF

[3] QC Δ% = (Measured Conc. - Input Conc.)(100)/Input Conc.; acceptance criterion is: $-10\% \leq \Delta\% \leq 10\%$

[4] % Drift = (Posttest QC Response - Pretest QC Response)(100)/Full Scale Response

B5 B7

1.2
.16
1.36

INSTRUMENT CALIBRATION AND QC DATA

Instrument OVA 108 Site Plexity/Fresno

S/N C5788 Technician DR

Daily Calibration Data

Date/ Time	Current Multipoint RF[1]	Zero Input	Zero Response	Span Input	Span Response	Daily RF[2]	Δ R
7.4.84	1.034	UHP Air		40ppm CH_4			
7.5.84	1.034	UHP Air	1.8	40ppm CH_4	35ppm	1.143	10
7.6.84	1.034	UHP Air	3.5	40ppm CH_4	40 ppm	1.000	-3
7.10.84	1.034	UHP Air	3.5	40ppm CH_4	35ppm	1.143	10
7 11 84	1.034	UHP Air	7	40ppm CH_4	39ppm	1.026	-0
7 12 84	1.034	UHP Air		40ppm CH_4	35ppm	1.143	10
7.16 84	1.034	UHP Air	3 ppm	40ppm CH_4	35ppm	1.143	10
7 18 84	1.034	UHP Air	5ppm	40ppm CH_4	35 ppm	1.143	10
07 19 84	1.034	UHP Air	1.8ppm	40ppm CH_4	35ppm	1.143	10

QC Data

Date	QC Input Conc.	Pretest QC Response	QC Δ%[3]	Posttest QC Response	Upscale % Drift[4]	Posttest Zero Response	Zero Drift
7.4.84	100ppm CH_4	110 ppm	10%	Instrument not used			
7.5.84	100ppm CH_4	150ppm	50%	90ppm	-.6%	6ppm	0.04
7.6.84	100ppm	90	-10	300	2.1%	18ppm	0.14%
71084	100ppm	98	-2.0	95ppm	-0.03%	5ppm	0.02%
71184	100ppm CH_4	120	20.0%				
71284	100ppm CH_4	100ppm	0.0	65	-35%	3ppm	
71684	100ppm CH_4	110ppm	10.0%				
71884	100ppm CH_4	100ppm	~~108~~ 0.0	105 ppm 3ppm	105% ~~0.035%~~	~~0.3ppm~~ ~~0.01%~~	-0.02%
071984	100ppm CH_4	100ppm	0.0	100ppm	0.0	1.5ppm	-0.003%

[1]Average RF for multipoint calibration where RF = $\frac{\text{Standard Concentration}}{\text{Instrument Response}}$

[2]Calculated based on span results; acceptance criterion is: agreement within ±20% of multipoint RF

[3]QC Δ% = (Measured Conc. - Input Conc.)(100)/Input Conc.; acceptance criterion is: $-10\% \leq \Delta\% \leq 10\%$

[4]% Drift = (Posttest QC Response - Pretest QC Response)(100)/Full Scale Response

INSTRUMENT CALIBRATION AND QC DATA

Instrument ONA 108 Site Purity/Fresno

S/N C5788 Technician DR

Daily Calibration Data

Date/ Time	Current Multipoint RF[1]	Zero Input	Zero Response	Span Input	Span Response	Daily RF[2]	Δ R
072084	1.034	UHP Air	2.2 ppm	40ppm CH_4	41 ppm	.9756	-5

QC Data

Date	QC Input Conc.	Pretest QC Response	QC Δ%[3]	Posttest QC Response	Upscale % Drift[4]	Posttest Zero Response	Zero Drift[4]
072084	100ppm CH_4	180ppm	80%	150ppm	-0.3%	4ppm	0.02%

[1]Average RF for multipoint calibration where RF = $\frac{\text{Standard Concentration}}{\text{Instrument Response}}$

[2]Calculated based on span results; acceptance criterion is: agreement within ±20% of multipoint RF

[3]QC Δ% = (Measured Conc. - Input Conc.)(100)/Input Conc.; acceptance criterion is: $-10\% \leq \Delta\% \leq 10\%$

[4]% Drift = (Posttest QC Response - Pretest QC Response)(100)/Full Scale Response

RADIAN CORPORATION

MULTIPOINT CALIBRATION DATA

AIDS 307263

PARAMETER

Site: PURITY / FORKLAND

Engineer: D. RANLUM

Date: Hour 6/28/84

Instrument Model AIDS 580

Instrument S/N: 307263

Instrument Range: 0-200 ppm

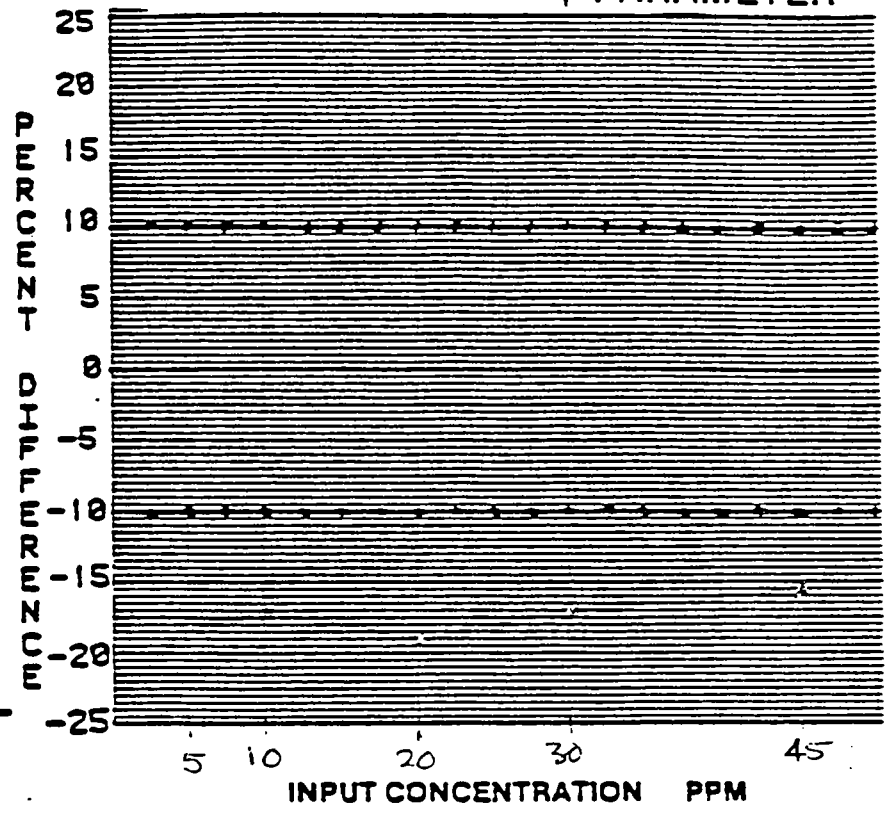
Calibrator: RADIT B

Serial No.: 1005

Source Gas Cyl. No.: AIL. 1878

Concentration: 1000 ppm C.H. PPM

Ultra-pure Air Cylinder No. CC177AB



Unadjusted: Recalibrate if Response Greater Than ± 10 Percent

Source Flow SCCM-G	Dilution Flow SCCM-D	Input Concentration (ppm), A	Analyzer Response (ppm), B	Percent Difference $(\frac{B-A}{A}) \times 100 = \%$	
		0.000			RF
70	23.7	5	4.1	-18.0	1.22
10	1.5	10	8.3	-17.0	1.20
20	34.4	20	16.1	-19.5	1.242
60	79.4	30	25.0	-16.7	1.20
100	13.5	45	38.0	-15.6	1.184

CH4 CAPS 100 HIGH

Corr. 0.9997

$\overline{RF}$ = 1.209

Adjusted: Adjust Analyzer Response at 40 Percent of Full Scale

		0.000		

Figure 7-1. Multipoint Calibration Data Form

Analyzer adjusted to 23.7 ppm C_6H_6 QC gas

RADIAN CORPORATION

MULTIPOINT CALIBRATION DATA

AIDS 307263

PARAMETER

Site: PURTY / FRESNO

Engineer: D. RANUM

Date: Hour 7/3/84 600

Instrument Model AIDS 580

Instrument S/N: 307263

Instrument Range: 0-200

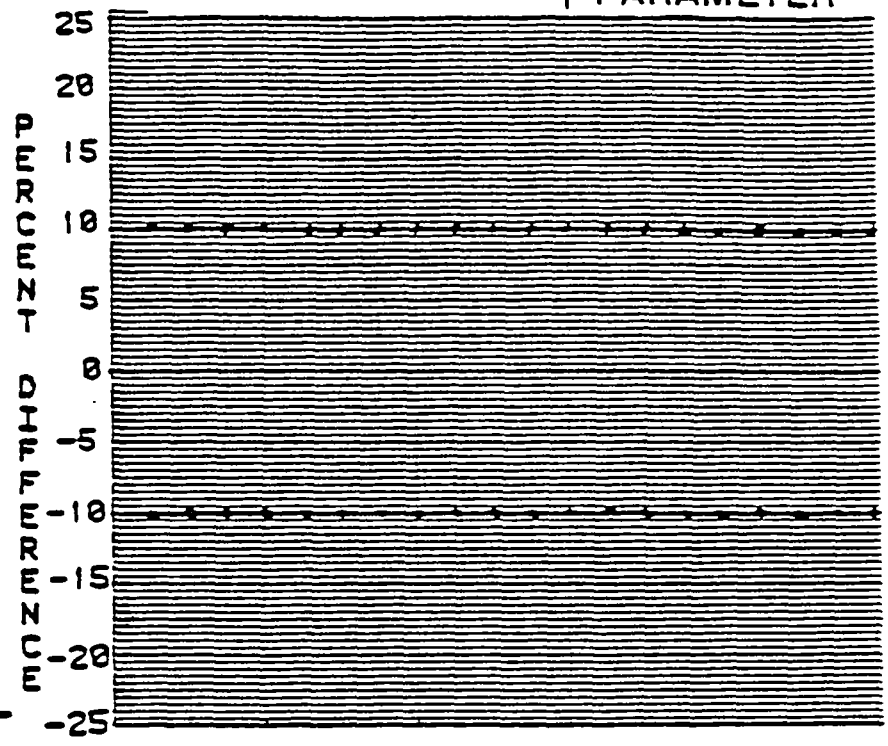
Calibrator: RAD II

Serial No.: 1005

Source Gas Cyl. No.: AAL11878

Concentration: 100ppm C_6H_6 PPM

Ultra-pure Air Cylinder No. AAL4151



Unadjusted: Recalibrate if Response Greater Than ± 10 Percent

Source Flow SCCM %	Dilution Flow SCCM %	Input Concentration (ppm), A	Analyzer Response (ppm), B	Percent Difference $(\frac{B-A}{A}) \times 100 = \%$	
		0.000	0		RF
70	23.7	5	3.7	-26.0	1.351
10	65	10	8.5	-15.0	1.176
30	36.4	20	16.7	-16.5	1.198
60	29.4	30	25.5	-15.0	1.176
100	13.5	45	38.6	-14.2	1.166

CH4 CAPS

LOW

HIGH

Corr: 0.9999 $\overline{RF}$ = 1.213

Adjusted: Adjust Analyzer Response at 40 Percent of Full Scale

7-9-84

		0.000	-00.3		RF
		5	4.7	-6.0	1.064
		10	8.0	-20.0	1.25
		20	16.8	-16.0	1.19
		30	25.7	-14.3	1.167
		45	39.3	-12.7	1.145

Figure 7-1. Multipoint Calibration Data Form $\overline{RF}$ = 1.163

Corr = 0.9995

INSTRUMENT CALIBRATION AND QC DATA

Instrument AIDS 307263 Site PURITY/FRESNO

S/N 307263 Technician DR

Daily Calibration Data

Date/ Time	Current Multipoint RF[1]	Zero Input	Zero Response	Span Input	Span Response	Daily RF[2]	Δ' Ri
6/28/84	—	Amb	00.3	20ppm C_6H_6	18.1 ppm	1.105	
6.29.84	1.209	UHP	-00.5	20ppm C_6H_6	15.7ppm	1.274	5.
7.2.84	1.209	UHP	-00.5	20ppm C_6H_6	15.6ppm[1]	1.282	6.
7.3.84	1.209	UHP		20 ppm C_6H_6	24.8ppm	.8065 MTPT	-33
7.4.84	1.213	UHP	-00.3	20 ppm C_6H_6	16.0ppm	1.25	3.
7.5.84	1.213	UHP Air	-00.2	20ppm C_6H_6	15.5ppm	1.290	6.
7.6.84	1.213	UHP Air	-00.2	20ppm C_6H_6	15.0ppm	1.333	9.
7.7.84	1.213	UHP Air	-00.2	20ppm C_6H_6	14.8ppm	1.351	11.
7.9.84	1.213	UHP Air		20ppm C_6H_6	13.4ppm	1.493 MTPT	23.

QC Data

Date	QC Input Conc.	Pretest QC Response	QC Δ%[3]	Posttest QC Response	Upscale % Drift[4]	Posttest Zero Response	Zero Drift
6/28/84	23.7ppm C_6H_6	25.2ppm	5.5%	25.5	0.15%	—	—
6.29.84	23.7ppm C_6H_6	20.5ppm	-13.5%	22.9	1.2%	-00.3	0.1
7.2.84	23.7ppm C_6H_6	22.7ppm	-4.2%	22.6	-0.05%	-00.3	0.1
7.3.84	23.7ppm C_6H_6	38.4		23.3	Instrument used only for snaping sample	00.1	
7.4.84	23.7ppm C_6H_6	23.5	-0.8%	Instrument not used			
7.5.84	23.7ppm C_6H_6	23.7ppm	0.0%	17.7	-3.0	-00.1	-0.05%
7.6.84	23.7ppm C_6H_6	21.6ppm	-9.7%	20.4	-0.6%	-00.1	0.05%
7.7.84	23.7ppm C_6H_6	21.1 ppm	-11.0%	20.1	-0.5%	00.4	0.3%
7.9.84	23.7ppm C_6H_6	20.1ppm	-15.2%				

1 RAD CAPPED

[1]Average RF for multipoint calibration where RF = $\frac{\text{Standard Concentration}}{\text{Instrument Response}}$

[2]Calculated based on span results; acceptance criterion is: agreement within ±20% of multipoint RF

[3]QC Δ% = (Measured Conc. - Input Conc.)(100)/Input Conc.; acceptance criterion is: $-10\% \leq \Delta\% \leq 10\%$

[4]% Drift = (Posttest QC Response - Pretest QC Response)(100)/Full Scale Response

INSTRUMENT CALIBRATION AND QC DATA

Instrument AADS 580 Site Purity / Fresno

S/N 307263 Technician DR

Daily Calibration Data

Date/ Time	Current Multipoint RF[1]	Zero Input	Zero Response	Span Input	Span Response	Daily RF[2]	Δ% RF
7-9-84	1.163	UHP Air	-00.3	20ppm C_6H_6	16.8ppm	1.190	2.3
07.10.84	1.163	UHP Air	-00.1	20ppm C_6H_6	17.1ppm	1.170	0.6
071184	1.163	UHP Air	00.4	20ppm C_6H_6	17.2ppm	1.163	0.0
071284	1.163	UHP Air	00.7	20ppm C_6H_6	18.1	1.105	-5.0

QC Data

Date	QC Input Conc.	Pretest QC Response	QC Δ%[3]	Posttest QC Response	Upscale % Drift[4]	Posttest Zero Response	Zero Drift
7-9-84	23.7ppm C_6H_6	24.3	2.5%	22.5	-0.9%	-00.4	-0.05
07.10.84	23.7ppm C_6H_6	26.5ppm	11.8%	26.7ppm	0.1%	00.9	0.5%
071184	23.7ppm C_6H_6	26.2ppm	10.5%				
071284	23.7ppm C_6H_6	26.2ppm	10.5%				

[1]Average RF for multipoint calibration where RF = $\frac{\text{Standard Concentration}}{\text{Instrument Response}}$

[2]Calculated based on span results; acceptance criterion is: agreement within ±20% of multipoint RF

[3]QC Δ% = (Measured Conc. - Input Conc.)(100)/Input Conc.; acceptance criterion is: $-10\% \leq \Delta\% \leq 10\%$

[4]% Drift = (Posttest QC Response - Pretest QC Response)(100)/Full Scale Response

RADIAN CORPORATION

MULTIPOINT CALIBRATION DATA

OVA C5799 PARAMETER

Site: PURITY/FRESNO

Engineer: D. RANUM

Date: Hour 7.4.84 700

Instrument Model OVA 108

Instrument S/N: C5799

Instrument Range: 0 - 10,000 ppm

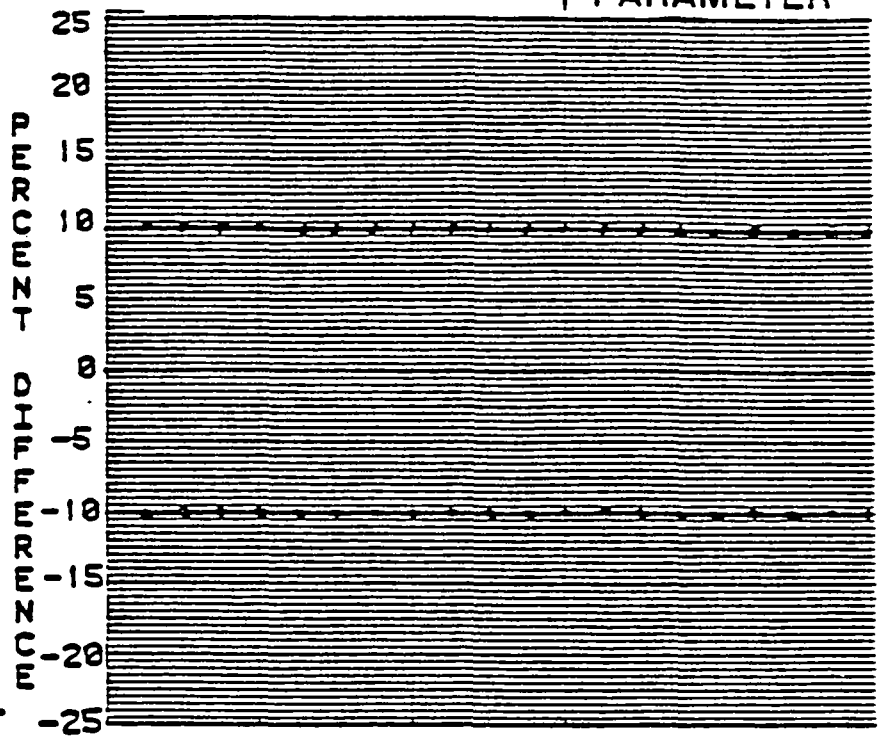
Calibrator: RAD II

Serial No.: 1005

Source Gas Cyl. No.: AAL 5965

Concentration: 1020 ppm CH_4 PPM

Ultra-pure Air Cylinder No. AAL 4151



INPUT CONCENTRATION PPM

Unadjusted: Recalibrate if Response Greater Than ± 10 Percent

CH_4 CAPS

LOW

Source Flow SCCM %	Dilution Flow SCCM %	Input Concentration (ppm), A	Analyzer Response (ppm), B	Percent Difference $(\frac{B-A}{A}) \times 100 = \%$
		0.000	4.5	
10	63.1	10	11	.9091
30	47.5	20	20	1.000
50	23.2	40	34	1.176
70	14	60	48	1.25
100	9.6	90	68	1.324

Adjusted: Adjust Analyzer Response at 40 Percent of Full Scale

HIGH

		0.000		
10	67.2	100	81	1.235
20	23.1	200	150	1.333
70	12.5	400	250	1.600

Figure 7-1. Multipoint Calibration Data Form $\overline{RF}$ = 1.228

Corr. .9953

RADIAN CORPORATION

MULTIPOINT CALIBRATION DATA

NA C5799
PARAMETER

Site: PURITY / FRESNO

Engineer: D RANUM

Date: Hour 7.7.84 600

Instrument Model NA 408

Instrument S/N: C5799

Instrument Range: 0-1%

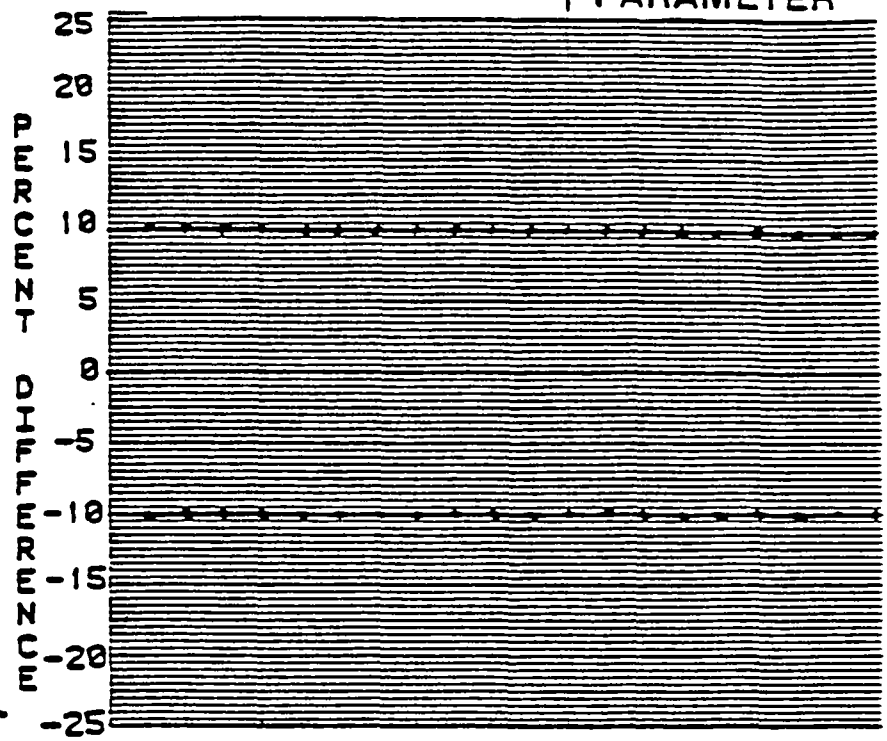
Calibrator: RAD II

Serial No.: 1005

Source Gas Cyl. No.: AAL 5965

Concentration: 1020 ppm CH_4 PPM

Ultra-pure Air Cylinder No. AAL 4151



INPUT CONCENTRATION PPM

Unadjusted: Recalibrate if Response Greater Than ± 10 Percent

Source Flow SCCM %	Dilution Flow SCCM %	Input Concentration (ppm), A	Analyzer Response (ppm), B	Percent Difference $(\frac{B-A}{A}) \times 100 = \Sigma$	
		0.000	4		
10	63.1	10	12	20	0.83
30	47.5	20	18	-10	1.111
50	23.2	40	30	-25	1.333
70	14	60	45	-25	1.333
100	9.6	90	60	-33.3	1.5

CH_4 CAPS

LOW ↓

Adjusted: Adjust Analyzer Response at 40 Percent of Full Scale

		0.000			
10	67.2	100	69	-31	1.449
20	23.1	200	130	-35	1.538
70	12.5	400	200	-50	2.00

HIGH ↓

Figure 7-1. Multipoint Calibration Data Form

$\overline{RF}$ = 1.387

Corr: 0.9903

Span pCA 5.07

RADIAN CORPORATION

MULTIPOINT CALIBRATION DATA

OVA 108

PARAMETER

Site: DIRTY / FRESNO

Engineer: D RANUM

Date: Hour 7-13-94 HM

Instrument Model OVA 108

Instrument S/N: C5799

Instrument Range: 0-1%

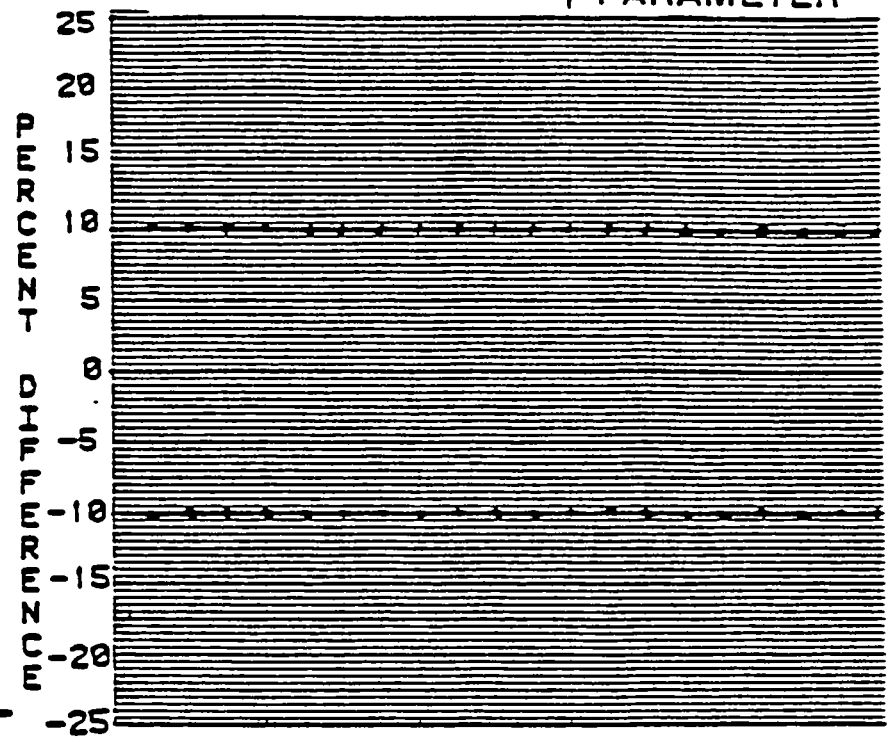
Calibrator: RADIT

Serial No.: 1005

Source Gas Cyl. No.: AAL 5915

Concentration: 1020 ppm CH_4 PPM

Ultra-pure Air Cylinder No. AAL 11876



INPUT CONCENTRATION PPM

Unadjusted: Recalibrate if Response Greater Than ± 10 Percent

CH4 CAPS LAW

Source Flow SCCM %	Dilution Flow SCCM %	Input Concentration (ppm), A	Analyzer Response (ppm), B	Percent Difference $(\frac{B-A}{A})$ x100 = %	RF
		0.000	4		
10	63.1	10	7	-30.0	1.42
30	47.5	20	15	-25.0	1.33
50	23.2	40	18	-55.0	2.22
70	14	60	30	-50.0	2.00
100	9.6	90	4045	-50.0	2.00

Adjusted: Adjust Analyzer Response at 40 Percent of Full Scale

HIGH

		0.000			
10	67.2	100	80	-20	1.25
30	73.1	200	110	-45	1.818
70	12.5	400	220	-45	1.818

Figure 7-1. Multipoint Calibration Data Form

RF = 1.733

Corr. = 0.9918

100ppm C_6H_6 → 100ppm

RADIAN CORPORATION

MULTIPOINT CALIBRATION DATA

OVA C679c

PARAMETER

Site: _____

Engineer: _____

Date: Hour _____

Instrument Model _____

Instrument S/N: _____

Instrument Range: _____

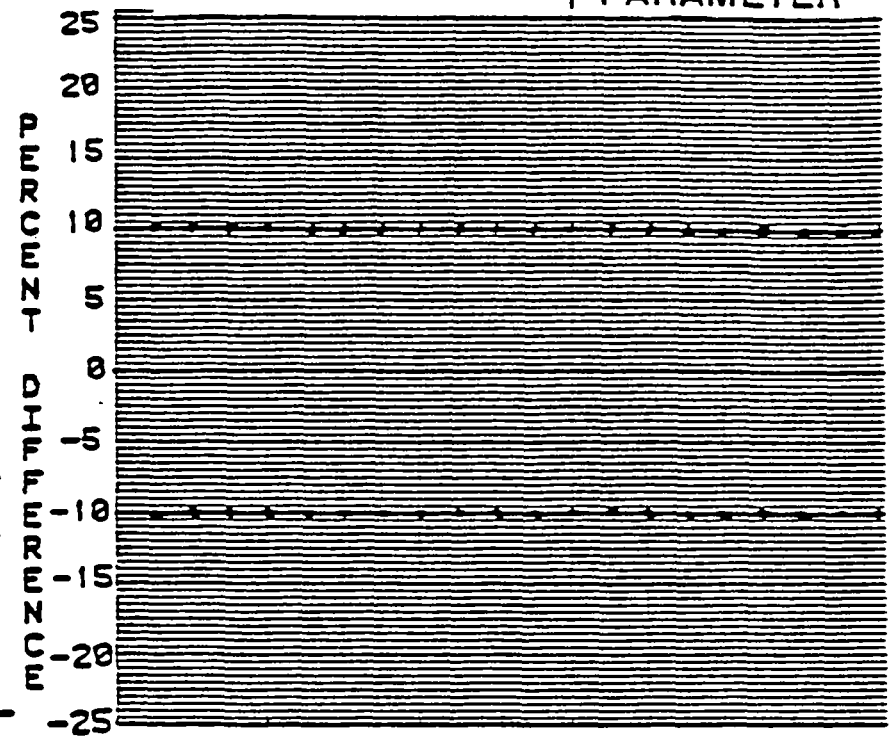
Calibrator: _____

Serial No.: _____

Source Gas Cyl. No.: _____

Concentration: _____ PPM

Ultra-pure Air Cylinder No. _____



INPUT CONCENTRATION PPM

Unadjusted: Recalibrate if Response Greater Than ± 10 Percent

Source Flow SCCM	Dilution Flow SCCM	Input Concentration (ppm), A	Analyzer Response (ppm), B	Percent Difference $(\frac{B-A}{A}) \times 100 = \%$
		0.000	2.8	
		10	9	
		20	16	
		40	24	
		60	37	
		90	50	

Adjusted: Adjust Analyzer Response at 40 Percent of Full Scale

		0.000		
		100	70	
		200	120	
		300	200	

Figure 7-1. Multipoint Calibration Data Form

RADIAN CORPORATION

MULTIPOINT CALIBRATION DATA

OVA C5799

Site: Purity / Fresno

Engineer: D. Ranum

Date: Hour 7-15-84

Instrument Model OVA 108

Instrument S/N: C 5799

Instrument Range: 0-10,000 ppm

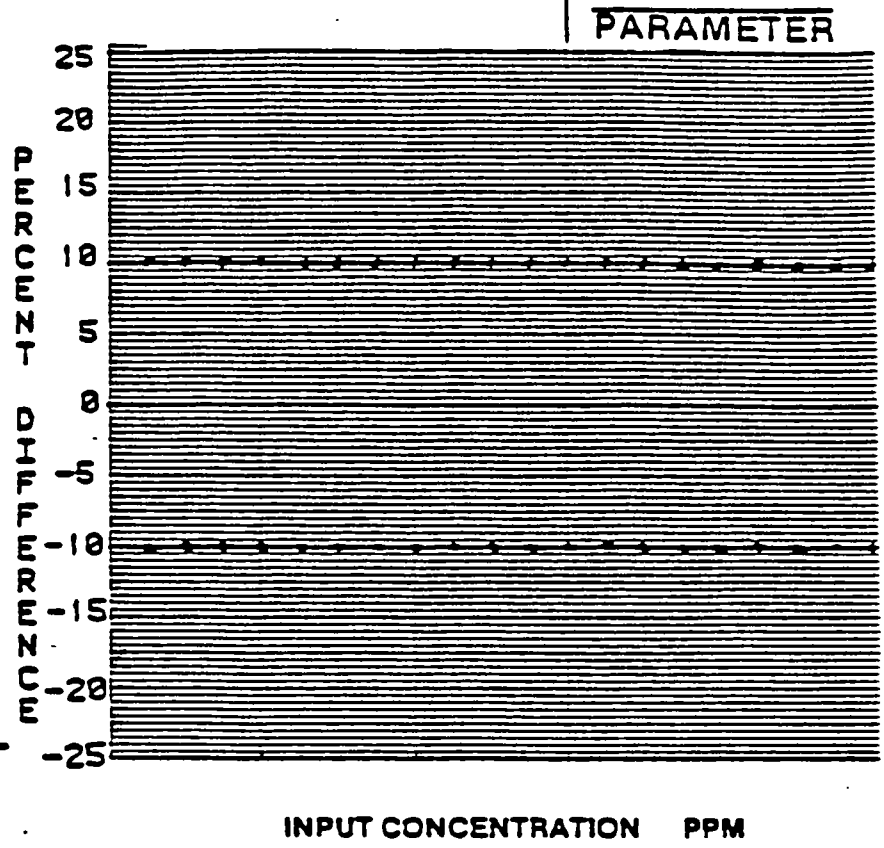
Calibrator: RAD II

Serial No.: 1005

Source Gas Cyl. No.: AAL 5965

Concentration: 1020 ppm CH_4 PPM

Ultra-pure Air Cylinder No. AAL 4151



Unadjusted: Recalibrate if Response Greater Than ± 10 Percent

CH4 CAP2 LOW

Source Flow SCCM %	Dilution Flow SCCM %	Input Concentration (ppm), A	Analyzer Response (ppm), B	Percent Difference $(\frac{B-A}{A}) \times 100 = \%$	RF
		0.000	2.8		
10	61.3	10	9	-10	1.111
30	47.5	20	16	-20	1.25
50	23.2	40	24	-40	1.67
70	14	60	37	-38	1.62
100	9.6	90	50	-44	1.80

Adjusted: Adjust Analyzer Response at 40 Percent of Full Scale

HIGH

		0.000			
10	67.2	100	70	-30	1.43
20	23.1	200	120	-40	1.67
70	12.5	300	200	-33	1.50

Figure 7-1. Multipoint Calibration Data Form

RF: 1.51

Corr: 0.9959

INSTRUMENT CALIBRATION AND QC DATA

Instrument DVA ICB Site PUEBLO / FRESNO

S/N C5799 Technician DR

Daily Calibration Data

Date/ Time	Current Multipoint RF[1]	Zero Input	Zero Response	Span Input	Span Response	Daily RF[2]	RF Δ%
07/4/84	1.228	UHP Air	4.5ppm	40ppm CH_4	34ppm	1.176	-4.
07/5/84	1.228	UHP Air	2.5ppm	40ppm CH_4	28ppm	1.429	16.
7/7/84	1.387	UHP Air	4ppm	40ppm CH_4	30ppm	1.333	-3
071084	1.387	UHP Air		40ppm CH_4			

QC Data

Date	QC Input Conc.	Pretest QC Response	QC Δ%[3]	Posttest QC Response	Upscale % Drift[4]	Posttest Zero Response	Zero Drift[4]
7/4/84	100ppm CH_4	100ppm	0.0%	65ppm	-0.35%	5.2	-0.01%
7/5/84	100ppm CH_4	100ppm	0.0%	Instrument not used			
7/7/84	100ppm CH_4	100ppm	0.0	60ppm	-0.9%	5.0	0.01%
7/9/84	100ppm CH_4	100ppm	0.0	95ppm	-0.05%	6 DR	0.02%
071084	100ppm CH_4		instrument not used				

[1]Average RF for multipoint calibration where RF = $\frac{\text{Standard Concentration}}{\text{Instrument Response}}$

[2]Calculated based on span results; acceptance criterion is: agreement within ±20% of multipoint RF

[3]QC Δ% = (Measured Conc. - Input Conc.)(100)/Input Conc.; acceptance criterion is: $-10\% \leq \Delta\% \leq 10\%$

[4]% Drift = (Posttest QC Response - Pretest QC Response)(100)/Full Scale Response

Appendix G

METEOROLOGICAL DATA

HOUR AVERAGES FOR CURRENT 4 HOUR PERIOD

STATION 001 06/07/84

TIME	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
0000	77	312	578	80	310	255	157	0
0100	70	314	566	73	312	282	146	0
0200	67	312	556	69	310	333	145	0
0300	65	314	548	67	312	310	123	0
0400	47	312	536	50	309	463	110	0
0500	43	304	522	46	303	409	85	0
0600	51	308	536	53	306	330	111	0
0700	69	322	563	72	319	308	122	0
0800	153	335	596	161	330	398	501	0
0900	312	355	NVAL	NVAL	337	942	1023	0
1000	104	318	639	112	316	515	501	0
1100	248	13	666	73	332	1690	1023	0
1200	1023	23	NVAL	NVAL	25	0	1023	0
1300	1023	23	NVAL	NVAL	25	0	1023	0
1400	1014	23	NVAL	NVAL	25	51	1023	0
1500	786	168	NVAL	NVAL	348	189	1023	-1
1600	292	26	NVAL	NVAL	358	1436	1023	0
1700	75	333	768	83	332	731	324	0
1800	95	312	759	99	310	342	184	0
1900	109	317	740	113	314	265	207	-1
2000	75	312	712	77	310	279	138	0
2100	49	303	682	50	301	269	90	0
2200	47	293	649	48	291	194	83	0
2300	70	312	635	72	309	307	148	0
24HR	248	248	625	77	281	429	1023	0

WIND SPEED

MAXIMUM ONE HOUR AVERAGES AND TIME OF OCCURRENCE

	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
TIME	1200	900	1700	800	1600	1100	900	0
MAX1	1023	355	768	161	358	1690	1023	0

MAXIMUM THREE HOUR SLIDING AVERAGES AND TIME OF OCCURRENCE

	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
TIME	1200	700	1600	800	1500	900	1100	0
MAX3	1020	337	763	136	346	1049	1023	0

MAXIMUM EIGHT HOUR SLIDING AVERAGES AND TIME OF OCCURRENCE

	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
TIME	900	300	1400	600	1500	400	900	0
MAX8	600	321	732	94	320	631	957	0

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HOUR AVERAGES FOR CURRENT 4 HOUR PERIOD
STATION 001 06/08/84

TIME	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
0000	92	323	633	94	320	261	162	0
0100	84	322	622	86	320	207	151	-1
0200	69	325	612	71	323	218	133	0
0300	62	325	601	63	323	195	109	0
0400	43	315	585	44	312	273	98	0
0500	41	300	559	42	299	258	73	0
0600	43	311	571	44	308	358	105	0
0700	58	312	609	60	310	347	109	0
0800	86	326	644	90	325	313	164	0
0900	94	331	669	98	331	382	176	0
1000	85	336	700	90	336	464	170	0
1100	78	329	728	84	327	484	159	0
1200	73	319	753	81	318	789	159	0
1300	73	316	777	81	316	900	176	-1
1400	87	312	792	97	313	875	278	0
1500	93	310	802	104	308	746	207	0
1600	99	312	808	106	311	530	276	-1
1700	99	312	807	104	310	403	201	-1
1800	115	312	795	120	310	318	212	-1
1900	112	316	776	116	314	274	211	-1
2000	103	321	747	106	319	264	204	0
2100	79	311	715	82	308	273	171	0
2200	64	302	682	67	301	289	133	0
2300	92	322	668	94	319	230	179	-1
24HR	80	317	693	84	315	402	278	0

MAXIMUM ONE HOUR AVERAGES AND TIME OF OCCURRENCE

	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
TIME	1800	1000	1600	1800	1000	1300	1400	0
MAX1	115	336	808	120	336	900	278	0

MAXIMUM THREE HOUR SLIDING AVERAGES AND TIME OF OCCURRENCE

	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
TIME	1800	900	1500	1800	900	1200	1400	0
MAX3	110	332	805	114	331	854	253	0

MAXIMUM EIGHT HOUR SLIDING AVERAGES AND TIME OF OCCURRENCE

	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
TIME	1400	600	1200	1300	700	1000	1300	0
MAX8	98	322	788	104	322	648	220	0

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HOUR AVERAGES FOR CURRENT 4 HOUR PERIOD

STATION 001 06/09/84

TIME	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
0000	61	316	651	64	311	366	164	0
0100	40	318	628	43	316	484	111	0
0200	60	323	625	62	319	345	167	0
0300	77	330	626	78	329	178	136	0
0400	51	318	618	54	314	316	134	0
0500	40	295	587	41	293	210	82	0
0600	36	315	599	38	313	436	75	0
0700	56	325	633	58	322	290	123	-1
0800	72	328	662	75	328	421	144	-1
0900	63	338	702	68	337	595	129	0
1000	53	329	730	60	329	939	116	-1
1100	54	307	756	61	307	892	124	0
1200	58	314	782	67	317	1263	146	0
1300	71	324	801	81	322	947	208	0
1400	76	332	822	86	329	908	185	0
1500	79	343	834	90	343	993	190	-1
1600	87	310	840	98	313	999	188	-1
1700	103	311	837	107	309	360	194	-1
1800	101	314	828	106	312	342	194	-1
1900	113	319	808	116	317	232	211	-1
2000	92	321	775	94	319	232	181	-1
2100	91	319	751	94	316	306	182	-1
2200	105	320	703	109	317	272	231	0
2300	116	324	682	118	322	186	197	-1
24HR	73	320	720	77	318	521	231	0

MAXIMUM ONE HOUR AVERAGES AND TIME OF OCCURRENCE

	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
TIME	2300	1500	1600	2300	1500	1200	2200	0
MAX1	116	343	840	118	343	1263	231	0

MAXIMUM THREE HOUR SLIDING AVERAGES AND TIME OF OCCURRENCE

	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
TIME	1700	1300	1500	1700	800	1200	2100	0
MAX3	105	333	837	109	331	1039	203	0

MAXIMUM EIGHT HOUR SLIDING AVERAGES AND TIME OF OCCURRENCE

	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
TIME	1600	800	1200	1600	800	900	1600	0
MAX8	101	326	819	105	326	942	197	0

HOUR AVERAGES FOR CURRENT 4 HOUR PERIOD

STATION 001 06/10/84

TIME	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
0000	96	319	649	99	318	252	180	0
0100	76	315	618	79	314	275	153	-1
0200	91	318	601	94	316	291	179	-1
0300	88	321	585	91	318	256	198	-1
0400	108	320	573	111	318	240	214	-1
0500	107	321	562	110	319	225	199	0
0600	100	322	562	103	320	254	195	0
0700	116	324	579	119	323	225	213	0
0800	101	320	604	106	318	350	191	-1
0900	77	322	633	81	319	444	172	0
1000	54	317	665	63	322	1370	126	-1
1100	38	345	701	48	346	2463	124	-1
1200	22	359	733	43	318	6802	113	0
1300	17	357	755	47	31	8321	113	-1
1400	40	356	783	55	352	3009	148	-1
1500	25	238	810	46	223	8373	126	-1
1600	24	252	819	69	275	11398	275	-1
1700	95	299	823	101	297	523	197	-1
1800	93	300	811	97	299	355	194	-1
1900	86	295	790	90	294	329	198	-1
2000	14	238	751	33	233	5229	117	-1
2100	40	316	737	42	312	737	100	-1
2200	22	311	719	28	307	1316	60	-1
2300	35	252	671	37	256	696	77	-1
24HR	65	309	688	74	281	2238	275	0

MAXIMUM ONE HOUR AVERAGES AND TIME OF OCCURRENCE

	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
TIME	700	1200	1700	700	1400	1600	1600	0
MAX1	116	359	823	119	352	11398	275	0

MAXIMUM THREE HOUR SLIDING AVERAGES AND TIME OF OCCURRENCE

	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
TIME	500	1200	1500	500	900	1400	1600	0
MAX3	107	357	817	110	329	7593	222	0

MAXIMUM EIGHT HOUR SLIDING AVERAGES AND TIME OF OCCURRENCE

	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
TIME	100	700	1300	100	400	1000	200	0
MAX8	98	337	792	101	323	5282	195	0

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HOUR AVERAGES FOR CURRENT 4 HOUR PERIOD

STATION 001 06/11/84

TIME	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
0000	36	263	635	38	267	707	86	-1
0100	26	315	629	30	323	1640	59	-1
0200	3	356	618	21	12	7139	90	-1
0300	12	116	585	15	95	3499	55	-1
0400	7	121	573	13	86	9042	78	-1
0500	24	111	554	25	126	1268	83	-1
0600	30	118	562	31	118	428	63	-1
0700	34	145	621	40	142	955	70	-1
0800	39	161	683	42	159	526	71	0
0900	28	208	739	35	208	2033	74	0
1000	33	239	769	41	231	2291	89	-1
1100	29	249	791	40	259	3079	91	-1
1200	40	243	804	52	238	2248	114	-1
1300	31	273	831	52	282	5441	114	-1
1400	40	307	854	56	311	2847	123	-1
1500	71	299	865	79	298	715	150	-1
1600	67	324	872	73	324	860	170	-1
1700	81	312	868	87	310	483	189	-1
1800	78	314	861	83	312	463	153	-1
1900	100	316	835	103	314	239	196	-1
2000	86	311	798	89	309	311	161	-1
2100	91	311	756	94	310	285	178	-1
2200	99	312	710	102	310	264	182	-1
2300	87	310	685	91	308	294	171	-1
24HR	48	251	729	55	235	1960	196	0

MAXIMUM ONE HOUR AVERAGES AND TIME OF OCCURRENCE

	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
TIME	1900	200	1600	1900	1600	400	1900	800
MAX1	100	356	872	103	324	9042	196	0

MAXIMUM THREE HOUR SLIDING AVERAGES AND TIME OF OCCURRENCE

	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
TIME	1900	1600	1500	1900	1600	200	1700	600
MAX3	92	316	868	95	315	6560	179	0

MAXIMUM EIGHT HOUR SLIDING AVERAGES AND TIME OF OCCURRENCE

	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
TIME	1600	1600	1200	1600	1600	200	1600	100
MAX8	86	313	848	90	312	3111	175	0

HOUR AVERAGES FOR CURRENT 4 HOUR PERIOD
STATION 001 06/12/84

TIME	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
0000	103	314	667	107	312	267	197	-1
0100	103	320	657	105	318	200	199	-1
0200	96	323	644	99	321	214	164	-1
0300	81	324	629	83	322	181	143	-1
0400	86	323	618	88	320	204	169	-1
0500	84	325	615	86	323	225	162	-1
0600	86	325	610	88	323	218	154	-1
0700	79	323	628	81	321	265	145	-1
0800	62	321	667	66	318	502	127	-1
0900	60	338	701	65	336	632	122	0
1000	41	309	734	53	311	1873	137	-1
1100	45	292	749	55	295	2592	129	-1
1200	25	283	780	49	286	6134	113	-1
1300	31	263	796	48	227	6788	119	-1
1400	54	244	807	63	240	1924	140	-1
1500	45	278	822	57	269	2434	126	-1
1600	64	291	830	71	287	1175	146	-1
1700	69	313	829	74	312	561	151	-1
1800	72	317	819	76	316	497	147	-1
1900	85	319	796	89	317	364	191	-1
2000	106	323	744	108	321	209	216	-1
2100	96	321	710	99	319	213	182	-1
2200	89	319	674	92	317	248	193	-1
2300	107	320	641	110	318	222	239	-1
24HR	73	309	715	79	306	1172	239	0

MAXIMUM ONE HOUR AVERAGES AND TIME OF OCCURRENCE

	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
TIME	2300	900	1600	2300	900	1300	2300	900
MAX1	107	338	830	110	336	6788	239	0

MAXIMUM THREE HOUR SLIDING AVERAGES AND TIME OF OCCURRENCE

	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
TIME	0	700	1500	0	700	1100	2100	700
MAX3	100	327	827	103	325	5171	204	0

MAXIMUM EIGHT HOUR SLIDING AVERAGES AND TIME OF OCCURRENCE

	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
TIME	0	200	1200	0	200	900	1600	200
MAX8	89	325	809	92	323	2944	183	0

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HOUR AVERAGES FOR CURRENT 4 HOUR PERIOD

STATION 001 06/13/84

TIME	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
0000	84	319	618	86	317	225	156	-1
0100	72	321	604	74	319	242	130	-1
0200	68	325	601	71	323	318	142	-1
0300	69	320	585	71	318	253	116	-1
0400	37	315	572	39	314	432	78	-1
0500	31	307	560	32	305	342	67	-1
0600	38	290	567	39	288	252	69	-1
0700	43	330	606	48	324	991	96	-1
0800	53	345	636	57	345	500	113	-1
0900	33	334	680	38	332	2079	87	-1
1000	26	356	721	37	9	3303	94	-1
1100	33	311	748	41	321	2667	93	-1
1200	42	282	763	51	282	1780	115	-1
1300	38	296	793	50	294	2054	121	-1
1400	46	297	817	60	298	2059	118	-1
1500	68	281	832	75	280	869	150	-1
1600	72	288	844	80	289	866	162	-1
1700	65	296	854	72	297	743	190	-1
1800	64	304	844	69	303	575	130	-1
1900	72	303	824	76	301	353	137	-1
2000	62	309	797	64	308	264	121	-1
2100	78	317	762	81	314	298	157	-1
2200	89	323	723	92	321	245	171	-1
2300	101	318	692	103	316	228	195	-1
24HR	57	311	710	62	296	914	195	-1

MAXIMUM ONE HOUR AVERAGES AND TIME OF OCCURRENCE

	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
TIME	2300	1000	1700	2300	800	1000	2300	0
MAX1	101	356	854	103	345	3303	195	-1

MAXIMUM THREE HOUR SLIDING AVERAGES AND TIME OF OCCURRENCE

	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
TIME	2100	800	1600	2100	700	900	2100	0
MAX3	89	345	847	92	333	2683	174	-1

MAXIMUM EIGHT HOUR SLIDING AVERAGES AND TIME OF OCCURRENCE

	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
TIME	1600	300	1300	1600	200	900	1600	0
MAX8	75	324	825	79	318	1959	157	-1

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HOUR AVERAGES FOR LAST COMPLETE 24 HOUR PERIOD

STATION 001 06/14/84

TIME	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
0000	68	309	661	70	307	266	138	-1
0100	77	319	650	79	316	214	148	-1
0200	70	319	640	71	317	222	132	-1
0300	48	311	631	50	309	329	97	-1
0400	55	321	623	56	319	313	112	-1
0500	33	326	613	36	323	555	75	-1
0600	37	338	618	40	334	701	80	-1
0700	41	358	644	41	357	206	73	-1
0800	21	354	700	27	357	2385	64	-1
0900	14	297	738	32	340	9569	78	-1
1000	29	293	769	39	284	3331	89	-1
1100	51	265	792	60	269	1479	134	-1
1200	54	273	811	67	277	1583	123	-1
1300	48	271	837	59	269	1906	113	-1
1400	44	280	858	54	282	2163	122	-1
1500	49	286	873	57	289	1552	115	-1
1600	52	295	880	64	292	1450	151	-1
1700	54	325	870	63	317	1984	134	-1
1800	71	347	852	75	344	410	141	-1
1900	75	335	843	79	334	345	150	-1
2000	81	321	817	85	319	324	148	-1
2100	88	321	784	90	320	224	165	-1
2200	69	347	761	72	346	299	143	-1
2300	59	340	736	62	339	373	134	-1
24HR	53	314	750	59	315	1340	165	-1

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HOUR AVERAGES FOR LAST COMPLETE 24 HOUR PERIOD

STATION 001 06/15/84

TIME	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
0000	49	295	699	51	294	308	101	-1
0100	68	319	685	70	316	272	128	-1
0200	62	318	675	64	315	226	123	-1
0300	68	316	659	70	314	211	126	-1
0400	71	318	641	72	316	179	121	-1
0500	39	312	623	40	311	314	83	-1
0600	51	357	636	51	356	89	79	-1
0700	35	13	670	39	19	936	67	-1
0800	38	117	706	45	114	1449	91	-1
0900	38	135	742	43	132	1157	87	-1
1000	32	204	772	43	202	2762	92	-1
1100	22	230	805	40	217	6676	92	-1
1200	38	235	833	50	238	3213	106	-1
1300	38	263	860	49	259	2460	150	-1
1400	39	291	889	52	279	3778	123	-1
1500	48	292	898	61	296	2022	128	-1
1600	55	261	897	64	264	1484	118	-1
1700	61	247	892	66	247	538	117	-1
1800	53	263	884	57	264	489	102	-1
1900	45	292	869	49	288	600	100	-1
2000	47	300	834	49	298	273	106	-1
2100	79	322	818	81	321	189	156	-1
2200	72	323	797	74	322	208	130	-1
2300	59	314	770	61	310	276	135	-1
24HR	50	264	773	55	262	1254	156	-1

HOUR AVERAGES FOR CURRENT 4 HOUR PERIOD

STATION 001 06/16/84

TIME	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
0000	61	311	748	63	307	289	134	-1
0100	37	319	721	39	319	443	90	-1
0200	28	322	698	34	319	1328	55	-1
0300	29	295	665	30	295	323	63	-1
0400	34	314	660	35	312	340	80	-1
0500	25	338	661	26	335	602	69	-1
0600	30	15	681	32	16	345	57	-1
0700	36	53	728	42	44	1239	78	-1
0800	57	126	765	61	125	463	109	-1
0900	55	128	797	59	128	575	106	-1
1000	45	192	827	51	188	1272	94	-1
1100	36	203	855	46	196	2274	100	-1
1200	31	213	882	46	208	3572	106	-1
1300	42	253	896	59	257	3954	118	-1
1400	56	282	916	66	280	1246	145	-1
1500	61	295	928	70	296	1292	147	-1
1600	64	298	941	71	301	1044	153	-1
1700	68	313	948	75	313	778	160	-1
1800	63	313	940	67	311	495	143	-1
1900	69	316	921	72	314	304	129	-1
2000	40	307	876	44	300	833	104	-1
2100	27	319	844	35	299	2260	86	-1
2200	41	305	829	44	300	519	131	-1
2300	45	287	776	47	286	330	91	-1
24HR	45	254	812	50	252	1088	160	-1

MAXIMUM ONE HOUR AVERAGES AND TIME OF OCCURRENCE

	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
TIME	1900	500	1700	1700	500	1300	1700	0
MAX1	69	338	948	75	335	3954	160	-1

MAXIMUM THREE HOUR SLIDING AVERAGES AND TIME OF OCCURRENCE

	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
TIME	1700	0	1600	1500	0	1100	1500	0
MAX3	66	317	943	72	315	3266	153	-1

MAXIMUM EIGHT HOUR SLIDING AVERAGES AND TIME OF OCCURRENCE

	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
TIME	1300	1500	1200	1200	1500	1000	1200	0
MAX8	57	308	921	65	304	1929	137	-1

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HOUR AVERAGES FOR LAST COMPLETE 24 HOUR PERIOD

STATION 001 06/17/84

TIME	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
0000	50	298	758	52	297	317	113	-1
0100	44	290	734	45	289	219	76	-1
0200	25	301	719	27	304	626	58	-1
0300	21	320	720	22	320	627	43	-1
0400	28	15	724	30	16	498	56	-1
0500	16	29	708	17	32	915	67	-1
0600	20	45	730	22	49	909	57	-1
0700	17	241	772	25	195	5414	46	-1
0800	17	197	818	23	197	2352	52	-1
0900	28	198	851	33	198	1146	70	-1
1000	26	191	885	34	193	2994	72	-1
1100	31	255	918	43	251	3477	94	-1
1200	54	258	931	63	254	1555	136	-1
1300	67	267	949	73	269	778	138	-1
1400	70	278	965	79	278	944	137	-1
1500	56	306	983	66	306	1247	143	-1
1600	63	296	985	72	294	875	130	-1
1700	76	308	972	80	307	414	164	-1
1800	81	311	960	85	310	371	158	-1
1900	62	315	943	66	312	456	137	-1
2000	65	316	906	67	313	282	138	-1
2100	44	294	842	47	293	410	98	-1
2200	51	299	817	53	296	345	107	-1
2300	50	304	784	52	301	334	87	-1
24HR	44	247	848	49	244	1146	164	-1

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HOUR AVERAGES FOR LAST COMPLETE 24 HOUR PERIOD

STATION 001 06/18/84

TIME	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
0000	50	298	753	51	297	263	88	-1
0100	59	322	771	62	319	389	130	-1
0200	37	337	774	39	336	341	85	-1
0300	47	359	750	46	357	52	86	-1
0400	35	10	728	37	13	447	65	-1
0500	28	350	713	31	348	826	57	-1
0600	21	246	714	28	268	4050	59	-1
0700	32	258	719	34	259	470	62	-1
0800	19	268	782	27	288	4975	66	-1
0900	29	255	828	36	258	1717	93	-1
1000	38	239	863	44	246	3020	93	-1
1100	61	245	882	65	245	409	106	-1
1200	73	249	906	76	249	350	130	-1
1300	79	264	934	83	265	432	144	-1
1400	84	265	954	89	267	456	140	-1
1500	83	262	966	86	263	346	147	-1
1600	83	261	975	85	262	214	131	-1
1700	69	280	981	75	281	647	127	-1
1800	76	308	970	80	306	406	151	-1
1900	106	319	938	108	316	210	172	-1
2000	94	311	881	97	309	260	200	-1
2100	89	312	830	92	310	261	175	-1
2200	94	313	794	96	312	254	183	-1
2300	86	318	768	89	317	275	155	-1
24HR	61	277	840	64	278	877	200	-1

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HOUR AVERAGES FOR LAST COMPLETE 24 HOUR PERIOD

STATION 001 06/19/84

TIME	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
0000	76	318	746	79	315	292	160	-1
0100	73	323	730	77	322	341	165	-1
0200	49	350	720	50	349	218	104	-1
0300	44	359	699	44	358	114	77	-1
0400	24	28	659	30	43	2190	76	-1
0500	10	224	627	22	143	9006	38	-1
0600	17	210	634	18	207	2136	38	-1
0700	26	9	704	28	11	1085	65	-1
0800	18	262	744	32	183	10767	93	-1
0900	36	250	752	41	254	1360	82	-1
1000	26	255	797	37	268	4784	85	-1
1100	30	260	843	42	266	4475	89	-1
1200	48	250	853	59	253	1737	133	-1
1300	59	266	868	67	272	1376	138	-1
1400	67	273	881	77	274	984	146	-1
1500	69	294	894	76	295	731	141	-1
1600	76	303	904	82	304	577	168	-1
1700	83	307	903	89	305	550	164	-1
1800	97	318	870	102	316	329	168	-1
1900	95	315	824	98	313	268	156	-1
2000	85	316	778	87	313	235	178	-1
2100	103	320	723	106	318	199	187	-1
2200	92	328	698	95	326	251	167	-1
2300	88	324	671	91	323	216	183	-1
24HR	57	269	771	63	263	1842	187	-1

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HOUR AVERAGES FOR LAST COMPLETE 24 HOUR PERIOD

STATION 001 06/20/84

TIME	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
0000	77	332	653	79	331	225	135	-1
0100	59	336	625	62	335	329	133	-1
0200	57	344	601	58	344	236	141	-1
0300	37	328	580	41	324	721	86	-1
0400	54	320	573	55	318	223	97	-1
0500	28	310	562	29	307	296	77	-1
0600	34	4	585	35	4	268	69	-1
0700	27	264	616	40	289	3395	74	-1
0800	34	244	644	37	241	874	69	-1
0900	19	249	699	32	235	6760	69	-1
1000	30	240	729	40	236	3303	90	-1
1100	39	246	747	49	243	2422	102	-1
1200	43	246	767	55	236	2759	110	-1
1300	33	245	800	49	239	4151	123	-1
1400	52	299	820	63	301	1606	120	-1
1500	58	291	836	69	290	1668	169	-1
1600	74	299	843	84	299	939	175	-1
1700	81	318	844	87	317	538	171	-1
1800	89	321	838	94	319	383	171	-1
1900	95	323	821	98	321	249	167	-1
2000	107	315	776	111	313	253	218	-1
2100	109	315	726	113	313	244	213	-1
2200	104	315	694	107	313	258	188	-1
2300	118	321	672	121	319	223	203	-1
24HR	60	284	710	67	282	1346	218	-1

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HOUR AVERAGES FOR LAST COMPLETE 24 HOUR PERIOD

STATION 001 06/21/84

TIME	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
0000	110	318	650	114	316	233	224	-1
0100	70	314	623	73	312	289	135	-1
0200	68	312	602	70	310	247	135	-1
0300	85	319	592	87	317	239	162	-1
0400	82	318	579	85	316	247	162	-1
0500	65	318	565	67	315	245	126	-1
0600	65	316	575	67	314	267	126	-1
0700	87	328	609	90	326	269	184	-1
0800	89	329	641	92	328	342	173	-1
0900	69	316	672	73	314	514	134	-1
1000	53	310	704	61	311	1080	125	-1
1100	44	299	734	55	293	2150	120	-1
1200	48	272	757	61	274	2090	138	-1
1300	46	293	790	56	288	1820	126	-1
1400	60	283	815	67	284	1278	136	-1
1500	66	300	828	75	298	1135	161	-1
1600	73	293	839	81	293	798	153	-1
1700	68	300	848	74	298	601	149	-1
1800	80	291	840	82	290	296	150	-1
1900	75	291	821	76	290	197	128	-1
2000	47	297	782	47	296	232	90	-1
2100	37	298	750	38	296	219	73	-1
2200	30	284	717	30	283	105	46	-1
2300	30	291	698	31	290	159	66	-1
24HR	64	303	709	68	302	627	224	-1

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HOUR AVERAGES FOR LAST COMPLETE 24 HOUR PERIOD

STATION 001 06/22/84

TIME	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
0000	43	299	674	43	297	158	85	-1
0100	49	303	665	50	301	230	91	-1
0200	30	302	653	31	300	277	68	-1
0300	27	301	630	28	304	358	52	-1
0400	21	293	621	23	303	945	44	-1
0500	4	12	611	11	33	6127	50	-1
0600	17	351	641	18	343	2465	50	-1
0700	31	8	697	32	8	324	54	-1
0800	26	7	752	30	6	1146	67	-1
0900	35	16	784	42	20	1558	102	-1
1000	43	0	808	49	1	943	105	-1
1100	31	329	841	40	332	3881	117	-1
1200	47	299	855	60	302	1908	189	-1
1300	61	291	868	70	292	1085	138	-1
1400	62	299	885	72	298	1029	150	-1
1500	71	297	895	77	296	681	158	-1
1600	70	307	904	78	308	725	174	-1
1700	70	308	924	75	307	588	155	-1
1800	69	306	929	74	305	461	138	-1
1900	75	287	900	76	285	127	128	-1
2000	45	292	863	45	291	202	91	-1
2100	35	294	834	36	293	174	54	-1
2200	32	299	811	32	297	172	56	-1
2300	35	301	798	36	299	222	81	-1
24HR	42	241	785	47	242	1074	189	-1

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HOUR AVERAGES FOR LAST COMPLETE 24 HOUR PERIOD

STATION 001 06/24/84

TIME	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
0000	50	304	755	52	302	264	108	-1
0100	52	321	742	54	318	446	113	-1
0200	47	323	748	52	318	696	114	-1
0300	22	286	714	23	285	474	43	-1
0400	24	288	687	27	295	845	47	-1
0500	8	341	682	12	354	3433	46	-1
0600	10	64	696	13	65	1787	32	-1
0700	19	101	739	21	97	681	39	-1
0800	26	197	776	30	196	1288	53	-1
0900	33	180	810	39	178	1095	85	-1
1000	42	206	835	49	206	1138	86	-1
1100	42	247	871	47	245	1702	87	-1
1200	52	250	906	61	255	1699	119	-1
1300	64	279	943	70	278	669	140	-1
1400	61	250	974	69	256	1347	120	-1
1500	59	249	1014	66	249	838	120	-1
1600	43	246	1015	51	242	1851	102	-1
1700	52	242	1034	57	242	694	105	-2
1800	36	214	1036	40	215	832	65	-1
1900	47	245	1000	49	243	415	75	-1
2000	34	252	939	34	252	88	54	-2
2100	46	302	900	52	297	698	153	-1
2200	76	340	876	79	339	342	157	-1
2300	79	336	851	81	335	315	153	-1
24HR	42	252	855	47	252	984	157	-1

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HOUR AVERAGES FOR LAST COMPLETE 24 HOUR PERIOD

STATION 001 06/25/84

TIME	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
0000	65	316	810	68	314	349	151	-1
0100	52	313	785	54	311	313	119	-1
0200	44	305	757	45	304	294	81	-1
0300	32	310	717	33	309	235	69	-1
0400	29	294	691	31	295	437	61	-1
0500	23	279	671	24	275	721	48	-1
0600	11	265	681	12	265	693	26	-1
0700	13	78	752	19	48	4476	42	-1
0800	39	119	774	42	116	910	100	-1
0900	60	132	806	66	133	659	130	-1
1000	42	149	846	51	150	1406	102	-1
1100	37	193	874	45	189	2196	91	-1
1200	36	190	901	46	187	2727	93	-2
1300	28	209	936	43	208	4035	88	-1
1400	56	243	964	61	246	707	114	-2
1500	64	253	998	68	252	479	152	-2
1600	41	300	1037	52	304	2335	117	-2
1700	38	354	1055	45	357	1664	114	-2
1800	46	346	1053	50	348	601	112	-2
1900	58	304	1016	61	302	355	121	-2
2000	50	300	964	52	298	300	106	-2
2100	88	318	926	91	315	243	186	-2
2200	105	324	881	108	322	215	189	-2
2300	87	316	838	90	314	278	160	-1
24HR	47	258	863	52	256	1109	189	-1

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HOUR AVERAGES FOR LAST COMPLETE 24 HOUR PERIOD

STATION 001 06/26/84

TIME	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
0000	76	314	790	79	312	287	154	-1
0100	67	313	765	69	311	290	140	-1
0200	56	311	742	58	309	287	103	-1
0300	42	306	725	43	303	354	88	-1
0400	31	290	683	32	289	362	52	-1
0500	33	286	654	34	285	201	51	-1
0600	36	308	672	37	306	295	72	-1
0700	30	333	735	33	336	969	61	-1
0800	25	54	795	31	61	2433	69	-1
0900	22	125	830	30	132	3083	94	-1
1000	7	83	878	25	102	7737	96	-2
1100	24	258	901	34	253	2490	80	-1
1200	54	244	908	60	241	1381	113	-2
1300	77	261	921	82	261	483	139	-2
1400	64	296	953	72	296	933	133	-2
1500	76	301	977	82	300	538	171	-2
1600	89	308	984	95	307	471	162	-2
1700	103	312	977	107	310	310	190	-2
1800	100	327	970	104	325	339	187	-2
1900	98	312	939	102	310	270	170	-2
2000	94	324	902	96	322	190	168	-2
2100	89	323	880	92	321	233	174	-2
2200	91	315	844	98	309	562	214	-2
2300	61	292	768	63	291	200	107	-2
24HR	60	274	841	64	274	1029	214	-1

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HOUR AVERAGES FOR LAST COMPLETE 24 HOUR PERIOD

STATION 001 06/27/84

TIME	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
0000	66	310	751	69	307	372	146	-2
0100	73	317	757	76	314	267	151	-1
0200	59	312	739	61	309	294	127	-1
0300	38	301	701	39	300	211	66	-1
0400	32	299	676	33	298	255	56	-1
0500	25	291	665	26	288	331	52	-1
0600	19	295	678	20	292	690	50	-1
0700	38	7	749	40	6	559	81	-1
0800	35	343	795	39	345	997	74	-1
0900	31	266	831	43	309	7371	96	-2
1000	56	276	846	61	274	656	109	-1
1100	64	254	865	71	258	889	134	-2
1200	68	261	890	75	263	682	118	-2
1300	69	287	920	75	288	719	154	-2
1400	73	303	953	79	302	563	154	-2
1500	74	305	972	79	304	521	156	-2
1600	77	296	986	83	297	542	164	-2
1700	79	295	987	83	295	351	161	-2
1800	70	310	985	73	308	394	134	-2
1900	64	289	956	65	288	174	120	-2
2000	44	299	908	46	297	274	88	-2
2100	43	304	876	44	302	279	77	-2
2200	37	295	847	38	293	166	62	-1
2300	47	305	821	48	303	299	95	-1
24HR	53	284	839	56	285	744	164	-1

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HOUR AVERAGES FOR LAST COMPLETE 24 HOUR PERIOD

STATION 001 06/28/84

TIME	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
0000	69	322	838	73	317	418	167	-1
0100	50	305	796	52	303	319	119	-1
0200	45	306	761	47	305	273	112	-1
0300	37	299	734	38	298	249	70	-1
0400	40	302	712	43	299	469	100	-1
0500	52	318	729	53	315	214	97	-1
0600	32	325	742	33	323	370	72	-1
0700	51	344	777	52	344	288	99	-1
0800	43	338	823	45	337	467	83	-1
0900	63	338	854	67	338	476	128	-2
1000	50	353	889	55	354	753	123	-2
1100	38	336	926	46	338	1487	118	-2
1200	76	294	932	82	294	592	167	-2
1300	70	300	954	77	300	744	150	-2
1400	69	308	978	76	308	759	146	-2
1500	82	311	999	88	310	490	164	-2
1600	88	315	1018	94	313	513	190	-2
1700	102	311	1013	106	309	296	176	-2
1800	105	315	1001	108	313	256	179	-2
1900	101	318	972	105	316	275	198	-2
2000	107	322	934	110	320	226	216	-2
2100	107	320	889	111	317	303	234	-2
2200	113	310	835	117	308	267	209	-2
2300	123	320	803	126	318	208	235	-1
24HR	71	317	871	75	316	446	235	-1

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HOUR AVERAGES FOR CURRENT 4 HOUR PERIOD

STATION 001 06/29/84

TIME	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
0000	111	320	784	114	318	229	215	-1
0100	101	319	752	104	317	236	177	-1
0200	94	318	725	97	315	277	194	-1
0300	99	324	710	102	322	238	182	-1
0400	74	310	683	77	308	298	148	-1
0500	49	307	659	51	305	347	112	-1
0600	53	309	659	55	307	349	100	-1
0700	64	336	694	67	336	406	127	-1
0800	67	335	736	70	334	447	134	-1
0900	77	342	778	81	340	403	145	-1
1000	87	337	806	92	335	461	190	-1
1100	68	344	839	75	345	784	151	-1
1200	72	335	857	78	334	649	158	-1
1300	75	337	875	81	335	658	172	-1
1400	82	323	888	91	321	756	205	-2
1500	92	310	897	98	309	462	191	-2
1600	98	311	903	104	310	482	198	-2
1700	99	315	902	104	314	411	187	-2
1800	98	319	896	102	317	320	190	-2
1900	93	318	874	97	316	282	166	-2
2000	88	321	834	90	319	226	174	-2
2100	97	321	806	99	319	213	178	-1
2200	97	320	780	99	318	237	176	-1
2300	57	300	729	59	298	285	125	-1
24HR	83	322	794	86	320	394	215	-1

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HOUR AVERAGES FOR LAST COMPLETE 24 HOUR PERIOD

STATION 001 07/01/84

TIME	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
0000	37	307	758	38	305	234	68	-1
0100	36	314	751	37	311	286	81	-1
0200	17	265	704	20	265	1018	34	-1
0300	25	288	688	26	289	349	42	-1
0400	26	293	674	27	291	180	44	-1
0500	20	308	664	21	315	1160	39	-1
0600	20	74	679	20	76	189	41	-1
0700	22	74	744	24	70	682	50	-1
0800	35	124	780	39	123	765	75	-1
0900	30	140	822	40	139	2010	83	-1
1000	37	187	853	43	186	1426	78	-1
1100	32	214	891	38	219	1925	75	-1
1200	47	239	916	52	227	2848	114	-2
1300	69	248	949	74	248	503	129	-2
1400	54	298	985	66	297	1412	142	-2
1500	53	337	1003	61	334	1354	135	-2
1600	56	349	1013	64	346	1074	132	-2
1700	58	344	1018	62	343	666	125	-2
1800	65	314	1011	69	313	551	128	-2
1900	67	307	982	70	304	373	131	-2
2000	71	310	941	73	309	254	128	-2
2100	56	306	905	57	304	269	101	-1
2200	52	307	886	55	305	377	105	-2
2300	49	285	826	50	284	204	84	-1
24HR	43	259	851	46	258	837	142	-1

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HOUR AVERAGES FOR LAST COMPLETE 24 HOUR PERIOD

STATION 001 07/02/84

TIME	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
0000	40	287	791	41	286	177	78	-1
0100	35	302	778	37	300	323	59	-1
0200	23	347	784	31	348	1615	67	-1
0300	3	116	758	9	172	8518	41	-1
0400	14	104	739	15	123	2348	34	-1
0500	7	135	722	11	141	3256	33	-1
0600	30	112	725	30	111	129	55	-1
0700	34	147	762	38	142	889	80	-1
0800	34	182	803	37	183	717	65	-2
0900	22	184	866	28	170	3025	73	-2
1000	35	245	892	42	255	3456	95	-1
1100	48	258	914	55	253	1277	124	-2
1200	70	251	933	75	251	531	126	-2
1300	69	254	969	74	255	593	132	-2
1400	60	264	1005	69	263	1032	117	-2
1500	76	263	1025	81	265	535	137	-2
1600	61	285	1049	69	288	968	133	-2
1700	47	332	1053	54	330	1113	120	-2
1800	81	303	1024	85	302	331	166	-2
1900	75	306	997	77	304	298	142	-2
2000	56	311	968	59	306	358	145	-2
2100	49	309	942	51	305	362	104	-2
2200	71	314	922	75	308	458	166	-2
2300	57	311	907	59	308	245	117	-2
24HR	45	246	888	50	248	1356	166	-1

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HOUR AVERAGES FOR LAST COMPLETE 24 HOUR PERIOD

STATION 001 07/03/84

TIME	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
0000	53	307	877	54	305	251	111	-2
0100	35	339	867	38	343	617	119	-2
0200	3	126	843	30	49	12901	65	-2
0300	48	269	780	49	268	190	78	-2
0400	25	342	769	32	349	1578	71	-1
0500	6	24	768	13	167	12228	47	-2
0600	10	278	776	13	279	2798	39	-1
0700	18	8	828	25	348	4101	49	-2
0800	12	111	869	24	112	3772	61	-2
0900	33	207	882	38	211	1422	69	-2
1000	50	252	903	53	252	554	96	-2
1100	68	260	921	72	261	498	167	-2
1200	71	262	947	75	263	428	123	-2
1300	63	255	970	69	257	757	130	-2
1400	69	251	986	74	252	535	142	-2
1500	71	266	1005	76	266	540	145	-2
1600	84	286	1016	92	286	633	152	-2
1700	89	302	1014	94	301	404	159	-2
1800	74	304	1006	79	303	434	150	-2
1900	70	306	980	73	304	314	126	-2
2000	79	321	942	82	317	349	156	-2
2100	83	320	903	85	317	241	169	-2
2200	67	321	873	69	319	275	143	-2
2300	58	336	863	60	337	321	143	-2
24HR	51	252	899	57	269	1922	169	-1

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HOUR AVERAGES FOR LAST COMPLETE 24 HOUR PERIOD

STATION 001 07/04/84

TIME	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
0000	58	331	840	60	329	388	108	-1
0100	50	310	806	51	307	279	95	-2
0200	41	299	782	44	293	527	95	-2
0300	38	316	761	39	312	352	84	-2
0400	61	318	762	63	316	283	118	-2
0500	38	337	759	39	338	374	90	-2
0600	39	350	768	40	350	255	83	-2
0700	36	3	799	37	5	368	68	-2
0800	28	67	839	31	74	1368	58	-2
0900	12	159	866	33	156	5774	72	-2
1000	33	226	886	39	226	1467	84	-2
1100	29	198	916	39	214	4026	92	-2
1200	38	245	943	52	242	3417	129	-2
1300	61	261	964	65	262	665	115	-2
1400	97	252	989	100	253	246	153	-2
1500	85	284	1011	91	284	454	152	-2
1600	82	293	1020	85	292	335	150	-2
1700	77	302	1019	81	301	407	138	-2
1800	75	300	1012	78	299	380	132	-2
1900	68	288	978	69	286	167	106	-2
2000	45	300	931	47	298	272	96	-2
2100	39	300	893	40	299	243	63	-2
2200	32	276	868	33	275	231	55	-2
2300	38	286	837	39	285	288	63	-2
24HR	50	262	885	53	262	940	153	-1

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HOUR AVERAGES FOR LAST COMPLETE 24 HOUR PERIOD

STATION 001 07/05/84

TIME	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
0000	46	302	815	48	300	366	88	-2
0100	46	308	821	52	308	967	112	-2
0200	47	294	774	47	294	191	93	-2
0300	39	313	768	41	311	306	78	-2
0400	27	14	778	29	13	565	71	-2
0500	6	304	764	19	286	5999	43	-2
0600	19	247	745	20	240	459	43	-2
0700	26	271	780	27	271	651	50	-2
0800	23	256	841	27	258	1106	54	-2
0900	24	209	891	31	214	2505	70	-2
1000	44	195	905	48	195	822	99	-2
1100	47	208	929	54	208	1037	95	-2
1200	40	226	966	48	227	1519	94	-2
1300	51	257	988	59	256	1165	115	-2
1400	48	239	1010	55	238	1338	110	-2
1500	63	256	1022	68	255	723	114	-2
1600	78	282	1025	81	280	274	132	-2
1700	87	301	1028	92	300	433	162	-2
1800	93	315	1025	97	313	325	165	-2
1900	75	315	997	78	312	364	130	-2
2000	65	299	939	67	298	320	145	-2
2100	59	304	902	62	302	357	119	-2
2200	43	298	863	45	296	320	82	-2
2300	45	312	843	47	309	356	87	-2
24HR	47	263	892	51	261	936	165	-2

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HOUR AVERAGES FOR LAST COMPLETE 24 HOUR PERIOD

STATION 001 07/06/84

TIME	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
0000	28	339	836	32	334	891	68	-2
0100	23	329	827	24	326	624	53	-2
0200	12	325	807	19	18	8863	52	-2
0300	30	293	766	31	295	255	59	-2
0400	28	278	751	29	277	399	53	-2
0500	36	295	725	38	296	389	70	-1
0600	19	353	771	20	350	537	51	-2
0700	13	327	840	22	332	3128	51	-2
0800	27	248	866	31	255	1272	58	-2
0900	31	214	899	35	217	1248	70	-2
1000	31	224	939	37	226	1549	83	-2
1100	40	254	972	46	262	2514	88	-2
1200	57	259	988	62	258	699	119	-2
1300	61	250	1020	68	253	864	114	-2
1400	61	255	1044	65	256	593	115	-2
1500	55	248	1064	58	247	468	94	-2
1600	71	266	1053	75	267	437	115	-2
1700	86	283	1059	89	282	251	148	-2
1800	87	292	1045	90	291	236	159	-2
1900	83	308	1020	86	306	320	152	-2
2000	89	323	976	91	320	235	164	-2
2100	82	316	931	84	315	246	153	-2
2200	73	313	901	75	312	260	133	-2
2300	57	312	876	59	309	300	131	-2
24HR	49	287	915	52	275	1107	164	-1

HOUR AVERAGES FOR CURRENT 4 HOUR PERIOD

STATION 001 07/07/84

TIME	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
0000	61	302	837	63	301	276	105	-2
0100	70	317	818	72	314	306	134	-2
0200	57	333	812	59	333	344	115	-2
0300	51	330	804	53	330	332	107	-2
0400	33	358	796	35	358	381	79	-2
0500	10	337	774	22	315	4913	55	-2
0600	19	260	754	22	256	1231	44	-2
0700	8	21	828	14	8	4315	37	-2
0800	22	95	884	27	80	2147	66	-2
0900	33	154	880	42	154	1705	74	-2
1000	46	200	900	52	198	886	102	-2
1100	31	230	949	39	225	2375	90	-2
1200	46	251	981	53	254	1578	124	-2
1300	58	255	1010	64	253	724	126	-2
1400	50	248	1053	55	248	861	114	-2
1500	62	263	1048	69	269	1069	128	-2
1600	76	276	1049	80	277	449	141	-2
1700	71	304	1055	76	303	471	143	-2
1800	110	318	1033	114	315	274	203	-2
1900	107	324	1008	110	321	212	221	-2
2000	95	324	954	98	321	230	169	-2
2100	80	319	908	82	317	241	154	-2
2200	74	320	869	76	317	307	160	-2
2300	71	313	824	74	311	269	128	-2
24HR	55	268	909	60	265	1079	221	-2

MAXIMUM ONE HOUR AVERAGES AND TIME OF OCCURRENCE

	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
TIME	1800	400	1700	1800	400	500	1900	0
MAX1	110	358	1055	114	358	4913	221	-2

MAXIMUM THREE HOUR SLIDING AVERAGES AND TIME OF OCCURRENCE

	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
TIME	1800	300	1400	1800	200	500	1800	0
MAX3	104	341	1050	107	340	3486	197	-2

MAXIMUM EIGHT HOUR SLIDING AVERAGES AND TIME OF OCCURRENCE

	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
TIME	1600	1600	1200	1500	1600	500	1500	0
MAX8	85	312	1029	88	310	2393	164	-2

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HOUR AVERAGES FOR CURRENT 4 HOUR PERIOD

STATION 001 07/08/84

TIME	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
0000	58	305	788	60	303	300	103	-2
0100	60	312	782	62	310	286	102	-2
0200	66	323	776	68	321	222	131	-2
0300	39	350	770	41	349	394	74	-2
0400	7	8	733	20	70	7565	50	-2
0500	14	131	690	16	148	2557	42	-2
0600	19	114	689	21	112	948	47	-2
0700	19	186	753	23	187	1257	38	-2
0800	23	195	797	28	198	1451	68	-2
0900	28	188	826	34	187	1999	65	-2
1000	33	242	869	40	230	2668	88	-2
1100	60	271	889	65	270	639	113	-2
1200	69	282	928	73	282	577	124	-2
1300	74	271	957	81	273	728	157	-2
1400	90	259	973	94	261	398	159	-2
1500	86	271	995	92	272	464	153	-2
1600	80	300	1011	85	299	423	166	-2
1700	78	317	1035	84	319	643	151	-2
1800	89	312	1019	92	310	341	173	-2
1900	71	303	991	74	300	345	138	-2
2000	62	303	926	65	298	359	155	-2
2100	77	318	907	80	315	282	160	-2
2200	84	313	882	87	310	324	172	-2
2300	66	303	804	68	301	308	128	-2
24HR	56	257	866	60	259	1061	173	-2

MAXIMUM ONE HOUR AVERAGES AND TIME OF OCCURRENCE

	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
TIME	1400	300	1700	1400	300	400	1800	0
MAX1	90	350	1035	94	349	7565	173	-2

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HOUR AVERAGES FOR LAST COMPLETE 24 HOUR PERIOD

STATION 001 07/09/84

TIME	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
0000	62	306	765	64	304	274	123	-2
0100	67	317	755	69	314	228	133	-2
0200	52	320	752	55	316	379	130	-2
0300	48	300	715	50	298	316	92	-2
0400	48	303	685	50	301	303	95	-2
0500	54	306	678	56	304	270	98	-2
0600	50	308	694	51	306	284	92	-2
0700	59	322	748	63	320	437	122	-2
0800	75	342	801	78	342	374	162	-2
0900	86	346	821	90	345	350	190	-2
1000	60	3	851	62	3	419	113	-2
1100	48	337	887	56	337	1085	122	-2
1200	55	328	910	63	330	1381	152	-2
1300	62	338	940	69	337	889	149	-2
1400	60	345	964	66	340	845	141	-2
1500	68	306	993	75	306	855	147	-2
1600	82	294	993	90	297	689	169	-2
1700	99	286	988	102	286	264	172	-3
1800	87	306	985	92	304	389	155	-3
1900	91	313	967	94	311	257	167	-2
2000	67	312	924	69	310	292	133	-3
2100	68	315	888	70	312	308	131	-3
2200	54	303	846	57	298	359	130	-3
2300	52	292	782	53	291	193	91	-3
24HR	64	302	847	68	300	476	190	-2

	TMPH	DEG	TDGF	TMPH	DEG	DEG	TMPH	MVDC
2200	34	284	901	33	283	56	44	-2
2205	26	295	895	26	295	256	35	-2
2210	33	300	889	33	299	130	46	-2
2215	38	318	886	38	316	235	74	-2
2220	55	324	893	56	322	195	89	-2
2225	76	329	904	78	327	292	120	-2
2230	69	335	909	71	335	260	117	-2
2235	62	342	907	63	341	208	113	-2
2240	56	343	905	57	346	183	101	-1
2245	52	342	901	54	348	240	82	-2
2250	49	347	898	51	346	283	86	-2
2255	49	347	896	50	344	273	80	-2
AVG	47	331	899	51	325	681	120	-2

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STATION 001 0000 07/11/84

TIME	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
2300	59	344	895	60	347	219	102	-2
2305	51	341	895	52	340	219	94	-2
2310	51	342	893	53	347	317	96	-1
2315	47	343	892	49	342	329	69	-2
2320	46	347	890	47	345	274	71	-2
2325	46	347	888	47	347	205	86	-2
2330	56	346	888	57	346	171	95	-2
2335	55	346	889	56	344	190	99	-2
2340	56	344	887	57	343	279	91	-2
2345	52	344	887	54	342	320	91	-2
2350	53	339	886	54	339	184	91	-2
2355	46	343	886	47	343	246	96	-2
AVG	51	344	890	53	344	253	102	-2

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HOUR AVERAGES FOR CURRENT 4 HOUR PERIOD

STATION 001 07/10/84

TIME	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
0000	55	294	729	56	293	260	95	-2
0100	62	315	734	64	313	267	119	-2
0200	49	316	722	50	312	321	119	-2
0300	35	344	704	37	338	583	70	-2
0400	30	331	700	32	331	588	91	-2
0500	22	22	693	27	23	1540	56	-2
0600	16	144	675	22	140	2214	45	-2

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HOUR AVERAGES FOR LAST COMPLETE 24 HOUR PERIOD

STATION 001 07/11/84

TIME	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
0000	41	309	848	45	309	755	92	-2
0100	42	292	761	43	291	203	69	-2
0200	34	294	710	34	294	215	59	-2
0300	31	297	697	32	297	239	51	-2
0400	24	317	696	25	319	541	46	-2
0500	28	35	703	31	35	770	61	-2
0600	27	62	697	27	62	323	51	-2
0700	34	89	737	36	94	796	67	-2
0800	35	120	797	38	118	737	72	-2
0900	48	109	837	51	108	487	90	-2
1000	55	119	869	59	119	537	107	-2
1100	30	170	907	50	168	3274	112	-2
1200	42	203	930	50	201	1508	99	-2
1300	34	220	972	45	220	3434	90	-2
1400	62	246	1005	67	244	713	122	-2
1500	71	262	1011	75	263	559	134	-2
1600	65	277	1030	74	281	1039	148	-2
1700	82	283	1022	85	285	397	148	-2
1800	91	283	1007	93	281	151	146	-2
1900	62	296	985	64	295	302	117	-2
2000	57	314	947	59	312	266	130	-2
2100	89	323	917	91	321	217	195	-2
2200	86	332	902	90	330	336	178	-2
2300	56	298	843	58	296	274	114	-2
24HR	51	231	867	55	230	753	195	-2

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HOUR AVERAGES FOR LAST COMPLETE 24 HOUR PERIOD

STATION 001 07/12/84

TIME	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
0000	53	305	791	55	303	275	98	-2
0100	45	311	783	47	309	305	97	-2
0200	41	290	750	42	290	236	66	-2
0300	35	292	720	36	290	188	63	-2
0400	26	351	731	31	348	1163	58	-2
0500	20	50	728	24	51	1197	44	-2
0600	18	73	723	19	70	505	39	-2
0700	33	87	763	36	88	635	64	-2
0800	52	135	800	56	134	474	100	-2
0900	51	193	827	55	193	610	93	-2
1000	34	202	866	41	202	1733	81	-2
1100	29	254	908	41	249	3641	90	-2
1200	50	265	937	58	267	1496	169	-2
1300	64	299	981	71	299	903	142	-2
1400	76	295	1006	82	296	771	174	-2
1500	83	299	1018	88	299	478	152	-2
1600	82	304	1020	88	304	513	155	-2
1700	82	306	1020	87	305	382	152	-2
1800	80	316	1011	83	313	326	142	-2
1900	67	313	988	70	310	333	139	-2
2000	52	316	952	54	314	285	117	-2
2100	45	310	923	47	308	285	95	-2
2200	41	286	880	42	286	269	73	-2
2300	43	287	825	44	287	243	69	-2
24HR	50	255	872	54	254	718	174	-2

HOUR AVERAGES FOR CURRENT 4 HOUR PERIOD
STATION 001 07/13/84

TIME	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
0000	50	298	813	51	296	298	84	-2
0100	42	311	815	43	310	316	84	-2
0200	25	339	817	27	334	954	58	-2
0300	17	204	773	19	198	1225	38	-2
0400	16	241	745	18	261	2983	37	-2
0500	21	292	729	26	299	1361	60	-2
0600	15	81	730	17	114	3739	45	-2
0700	13	79	779	16	76	2963	44	-2
0800	37	92	835	39	91	554	77	-2
0900	44	116	862	48	117	732	85	-2
1000	41	202	898	46	200	976	93	-2
1100	32	262	942	45	261	3300	92	-2
1200	56	277	979	63	276	861	129	-2
1300	75	274	1006	80	273	502	139	-2
1400	80	265	1029	84	266	408	147	-2
1500	78	256	1040	83	258	512	151	-2
1600	89	255	1040	91	256	208	130	-2
1700	84	287	1062	87	287	327	150	-2
1800	84	288	1047	85	287	192	140	-2
1900	64	288	1020	65	287	178	117	-2
2000	52	276	970	53	274	182	86	-2
2100	40	301	946	42	301	334	82	-2
2200	30	284	941	36	282	1114	73	-2
2300	45	283	896	47	283	275	79	-2
24HR	47	243	904	50	245	1016	151	-2

MAXIMUM ONE HOUR AVERAGES AND TIME OF OCCURRENCE

	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
TIME	1600	200	1700	1600	200	600	1500	0
MAX1	89	339	1062	91	334	3739	151	-2

MAXIMUM THREE HOUR SLIDING AVERAGES AND TIME OF OCCURRENCE

	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
TIME	1600	0	1600	1500	0	400	1300	0
MAX3	85	316	1049	87	313	2694	145	-2

MAXIMUM EIGHT HOUR SLIDING AVERAGES AND TIME OF OCCURRENCE

	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
TIME	1200	1600	1200	1200	1600	400	1200	0
MAX8	76	282	1027	79	282	2076	137	-2

HOUR AVERAGES FOR CURRENT 4 HOUR PERIOD
STATION 001 07/14/84

TIME	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
0000	22	276	871	30	248	5081	59	-2
0100	33	287	860	35	269	2492	74	-2
0200	20	88	852	32	73	3503	58	-2
0300	12	134	814	19	151	3821	49	-2
0400	12	312	816	14	327	2760	30	-2
0500	15	134	812	17	142	1785	47	-2
0600	15	157	811	19	166	1543	42	-2
0700	9	109	828	17	194	9742	54	-1
0800	36	108	830	37	107	269	58	-2
0900	26	178	870	32	178	1497	53	-2
1000	39	202	919	47	198	1431	100	-2
1100	32	257	963	41	261	2408	99	-2
1200	70	238	978	75	239	518	119	-2
1300	81	276	994	87	277	538	148	-2
1400	76	284	1024	82	285	694	158	-2
1500	98	259	1036	101	260	301	151	-2
1600	101	257	1040	103	258	158	153	-2
1700	79	286	1046	89	290	978	155	-2
1800	83	318	1034	87	316	358	160	-2
1900	82	315	999	85	313	243	167	-2
2000	70	310	960	72	308	288	140	-2
2100	58	297	919	60	296	322	116	-2
2200	59	306	892	61	304	295	123	-2
2300	72	314	893	74	312	276	135	-2
24HR	50	237	919	54	240	1720	167	-1

MAXIMUM ONE HOUR AVERAGES AND TIME OF OCCURRENCE

	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
TIME	1600	1800	1700	1600	400	700	1900	700
MAX1	101	318	1046	103	327	9742	167	-1

MAXIMUM THREE HOUR SLIDING AVERAGES AND TIME OF OCCURRENCE

	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
TIME	1500	1800	1500	1500	1800	500	1700	500
MAX3	92	314	1040	97	312	4356	160	-1

MAXIMUM EIGHT HOUR SLIDING AVERAGES AND TIME OF OCCURRENCE

	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
TIME	1200	1600	1200	1200	1600	0	1300	0
MAX8	83	300	1018	88	299	3840	154	-1

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HOUR AVERAGES FOR LAST COMPLETE 24 HOUR PERIOD

STATION 001 07/15/84

TIME	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
0000	68	317	882	71	315	281	133	-2
0100	50	311	872	52	308	280	103	-2
0200	68	315	857	71	313	350	142	-2
0300	33	345	853	42	349	1707	109	-2
0400	44	298	834	46	294	544	91	-2
0500	6	271	819	27	341	9611	62	-2
0600	4	193	811	16	192	8937	51	-2
0700	15	157	821	19	156	1725	35	-2
0800	23	101	852	29	115	2343	62	-2
0900	40	123	862	42	122	539	73	-2
1000	32	157	870	42	158	1585	76	-2
1100	29	221	930	40	216	2533	81	-2
1200	43	254	957	53	251	2090	130	-2
1300	54	294	983	67	289	1673	131	-2
1400	55	307	1002	62	307	974	130	-2
1500	80	291	1015	84	291	419	150	-2
1600	87	283	1013	90	283	310	153	-2
1700	85	279	1013	87	278	198	138	-2
1800	76	284	997	78	283	138	117	-2
1900	53	283	985	53	282	145	92	-2
2000	35	258	947	36	257	287	65	-2
2100	27	288	925	29	289	437	48	-2
2200	49	236	904	51	234	250	88	-2
2300	52	290	877	54	289	271	93	-2
24HR	46	256	911	51	258	1567	153	-2

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HOUR AVERAGES FOR LAST COMPLETE 24 HOUR PERIOD

STATION 001 07/16/84

TIME	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
0000	40	291	869	45	288	702	87	-2
0100	27	339	857	29	337	554	74	-2
0200	9	332	838	21	295	4637	58	-2
0300	29	209	793	30	209	321	50	-2
0400	31	255	775	32	257	366	60	-2
0500	31	274	779	31	273	239	53	-2
0600	32	260	784	32	260	290	55	-2
0700	19	259	810	22	261	948	46	-2
0800	20	185	854	27	234	9471	75	-2
0900	46	189	869	51	189	661	84	-2
1000	50	183	884	54	182	583	81	-2
1100	35	211	920	42	213	1434	74	-2
1200	38	179	948	42	180	775	80	-2
1300	27	188	965	33	192	1656	78	-2
1400	39	111	961	42	107	1137	84	-2
1500	17	120	1026	29	133	6922	80	-2
1600	23	180	1019	35	173	2769	66	-2
1700	23	87	1031	37	118	6391	72	-2
1800	39	92	1011	41	93	417	70	-2
1900	18	245	990	35	216	5173	64	-2
2000	11	341	962	27	345	4684	56	-2
2100	25	36	951	28	33	780	61	-2
2200	41	313	925	44	317	766	94	-2
2300	70	315	883	72	312	314	148	-2
24HR	30	216	904	36	217	2166	148	-2

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HOUR AVERAGES FOR LAST COMPLETE 24 HOUR PERIOD

STATION 001 07/17/84

TIME	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
0000	61	304	859	64	302	365	148	-2
0100	50	319	831	52	316	297	106	-2
0200	39	351	830	40	349	348	77	-2
0300	23	301	819	28	297	1286	64	-2
0400	32	282	797	33	281	176	51	-2
0500	31	282	788	32	281	171	52	-2
0600	18	293	786	18	294	204	40	-2
0700	17	345	834	19	337	1285	44	-2
0800	14	77	919	20	86	3528	51	-2
0900	35	229	913	39	229	943	75	-2
1000	27	199	935	36	182	4176	74	-2
1100	44	222	970	50	223	1162	89	-2
1200	55	255	979	60	256	583	100	-2
1300	57	252	996	62	252	663	104	-2
1400	46	258	1026	52	261	1140	123	-2
1500	59	246	1028	64	247	720	110	-2
1600	77	264	1035	81	266	488	126	-2
1700	90	265	1033	94	266	314	148	-2
1800	81	298	1038	86	298	429	151	-2
1900	73	301	1014	76	300	258	145	-2
2000	59	299	973	61	297	288	121	-2
2100	89	319	952	92	316	219	182	-2
2200	80	317	932	82	314	259	181	-2
2300	53	307	895	55	304	361	119	-2
24HR	50	274	924	54	273	819	182	-2

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HOUR AVERAGES FOR LAST COMPLETE 24 HOUR PERIOD

STATION 001 07/18/84

TIME	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
0000	51	305	860	54	303	396	102	-2
0100	60	346	860	63	345	310	111	-2
0200	54	348	846	56	347	241	101	-2
0300	48	317	834	51	314	463	122	-2
0400	43	279	771	43	278	166	70	-2
0500	41	285	749	42	284	195	72	-2
0600	35	293	751	36	291	197	76	-2
0700	35	314	797	37	311	524	65	-2
0800	20	39	864	32	39	2639	68	-2
0900	36	159	880	46	159	1723	83	-2
1000	46	185	905	53	182	1203	94	-2
1100	47	179	913	54	178	1194	114	-2
1200	44	199	937	50	196	1297	96	-2
1300	49	202	966	56	203	1054	111	-2
1400	43	196	982	52	197	1603	115	-2
1500	36	183	1008	46	180	1950	94	-2
1600	23	154	1033	38	156	4416	83	-2
1700	56	251	1001	59	249	509	97	-2
1800	77	261	975	78	262	149	113	-2
1900	57	267	947	58	267	151	87	-2
2000	42	283	916	43	281	136	74	-2
2100	63	313	897	66	309	378	137	-2
2200	88	331	881	91	329	302	171	-2
2300	80	319	850	83	316	285	172	-2
24HR	48	250	892	53	249	895	172	-2

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HOUR AVERAGES FOR LAST COMPLETE 24 HOUR PERIOD

STATION 001 07/19/84

TIME	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
0000	63	302	813	66	299	329	126	-2
0100	69	303	793	71	302	261	130	-2
0200	60	320	800	62	317	314	134	-2
0300	16	264	782	21	269	2185	59	-2
0400	31	260	752	32	261	101	54	-2
0500	28	269	709	28	270	145	53	-2
0600	35	263	697	35	262	151	65	-2
0700	46	255	717	47	256	213	69	-2
0800	20	277	785	25	267	3953	64	-2
0900	33	240	834	37	245	1315	76	-2
1000	35	255	855	43	260	1811	87	-2
1100	61	244	878	65	242	513	116	-2
1200	76	253	903	79	254	275	133	-2
1300	82	252	925	87	253	418	142	-2
1400	70	241	950	75	242	541	124	-2
1500	48	225	983	57	227	1401	99	-2
1600	51	262	1013	55	263	649	94	-2
1700	65	254	1004	66	254	256	96	-2
1800	84	259	981	85	259	91	122	-2
1900	77	280	973	78	279	157	122	-2
2000	57	294	939	60	291	271	119	-2
2100	65	306	901	67	305	297	117	-2
2200	69	313	869	71	311	277	154	-2
2300	56	303	838	57	301	267	119	-2
24HR	54	270	862	57	270	674	154	-2

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HOUR AVERAGES FOR LAST COMPLETE 24 HOUR PERIOD

STATION 001 07/20/84

TIME	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
0000	64	316	831	66	313	295	127	-2
0100	88	325	843	90	323	215	151	-2
0200	75	335	819	77	335	269	140	-2
0300	66	337	789	68	337	287	139	-2
0400	61	328	777	63	325	295	123	-2
0500	42	340	763	45	340	520	109	-2
0600	24	233	743	27	236	922	50	-2
0700	59	267	722	62	265	514	105	-2
0800	20	304	773	24	285	3929	72	-2
0900	21	278	857	31	268	4554	71	-2
1000	31	31	906	38	34	1447	91	-2
1100	38	108	922	48	109	1738	92	-2
1200	31	147	932	48	151	3062	110	-2
1300	52	201	943	58	200	1108	110	-2
1400	46	239	966	57	239	1771	113	-2
1500	56	255	996	61	255	926	124	-2
1600	79	252	983	81	252	239	132	-2
1700	101	258	977	102	259	146	152	-2
1800	91	296	971	96	295	434	165	-2
1900	99	317	945	103	314	310	199	-2
2000	88	314	906	91	313	309	169	-2
2100	103	319	859	106	317	242	199	-2
2200	93	317	838	96	315	269	166	-2
2300	76	313	816	78	311	271	148	-2
24HR	62	267	869	67	266	1003	199	-2

HOUR AVERAGES FOR CURRENT 4 HOUR PERIOD

STATION 001 07/21/84

TIME	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
0000	79	320	806	81	318	259	170	-2
0100	93	320	799	95	318	199	166	-2
0200	57	315	792	59	312	254	119	-2
0300	35	325	784	37	323	450	81	-2
0400	29	308	767	29	306	238	54	-2
0500	42	313	769	43	311	374	84	-2
0600	33	344	770	37	342	891	62	-2
0700	43	3	774	44	5	224	79	-2
0800	389	156	NVAL	NVAL	336	426	498	-2
0900	828	156	NVAL	NVAL	336	148	489	-2
1000	812	156	NVAL	NVAL	338	445	512	-2
1100	812	156	NVAL	NVAL	336	175	516	-2
1200	801	156	NVAL	NVAL	338	401	514	-2
1300	671	159	NVAL	NVAL	350	2109	644	-2
1400	753	161	NVAL	NVAL	344	791	530	-2
1500	548	166	NVAL	NVAL	348	2806	667	-2
1600	34	258	954	68	275	4618	146	-2
1700	52	253	935	59	256	1152	131	-2
1800	59	300	926	65	299	701	146	-2
1900	100	277	879	103	274	228	183	-2
2000	90	285	839	93	282	279	181	-2
2100	76	319	810	79	316	379	156	-2
2200	87	320	770	89	318	272	159	-2
2300	79	318	738	83	316	316	184	-2
24HR	275	243	819	66	304	756	667	-2

MAXIMUM ONE HOUR AVERAGES AND TIME OF OCCURRENCE

	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
TIME	900	600	1600	1900	1300	1600	1500	0
MAX1	828	344	954	103	350	4648	667	-2

MAXIMUM THREE HOUR SLIDING AVERAGES AND TIME OF OCCURRENCE

	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
TIME	900	400	1500	1900	1300	1500	1300	0
MAX3	817	321	944	91	347	2868	613	-2

MAXIMUM EIGHT HOUR SLIDING AVERAGES AND TIME OF OCCURRENCE

	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
TIME	800	1600	1300	1500	800	1200	800	0
MAX8	701	291	906	79	340	1604	546	-2

HOUR AVERAGES FOR CURRENT 4 HOUR PERIOD

STATION 001 07/22/84

TIME	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
0000	89	292	711	84	292	380	168	-2
0100	83	296	699	85	296	301	161	-2
0200	83	299	636	86	299	307	159	-2
0300	68	283	617	71	278	347	152	-2
0400	39	250	594	42	248	532	83	-2
0500	32	242	576	34	241	468	62	-2
0600	48	309	588	51	305	510	109	-2
0700	49	297	603	52	296	566	110	-2
0800	46	288	631	50	287	637	84	-2
0900	29	282	675	36	272	3463	81	-2
1000	18	294	740	28	283	4424	70	-2
1100	37	221	761	52	229	2563	109	-2
1200	44	157	783	55	154	2244	120	-2
1300	44	89	787	59	92	2003	140	-2
1400	65	96	773	72	97	790	127	-2
1500	53	99	770	68	97	1478	127	-2
1600	51	164	751	54	161	490	95	-2
1700	47	111	751	51	109	645	94	-2
1800	32	137	752	37	138	1298	73	-2
1900	27	103	757	36	103	1778	59	-2
2000	40	192	727	42	194	332	68	-2
2100	34	208	704	35	207	237	60	-2
2200	16	213	698	17	226	1073	50	-2
2300	17	207	697	23	195	2397	40	-2
24HR	45	213	699	50	212	1220	168	-2

MAXIMUM ONE HOUR AVERAGES AND TIME OF OCCURRENCE

	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
TIME	100	600	1300	200	600	1000	0	0
MAX1	83	309	787	86	305	4424	168	-2

MAXIMUM THREE HOUR SLIDING AVERAGES AND TIME OF OCCURRENCE

	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
TIME	0	600	1200	0	600	900	0	0
MAX3	82	298	781	85	296	3483	162	-2

MAXIMUM EIGHT HOUR SLIDING AVERAGES AND TIME OF OCCURRENCE

	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
TIME	0	0	1100	0	0	800	0	0
MAX8	60	293	766	63	282	2200	125	-2

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HOUR AVERAGES FOR LAST COMPLETE 24 HOUR PERIOD

STATION 001 07/23/84

TIME	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GND MVDC
0000	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL
0100	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL
0200	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL
0300	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL
0400	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL
0500	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL
0600	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL
0700	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL
0800	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL
0900	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL
1000	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL
1100	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL
1200	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL
1300	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL
1400	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL
1500	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL
1600	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL
1700	73	230	852	77	232	446	132	-2
1800	82	214	835	83	215	121	115	-3
1900	63	232	818	65	233	278	120	-2
2000	82	278	795	85	275	309	165	-2
2100	80	278	773	82	276	246	156	-2
2200	62	265	749	65	264	378	123	-2
2300	59	254	712	62	254	322	137	-2
24HR	71	250	790	74	249	300	165	-2

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HOUR AVERAGES FOR LAST COMPLETE 24 HOUR PERIOD

STATION 001 07/24/84

TIME	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	GHD HVDC
0000	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL
0100	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL
0200	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL
0300	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL
0400	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL
0500	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL
0600	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL
0700	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL
0800	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL
0900	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL
1000	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL	NVAL
1100	54	248	776	62	252	1033	164	-2
1200	53	250	802	62	254	1281	124	-2
1300	56	223	830	63	228	1055	119	-2
1400	64	216	849	72	220	906	122	-2
1500	11	310	898	41	316	7109	98	-2
1600	60	226	893	65	233	1000	123	-2
1700	83	216	865	84	216	161	125	-2
1800	89	223	853	91	224	207	140	-2
1900	93	261	834	99	260	409	178	-2
2000	111	276	779	115	274	282	225	-2
2100	93	275	733	97	273	334	178	-2
2200	113	279	705	117	276	276	222	-2
2300	116	286	683	120	283	292	215	-2
24HR	76	253	807	83	254	1109	225	-2

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HOUR AVERAGES FOR LAST COMPLETE 24 HOUR PERIOD

STATION 001 07/25/84

TIME	WSR TMPH	WDR DEG	TOUT TDGF	WSA TMPH	WDA DEG	WDAV DEG	WGUST TMPH	SND HVDC
0000	101	281	658	105	278	243	192	-2
0100	98	281	643	102	281	294	185	-2
0200	107	289	637	111	286	278	213	-2
0300	83	273	619	86	271	314	157	-2
0400	95	282	606	98	280	282	194	-2
0500	81	292	599	83	279	237	172	-2
0600	76	281	597	78	281	303	163	-2
0700	86	296	621	90	295	358	167	-2
0800	73	315	653	79	314	537	156	-2
0900	59	306	681	67	302	822	131	-2
1000	56	307	711	64	305	956	122	-2
1100	40	299	746	52	302	3125	117	-2
1200	40	311	782	48	311	1543	126	-2
1300	36	312	809	47	306	2728	103	-2
1400	46	284	837	66	285	2655	158	-2
1500	55	291	842	67	294	1469	148	-2
1600	78	266	850	85	265	698	171	-2
1700	83	268	847	90	267	590	160	-2
1800	76	269	841	81	268	500	148	-2
1900	67	253	820	70	254	365	125	-2
2000	52	261	787	54	260	346	119	-2
2100	38	246	749	38	247	180	66	-2
2200	31	248	721	35	248	219	57	-2
2300	42	260	707	44	260	316	78	-2
24HR	66	287	723	72	280	808	213	-2

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HOUR AVERAGES FOR LAST COMPLETE 24 HOUR PERIOD

STATION 001 07/26/84

TIME	USR TMPH	UDR DEG	TOUT TDGF	USA TMPH	WDA DEG	WDAV DEG	UGUST TMPH	GHO MVDC
0000	63	281	701	66	282	292	129	-2
0100	66	298	701	68	298	350	138	-1
0200	69	296	699	72	295	294	132	-2
0300	49	304	686	52	304	397	121	-2
0400	39	294	665	33	283	1259	80	-2
0500	32	244	606	34	242	389	65	-2
0600	35	268	613	37	267	312	69	-2
0700	43	306	668	47	302	725	81	-1
0800	27	341	720	33	349	1676	61	-1
0900	14	92	780	25	85	6731	73	-2
1000	32	96	796	45	87	2891	97	-2
1100	46	151	803	52	154	1432	101	-2
1200	33	167	833	43	166	3746	109	-2
1300	44	196	861	56	189	2253	117	-2
1400	58	212	883	65	216	1115	126	-2
1500	85	225	894	90	225	378	190	-2
1600	80	259	907	87	261	583	160	-2
1700	61	256	918	66	266	581	126	-2
1800	52	276	916	58	274	757	109	-2
1900	67	244	877	68	245	187	123	-2
2000	39	250	831	40	251	199	94	-2
2100	29	250	813	29	250	169	45	-2
2200	36	207	771	36	207	129	50	-2
2300	28	212	739	27	211	89	49	-2
24HR	46	239	778	51	237	1122	190	-1

HOUR AVERAGES FOR CURRENT 4 HOUR PERIOD

STATION 001 07/27/84

TIME	WSR MPH	WDR DEG	TOUT DEGF	WSA MPH	WDA DEG	WDAV DEG	WGUST MPH	GND MVDC
0000	30	202	724	30	200	214	56	-2
0100	28	251	708	34	265	1566	73	-1
0200	14	336	718	16	329	1450	46	-2
0300	19	345	715	21	355	1312	50	-2
0400	10	235	688	11	242	1001	32	-2
0500	13	184	663	13	188	466	34	-2
0600	22	230	655	23	235	463	50	-1
0700	8	250	727	9	250	1130	26	-1
0800	25	191	778	26	192	619	52	-1
0900	47	220	790	49	222	415	81	-1
1000	49	218	823	53	220	591	86	-2
1100	56	225	862	61	228	608	112	-2
1200	50	213	903	58	221	1325	116	-2
1300	55	209	925	60	208	644	110	-2
1400	51	220	945	55	222	726	121	-2
1500	47	202	969	52	198	1031	106	-2
1600	70	207	964	73	207	351	113	-2
1700	90	217	949	91	218	115	130	-2
1800	71	238	944	73	238	217	116	-2
1900	49	251	928	51	252	315	110	-2
2000	48	263	885	50	262	441	142	-2
2100	69	276	852	71	273	271	135	-2
2200	62	264	810	65	263	379	118	-2
2300	61	262	759	64	262	339	121	-2
24HR	43	237	820	46	239	669	112	-1

MAXIMUM ONE HOUR AVERAGES AND TIME OF OCCURRENCE

	WSR MPH	WDR DEG	TOUT DEGF	WSA MPH	WDA DEG	WDAV DEG	WGUST MPH	GND MVDC
TIME	1700	300	1500	1700	300	100	2000	100
MAX	90	345	969	91	355	1566	142	-1

MAXIMUM THREE HOUR SLIDING AVERAGES AND TIME OF OCCURRENCE

	WSR MPH	WDR DEG	TOUT DEGF	WSA MPH	WDA DEG	WDAV DEG	WGUST MPH	GND MVDC
TIME	1600	100	1500	1600	100	100	2000	0
MAX	77	310	940	79	316	1442	131	-1

MAXIMUM EIGHT HOUR SLIDING AVERAGES AND TIME OF OCCURRENCE

	WSR MPH	WDR DEG	TOUT DEGF	WSA MPH	WDA DEG	WDAV DEG	WGUST MPH	GND MVDC
TIME	1600	0	1700	1600	0	100	1600	0
MAX	65	254	910	67	257	1002	123	-1

0000	51	243	715	56	252	422	114	-2
0100	53	229	746	55	229	445	116	-2
0200	52	289	743	54	286	387	117	-2
0300	13	219	678	24	213	3655	52	-2
0400	9	302	671	19	231	7009	71	-2
0500	21	117	662	29	111	1316	44	-2
0600	28	173	641	29	172	268	59	-2
0700	11	190	670	42	190	290	70	-2
0800	31	160	731	33	158	479	57	-2
0900	23	145	797	29	173	2718	82	-2
1000	25	172	937	31	176	2844	78	-2
1100	29	204	864	37	201	2653	82	-2
1200	47	211	885	51	212	1132	113	-2
1300	72	215	897	75	216	265	121	-2
1400	58	231	925	65	237	910	117	-2
1500	67	237	943	67	239	638	132	-2
1600	63	231	942	67	232	516	113	-2
1700	78	237	937	83	240	396	134	-2
1800	76	250	927	79	251	325	148	-2
1900	75	262	889	83	268	375	161	-2
2000	93	285	850	91	284	109	167	-2
2100	58	285	826	61	281	120	121	-2
2200	48	252	771	51	258	352	116	-2
2300	46	261	728	48	261	365	87	-2
[illegible]	49	232	805	52	228	1217	167	-2

MAXIMUM ONE HOUR AVERAGES AND TIME OF OCCURRENCE

	WSR MPH	WDR DEG	TOUT DGF	WSA MPH	WDA DEG	WDAV DEG	WGUST MPH	GND MVDC
TIME	2000	400	1600	2000	100	400	2000	0
MAX1	93	357	949	94	290	7009	167	-2

MAXIMUM THREE HOUR SLIDING AVERAGES AND TIME OF OCCURRENCE

	WSR MPH	WDR DEG	TOUT DGF	WSA MPH	WDA DEG	WDAV DEG	WGUST MPH	GND MVDC
TIME	1800	200	1500	1800	0	300	1800	0
MAX3	82	298	943	85	289	4134	158	-2

MAXIMUM EIGHT HOUR SLIDING AVERAGES AND TIME OF OCCURRENCE

	WSR MPH	WDR DEG	TOUT DGF	WSA MPH	WDA DEG	WDAV DEG	WGUST MPH	GND MVDC
TIME	1300	1600	1200	1300	1600	300	1300	0
MAX8	[illegible]	[illegible]	[illegible]	76	259	2408	136	-2

[illegible] HOUR AVERAGES AND TIME OF OCCURRENCE

	[illegible]	[illegible]	[illegible]	WSA	WDA	WDAV	WGUST	GND
	[illegible]	[illegible]	[illegible]	[illegible]	DEG	DEG	TMFH	mVDC
TIME	[illegible]	[illegible]	[illegible]	1100	400	600	1700	0
[illegible]	[illegible]	334	[illegible]	92	321	2424	174	-2

MAXIMUM THREE HOUR SLIDING AVERAGES AND TIME OF OCCURRENCE

	[illegible]	[illegible]	[illegible]	WSA	WDA	WDAV	WGUST	GND
	[illegible]	DEG	[illegible]	TMFH	DEG	DEG	TMFH	mVDC
[illegible]	[illegible]	[illegible]	[illegible]	1300	300	300	1500	0
[illegible]	[illegible]	318	942	86	315	1678	155	-2

MAXIMUM EIGHT HOUR SLIDING AVERAGES AND TIME OF OCCURRENCE

	[illegible]	[illegible]	[illegible]	WSA	WDA	WDAV	WGUST	GND
	[illegible]	DEG	[illegible]	TMFH	DEG	DEG	TMFH	mVDC
[illegible]	[illegible]	[illegible]	1500	1200	1600	500	1500	0
[illegible]	[illegible]	[illegible]	[illegible]	98	272	1173	150	-2

[illegible]

HOUR AVERAGES FOR LAST COMPLETE 24 HOUR PERIOD

STATION 991 07/30/84

TIME	USR TMPH	UDR DEG	TOUT TDGF	USA TMPH	UDA DEG	UDGV DEG	GUST TMPH	GND HVDC
0000	35	254	725	56	247	185	99	2
0100	39	254	710	41	256	335	80	-2
0200	39	249	699	41	268	420	77	2
0300	19	282	705	29	278	390	80	-2
0400	13	354	698	15	235	1505	10	-2
0500	12	9	688	20	64	6745	51	-2
0600	17	263	666	18	294	798	36	-2
0700	2	27	733	7	200	8314	40	-1
0800	13	128	752	20	142	4160	16	-1
0900	22	162	895	33	166	1561	74	-2
1000	33	182	927	39	197	1894	75	-2
1100	37	181	953	47	173	2100	119	-2
1200	69	215	868	72	216	422	128	-2
1300	67	210	899	76	244	969	149	-2
1400	62	246	938	69	248	737	133	-2
1500	58	269	964	65	269	911	126	-2
1600	62	310	977	69	308	901	151	-2
1700	58	276	973	74	275	669	141	2
1800	3[illegible]	276	969	66	273	372	155	-2
1900	80	275	936	84	273	366	161	-2
2000	59	252	891	62	252	138	115	-2
2100	46	293	842	47	205	275	78	-2
2200	47	241	812	52	245	450	87	-2
2300	41	226	788	43	226	383	60	-2
[illegible]	44	219	822	48	229	1491	161	-1

HOUR AVERAGES FOR LAST COMPLETE 24 HOUR PERIOD

[illegible] 001 [illegible]

[illegible]	USR	HOP	[illegible]	USA	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	251	[illegible]	16	262	416	[illegible]	-2
[illegible]	30	263	747	19	263	350	89	-2
[illegible]	34	[illegible]	[illegible]	17	267	317	78	-2
0300	32	[illegible]	738	33	279	348	[illegible]	2
[illegible]	39	[illegible]	[illegible]	38	287	928	102	-2
[illegible]	32	[illegible]	[illegible]	33	[illegible]	222	64	-2
0600	26	[illegible]	[illegible]	27	238	291	[illegible]	-2
[illegible]	39	[illegible]	[illegible]	35	[illegible]	[illegible]	84	-2
[illegible]	[illegible]	12	[illegible]	32	0	[illegible]	[illegible]	-2
[illegible]	43	[illegible]	831	33	[illegible]	[illegible]	71	-2
1000	[illegible]	[illegible]	817	42	[illegible]	1220	104	-2
[illegible]	[illegible]	[illegible]	869	43	200	2760	101	-2
[illegible]	51	[illegible]	892	57	[illegible]	[illegible]	103	-2
[illegible]	65	212	701	70	213	571	122	-2
[illegible]	75	[illegible]	[illegible]	81	221	586	138	2
[illegible]	[illegible]	249	965	67	251	795	128	-2
[illegible]	86	[illegible]	[illegible]	55	276	2678	133	-2
[illegible]	[illegible]	[illegible]	983	55	317	[illegible]	125	-2
[illegible]	52	268	976	60	269	1052	[illegible]	-2
[illegible]	78	273	915	83	[illegible]	[illegible]	[illegible]	-2
[illegible]	89	285	906	93	283	300	159	-2
[illegible]	95	[illegible]	[illegible]	78	[illegible]	[illegible]	164	-2
[illegible]	83	276	840	87	273	[illegible]	173	-2
[illegible]	[illegible]	[illegible]	[illegible]	95	277	300	[illegible]	-2
[illegible]	29	212	843	55	242	1002	182	-2

AGES FOR LAST COMPLETE 24 HOUR [illegible]

STATION 001 [illegible]

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	62	[illegible]	[illegible]	175	2
[illegible]	[illegible]	[illegible]	[illegible]	63	[illegible]	[illegible]	139	-2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2
[illegible]	41	[illegible]	[illegible]	13	288	135	87	-2
[illegible]	[illegible]	[illegible]	13	25	[illegible]	1116	63	[illegible]
	[illegible]	[illegible]	[illegible]	35	288	1,111	32	-2
[illegible]	[illegible]	[illegible]	[illegible]	32	[illegible]	[illegible]	72	-2
	[illegible]	[illegible]	[illegible]	31	[illegible]	1409	63	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	27	[illegible]	1996	57	[illegible]
[illegible]	[illegible]	2	[illegible]	31	[illegible]	10622	93	-2
[illegible]	[illegible]	8	[illegible]	33	336	9790	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	66	[illegible]	[illegible]	127	-2
[illegible]	[illegible]	[illegible]	[illegible]	73	267	665	125	-2
[illegible]	[illegible]	226	[illegible]	[illegible]	226	[illegible]	127	[illegible]
	[illegible]	[illegible]	237	84	254	517	146	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	93	265	[illegible]	[illegible]	-2
[illegible]	[illegible]	235	[illegible]	105	265	118	[illegible]	-2
[illegible]		[illegible]	[illegible]	102	270	[illegible]	[illegible]	2
[illegible]	[illegible]	[illegible]	[illegible]	113	276	298	151	-2
[illegible]	[illegible]	[illegible]	[illegible]	101	275	[illegible]	182	-2
	[illegible]	[illegible]	[illegible]	83	276	297	184	-2
[illegible]	[illegible]	[illegible]	[illegible]	70	271	296	[illegible]	-2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	272	309	172	-2
[illegible]	[illegible]	[illegible]	[illegible]	91	271	[illegible]	165	-2
[illegible]	[illegible]	259	[illegible]	[illegible]	[illegible]	1437	191	-2

[illegible] FOR LAST [illegible] FROM [illegible]

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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[illegible]	93	[illegible]	[illegible]	73	221	[illegible]	[illegible]
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[illegible]	[illegible]	[illegible]	[illegible]	42	[illegible]	[illegible]	[illegible]
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[illegible]	[illegible]	[illegible]	861	76	[illegible]	765	153
[illegible]	[illegible]	[illegible]	[illegible]	71	[illegible]	694	147
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	995	136
[illegible]	[illegible]	[illegible]	[illegible]	82	[illegible]	[illegible]	142
[illegible]	[illegible]	[illegible]	[illegible]	82	[illegible]	514	159
[illegible]	[illegible]	[illegible]	[illegible]	90	[illegible]	[illegible]	[illegible]
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[illegible]	[illegible]	[illegible]	[illegible]	86	[illegible]	311	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]		72	[illegible]	[illegible]	[illegible]

[illegible]

MAXIMUM ONE HOUR AVERAGES AND TIME OF OCCURRENCE

[illegible]	[illegible]	[illegible]	[illegible]	WDA	WDSV	WDSSI	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	DEG	DEG	THPH	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	0	400	1000	0
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	305	1831	195

[illegible] SLIDING AVERAGES AND TIME OF OCCURRENCE

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	WDSSI	[illegible]
[illegible]	[illegible]	[illegible]	THPH	DEG	DEG	THPH	[illegible]
[illegible]	[illegible]	[illegible]	0	400	[illegible]	1000	0
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible] EIGHT [illegible] HOURS AND TIME OF [illegible]

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	1100	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	5	[illegible]	[illegible]	[illegible]	[illegible]

[illegible]

[illegible]

08/05/84

WBAV

[illegible]6

318

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283

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356

307

254

421

374

690

Results of the Stability Conditions On Site
Using the $\sigma\theta$ Horizontal Wind Direction
Fluxation Method

Date	Hour	Wind Direction Variance (Degrees)	$\sigma\theta$	Stability Class
06/02/24	0000	261	16.2	C
	0100	207	14.4	C
	0200	218	14.8	C
	0300	195	14.0	C
	0400	273	16.5	C
	0500	258	16.1	C
	0600	358	18.9	B
	0700	347	18.6	B
	0800	313	17.7	B
	0900	382	19.5	B
	1000	464	21.5	B
	1100	484	22.0	B
	1200	789	28.1	A
	1300	900	30.0	A
	1400	875	29.6	A
	1500	746	27.3	A
	1600	530	23.0	A
	1700	403	20.1	B
	1800	318	17.8	B
	1900	274	16.6	C
	2000	264	16.2	C
	2100	273	16.5	C
	2200	289	17.0	C
	2300	230	15.2	C
06/09/24	0000	366	19.1	B
	0100	484	22.0	B
	0200	345	18.6	B
	0300	178	13.3	C
	0400	316	17.8	B
	0500	210	14.5	C
	0600	436	20.9	B
	0700	290	17.0	C
	0800	421	20.5	B

Date	Time	Wind Direction Variance (Degrees)	σ_θ	Stability Class
06/09/84	0900	595	24.4	A
	1000	939	30.6	A
	1100	892	29.9	A
	1200	1263	35.5	A
	1300	947	30.8	A
	1400	908	30.1	A
	1500	993	31.5	A
	1600	999	31.6	A
	1700	360	19.0	B
	1800	342	18.5	B
	1900	232	15.2	C
	2000	232	15.2	C
	2100	306	17.5	B
	2200	272	16.5	C
	2300	186	13.6	C
06/10/84	0000	252	15.9	C
	0100	275	16.6	C
	0200	291	17.1	C
	0300	256	16.0	C
	0400	240	15.5	C
	0500	225	15.0	C
	0600	254	15.9	C
	0700	225	15.0	C
	0800	350	18.7	B
	0900	444	21.1	B
	1000	1370	37.0	A
	1100	2463	49.6	A
	1200	6802	82.5	A
	1300	8321	91.2	A
	1400	3009	54.9	A
	1500	8373	91.5	A
	1600	11398	107	A
	1700	523	22.9	A
	1800	355	18.8	B
	1900	329	18.1	B
	2000	5229	72.3	A
	2100	737	27.1	A
	2200	1316	36.3	A
	2300	696	26.4	A

Date	Time	Wind Direction Variance (Degrees)	σ_θ	Stability Class
06/11/84	0000	707	26.6	A
	0100	1640	40.5	A
	0200	7139	84.5	A
	0300	3499	59.2	A
	0400	9042	95.1	A
	0500	1268	35.6	A
	0600	428	20.7	B
	0700	955	30.9	A
	0800	526	22.9	A
	0900	2033	45.1	A
	1000	2291	47.9	A
	1100	3079	55.5	A
	1200	2248	47.4	A
	1300	5441	73.8	A
	1400	2847	53.4	A
	1500	715	26.7	A
	1600	860	29.3	A
	1700	483	22.0	B
	1800	463	21.5	B
	1900	239	15.5	C
	2000	311	17.6	B
	2100	285	16.9	C
	2200	264	16.2	C
	2300	294	17.1	C
06/12/84	0000	267	16.3	C
	0100	200	14.1	C
	0200	214	14.6	C
	0300	181	13.5	C
	0400	204	14.3	C
	0500	225	15.0	C
	0600	218	14.8	C
	0700	265	16.3	C
	0800	502	22.4	B
	0900	632	25.1	A
	1000	1873	43.3	A
	1100	2592	50.9	A
	1200	6134	78.3	A
	1300	6788	82.4	A
	1400	1924	43.9	A

Date	Time	Wind Direction Variance (Degrees)	σ_θ	Stability Class
06/12/84	1500	2434	49.3	A
	1600	1175	34.3	A
	1700	561	23.9	A
	1800	497	22.3	B
	1900	364	19.1	B
	2000	209	14.5	C
	2100	213	14.6	C
	2200	248	15.7	C
	2300	222	14.9	C
06/13/84	0000	225	15.0	C
	0100	242	15.6	C
	0200	318	17.8	B
	0300	253	15.9	C
	0400	432	20.8	B
	0500	342	18.5	B
	0600	252	15.9	C
	0700	991	31.5	A
	0800	500	22.4	B
	0900	2079	45.6	A
	1000	3303	57.5	A
	1100	2667	51.6	A
	1200	1780	42.2	A
	1300	2054	45.3	A
	1400	2059	45.4	A
	1500	869	29.5	A
	1600	866	29.4	A
	1700	743	27.3	A
	1800	575	24.0	A
	1900	353	18.8	B
	2000	264	16.2	C
	2100	298	17.3	C
	2200	245	15.7	C
	2300	228	15.1	C
06/14/84	0000	266	16.3	C
	0100	214	14.6	C
	0200	222	14.9	C
	0300	329	18.1	B
	0400	313	17.7	B

Date	Time	Wind Direction Variance (Degrees)	σ_θ	Stability Class
06/14/84	0500	555	23.6	A
	0600	701	26.5	A
	0700	206	14.4	C
	0800	2385	48.8	A
	0900	9569	97.8	A
	1000	3331	57.7	A
	1100	1479	38.5	A
	1200	1583	39.8	A
	1300	1906	43.7	A
	1400	2163	46.5	A
	1500	1552	39.4	A
	1600	1450	38.1	A
	1700	1984	44.5	A
	1800	410	20.2	B
	1900	345	18.6	B
	2000	324	18.0	B
	2100	224	15.0	C
	2200	299	17.3	C
	2300	373	19.3	B
06/15/84	0000	308	17.5	B
	0100	272	16.5	C
	0200	226	15.0	C
	0300	211	14.5	C
	0400	179	13.4	C
	0500	314	17.7	B
	0600	89	9.43	D
	0700	936	31.0	A
	0800	1449	38.1	A
	0900	1157	34.0	A
	1000	2762	52.6	A
	1100	6676	81.7	A
	1200	3213	56.7	A
	1300	2460	49.6	A
	1400	3778	61.5	A
	1500	2022	45.0	A
	1600	1484	38.5	A
	1700	538	23.2	A
	1800	489	22.1	B
	1900	600	24.5	A

Date	Time	Wind Direction Variance (Degrees)	σ_θ	Stability Class
06/15/84	2000	273	16.5	C
	2100	189	13.7	C
	2200	208	14.4	C
	2300	276	16.6	C
06/16/84	0000	289	17.0	C
	0100	443	21.0	B
	0200	1328	36.4	A
	0300	323	18.0	B
	0400	340	18.4	B
	0500	602	24.5	A
	0600	345	18.6	B
	0700	1239	35.2	A
	0800	463	21.5	B
	0900	575	24.0	A
	1000	1272	35.7	A
	1100	2274	47.7	A
	1200	3572	59.8	A
	1300	3954	62.9	A
	1400	1246	35.3	A
	1500	1292	36.0	A
	1600	1044	32.3	A
	1700	778	27.9	A
	1800	495	22.2	B
	1900	304	17.4	C
	2000	833	28.9	A
	2100	2260	47.5	A
	2200	519	22.8	A
	2300	330	18.2	B
06/17/84	0000	317	17.8	B
	0100	219	14.8	C
	0200	626	25.0	A
	0300	627	25.0	A
	0400	498	22.3	B
	0500	915	30.2	A
	0600	909	30.1	A
	0700	5414	73.6	A
	0800	2352	48.5	A
	0900	1146	33.9	A

Date	Time	Wind Direction Variance (Degrees)	σ_θ	Stability Class
06/17/84	1000	2994	54.7	A
	1100	3477	59.0	A
	1200	1555	39.4	A
	1300	778	27.9	A
	1400	944	30.7	A
	1500	1247	35.3	A
	1600	875	29.6	A
	1700	414	20.3	B
	1800	371	19.3	B
	1900	456	21.4	B
	2000	282	16.8	C
	2100	410	20.2	B
	2200	345	18.6	B
	2300	334	18.3	B
06/18/84	0000	263	16.2	C
	0100	389	19.7	B
	0200	341	18.5	B
	0300	52	7.21	E
	0400	447	21.1	B
	0500	826	28.7	A
	0600	4050	63.6	A
	0700	470	21.7	B
	0800	4975	70.5	A
	0900	1717	41.4	A
	1000	3020	55.0	A
	1100	409	20.2	B
	1200	350	18.7	B
	1300	432	20.8	B
	1400	456	21.4	B
	1500	346	18.6	B
	1600	214	14.6	C
	1700	647	25.4	A
	1800	406	20.1	B
	1900	210	14.5	C
	2000	260	16.1	C
	2100	261	16.2	C
	2200	254	15.9	C
	2300	275	16.6	C

Date	Hour	Wind Direction Variance (Degrees)	σ_θ	Stability Class
06/19/84	0000	292	17.1	C
	0100	341	18.5	B
	0200	218	14.8	C
	0300	114	10.7	D
	0400	2190	46.8	A
	0500	9006	94.9	A
	0600	2136	46.2	A
	0700	1085	32.9	A
	0800	10767	104	A
	0900	1360	36.9	A
	1000	4784	69.2	A
	1100	4475	66.9	A
	1200	1737	41.7	A
	1300	1376	37.1	A
	1400	984	31.4	A
	1500	731	27.0	A
	1600	577	24.0	A
	1700	550	23.5	A
	1800	329	18.1	B
	1900	268	16.4	C
	2000	235	15.3	C
	2100	199	14.1	C
	2200	251	15.8	C
	2300	216	14.7	C
06/20/84	0000	225	15.0	C
	0100	329	18.1	B
	0200	236	15.4	C
	0300	721	26.9	A
	0400	223	14.9	C
	0500	296	17.2	C
	0600	268	16.4	C
	0700	3395	58.3	A
	0800	874	29.6	A
	0900	6760	82.2	A
	1000	3303	57.5	A
	1100	2422	49.2	A
	1200	2759	52.5	A
	1300	4151	64.4	A
	1400	1606	40.1	A

Date	Hour	Wind Direction Variance (Degrees)	σ_θ	Stability Class
06/20/84	1500	1668	40.8	A
	1600	939	30.6	A
	1700	538	23.2	A
	1800	383	19.6	B
	1900	249	15.8	C
	2000	253	15.9	C
	2100	244	15.6	C
	2200	258	16.1	C
	2300	223	14.9	C
06/21/84	0000	233	15.3	C
	0100	289	17.0	C
	0200	247	15.7	C
	0300	239	15.5	C
	0400	247	15.7	C
	0500	245	15.7	C
	0600	267	16.3	C
	0700	269	16.4	C
	0800	342	18.5	B
	0900	514	22.7	A
	1000	1080	32.9	A
	1100	2150	46.4	A
	1200	2090	45.7	A
	1300	1820	42.7	A
	1400	1278	35.7	A
	1500	1135	33.7	A
	1600	798	28.2	A
	1700	601	24.5	A
	1800	296	17.2	C
	1900	197	14.0	C
	2000	232	15.2	C
	2100	219	14.8	C
	2200	105	10.2	D
	2300	159	12.6	C
06/22/84	0000	158	12.6	C
	0100	230	15.2	C
	0200	277	16.6	C
	0300	358	18.9	B
	0400	945	30.7	A

Date	Hour	Wind Direction Variance (Degrees)	σ_θ	Stability Class
06/22/84	0500	6127	78.3	A
	0600	2465	49.6	A
	0700	324	18.0	B
	0800	1146	33.9	A
	0900	1558	39.5	A
	1000	943	30.7	A
	1100	3881	62.3	A
	1200	1908	43.7	A
	1300	1085	32.9	A
	1400	1029	32.1	A
	1500	681	26.1	A
	1600	725	26.9	A
	1700	588	24.2	A
	1800	461	21.5	B
	1900	127	11.3	D
	2000	202	14.2	C
	2100	174	13.2	C
	2200	172	13.1	C
	2300	222	14.9	C
06/24/84	0000	264	16.2	C
	0100	446	21.1	B
	0200	696	26.4	A
	0300	474	21.8	B
	0400	845	29.1	A
	0500	3433	58.6	A
	0600	1787	42.3	A
	0700	681	26.1	A
	0800	1288	35.9	A
	0900	1095	33.1	A
	1000	1138	33.7	A
	1100	1702	41.3	A
	1200	1699	41.2	A
	1300	669	25.9	A
	1400	1347	36.7	A
	1500	838	28.9	A
	1600	1851	43.0	A
	1700	694	26.3	A
	1800	832	28.8	A
	1900	415	20.4	B

Date	Hour	Wind Direction Variance (Degrees)	σ_θ	Stability Class
06/24/84	2000	88	9.38	D
	2100	698	26.4	A
	2200	342	18.5	B
	2300	315	17.7	B
06/25/84	0000	349	18.7	B
	0100	313	17.7	B
	0200	294	17.1	C
	0300	235	15.3	C
	0400	437	20.9	B
	0500	721	26.9	A
	0600	693	26.3	A
	0700	4476	66.9	A
	0800	910	30.2	A
	0900	659	25.7	A
	1000	1406	37.5	A
	1100	2196	46.9	A
	1200	2727	52.2	A
	1300	4035	63.5	A
	1400	707	26.6	A
	1500	479	21.9	B
	1600	2335	48.3	A
	1700	1664	40.8	A
	1800	601	24.5	A
	1900	355	18.8	B
	2000	300	17.3	C
	2100	243	15.6	C
	2200	215	14.7	C
	2300	278	16.7	C
06/26/84	0000	287	16.9	C
	0100	290	17.0	C
	0200	287	16.9	C
	0300	354	18.8	B
	0400	362	19.0	B
	0500	201	14.2	C
	0600	295	17.2	C
	0700	969	31.1	A
	0800	2433	49.3	A
	0900	3083	55.5	A

Date	Hour	Wind Direction Variance (Degrees)	σ_θ	Stability Class
06/26/84	1000	7737	88.0	A
	1100	2490	49.9	A
	1200	1381	37.2	A
	1300	483	22.0	B
	1400	933	30.5	A
	1500	538	23.2	A
	1600	471	21.7	B
	1700	310	17.6	B
	1800	339	18.4	B
	1900	270	16.4	C
	2000	190	13.8	C
	2100	233	15.3	C
	2200	562	23.7	A
	2300	200	14.1	C
06/27/84	0000	372	19.3	B
	0100	267	16.3	C
	0200	294	17.1	C
	0300	211	14.5	C
	0400	255	16.0	C
	0500	331	18.2	B
	0600	690	26.3	A
	0700	559	23.6	A
	0800	997	31.6	A
	0900	7371	85.9	A
	1000	656	25.6	A
	1100	889	29.8	A
	1200	682	26.1	A
	1300	719	26.8	A
	1400	563	23.7	A
	1500	521	22.8	A
	1600	542	23.3	A
	1700	351	18.7	B
	1800	394	19.8	B
	1900	174	13.2	D
	2000	274	16.6	C
	2100	279	16.7	C
	2200	166	12.9	C
	2300	299	17.3	C

Date	Hour	Wind Direction Variance (Degrees)	σ_θ	Stability Class
06/28/84	0000	418	20.4	B
	0100	319	17.9	B
	0200	273	16.5	C
	0300	249	15.8	C
	0400	469	21.7	B
	0500	214	14.6	C
	0600	370	19.2	B
	0700	288	17.0	C
	0800	467	21.6	B
	0900	476	21.8	B
	1000	753	27.4	A
	1100	1487	38.6	A
	1200	592	24.3	A
	1300	744	27.3	A
	1400	759	27.5	A
	1500	490	22.1	B
	1600	513	22.6	A
	1700	296	17.2	C
	1800	256	16.0	C
	1900	275	16.6	C
	2000	226	15.0	C
	2100	303	17.4	C
	2200	267	16.3	C
	2300	208	14.4	C
06/29/84	0000	229	15.1	C
	0100	236	15.4	C
	0200	277	16.6	C
	0300	238	15.4	C
	0400	298	17.3	C
	0500	347	18.6	B
	0600	349	18.7	B
	0700	406	20.1	B
	0800	447	21.1	B
	0900	403	20.1	B
	1000	461	21.5	B
	1100	784	28.0	A
	1200	649	25.5	A
	1300	658	25.7	A
	1400	756	27.5	A

Date	Hour	Wind Direction Variance (Degrees)	σ_θ	Stability Class
06/29/84	1500	462	21.5	B
	1600	482	22.0	B
	1700	411	20.3	B
	1800	320	17.9	B
	1900	282	16.8	C
	2000	226	15.0	C
	2100	213	14.6	C
	2200	237	15.4	C
	2300	285	16.9	C
07/01/84	0000	234	15.3	C
	0100	286	16.9	C
	0200	1018	31.9	A
	0300	349	18.7	B
	0400	180	13.4	C
	0500	1160	34.1	A
	0600	189	13.7	C
	0700	682	26.1	A
	0800	765	27.7	A
	0900	2010	44.8	A
	1000	1426	37.8	A
	1100	1925	43.9	A
	1200	2848	53.4	A
	1300	503	22.4	B
	1400	1412	37.6	A
	1500	1354	36.8	A
	1600	1074	32.8	A
	1700	666	25.8	A
	1800	551	23.5	A
	1900	373	19.3	B
	2000	254	15.9	C
	2100	269	16.4	C
	2200	377	19.4	B
	2300	204	14.3	C
07/02/84	0000	177	13.3	C
	0100	323	18.0	B
	0200	1615	40.2	A
	0300	8518	92.3	A
	0400	2348	48.5	A

Date	Hour	Wind Direction Variance (Degrees)	σ_θ	Stability Class
07/02/84	0500	3256	57.1	A
	0600	129	11.4	D
	0700	889	29.8	A
	0800	717	26.8	A
	0900	3025	55.0	A
	1000	3456	58.8	A
	1100	1277	35.7	A
	1200	531	23.0	A
	1300	593	24.4	A
	1400	1032	32.1	A
	1500	535	23.1	A
	1600	968	31.1	A
	1700	1113	33.4	A
	1800	331	18.2	B
	1900	298	17.3	C
	2000	358	18.9	B
	2100	362	19.0	B
	2200	458	21.4	B
	2300	245	15.7	C
07/03/84	0000	251	15.8	C
	0100	617	24.8	A
	0200	12901	114	A
	0300	190	13.8	C
	0400	1578	39.7	A
	0500	12228	111	A
	0600	2798	52.9	A
	0700	4101	64.0	A
	0800	3772	61.4	A
	0900	1422	37.7	A
	1000	554	23.5	A
	1100	498	22.3	B
	1200	428	20.7	B
	1300	757	27.5	A
	1400	535	23.1	A
	1500	540	23.2	A
	1600	633	25.2	A
	1700	404	20.1	B
	1800	434	20.8	B
	1900	314	17.7	B

Date	Hour	Wind Direction Variance (Degrees)	σ_θ	Stability Class
07/03/84	2000	349	18.7	B
	2100	241	15.5	C
	2200	275	16.6	C
	2300	321	17.9	B
07/04/84	0000	388	19.7	B
	0100	279	16.7	C
	0200	527	23.0	A
	0300	352	18.8	B
	0400	283	16.8	C
	0500	374	19.3	B
	0600	255	16.0	C
	0700	368	19.2	B
	0800	1368	37.0	A
	0900	5774	76.0	A
	1000	1467	38.3	A
	1100	4026	63.5	A
	1200	3417	58.5	A
	1300	665	25.8	A
	1400	246	15.7	C
	1500	454	21.3	B
	1600	335	18.3	B
	1700	407	20.2	B
	1800	380	19.5	B
	1900	167	12.9	C
	2000	272	16.5	C
	2100	243	15.6	C
	2200	231	15.2	C
	2300	288	17.0	C
07/05/84	0000	366	19.1	B
	0100	967	31.1	A
	0200	191	13.8	C
	0300	306	17.5	B
	0400	565	23.8	A
	0500	5999	77.5	A
	0600	459	21.4	B
	0700	651	25.5	A
	0800	1106	33.3	A
	0900	2505	50.0	A

Date	Hour	Wind Direction Variance (Degrees)	σ_θ	Stability Class
07/05/84	1000	822	28.7	A
	1100	1037	32.2	A
	1200	1519	39.0	A
	1300	1165	34.1	A
	1400	1338	36.6	A
	1500	723	26.9	A
	1600	274	16.6	C
	1700	433	20.8	B
	1800	325	18.0	B
	1900	364	19.1	B
	2000	320	17.9	B
	2100	357	18.9	B
	2200	320	17.9	B
	2300	356	18.9	B
07/06/84	0000	891	29.8	A
	0100	624	25.0	A
	0200	8863	94.1	A
	0300	255	16.0	C
	0400	399	20.0	B
	0500	389	19.7	B
	0600	537	23.2	A
	0700	3128	55.9	A
	0800	1272	35.7	A
	0900	1248	35.3	A
	1000	1549	39.4	A
	1100	2514	50.1	A
	1200	699	26.4	A
	1300	864	29.4	A
	1400	593	24.4	A
	1500	468	21.6	B
	1600	437	20.9	B
	1700	251	15.8	C
	1800	236	15.4	C
	1900	320	17.9	B
	2000	235	15.3	C
	2100	246	15.7	C
	2200	260	16.1	C
	2300	300	17.3	C

Date	Hour	Wind Direction Variance (Degrees)	σ_θ	Stability Class
07/07/84	0000	276	16.6	C
	0100	306	17.5	B
	0200	344	18.5	B
	0300	332	18.2	B
	0400	381	19.5	B
	0500	4913	70.1	A
	0600	1231	35.1	A
	0700	4315	65.7	A
	0800	2147	46.3	A
	0900	1705	41.3	A
	1000	886	29.8	A
	1100	2375	48.7	A
	1200	1578	39.7	A
	1300	724	26.9	A
	1400	861	29.3	A
	1500	1069	32.7	A
	1600	449	21.2	B
	1700	471	21.7	B
	1800	274	16.6	C
	1900	212	14.6	C
	2000	230	15.2	C
	2100	241	15.5	C
	2200	307	17.5	B
	2300	269	16.4	C
07/08/84	0000	300	17.3	C
	0100	286	16.9	C
	0200	222	14.9	C
	0300	394	19.8	B
	0400	7565	87.0	A
	0500	2557	50.6	A
	0600	948	30.8	A
	0700	1257	35.5	A
	0800	1451	38.1	A
	0900	1999	44.7	A
	1000	2668	51.7	A
	1100	639	25.3	A
	1200	577	24.0	A
	1300	728	27.0	A
	1400	398	19.9	B

Date	Hour	Wind Direction Variance (degrees)	σ_θ	Stability Class
07/08/84	1500	464	21.5	B
	1600	423	20.6	B
	1700	643	25.4	A
	1800	341	18.5	B
	1900	345	18.6	B
	2000	359	18.9	B
	2100	282	16.8	C
	2200	324	18.0	B
	2300	308	17.5	B
07/09/84	0000	274	16.6	C
	0100	228	15.1	C
	0200	379	19.5	B
	0300	316	17.8	B
	0400	303	14.4	C
	0500	270	16.4	C
	0600	284	16.9	C
	0700	437	20.9	B
	0800	374	19.3	B
	0900	350	18.7	B
	1000	419	20.5	B
	1100	1085	32.9	A
	1200	1381	37.2	A
	1300	889	29.8	A
	1400	845	29.1	A
	1500	855	29.2	A
	1600	689	26.2	A
	1700	264	16.2	C
	1800	389	19.7	B
	1900	257	16.0	C
	2000	292	17.1	C
	2100	308	17.5	B
	2200	359	18.9	B
	2300	193	13.9	C
07/10/84	0000	260	16.1	C
	0100	267	16.3	C
	0200	321	17.9	B
	0300	583	24.1	A
	0400	588	24.2	A

Date	Hour	Wind Direction Variance (Degrees)	σ_θ	Stability Class
07/10/84	0500	1540	39.2	A
	0600	2214	47.1	A
07/11/84	0000	755	27.5	A
	0100	203	14.2	C
	0200	215	14.7	C
	0300	239	15.5	C
	0400	541	23.3	A
	0500	770	27.7	A
	0600	323	18.0	B
	0700	796	28.2	A
	0800	737	27.1	A
	0900	487	22.1	B
	1000	537	23.2	A
	1100	3274	57.2	A
	1200	1508	38.8	A
	1300	3434	58.6	A
	1400	713	26.7	A
	1500	559	23.6	A
	1600	1039	32.2	A
	1700	397	19.9	B
	1800	151	12.3	D
	1900	302	17.4	C
	2000	266	16.3	C
	2100	217	14.7	C
	2200	336	18.3	B
	2300	274	16.6	C
07/12/84	0000	275	16.6	C
	0100	305	17.5	B
	0200	236	15.4	C
	0300	188	13.7	C
	0400	1163	34.1	A
	0500	1197	34.6	A
	0600	505	22.5	A
	0700	635	25.2	A
	0800	474	21.8	B
	0900	610	24.7	A
	1000	1733	41.6	A
	1100	3641	60.3	A

Date	Hour	Wind Direction Variance (Degrees)	σ_θ	Stability Class
07/12/84	1200	1496	38.7	A
	1300	903	30.0	A
	1400	771	27.8	A
	1500	478	21.9	B
	1600	513	22.6	A
	1700	382	19.5	B
	1800	326	18.1	B
	1900	333	18.2	B
	2000	285	16.9	C
	2100	285	16.9	C
	2200	269	16.4	C
	2300	243	15.6	C
07/13/84	0000	208	14.4	C
	0100	316	17.8	B
	0200	954	30.9	A
	0300	1225	35.0	A
	0400	2983	54.6	A
	0500	1361	36.9	A
	0600	3739	61.1	A
	0700	2963	54.4	A
	0800	554	23.5	A
	0900	732	27.1	A
	1000	976	31.2	A
	1100	3300	57.4	A
	1200	861	29.3	A
	1300	502	22.4	B
	1400	408	20.2	B
	1500	512	22.6	A
	1600	208	14.4	C
	1700	327	18.1	B
	1800	192	13.9	C
	1900	178	13.3	C
	2000	182	13.5	C
	2100	334	18.3	B
	2200	1114	33.4	A
	2300	275	16.6	C
07/14/84	0000	5081	71.3	A
	0100	2492	49.9	A

Date	Hour	Wind Direction Variance (Degrees)	SD	Stability Class
07/14/84	0200	3503	59.2	A
	0300	3821	61.8	A
	0400	2760	52.5	A
	0500	1785	42.2	A
	0600	1543	39.3	A
	0700	9742	98.7	A
	0800	269	16.4	C
	0900	1497	38.7	A
	1000	1431	37.8	A
	1100	2408	49.1	A
	1200	518	22.8	A
	1300	538	23.2	A
	1400	694	26.3	A
	1500	301	17.3	C
	1600	158	12.6	C
	1700	978	31.3	A
	1800	358	18.9	B
	1900	243	15.6	C
	2000	288	17.0	C
	2100	322	17.9	B
	2200	295	17.2	C
	2300	276	16.6	C
07/15/84	0000	281	16.8	C
	0100	280	16.7	C
	0200	350	18.7	B
	0300	1707	41.3	A
	0400	544	23.3	A
	0500	9611	98.0	A
	0600	8937	94.5	A
	0700	1725	41.5	A
	0800	2343	48.4	A
	0900	539	23.2	A
	1000	1585	39.8	A
	1100	2533	50.3	A
	1200	2090	45.7	A
	1300	1673	40.9	A
	1400	974	31.2	A
	1500	419	20.5	B
	1600	310	17.6	B

Date	Hour	Wind Direction Variance (Degrees)	σ_θ	Stability Class
07/15/84	1700	198	14.1	C
	1800	138	11.7	D
	1900	145	12.0	D
	2000	287	16.9	C
	2100	437	20.9	B
	2200	250	15.8	C
	2300	271	16.5	C
07/16/84	0000	702	26.5	A
	0100	554	23.5	A
	0200	4637	68.1	A
	0300	321	17.9	B
	0400	366	19.1	B
	0500	239	15.5	C
	0600	290	17.0	C
	0700	948	30.8	A
	0800	9471	97.3	A
	0900	661	25.7	A
	1000	583	24.1	A
	1100	1434	37.9	A
	1200	775	27.8	A
	1300	1656	40.7	A
	1400	1137	33.7	A
	1500	6922	83.2	A
	1600	2769	52.6	A
	1700	6391	79.9	A
	1800	417	20.4	B
	1900	5173	71.9	A
	2000	4684	68.4	A
	2100	780	27.9	A
	2200	766	27.7	A
	2300	314	17.7	B
07/17/84	0000	365	19.1	B
	0100	297	17.2	C
	0200	348	18.7	B
	0300	1286	35.9	A
	0400	176	13.3	C
	0500	171	13.1	C
	0600	204	14.3	C

Date	Hour	Wind Direction Variance (Degrees)	σ_θ	Stability Class
07/17/84	0700	1285	35.8	A
	0800	3528	59.4	A
	0900	943	30.7	A
	1000	4176	64.6	A
	1100	1162	34.1	A
	1200	583	24.1	A
	1300	663	25.7	A
	1400	1140	33.8	A
	1500	720	26.8	A
	1600	488	22.1	B
	1700	314	17.7	B
	1800	429	20.7	B
	1900	258	16.1	C
	2000	288	17.0	C
	2100	219	14.8	C
	2200	259	16.1	C
	2300	361	19.0	B
07/18/84	0000	396	19.9	B
	0100	310	17.6	B
	0200	241	15.5	C
	0300	463	21.5	B
	0400	166	12.9	B
	0500	195	14.0	C
	0600	197	14.0	C
	0700	524	22.9	A
	0800	2639	51.4	A
	0900	1723	41.5	A
	1000	1203	34.7	A
	1100	1194	34.6	A
	1200	1297	36.0	A
	1300	1054	32.5	A
	1400	1603	40.0	A
	1500	1950	44.2	A
	1600	4416	66.5	A
	1700	509	22.6	A
	1800	149	12.2	D
	1900	151	12.3	D
	2000	136	11.7	D
	2100	378	19.4	B

Date	Hour	Wind Direction Variance (Degrees)	σ_θ	Stability Class
07/18/84	2200	302	17.4	C
	2300	285	16.9	C
07/19/84	0000	329	18.1	B
	0100	261	16.2	C
	0200	314	17.7	B
	0300	2185	46.7	A
	0400	101	10.0	D
	0500	145	12.0	D
	0600	151	12.3	D
	0700	213	14.6	C
	0800	3953	62.9	A
	0900	1315	36.3	A
	1000	1811	42.6	A
	1100	513	22.6	A
	1200	275	16.6	C
	1300	418	20.4	B
	1400	541	23.3	A
	1500	1401	37.4	A
	1600	649	25.5	A
	1700	256	16.0	C
	1800	91	9.53	D
	1900	157	12.5	C
	2000	271	16.5	C
	2100	297	17.2	C
	2200	277	16.6	C
	2300	267	16.3	C
07/20/84	0000	295	17.2	C
	0100	215	14.7	C
	0200	269	16.4	C
	0300	287	16.9	C
	0400	295	17.2	C
	0500	520	22.8	A
	0600	922	30.4	A
	0700	514	22.7	A
	0800	3929	62.7	A
	0900	4554	67.5	A
	1000	1447	38.0	A
	1100	1738	41.7	A

Date	Hour	Wind Direction Variance (Degrees)	σ_θ	Stability Class
07/20/84	1200	3062	55.3	A
	1300	1108	33.3	A
	1400	1771	42.1	A
	1500	926	30.4	A
	1600	239	15.5	C
	1700	146	12.1	D
	1800	434	20.8	B
	1900	310	17.6	B
	2000	309	17.6	B
	2100	242	15.6	C
	2200	269	16.4	C
	2300	271	16.5	C
07/21/84	0000	258	16.1	C
	0100	199	14.1	C
	0200	254	15.9	C
	0300	450	21.2	B
	0400	238	15.4	C
	0500	374	19.3	B
	0600	891	29.8	A
	0700	224	15.0	C
	0800	426	20.6	B
	0900	148	12.2	D
	1000	445	21.1	A
	1100	175	13.2	C
	1200	401	20.0	A
	1300	2109	45.9	A
	1400	791	28.1	A
	1500	2806	53.0	A
	1600	4648	68.2	A
	1700	1152	33.9	A
	1800	701	26.5	A
	1900	228	15.1	C
	2000	279	16.7	C
	2100	379	19.5	B
	2200	272	16.5	C
	2300	316	17.8	B
07/22/84	0000	380	19.5	B
	0100	301	17.3	C

Date	Hour	Wind Direction Variance (Degrees)	σθ	Stability Class
07/22/84	0200	307	17.5	B
	0300	347	18.6	B
	0400	532	23.1	A
	0500	468	21.6	B
	0600	540	23.2	A
	0700	566	23.8	A
	0800	637	25.2	A
	0900	3463	58.8	A
	1000	4424	66.5	A
	1100	2563	50.6	A
	1200	2244	47.4	A
	1300	2003	44.8	A
	1400	790	28.1	A
	1500	1478	38.4	A
	1600	490	22.1	B
	1700	645	25.4	A
	1800	1298	36.0	A
	1900	1778	42.2	A
	2000	332	18.2	B
	2100	237	15.4	C
	2200	1073	32.8	A
	2300	2397	49.0	A
07/23/84	1700	446	21.1	B
	1800	121	11.0	D
	1900	278	16.7	C
	2000	309	17.6	B
	2100	246	15.7	C
	2200	378	19.4	B
	2300	322	17.9	B
07/24/84	1100	1033	32.1	A
	1200	1281	35.8	A
	1300	1055	32.5	A
	1400	906	30.1	A
	1500	7189	84.8	A
	1600	1000	31.6	A
	1700	161	12.7	C
	1800	207	14.4	C
	1900	409	20.2	B

Date	Hour	Wind Direction Variance (Degrees)	σ_θ	Stability Class
07/24/84	2000	282	16.8	C
	2100	334	18.3	B
	2200	276	16.6	C
	2300	292	17.1	C
07/25/84	0000	263	16.2	C
	0100	294	17.1	C
	0200	278	16.7	C
	0300	314	17.7	B
	0400	282	16.8	C
	0500	237	15.4	C
	0600	303	17.4	C
	0700	358	18.9	B
	0800	537	23.2	A
	0900	822	28.7	A
	1000	956	30.9	A
	1100	3125	55.9	A
	1200	1543	39.3	A
	1300	2728	52.2	A
	1400	2655	51.5	A
	1500	1469	38.3	A
	1600	698	26.4	A
	1700	590	24.3	A
	1800	500	22.4	B
	1900	365	19.1	B
	2000	346	18.6	B
	2100	180	13.4	C
	2200	219	14.8	C
	2300	346	18.6	B
07/26/84	0000	292	17.1	C
	0100	350	18.7	C
	0200	294	17.1	C
	0300	397	19.9	B
	0400	1259	35.5	A
	0500	389	19.7	B
	0600	312	17.7	B
	0700	725	26.9	A
	0800	1676	40.9	A
	0900	6731	82.0	A

Date	Hour	Wind Direction Variance (Degrees)	σ_θ	Stability Class
07/26/84	1000	2891	53.8	A
	1100	1432	37.8	A
	1200	3746	61.2	A
	1300	2253	47.5	A
	1400	1115	33.4	A
	1500	378	19.4	B
	1600	583	24.1	A
	1700	581	24.1	A
	1800	757	27.5	A
	1900	187	13.7	C
	2000	199	14.1	C
	2100	169	13.0	C
	2200	129	11.4	D
	2300	89	9.43	D
07/27/84	0000	214	14.6	C
	0100	1566	39.6	A
	0200	1450	38.1	A
	0300	1312	36.2	A
	0400	1001	31.6	A
	0500	466	21.6	B
	0600	463	21.5	B
	0700	1140	33.8	A
	0800	619	24.9	A
	0900	415	20.4	B
	1000	591	24.3	A
	1100	678	26.0	A
	1200	1325	36.4	A
	1300	644	25.4	A
	1400	726	26.9	A
	1500	1031	32.1	A
	1600	351	18.7	B
	1700	115	10.7	D
	1800	217	14.7	C
	1900	315	17.7	B
	2000	441	21.0	B
	2100	271	16.5	C
	2200	379	19.5	B
	2300	339	18.4	B

Date	Hour	Wind Direction Variance (Degrees)	σθ	Stability Class
07/28/84	0000	422	20.5	B
	0100	445	21.1	B
	0200	387	19.7	B
	0300	3655	60.5	A
	0400	7009	83.7	A
	0500	1746	41.8	A
	0600	268	16.4	C
	0700	290	17.0	C
	0800	479	21.9	B
	0900	2978	54.6	A
	1000	2844	53.3	A
	1100	2653	51.5	A
	1200	1132	33.6	A
	1300	395	19.9	B
	1400	910	30.2	A
	1500	638	25.3	A
	1600	546	23.4	A
	1700	396	19.9	B
	1800	325	18.0	B
	1900	375	19.4	B
	2000	189	13.7	C
	2100	420	20.5	B
	2200	352	18.8	B
	2300	365	19.1	B
07/30/84	0000	185	13.6	C
	0100	335	18.3	B
	0200	420	20.5	B
	0300	390	19.7	B
	0400	1505	38.8	A
	0500	6745	82.1	A
	0600	798	28.2	A
	0700	8314	91.2	A
	0800	4460	66.8	A
	0900	1551	39.4	A
	1000	1894	43.5	A
	1100	2100	45.8	A
	1200	422	20.5	B
	1300	969	31.1	A
	1400	737	27.1	A

Date	Hour	Wind Direction Variance (Degrees)	σ_θ	Stability Class
07/30/84	1500	911	30.2	A
	1600	901	30.0	A
	1700	669	25.9	A
	1800	372	19.3	B
	1900	366	19.1	B
	2000	438	20.9	B
	2100	275	16.6	C
	2200	650	25.5	A
	2300	383	19.6	B
07/31/84	0000	416	20.4	B
	0100	450	21.2	B
	0200	319	17.9	B
	0300	348	18.7	B
	0400	928	30.5	A
	0500	222	14.9	C
	0600	294	17.1	C
	0700	1145	33.8	A
	0800	1140	33.8	A
	0900	4980	70.6	A
	1000	1228	35.0	A
	1100	2760	52.5	A
	1200	1037	32.2	A
	1300	571	23.9	A
	1400	586	24.2	A
	1500	795	28.2	A
	1600	2678	51.7	A
	1700	1454	38.1	A
	1800	1052	32.4	A
	1900	477	21.8	B
	2000	300	17.3	C
	2100	236	15.4	C
	2200	337	18.4	B
	2300	300	17.3	C
08/01/84	0000	323	18.0	B
	0100	274	16.6	C
	0200	240	15.5	C
	0300	435	20.9	B
	0400	1116	33.4	A

Date	Hour	Wind Direction Variance (Degrees)	σ_θ	Stability Class
08/01/24	0500	1211	34.8	A
	0600	1286	35.9	A
	0700	1600	40.0	A
	0800	1886	43.4	A
	0900	10623	103	A
	1000	9980	99.9	A
	1100	530	23.0	A
	1200	665	25.8	A
	1300	626	25.0	A
	1400	547	23.4	A
	1500	583	24.1	A
	1600	418	20.4	B
	1700	379	19.5	B
	1800	298	17.3	C
	1900	245	15.7	C
	2000	297	17.2	C
	2100	296	17.2	C
	2200	309	17.6	B
	2300	321	17.9	B
08/02/24	0000	255	16.0	C
	0100	212	14.6	C
	0200	220	14.8	C
	0300	228	15.1	C
	0400	411	20.3	B
	0500	989	31.4	A
	0600	808	28.4	A
	0700	1018	31.9	A
	0800	775	27.8	A
	0900	661	25.7	A
	1000	588	24.2	A
	1100	628	25.1	A
	1200	571	23.9	A
	1300	766	27.7	A
	1400	694	26.3	A
	1500	995	31.5	A
	1600	658	25.7	A
	1700	514	22.7	A
	1800	358	18.9	B
	1900	342	18.5	B

Date	Hour	Wind Direction Variance (Degrees)	σ_θ	Stability Class
08/02/84	2000	266	16.3	C
	2100	305	17.5	B
	2200	311	17.6	B
	2300	369	19.2	B
08/03/84	0000	323	18.0	B
	0100	246	15.7	C
	0200	257	16.0	C
	0300	291	17.1	C
	0400	325	18.0	B
	0500	604	24.6	A
	0600	540	23.2	A
	0700	1221	34.9	A
	0800	475	21.8	B
	0900	622	24.9	A
	1000	1834	42.8	A
	1100	1761	42.0	A
	1200	581	24.1	A
	1300	664	25.8	A
	1400	1180	34.4	A
	1500	738	27.2	A
	1600	782	28.0	A
	1700	633	25.2	A
	1800	447	21.1	B
	1900	341	18.5	B
	2000	286	16.9	C
	2100	223	14.9	C
	2200	197	14.0	C
	2300	407	20.2	B
08/04/84	0000	347	18.6	B
	0100	353	18.8	B
	0200	107	10.3	D
	0300	245	15.7	C
	0400	464	21.5	B
	0500	2575	50.7	A
	0600	3661	60.5	A
	0700	1184	34.4	A
	0800	4465	66.8	A
	0900	4468	66.8	A

Date	Hour	Wind Direction Variance (Degrees)	σ_θ	Stability Class
08/04/84	1000	2543	50.4	A
	1100	1095	33.1	A
	1200	597	24.4	A
	1300	468	21.6	B
	1400	514	22.7	A
	1500	804	28.4	A
	1600	2037	45.1	A
	1700	612	24.7	A
	1800	379	19.5	B
	1900	392	19.8	B
	2000	363	19.1	B
	2100	436	20.9	B
	2200	277	16.6	C
	2300	279	16.7	C
08/05/84	0000	348	18.7	B
	0100	376	19.4	B
	0200	283	16.8	C
	0300	452	21.3	B
	0400	497	22.3	B
	0500	459	21.4	B
	0600	2662	51.6	A
	0700	803	28.3	A
	0800	1104	33.2	A
	0900	1035	32.2	A
	1000	2515	50.1	A
	1100	812	28.5	A
	1200	747	27.3	A
	1300	405	20.1	B
	1400	481	21.9	B
	1500	499	22.3	B
	1600	601	24.5	A
	1700	434	20.8	B
	1800	344	18.5	B
	1900	356	18.9	B
	2000	307	17.5	B
	2100	254	15.9	C
	2200	421	20.5	B
	2300	374	19.3	B

Appendix H

SURFACE EMISSIONS SURVEY DATA

SURFACE CONCENTRATION INFORMATION

OPERATORS: BME INSTRUMENT TYPE: AID / Ecolyzer DATE: 6-05-84

MET CONDITIONS: warm, clear, sunny ~5mph SW wind

INSTRUMENT "ZEROES": THC ____ ppmv; Benzene -0.1 ppmv; SO_2 0.06 ppmv.

Sample No.	Area Type[1]	Site[2]	THC (ppmv) t	THC (ppmv) PK	THC (ppmv) t	THC (ppmv) SS	Benzene (ppmv) t	Benzene (ppmv) PK	Benzene (ppmv) t	Benzene (ppmv) SS	SO_2 (ppmv) t	SO_2 (ppmv) PK	SO_2 (ppmv) t	SO_2 (ppmv) SS	Field Use Time	Field Use Comments
	WP	Grid Point 22D						–		-0.1		–		0.04	1225-1231	
		21E						–		-0.2		–		0.04	1235-1243	
		20D						–		-0.3		–		0.02	1248-1256	
		20E						–		-0.4		–		0.04	1253-1257	
		21D						–		-0.4		0.08		0.04	1300-1303	
		20C						–		-0.4		–		0.06	1311-1313	No grid pt marker
		21F						–		-0.4		–		0.06	1317-1320	
		22F						–		-0.4		0.08		0.06	1323-1325	
		20F						–		-0.4		–		0.06	1331-1335	duplicate point
		20F						–		-0.4		–		0.04	~~1341-1344~~	
		22E						–		-0.4		–		0.06	1341-1344	
		nr 21½6						–		-0.3		–		0.10	1377	On waste
		nr 22G						–		-0.3		–		0.06	1379	On waste

Comment: Grid Points 21C + 22C off site, no measurements made.

[1]Area type: SU = sump; PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.

[2]Site descriptors: R12C17, Site A, Well 1, Core 1, Upst. 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site).

SURFACE CONCENTRATION INFORMATION

OPERATORS: BME INSTRUMENT TYPE: AID / ~~Intersmm~~ Ecolyzer DATE: 6-05-84

MET CONDITIONS: Hot sunny 2-5 mph West wind

INSTRUMENT "ZEROES": THC ____ ppmv; Benzene -0.2 ppmv; SO_2 0.06 ppmv.

Sample No.	Area Type[1]	Site[2]	THC (ppmv) t	THC (ppmv) PK	THC (ppmv) t	THC (ppmv) SS	Benzene (ppmv) t	Benzene (ppmv) PK	Benzene (ppmv) t	Benzene (ppmv) SS	SO_2 (ppmv) t	SO_2 (ppmv) PK	SO_2 (ppmv) t	SO_2 (ppmv) SS	Field Use Time	Field Use Comments
	WP	23D						–		-0.2		–		0.06	1435 1438	No grid pt. marker, at Fenceline
		24D						–		-0.4		–		0.12	1436 1443	No grid pt. marker, at Fenceline
		25E						–		-0.3		–		0.12	1445 1451	
		26F						–		-0.2		–		0.16	1456 1505	
		23F						–		-0.2		–		0.06	1520-1520	AID died, switch to HNU analyzer
		24E						–		0.12		–		0.08		
		24E						–		0.12		–		0.10	1535 1600	} Duplicate Pt
		23E						–		0.20		–		0.08	1614-1617	
		25F						–		0.14		–		0.08	1622-1624	
		24F						–		0.20		–		0.08	1635-	
		nr 26F						–		-0.2		–		0.12	1511	on waste pond
	V	nr 26F						–		-0.2		–		0.08	1515	on waste pond

Comment: Grid points 23C, 24C, 25C, 25D & 26E off site, no measurements made.

[1]Area type: SU = sump; PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.

[2]Site descriptors: R12C17, Site A, Well 1, Core 1, Upst. 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site).

SURFACE CONCENTRATION INFORMATION

OPERATORS: BME INSTRUMENT TYPE: HNU / Ecolyzer DATE: 6-05-84

MET CONDITIONS: Hot, sunny 5mph west wind

INSTRUMENT "ZEROES": THC ____ ppmv; Benzene 0.10 ppmv; SO_2 0.04 ppmv.

Sample No.	Area Type[1]	Site[2]	THC (ppmv) t	THC (ppmv) PK	THC (ppmv) t	THC (ppmv) SS	Benzene (ppmv) t	Benzene (ppmv) PK	Benzene (ppmv) t	Benzene (ppmv) SS	SO_2 (ppmv) t	SO_2 (ppmv) PK	SO_2 (ppmv) t	SO_2 (ppmv) SS	Field Use Time	Field Use Comments
	See map	D8						–		0.16		–		0.04	1648-1650	
		D9						–		0.09		–		0.02	1653-1656	
		E9						–		0.09		–		0.02	1657-1700	
		D10						–		0.10		–		0.08	1703-1704	
		F10						–		0.10		–		0.04	1706-1705	
		E10						–		0.10		–		0.02	1711-1714	
		7F						–		0.10		–		0.02	1716-1718	
		8E						–		0.10		–		0.02	1720-1722	
		7E						–		0.10		–		0.04	1723-1725	
		9F						–		0.10		–		0.04	1727-1729	
		8F						–		0.10		–		0.02	1731-1735	Replicate
		6F						–		0.10		–		0.02		

Comment: [illegible] off site, no measurements made.

[1]Area type: SU = sump; PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.

[2]Site descriptors: R12C17, Site A, Well 1, Core 1, Upst. 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site).

SURFACE CONCENTRATION INFORMATION

OPERATORS: BMS INSTRUMENT TYPE: HNU / Ecolyzer DATE: 6-06-84

MET CONDITIONS: cloudy, cool ; 5-10mph West to NW wind

INSTRUMENT "ZEROES": THC ____ppmv; Benzene 0.16 ppmv; SO_2 0 ppmv.

Sample No.	Area Type[1]	Site[2]	THC (ppmv) t	THC (ppmv) PK	THC (ppmv) t	THC (ppmv) SS	Benzene (ppmv) t	Benzene (ppmv) PK	Benzene (ppmv) t	Benzene (ppmv) SS	SO_2 (ppmv) t	SO_2 (ppmv) PK	SO_2 (ppmv) t	SO_2 (ppmv) SS	Field Use Time	Field Use Comments
	FY	-B						–		0.16		–		0	0922-0933	
		4B						–		0.21		–		0	0930-0940	
		4A						–		0.20		–		0	0942-0944	
		3B						–		0.16		–		0.06	0943-0947	Duplicate
		1B						–		0.19		–		0	0948-0950	
		1A						–		0.20		–		0	0951-0953	
		3C						–		0.19		–		0	0954-0957	
		3A						–		0.16		–		0	1003-1005	
		4C						–		0.14		–		0	1007-1010	
		2C						–		0.16		–		0	1014-1014	
		2A						–		0.20		–		0	1016-1020	
		3B						–		0.16		–		0	1022-1023	Duplicate
		1C						–		0.22		–		0	1023-1027	

Comment: No hot spots detected in this block

[1]Area type: SU = sump; PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.

[2]Site descriptors: R12C17, Site A, Well 1, Core 1, Upst. 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site).

SURFACE CONCENTRATION INFORMATION

OPERATORS: BME / JDW INSTRUMENT TYPE: HNU / Ecolyzer DATE: 6-06-84

MET CONDITIONS: cloudy, cool 5-10mph w-NW wind

INSTRUMENT "ZEROES": THC ____ ppmv; Benzene 0.14 ppmv; SO_2 0 ppmv.

Sample No.	Area Type[1]	Site[2]	THC (ppmv) t	THC (ppmv) PK	THC (ppmv) t	THC (ppmv) SS	Benzene (ppmv) t	Benzene (ppmv) PK	Benzene (ppmv) t	Benzene (ppmv) SS	SO_2 (ppmv) t	SO_2 (ppmv) PK	SO_2 (ppmv) t	SO_2 (ppmv) SS	Field Use Time	Field Use Comments
		10D						–		0.14		–		0	1033-1041	
		15E						–		0.19		–		0	1042-1047	
		14D						–		0.22		–		0	1049-1051	
		14E						–		0.16		–		0	1052-1056	
		15D						–		0.13		–		0	1059-1103	
		15F						–		0.15		–		0	1104-1107	
		16F						–		0.14		–		0	1108-1112	
		14F						–		0.14		–		0	1114-1118	
		16E						–		0.17		–		0	1120-1124	

Comment: 14C, 15C, 16C off site, no measurements made

[1]Area type: SU = sump; PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.

[2]Site descriptors: R12C17, Site A, Well 1, Core 1, Upst. 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site).

SURFACE CONCENTRATION INFORMATION

OPERATORS: BME / JDW INSTRUMENT TYPE: HNu / Scalyzer DATE: 6-6-84

MET CONDITIONS: warm, cloudy 5-10 mph NW wind

INSTRUMENT "ZEROES": THC ____ ppmv; Benzene 0.14 ppmv; SO_2 0 ppmv.

Sample No.	Area Type[1]	Site[2]	THC (ppmv) t	THC (ppmv) PK	THC (ppmv) t	THC (ppmv) SS	Benzene (ppmv) t	Benzene (ppmv) PK	Benzene (ppmv) t	Benzene (ppmv) SS	SO_2 (ppmv) t	SO_2 (ppmv) PK	SO_2 (ppmv) t	SO_2 (ppmv) SS	Field Use Time	Field Use Comments
	FY	4C						—		0.13		—		0	1131-1137	
		5G						—		0.12		—		0.02	1139-1142	
		2H						—		0.16		—		0	1146 1150	
		6G						—		0.17		—		0	1150-1156	
		7H						—		0.14		—		0	1157-1203	
		3H						—		0.12		—		0	1204-1208	
		4H						—		0.12		—		0	1210-1214	
		1H						—		0.20		—		0.04	1216 1220	
		3G						—		0.12		—		0.02	1224-1231	
		7G						—		0.20		—		0.02	1233 1236	
		1G						—		0.20		—		0.04	1238-1242	
		2G						—		0.22		—		0.04	1244-1248	
		6H						—		0.16		—		0.02	1251-1257	
		5H						—		0.22		—		0.02	1258-1303	[illegible]
		5H						—		0.22		—		—		

Comment:

[1]Area type: SU = sump; PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.

[2]Site descriptors: R12C17, Site A, Well 1, Core 1, Upst. 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site).

SURFACE CONCENTRATION INFORMATION

OPERATORS: BME / JDW INSTRUMENT TYPE: HNU / Analyzer DATE: 6-06-84

MET CONDITIONS: sunny, warm 5mph NW wind

INSTRUMENT "ZEROES": THC ____ ppmv; Benzene 0.14 ppmv; SO_2 0 ppmv.

Sample No.	Area Type[1]	Site[2]	THC (ppmv) t	THC (ppmv) PK	THC (ppmv) t	THC (ppmv) SS	Benzene (ppmv) t	Benzene (ppmv) PK	Benzene (ppmv) t	Benzene (ppmv) SS	SO_2 (ppmv) t	SO_2 (ppmv) PK	SO_2 (ppmv) t	SO_2 (ppmv) SS	Field Use Time	Field Use Comments
	WP	18D						—		0.38		—		0	1346-1354	
		19E						—		0.37		—		0.04	1357-1402	
		18F						—		0.37		—		0.00	1404-1410	
		17D						—		0.52		—		0.04	1413-1420	
		17E						—		0.10		—		0	1422-1430	
		18E						—		0.48		—		0.06	1431-1438	Duplicate
		19D						—		0.44		—		0.12	1440-1447	
		17F						—		0.22		—		0.08	1449-1500	
		19F						—		0.30		—		0.10	1507-1513	
		18E						—		0.00		—		0.10	1514-1520	Duplicate

Comment: 17C, 18C, 19C off site, no measurements made.

[1]Area type: SU = sump; PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.

[2]Site descriptors: R12C17, Site A, Well 1, Core 1, Upst. 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site).

SURFACE CONCENTRATION INFORMATION

OPERATORS: BME / JDW INSTRUMENT TYPE: HNU / Analyzer DATE: 6-06-84

MET CONDITIONS: Hot, clear 2 to 5 mph NW wind

INSTRUMENT "ZEROES": THC ____ ppmv; Benzene 0.14 ppmv; SO_2 0 ppmv.

Sample No.	Area Type[1]	Site[2]	THC (ppmv) t	THC (ppmv) PK	THC (ppmv) t	THC (ppmv) SS	Benzene (ppmv) t	Benzene (ppmv) PK	Benzene (ppmv) t	Benzene (ppmv) SS	SO_2 (ppmv) t	SO_2 (ppmv) PK	SO_2 (ppmv) t	SO_2 (ppmv) SS	Field Use Time	Field Use Comments
		12D						–		0.08		–		0.04	1544-1547	
		13E						–		0.10		–		0.06	1548-1554	
		12F						–		0.14		–		0.04	1556 1600	
		11D						–		0.17		–		0.06	1603-1605	
		11E						–		0.38		–		0.04	1610-1616	
		12E						–		0.33		–		0.04	1615-1624	
		13D						–		0.16		–		0.02	1625-1625	Duplicate
		11F						–		0.17		–		0.02	1631-1634	
		13F						–		0.17		–		0.02	1636-1638	
		11E						–		0.17		–		0	1640-1643	
		–						–		0.17		–		0.02	1644-1645	Upwind Pt, near fence
		18E						–		0.14		–		0	715	Control pt

Comment: 11E, 12E, 13E off site, no measurements made

[1]Area type: SU = sump; PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.

[2]Site descriptors: R12C17, Site A, Well 1, Core 1, Upst. 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site).

SURFACE CONCENTRATION INFORMATION

OPERATORS: BME INSTRUMENT TYPE: HNU / Scolyzer DATE: 6-07-84

MET CONDITIONS: Cool, Sunny 10 mph NW wind

INSTRUMENT "ZEROES": THC ____ ppmv; Benzene 0.18 ppmv; SO_2 0.02 ppmv.

Sample No.	Area Type[1]	Site[2]	THC (ppmv) t	THC (ppmv) PK	THC (ppmv) t	THC (ppmv) SS	Benzene (ppmv) t	Benzene (ppmv) PK	Benzene (ppmv) t	Benzene (ppmv) SS	SO_2 (ppmv) t	SO_2 (ppmv) PK	SO_2 (ppmv) t	SO_2 (ppmv) SS	Field Use Time	Field Use Comments
		18E						–		0.21		–		0	0912-0916	Control Point
		1E						–		0.18		–		0.02	0925-0943	
		1F						–		0.20		–		0.02	0944-0946	
		3F						–		0.20		–		0.02	0948-0950	
		4D						–		0.20		–		0.02	0955-0959	
		1D						–		0.20		–		0.02	0957-0959	
		3E						–		0.19		–		0.02	1000-1003	
		4E						–		0.18		–		0.02	1005-1007	
		3D						–		0.20		–		0.04	1009-1011	
		2D						–		0.20		–		0.02	1013-1016	
		2E						–		0.20		–		0.02	1017-1019	Duplicate
		2F						–		0.20		–		0.02	1021-1023	
		4F						–		0.20		–		0.02	1025-1027	
		4E						–		0.20		–		0.02	1029-1031	
		–						–		0.20		–		0.02	1033-1035	Upwind Pt.

Comment:

[1]Area type: SU = sump; PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.

[2]Site descriptors: R12C17, Site A, Well 1, Core 1, Upst. 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site).

SURFACE CONCENTRATION INFORMATION

OPERATORS: BMS INSTRUMENT TYPE: HNU / Ecolyzer DATE: 6-07-84

MET CONDITIONS: cool, sunny 10 mph NW wind

INSTRUMENT "ZEROES": THC ____ ppmv; Benzene ~0.18 ppmv; SO_2 0 ppmv.

Sample No.	Area Type[1]	Site[2]	THC (ppmv) t	THC (ppmv) PK	THC (ppmv) t	THC (ppmv) SS	Benzene (ppmv) t	Benzene (ppmv) PK	Benzene (ppmv) t	Benzene (ppmv) SS	SO_2 (ppmv) t	SO_2 (ppmv) PK	SO_2 (ppmv) t	SO_2 (ppmv) SS	Field Use Time	Field Use Comments
		6A						–		0.18		–		0.00	1032-1034	
		5C						–		0.20		–		0.04	1041-1043	
		6D						–		0.15		–		0.04	1045-1047	
		6C						–		0.17		–		0.02	1049-1051	
		6F						–		0.15		–		0.04	1053-1055	
		7D						–		0.16		–		0.04	1058-1100	No grid marker
		5E						–		0.17		–		0.04	1107-1109	
		5D						–		0.17		–		0.04	1109-1111	
		5B						–		0.20		–		0.04	1114-1116	
		7C						–		0.20		–		0.06	1115-1120	No grid marker
		5A						–		0.19		–		0.04	1122-1124	
		6B						–		0.22		–		0.06	1126-1128	
		5F						–		0.18		–		0.06	1133-1135	
		5E						–		0.14		–		0.06	1137-1139	Duplicate
		5F						–		0.19		–		0.06	1141-1143	
		–						–		0.20		–		0.04	1145-1147	[illegible] pt
		18E						–		0.16		–		0.04	1153-1157	[illegible] pt

Comment:

[1]Area type: SU = sump; PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.

[2]Site descriptors: R12C17, Site A, Well 1, Core 1, Upst. 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site).

SURFACE FLUX EMISSION INFORMATION

Blank

OPERATORS: BMS INSTRUMENT TYPE: Ecolyzer, AID DATE: 6-07-84

MET CONDITIONS: Hot

INSTRUMENT "ZEROES": THC — ppmv; Benzene 0.1 ppmv; SO_2 0 ppmv.

Grid Point

Sample No.	Area Type[1]	Site[2]	Flow Rate (LPM)	THC (ppmv) t	THC (ppmv) PK	THC (ppmv) t	THC (ppmv) SS	Benzene (ppmv) t	Benzene (ppmv) PK	Benzene (ppmv) t	Benzene (ppmv) SS	SO_2 (ppmv) t	SO_2 (ppmv) PK	SO_2 (ppmv) t	SO_2 (ppmv) SS	Field Use t(min)	Field Use Time	Field Use Comment
	Blank		7.6								—				—	0	1550	Blank Point
			"								—				—	1	1554	Temp=29°C
			"								7.8				0.04	2	1558	ΔP=0
			"								6.5				0.04	3	1602	
			"								6.0				0.02	4	1606	Temp=29°C, ΔP=0
			"								5.4				0.02	5	1610	
			7.6								4.5				0.04	0	1616	New Blank After cleaning chamber
			"								4.5				0.04	1	1620	
			"								4.5				0.04	2	1624	
			"								4.4				0.02	3	1628	

Comment: New lines. Test performed on paper towel covered table.

[1]Area types: SU = sump, PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.

[2]Site descriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site).

SURFACE FLUX EMISSION INFORMATION

OPERATORS: BME INSTRUMENT TYPE: Ecolyzer, AID DATE: 6-07-84

MET CONDITIONS: Hot, sunny, 5mph NW wind

INSTRUMENT "ZEROES": THC ____ ppmv; Benzene 0.1 ppmv; SO_2 0.04 ppmv.

Sample No.	Area Type[1]	Site[2]	Flow Rate (LPM)	THC (ppmv) t	THC (ppmv) PK	THC (ppmv) t	THC (ppmv) SS	Benzene (ppmv) t	Benzene (ppmv) PK	Benzene (ppmv) t	Benzene (ppmv) SS	SO_2 (ppmv) t	SO_2 (ppmv) PK	SO_2 (ppmv) t	SO_2 (ppmv) SS	Field Use τ(min)	Field Use Time	Field Use Comment
	FY		7.6								3.9				0.04	0	1636	Gridpoint 26
											3.8				0.10	1	1640	Air Temp = 35°C in chamber
											3.1				0.04	2	1644	
				Emissions		survey					1.1				0.06	3	1648	← Mide sampling system closed
				Ecolyzer		HNU					0.6				0.04	4	1652	
				0.04		0.21												
											0.5				0.04	0	1656	Duplicate
											0.5				0.04	1	1700	
											0.4				0.04	2	1704	
											0.4				0.04	3	1708	

Comment: Gridpoint 26 Sandy soil

[1]Area types: SU = sump, PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.

[2]Site descriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site).

SURFACE FLUX EMISSION INFORMATION

OPERATORS: BME INSTRUMENT TYPE: Ecolyzer, AID DATE: 6-07-84

MET CONDITIONS:

INSTRUMENT "ZEROES": THC ____ ppmv; Benzene 0.1 ppmv; SO_2 0.04 ppmv.

Sample No.	Area Type[1]	Site[2]	Flow Rate (LPM)	THC (ppmv) t	THC (ppmv) PK	THC (ppmv) t	THC (ppmv) SS	Benzene (ppmv) t	Benzene (ppmv) PK	Benzene (ppmv) t	Benzene (ppmv) SS	SO_2 (ppmv) t	SO_2 (ppmv) PK	SO_2 (ppmv) t	SO_2 (ppmv) SS	Field Use τ(min)	Field Use Time	Field Use Comment
	FY		7.6		Emissions Survey						0.6				0.06	0	1720	Gridpoint 3F
											0.4				0.06	1	1724	Temp=29°, ΔP=0
					SO_2 0.06		HNU 0.15				0.4				0.06	2	1728	
											0.3				0.04	3	1732	Temp=30°, ΔP=0
											0.3				0.06	4	1736	

Comment: Gridpoint 3F Sandy soil

[1]Area types: SU = sump, PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.

[2]Site descriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site).

SURFACE FLUX EMISSION INFORMATION

OPERATORS: BME INSTRUMENT TYPE: Ecolyzer, AID DATE: 6-08-84

MET CONDITIONS: Clear, hot, 5mph NW wind

INSTRUMENT "ZEROES": THC ____ ppmv; Benzene 0.4 ppmv; SO_2 0.02 ppmv.

Sample No.	Area Type[1]	Site[2]	Flow Rate (LPM)	THC (ppmv) t	THC (ppmv) PK	THC (ppmv) t	THC (ppmv) SS	Benzene (ppmv) t	Benzene (ppmv) PK	Benzene (ppmv) t	Benzene (ppmv) SS	SO_2 (ppmv) t	SO_2 (ppmv) PK	SO_2 (ppmv) t	SO_2 (ppmv) SS	Field Use τ(min)	Field Use Time	Field Use Comment
	~~SU~~ SU4		7.6								0.4				0.02	0	0950	
											-0.1				0.02	1	0954	Temp=28°, ΔP=0
											-0.1				0.06	2	0958	
											0.0				0.02	3	1002	
											0.0				0.06	4	1006	Temp=35° ΔP=0
Duplicate pt	SU	4	7.6		Emissions Survey						0.0				0.06	0	1008	Temp=35½
											0.0				0.06	1	1012	ΔP=0
					SO_2 0.06		HNU 0.18				0.0				0.06	2	1016	
											0.0				0.08	3	1020	
											0.0				0.08	4	1024	Temp=36, ΔP=0

Comment: About 6' west of stake 6H on small dark, oily soil patch

[1]Area types: SU = sump, PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.

[2]Site descriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site).

SURFACE FLUX EMISSION INFORMATION

OPERATORS: BME INSTRUMENT TYPE: Ecolyzer PID DATE: 6-08-84

MET CONDITIONS: Clear & warm

INSTRUMENT "ZEROES": THC ____ ppmv; Benzene -0.1 ppmv; SO_2 0.06 ppmv.

Sample No.	Area Type[1]	Site[2]	Flow Rate (LPM)	THC (ppmv) t	THC (ppmv) PK	THC (ppmv) t	THC (ppmv) SS	Benzene (ppmv) t	Benzene (ppmv) PK	Benzene (ppmv) t	Benzene (ppmv) SS	SO_2 (ppmv) t	SO_2 (ppmv) PK	SO_2 (ppmv) t	SO_2 (ppmv) SS	Field Use τ(min)	Field Use Time	Field Use Comment
	SU	2	7.6								-0.1				0.06	0	1034	
			↓		Emissions Survey						-0.1				0.10	1	1038	Temp=36°C, ΔP=0
					SO_2 0.06		HNU =0.14				-0.1				0.08	2	1042	
											-0.1				0.08	3	1046	
											-0.1				0.10	4	1050	Temp=39°C ΔP=0

Comment: Located ½ way between line from 3G to 4G and east ~ 6' of that line. Surface is rocky soil in the middle of depression

[1]Area types: SU = sump, PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.

[2]Site descriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site).

SURFACE FLUX EMISSION INFORMATION

OPERATORS: BME INSTRUMENT TYPE: Ecolyzer AID DATE: 6-08-84

MET CONDITIONS: SAME

INSTRUMENT "ZEROES": THC — ppmv; Benzene ~~0.0~~ 0.4 ppmv; SO_2 0.08 ppmv.

Sample No.	Area Type[1]	Site[2]	Flow Rate (LPM)	THC (ppmv) t	THC (ppmv) PK	THC (ppmv) t	THC (ppmv) SS	Benzene (ppmv) t	Benzene (ppmv) PK	Benzene (ppmv) t	Benzene (ppmv) SS	SO_2 (ppmv) t	SO_2 (ppmv) PK	SO_2 (ppmv) t	SO_2 (ppmv) SS	Field Use τ(min)	Field Use Time	Field Use Comment
	SU	7	7.6								0.0				0.08	0	1108	Temp=30° ΔP=0
											-0.1				0.06	1	1112	
					Emission		Survey				0.0				0.06	2	1116	
					SO_2		HNU											
					0.06		0.14				—				0.06	3	1120	AIDS OUT OF SERVICE
											—				0.06	4	1124	(NEEDS charge)
											1.0				0.08	7	1136	New AIDS Ambient = 0.4
											1.1				0.08	8	1140	
											1.1				0.08	9	1144	Temp=36°, ΔP=0
											0.4				0.08	10	1148	
											(0.0)				(0.06)	11	1152	Impeller Fixed

Comment: Between 5E & 6E, Impeller motor needs new lead. Radios affect the Ecolyzer read-out. Surface is soil.

[1]Area types: SU = sump, PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.

[2]Site descriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site).

SURFACE FLUX EMISSION INFORMATION

OPERATORS: BME INSTRUMENT TYPE: Ecolyzer AID DATE: 6-08-84

MET CONDITIONS: wind 5-10mph North clear + sunny 80°F

INSTRUMENT "ZEROES": THC ___ ppmv; Benzene 0.4 ppmv; SO_2 0.6 ppmv.

Sample No.	Area Type[1]	Site[2]	Flow Rate (LPM)	THC (ppmv) t	THC (ppmv) PK	THC (ppmv) t	THC (ppmv) SS	Benzene (ppmv) t	Benzene (ppmv) PK	Benzene (ppmv) t	Benzene (ppmv) SS	SO_2 (ppmv) t	SO_2 (ppmv) PK	SO_2 (ppmv) t	SO_2 (ppmv) SS	Field Use τ(min)	Field Use Time	Field Use Comment
	SU	6	7.6								0				0.08	0	1158	
			↓								-0.7				0.08	1	1202	Temp = 34, ΔP = 0
											-0.7				0.08	2	1206	
											-0.7				0.10	3	1210	
											-0.7				0.08	4	1214	Temp = 39°, ΔP = 0 in chamber

Comment: Gridpoint 6E. Sampling surface is hardpacked soil.

[1]Area types: SU = sump, PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.

[2]Site descriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site).

SURFACE FLUX EMISSION INFORMATION

OPERATORS: BAE INSTRUMENT TYPE: Ecolyzer, AID DATE: 6-08-84
MET CONDITIONS: SAME
INSTRUMENT "ZEROES": THC ____ ppmv; Benzene 0.0 ppmv; SO_2 0.02 ppmv.

Sample No.	Area Type[1]	Site[2]	Flow Rate (LPM)	THC (ppmv) t	THC (ppmv) PK	THC (ppmv) t	THC (ppmv) SS	Benzene (ppmv) t	Benzene (ppmv) PK	Benzene (ppmv) t	Benzene (ppmv) SS	SO_2 (ppmv) t	SO_2 (ppmv) PK	SO_2 (ppmv) t	SO_2 (ppmv) SS	Field Use τ(min)	Field Use Time	Field Use Comment
	SU	8									0.00				0.10	0	1219	
					EMISSION		SURVEY				0.6				0.12	1	1223	Temp=36° ΔP=0
					SO_2		HNU				1.3				0.12	2	1227	
					0.02		0.12				1.7				0.12	3	1231	Temp=39° ΔP=0
											1.9				0.12	4	1235	
											2.0				0.12	5	1239	

Comment: At Gridpoint 7C, behind storage tanks. Surface is sandy soil.

[1]Area types: SU = sump, PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.
[2]Site descriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site).

SURFACE FLUX EMISSION INFORMATION

OPERATORS: BMS INSTRUMENT TYPE: Ecolyzer AID DATE: 6-08-84

MET CONDITIONS: SAME

INSTRUMENT "ZEROES": THC ____ ppmv; Benzene 0.0 ppmv; SO_2 0.00 ppmv.

Sample No.	Area Type[1]	Site[2]	Flow Rate (LPM)	THC (ppmv) t	THC (ppmv) PK	THC (ppmv) t	THC (ppmv) SS	Benzene (ppmv) t	Benzene (ppmv) PK	Benzene (ppmv) t	Benzene (ppmv) SS	SO_2 (ppmv) t	SO_2 (ppmv) PK	SO_2 (ppmv) t	SO_2 (ppmv) SS	Field Use τ(min)	Field Use Time	Field Use Comment
	SU	5	7.6								—				—	0	1246	
					Emission survey						0.0				0.20	1	1250	Temp = 39, ΔP = +0.12
					SO_2		HNU				0.3				0.32	2	1254	ΔP = +0.11
					0.04		0.12				0.5				0.36	3	1258	
P001											0.6				0.40	4	1302	
Gas Canister																		

Comment: Sampling surface is moist waste. Nr 6B, west ~8'

[1]Area types: SU = sump, PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.

[2]Site descriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site).

SURFACE FLUX EMISSION INFORMATION

OPERATORS: BME INSTRUMENT TYPE: Ecolyzer AID DATE: 6-08-84
MET CONDITIONS: Shade
INSTRUMENT "ZEROES": THC ____ ppmv; Benzene 0.4 ppmv; SO_2 0.00 ppmv.

Sample No.	Area Type[1]	Site[2]	Flow Rate (LPM)	THC (ppmv) t	THC (ppmv) PK	THC (ppmv) t	THC (ppmv) SS	Benzene (ppmv) t	Benzene (ppmv) PK	Benzene (ppmv) t	Benzene (ppmv) SS	SO_2 (ppmv) t	SO_2 (ppmv) PK	SO_2 (ppmv) t	SO_2 (ppmv) SS	Field Use τ(min)	Field Use Time	Field Use Comment
	Blank		7.6								-0.7				0.14	0	1320	
											-0.3				0.14	1	1324	
											-0.2				0.10	2	1328	Temp=37, ΔP=0
											-0.2				0.10	3	1332	
											-0.2				0.10	4	1336	Temp=37, ΔP=0
											-0.2				0.06	8	1352	

Comment:

[1]Area types: SU = sump, PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.
[2]Site descriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site).

SURFACE FLUX EMISSION INFORMATION

OPERATORS: BMS INSTRUMENT TYPE: Ecolyzer, AID DATE: 6-08-84

MET CONDITIONS: SAME

INSTRUMENT "ZEROES": THC ____ ppmv; Benzene [illegible] ppmv; SO_2 [illegible] ppmv.

Sample No.	Area Type[1]	Site[2]	Flow Rate (LPM)	THC (ppmv) t	THC (ppmv) PK	THC (ppmv) t	THC (ppmv) SS	Benzene (ppmv) t	Benzene (ppmv) PK	Benzene (ppmv) t	Benzene (ppmv) SS	SO_2 (ppmv) t	SO_2 (ppmv) PK	SO_2 (ppmv) t	SO_2 (ppmv) SS	Field Use τ(min)	Field Use Time	Field Use Comment
	FY		7.6								-0.5				0	0	1357	
											-0.5				0.08	1	1401	
											-0.7				0.08	2	1404	
											-0.7				0.08	3	1408	
											-0.6				0.12	4	1412	Temp: 45°C ΔP=0

Comment: Background pt. GP 2H

[1]Area types: SU = sump, PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.

[2]Site descriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site).

SURFACE FLUX EMISSION INFORMATION

Control Pt.

OPERATORS: BME INSTRUMENT TYPE: Ecolyzer, PID DATE: 6-08-84

MET CONDITIONS: Hot, sunny, 5mph NW wind

INSTRUMENT "ZEROES": THC ____ ppmv; Benzene 0.8 ppmv; SO_2 0.02 ppmv.

Sample No.	Area Type[1]	Site[2]	Flow Rate (LPM)	THC (ppmv) t	THC (ppmv) PK	THC (ppmv) t	THC (ppmv) SS	Benzene (ppmv) t	Benzene (ppmv) PK	Benzene (ppmv) t	Benzene (ppmv) SS	SO_2 (ppmv) t	SO_2 (ppmv) PK	SO_2 (ppmv) t	SO_2 (ppmv) SS	Field Use τ(min)	Field Use Time	Field Use Comment
	WP		7.6													0	1454	
																1	1458	
					Emissions Survey											2	1502	
											-1.3				0	3	1506	Temp=43°, ΔP=0.005
					SO2		HNU				-1.4				0.06	4	1510	
					0.02		0.14				-1.3				0.08	5	1514	
					Surface Temp						-1.3				0.08	6	1518	
					39													

Comment: GP 18E, Soil at surface

[1]Area types: SU = sump, PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.

[2]Site descriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site).

SURFACE FLUX EMISSION INFORMATION

OPERATORS: BME INSTRUMENT TYPE: Ecolyzer, AID DATE: 6-08-84

MET CONDITIONS: Hot sunny NW breeze

INSTRUMENT "ZEROES": THC ____ ppmv; Benzene-0.8 ppmv; SO_2 0.04 ppmv.

Sample No.	Area Type[1]	Site[2]	Flow Rate (LPM)	THC (ppmv) t	THC (ppmv) PK	THC (ppmv) t	THC (ppmv) SS	Benzene (ppmv) t	Benzene (ppmv) PK	Benzene (ppmv) t	Benzene (ppmv) SS	SO_2 (ppmv) t	SO_2 (ppmv) PK	SO_2 (ppmv) t	SO_2 (ppmv) SS	Field Use τ(min)	Field Use Time	Field Use Comment
	Pit	3	7.6								-0.8				0.04	0	1536	
					Emissions		Survey				-0.9				0.10	1	1540	Air Temp in chamber = 40 ΔP=0
					SO_2		HNU				-0.7				0.10	2	1544	
					0.04		0.16				-0.6				0.10	3	1548	
											-0.5				0.10	4	1552	

Comment: Grid Pt 10D, vegetated Soil

[1]Area types: SU = sump, PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.

[2]Site descriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site).

SURFACE FLUX EMISSION INFORMATION

OPERATORS: BME INSTRUMENT TYPE: Analyzer AID DATE: 6-08-84
MET CONDITIONS: 5-10mph NW wind
INSTRUMENT "ZEROES": THC ____ ppmv; Benzene -0.7 ppmv; SO_2 ____ ppmv.

Sample No.	Area Type[1]	Site[2]	Flow Rate (LPM)	THC (ppmv) t	THC (ppmv) PK	THC (ppmv) t	THC (ppmv) SS	Benzene (ppmv) t	Benzene (ppmv) PK	Benzene (ppmv) t	Benzene (ppmv) SS	SO_2 (ppmv) t	SO_2 (ppmv) PK	SO_2 (ppmv) t	SO_2 (ppmv) SS	Field Use ?(min)	Field Use Time	Field Use Comment
	PIT	2	7.6								—				—	0	1601	
				Emission							0.0				0.70	1	1605	Temp=110 ΔP=+.005
				Survey							8.8*				0.36	2	1609	Temp=112
				SO_2		HNU					7.2				0.20	3	1613	Temp=113, ΔP=+.005
				0.04		0.14					4.2				0.12	4	1618	
PO2 Gas Canister																5	1622	

Comment: 8' North of gridpt 11E on moist, oily waste

[1]Area types: SU = sump, PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.
[2]Site descriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site).

* Switch to open ended exit line. Positive pressure in chamber ⇒ more exit gas & possible pressurizing of analyzers

SURFACE FLUX EMISSION INFORMATION

OPERATORS: BME INSTRUMENT TYPE: Ecolyzer, AID DATE: 6-08-84

MET CONDITIONS: warm, sunny NW wind ~5mph

INSTRUMENT "ZEROES": THC ____ ppmv; Benzene 0.1 ppmv; SO_2 0 ppmv.

Sample No.	Area Type[1]	Site[2]	Flow Rate (LPM)	THC (ppmv) t	THC (ppmv) PK	THC (ppmv) t	THC (ppmv) SS	Benzene (ppmv) t	Benzene (ppmv) PK	Benzene (ppmv) t	Benzene (ppmv) SS	SO_2 (ppmv) t	SO_2 (ppmv) PK	SO_2 (ppmv) t	SO_2 (ppmv) SS	Field Use τ(min)	Field Use Time	Field Use Comment
			7.6								3.3				0.06	0	1656	
			↓								3.4				0.06	1	1700	Temp=35 ΔP=0
					Emissions		Survey				3.2				0.06	2	1704	
					SO_2		HNU				2.8				0.06	3	1708	
P003					0.02		0.10				2.8				0.06	4	1712	
Gas Canister																		

Comment: 8' west & 3' North of Grid Pt 8F on small hard waste patch

[1]Area types: SU = sump, PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.

[2]Site descriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site).

Need to keep end of exit line uncapped to get most accurate readings

SURFACE FLUX EMISSION INFORMATION

OPERATORS: BME INSTRUMENT TYPE: Ecolyzer DATE: 6-09-84

MET CONDITIONS: Clear, sunny, 2mph N'W wind

INSTRUMENT "ZEROES": THC ____ ppmv; Benzene -0.1 ppmv; SO_2 0.04 ppmv.

Sample No.	Area Type[1]	Site[2]	Flow Rate (LPM)	THC (ppmv) t	THC (ppmv) PK	THC (ppmv) t	THC (ppmv) SS	Benzene (ppmv) t	Benzene (ppmv) PK	Benzene (ppmv) t	Benzene (ppmv) SS	SO_2 (ppmv) t	SO_2 (ppmv) PK	SO_2 (ppmv) t	SO_2 (ppmv) SS	Field Use t(min)	Field Use Time	Field Use Comment
	Pit	1	5.28								—				—	0	0938	
			↓								-0.1				0.04	1	0944	Temp=37°C, ΔP=0
											-0.2				0.06	2	0950	Temp=38, ΔP=0
											0.2				0.06	3	0956	
					Emissions		Survey				-0.2				0.06	4	1002	Temp=40, ΔP=0
			↓		SO_2		HNV											
					0.06		0.20											
			40cm rota															

Comment: GridPt 22D, oilypatch

[1]Area types: SU = sump, PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.

[2]Site descriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site).

CONTROL PT

SURFACE FLUX EMISSION INFORMATION

OPERATORS: BME INSTRUMENT TYPE: Ecolyzer, AID DATE: 6-09-84

MET CONDITIONS: 5mph NW wind warm, sunny

INSTRUMENT "ZEROES": THC ____ ppmv; Benzene -0.[illegible] ppmv; SO_2 0.[illegible] ppmv.

Sample No.	Area Type[1]	Site[2]	Flow Rate (LPM)	THC (ppmv) t	THC (ppmv) PK	THC (ppmv) t	THC (ppmv) SS	Benzene (ppmv) t	Benzene (ppmv) PK	Benzene (ppmv) t	Benzene (ppmv) SS	SO_2 (ppmv) t	SO_2 (ppmv) PK	SO_2 (ppmv) t	SO_2 (ppmv) SS	Field Use τ(min)	Field Use Time	Field Use Comment
	WP		5.28								-0.6				0.02	0	1019	
					Emissions		Survey				-0.9				0.06	1	1025	Temp=35°C, ΔP=0
					SO_2		HNU				-0.9				0.06	2	1031	
					0.06		0.19				-0.8				0.06	3	1037	Temp=37°C, ΔP=0
																~~4~~	~~1043~~	

Comment: GP 18E

[1]Area types: SU = sump, PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.

[2]Site descriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site).

SURFACE FLUX EMISSION INFORMATION

OPERATORS: BME INSTRUMENT TYPE: Ecolyzer, AID DATE: 6-09-84
MET CONDITIONS: SAME AS For Sheet Before
INSTRUMENT "ZEROES": THC ____ ppmv; Benzene -0.1 ppmv; SO_2 ____ ppmv.

Sample No.	Area Type[1]	Site[2]	Flow Rate (LPM)	THC (ppmv) t	THC (ppmv) PK	THC (ppmv) t	THC (ppmv) SS	Benzene (ppmv) t	Benzene (ppmv) PK	Benzene (ppmv) t	Benzene (ppmv) SS	SO_2 (ppmv) t	SO_2 (ppmv) PK	SO_2 (ppmv) t	SO_2 (ppmv) SS	Field Use τ(min)	Field Use Time	Field Use Comment
	Pit	1	5.28								-0.5				0.06	0	1042	
				Emission		Survey					-0.6				0.06	1	1048	Temp=39°C, ΔP=0
				SO_2		HNU					-0.5				0.06	2	1054	
				0.06		0.18					-0.5				0.06	3	1100	
											-0.5				0.06	4	1106	
											-0.6				0.06	5	1112	Temp=39°C, ΔP=0

Comment: Grid A4 18D, Surface is dried mud

[1]Area types: SU = sump, PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.
[2]Site descriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site).

SURFACE FLUX EMISSION INFORMATION

OPERATORS: PME INSTRUMENT TYPE: Ecolyzer, AID DATE: 6-09-84
MET CONDITIONS: SAME
INSTRUMENT "ZEROES": THC ____ ppmv; Benzene -0.1 ppmv; SO_2 0.00 ppmv.

Sample No.	Area Type[1]	Site[2]	Flow Rate (LPM)	THC (ppmv) t	THC (ppmv) PK	THC (ppmv) t	THC (ppmv) SS	Benzene (ppmv) t	Benzene (ppmv) PK	Benzene (ppmv) t	Benzene (ppmv) SS	SO_2 (ppmv) t	SO_2 (ppmv) PK	SO_2 (ppmv) t	SO_2 (ppmv) SS	Field Use τ(min)	Field Use Time	Field Use Comment
	Pit	2	5.28								-0.4				0.10	0	1129	ΔP=0
					EMISSIONS SURVEY						-1.0				0.10	1	1135	Air Temp=30°(AMBIENT)
					SO_2		HNU				-0.9				0.10	2	1141	Chamber Temp=48°C, ΔP=0
					0.06		0.18				-0.9				0.10	13	1147	" " =50°, ΔP=0

Comment: Grid Pt 13E. Sampling Pt is vegetated.

[1]Area types: SU = sump, PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.
[2]Site descriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site).

SURFACE FLUX EMISSION INFORMATION

OPERATORS: BME INSTRUMENT TYPE: Ecolyzer, AID DATE: 6-09-84

MET CONDITIONS: Hot, Sunny

INSTRUMENT "ZEROES": THC / ppmv; Benzene -0.1 ppmv; SO_2 0.0 ppmv.

Sample No.	Area Type[1]	Site[2]	Flow Rate (LPM)	THC (ppmv) t	THC (ppmv) PK	THC (ppmv) t	THC (ppmv) SS	Benzene (ppmv) t	Benzene (ppmv) PK	Benzene (ppmv) t	Benzene (ppmv) SS	SO_2 (ppmv) t	SO_2 (ppmv) PK	SO_2 (ppmv) t	SO_2 (ppmv) SS	Field Use τ(min)	Field Use Time	Field Use Comment
	Blank										-0.4				0.06	0	1200	
											—				—	1	1206	
											-0.2				0.10	2	1212	Temp=40°, ΔP=0
											-0.2				0.10	3	1218	
											-0.2				0.10	4	1224	

Comment: Paper towels on table for sampling surface

[1]Area types: SU = sump, PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.

[2]Site descriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site).

SURFACE FLUX EMISSION INFORMATION

OPERATORS: BME INSTRUMENT TYPE: Ecolyzer, AID DATE: 6-09-84

MET CONDITIONS: Hot, sunny

INSTRUMENT "ZEROES": THC ____ ppmv; Benzene -0.1 ppmv; SO_2 ____ ppmv.

Sample No.	Area Type[1]	Site[2]	Flow Rate (LPM)	THC (ppmv) t	THC (ppmv) PK	THC (ppmv) t	THC (ppmv) SS	Benzene (ppmv) t	Benzene (ppmv) PK	Benzene (ppmv) t	Benzene (ppmv) SS	SO_2 (ppmv) t	SO_2 (ppmv) PK	SO_2 (ppmv) t	SO_2 (ppmv) SS	Field Use ?(min)	Field Use Time	Field Use Comment
	Background	Pt.									-0.5				0.12	0	1226	
											—				—	1	1232	
											-0.4				0.14	2	1238	
											—				—	3	1244	
											0.4				0.24	4	1250	Temp: 36°, ΔP=0

Comment: Background Pt, 2H on grid

[1]Area types: SU = sump, PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.

[2]Site descriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site).

SURFACE FLUX EMISSION INFORMATION

OPERATORS: BME INSTRUMENT TYPE: Ecolyzer, AID DATE: 6-09-84

MET CONDITIONS: Hot, sunny, 5mph NW wind

INSTRUMENT "ZEROES": THC ____ ppmv; Benzene -0.1 ppmv; SO_2 0.01 ppmv.

Sample No.	Area Type[1]	Site[2]	Flow Rate (LPM)	THC (ppmv) t	THC (ppmv) PK	THC (ppmv) t	THC (ppmv) SS	Benzene (ppmv) t	Benzene (ppmv) PK	Benzene (ppmv) t	Benzene (ppmv) SS	SO_2 (ppmv) t	SO_2 (ppmv) PK	SO_2 (ppmv) t	SO_2 (ppmv) SS	Field Use τ(min)	Field Use Time	Field Use Comment
	SU	3	5.28								—				—	0	1326	
			↓								-0.6				0.04	1	1332	Temp=48½°, ΔP=0
											-0.7				0.10	2	1338	
											-0.6				0.08	3	1344	
											—				—	4	1350	
			↓								-0.3				0.10	6	1402	Temp=52°, ΔP=0
Duplicate Point	SU	3	5.28								-0.1				0.10	0	1404	
			↓								0.0				0.10	1	1410	Temp=51°, ΔP=+.01"H_2O
											0.0				0.10	2	1416	
											—				—	3	1422	
			↓								0.1				0.10	4	1428	Temp=52°, ΔP=.01"H_2O

Comment: On dry crust over liquid waste. Away between GE & 7E & south of that line ~12' in sump

[1]Area types: SU = sump, PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.

[2]Site descriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site).

Tested area around sampling pt with OVA and saw no emissions on surface and only 3-4 ppm if you stirred the waste vigorously. Area has a slight heavy oil smell.

SURFACE FLUX EMISSION INFORMATION

OPERATORS: BMS INSTRUMENT TYPE: Ecolyzer, AID DATE: 6-09-84
MET CONDITIONS: Hot, sunny, light NW breeze
INSTRUMENT "ZEROES": THC ___ ppmv; Benzene -0.5 ppmv; SO_2 0.00 ppmv.

Sample No.	Area Type[1]	Site[2]	Flow Rate (LPM)	THC (ppmv) t	THC (ppmv) PK	THC (ppmv) t	THC (ppmv) SS	Benzene (ppmv) t	Benzene (ppmv) PK	Benzene (ppmv) t	Benzene (ppmv) SS	SO_2 (ppmv) t	SO_2 (ppmv) PK	SO_2 (ppmv) t	SO_2 (ppmv) SS	Field Use t(min)	Field Use Time	Field Use Comment
	SU	1	5.28								—				—	0	1452	
											0.0				0.10	1	1458	Temp=40, ΔP=0
											0.0				0.10	2	1504	"
											0.0				0.10	3	1510	Temp=43, "
											-0.1				0.08	4	1516	"
											-0.1				0.08	5	1522	

Comment: Nr gridpoint 8F on tar-like waste. Repeat of yesterday's point

[1]Area types: SU = sump, PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.
[2]Site descriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site).

RESULTS OF CANISTER SPECIATION SURFACE EMISSION NEAR GRID POINT B6

SITE
MASTER LOG NO: 8-001
SAMPLE TYPE: GAS CANISTER

SAMPLING TECHNIQUE: FLUX CHAMBER

DATE SAMPLED:
DATE ANALYZED: 06/14/84

COMPOUND	CONCENTRATION (PPBV-C)	CONCENTRATION (UG/M**3)
PARAFFINS		
C-2 VOC	247.8	142.4
C-3 VOC	81.3	46.7
ISOBUTANE	3.4	2.0
N-BUTANE	38.4	22.8
ISOPENTANE	3.9	2.2
N-PENTANE	19.1	11.3
CYCLOPENTANE	3.0	1.7
2,3-DIMETHYLBUTANE	3.7	2.2
ISOHEXANE	3.7	2.2
N-HEXANE	18.5	10.9
2,4-DIMETHYLPENTANE	5.7	3.3
CYCLOHEXANE	4.5	2.4
ISOHEPTANE	5.7	3.3
2,2,4-TRIMETHYLPENTANE	21.5	12.6
N-HEPTANE	15.2	9.5
METHYLCYCLOHEXANE	5.8	3.3
2,5-DIMETHYLHEXANE	1.5	0.9
2,3,4-TRIMETHYLPENTANE	62.7	36.6
3,5,5-TRIMEHEXANE	11.9	7.7
3-METHYLHEPTANE	6.9	4.0
N-OCTANE	9.7	5.7
N-NONANE	15.2	8.9
N-DECANE	12.3	7.2
N-UNDECANE	43.4	25.2
C7 ALKANE	3.1	1.8
C7 ALKANE	4.1	2.4
C8 ALKANE	2.6	1.5
C8 ALKANE	8.4	4.9
C8 ALKANE	5.9	3.4
C9 ALKANE	1.9	1.1
C9 ALKANE	9.0	5.2
C9 ALKANE	10.8	6.3
C9 ALKANE	10.5	6.1
C9 ALKANE	3.5	2.0
C10+ ALKANE	8.5	4.9
C10+ ALKANE	13.2	7.7
C10+ ALKANE	5.7	3.3
C10+ ALKANE	21.5	12.5
C10+ ALKANE	14.2	8.3
OLEFINS		
ISOBUTENE + 1-BUTENE	112.6	64.6
1-PENTENE	16.7	9.6
ISOPRENE	3.7	2.1
ACETONITRILE	4.9	3.2
T-2-PENTENE	4.7	2.7
1-HEXENE	26.5	15.2
T-2-HEXENE	8.5	4.9
2,4,4-TRIME-1-PENTENE	7.7	4.4
2,4,4-TRIME-2-PENTENE	4.1	2.4
1-METHYLCYCLOHEXENE	4.0	2.2
1-OCTENE	9.8	5.6
1-NONENE	5.0	2.9
A-PINENE	4.3	2.4
B-PINENE	13.6	7.6
1-DECENE	10.3	5.9
1-UNDECENE	17.5	10.0
C6 ALKENE	12.6	7.2
C7 ALKENE	8.5	4.8
C9 ALKENE	4.7	2.7
C9 ALKENE	7.4	4.2
C10+ ALKENE	3.3	1.9
C10+ ALKENE	7.7	4.4
C10+ ALKENE	4.8	2.8
C10+ ALKENE	2.7	1.5
C10+ ALKENE	7.7	4.4
C10+ ALKENE	7.5	4.3
C10+ ALKENE	13.7	7.9
C10+ ALKENE	38.6	22.1
C10+ ALKENE	15.2	8.7
C10+ ALKENE	23.6	13.5
TOTAL AROMATICS		
BENZENE	32.0	17.9
TOLUENE	11.4	6.1
ETHYLBENZENE	411.2	223.3
P-XYLENE/M-XYLENE	1792.3	973.1
O-XYLENE	609.1	330.7
ISOPROPYLBENZENE	14.2	7.8
N-PROPYLBENZENE	16.7	9.1
M-ETHYLTOLUENE	56.4	30.8

(A) ARTIFACT COMPOUND - CONCENTRATION NOT USED IN TOTAL NMHC CALCULATIONS.

(B) VARIABLE RECOVERY THROUGH DRYING SYSTEM - CONCENTRATIONS NOT USED IN TOTAL NMHC CALCULATIONS.

USED VALUES OF 1 FOR THE CARBON NUMBER AND 86 FOR THE MOLECULAR WEIGHT

RESULTS OF CANISTER SPECIATION SURFACE EMISSION NEAR GRID POINT B6 (Cont.)

SITE
MASTER LOG NO: P-901
SAMPLE TYPE: GAS CANISTER

SAMPLING TECHNIQUE: FLUX CHAMBER

DATE SAMPLED:
DATE ANALYZED: 06/14/84

COMPOUND	CONCENTRATION (PPBV-C)	CONCENTRATION (UG/M**3)
TOTAL AROMATICS (CONT'D)		
O-ETHYLTOLUENE	23.0	12.6
1,2,4-TRIMETHYLBENZENE	75.8	42.0
1,2,3-TRIMETHYLBENZENE	31.5	17.2
INDAN	8.4	4.5
INDENE	6.7	3.5
M-DIETHYLBENZENE	21.9	12.0
N-BUTYLBENZENE	10.2	5.6
P-DIETHYLBENZENE	27.3	15.0
NAPHTHALENE	489.6	256.7
C10+ AROMATIC	7.5	4.2
C10+ AROMATIC	29.0	15.9
C10+ AROMATIC	27.5	15.1
C10+ AROMATIC	9.7	5.3
C10+ AROMATIC	2.8	1.5
C10+ AROMATIC	60.4	33.2
C10+ AROMATIC	13.4	7.4
C10+ AROMATIC	17.8	9.8
C10+ AROMATIC	20.2	11.1
C10+ AROMATIC	49.4	27.1
C10+ AROMATIC	29.3	16.4
C10+ AROMATIC	19.7	10.4
C10+ AROMATIC	45.3	24.9
C10+ AROMATIC	662.3	363.5
TOTAL HALOGENATED HC		
METHYLENE CHLORIDE	62.6	217.4
TETRACHLOROETHYLENE	1.8	6.1
TOTAL OXYGENATED HC(B)		
ACETALDEHYDE	149.3	134.6
ACETONE	315.8	251.0
ISOBUTYRALDEHYDE	29.4	21.7
BUTYRALDEHYDE	141.4	104.2
BUTANONE	41.4	30.5
ISOVALERALDEHYDE	35.6	25.1
2-PENTANONE	14.2	10.0
VALERALDEHYDE	128.2	90.3
HEXANAL	89.6	61.2

COMPOUND	CONCENTRATION (PPBV-C)	CONCENTRATION (UG/M**3)
SULFUR SPECIES		
BUTYL MERCAPTAN	3.2	3.0
UNIDENTIFIED VOC(C)		
UNIDENTIFIED VOC	6.7	3.9
UNIDENTIFIED VOC	2.6	1.5
UNIDENTIFIED VOC	2.8	1.2
UNIDENTIFIED VOC	3.1	1.8
UNIDENTIFIED VOC	5.9	3.5
UNIDENTIFIED VOC	26.8	15.7
UNIDENTIFIED VOC	4.7	2.8
UNIDENTIFIED VOC	4.8	2.8
UNIDENTIFIED VOC	3.8	2.3
UNIDENTIFIED VOC	3.3	1.9
UNIDENTIFIED VOC	50.6	29.7
UNIDENTIFIED VOC	31.7	18.6
PARAFFINS	768.7	446.8
OLEFINS	411.7	236.2
TOTAL AROMATICS	4657.2	2526.0
TOTAL HALOGENATED HC	64.4	223.5
TOTAL OXYGENATED HC	946.0	728.7(B)
SULFUR SPECIES	3.2	3.0
UNIDENTIFIED VOC	146.1	85.6(C)
TOTAL NMHC	6051.3	3521.0

(A) ARTIFACT COMPOUND - CONCENTRATION NOT USED IN TOTAL NMHC CALCULATIONS.

(B) VARIABLE RECOVERY THROUGH DRYING SYSTEM - CONCENTRATIONS NOT USED IN TOTAL NMHC CALCULATIONS.

(C) CONCENTRATIONS FOR UNIDENTIFIED USING VALUES OF 6 FOR THE CARBON NUMBER AND 86 FOR THE MOLECULAR WEIGHT.

RESULTS OF CANISTER SPECIATION SURFACE EMISSION NEAR GRID POINT E11

SITE
MASTER LOG NO: P-202
SAMPLE TYPE: GAS CANISTER

SAMPLING TECHNIQUE: FLUX CHAMBER

DATE SAMPLED:
DATE ANALYZED: 06/15/84

COMPOUND	CONCENTRATION (PPBV-C)	CONCENTRATION (UG/M**3)
PARAFFINS		
C-2 VOC	43.8	25.2
C-3 VOC	11.6	6.7
ISOBUTANE	1.3	0.8
N-BUTANE	37.8	22.5
ISOPENTANE	4.8	2.8
N-PENTANE	11.2	6.6
CYCLOPENTANE	6.1	3.5
ISOHEXANE	2.0	1.2
3-METHYLPENTANE	14.7	8.6
N-HEXANE	39.1	23.0
METHYLCYCLOPENTANE	3.3	1.9
CYCLOHEXANE	2.8	1.6
ISOHEPTANE	3.6	2.1
N-HEPTANE	6.4	3.9
METHYLCYCLOHEXANE	2.2	1.3
2,5-DIMETHYLHEXANE	3.8	2.2
2,3,4-TRIMETHYLPENTANE	21.3	12.4
3,3,5-TRIMEHEXANE	3.2	2.1
3-METHYLHEPTANE	2.8	1.6
N-OCTANE	1.8	1.1
N-NONANE	7.3	4.3
N-DECANE	7.8	4.6
N-UNDECANE	3.3	1.9
C7 ALKANE	1.9	1.1
C9 ALKANE	4.1	2.4
C9 ALKANE	2.1	1.2
C10+ ALKANE	3.6	2.1
C10+ ALKANE	5.3	3.1
C10+ ALKANE	2.1	1.2
C10+ ALKANE	1.1	0.6
C10+ ALKANE	2.4	1.4
C10+ ALKANE	1.8	1.0
C10+ ALKANE	1.3	1.8
C10+ ALKANE	4.6	2.7
OLEFINS		
T-2-BUTENE	1.5	0.9
2-METHYL-1-BUTENE	5.6	3.2
ISOPRENE	3.4	1.9
CYCLOPENTENE	8.7	4.8
OLEFINS (CONT'D)		
T-2-HEXENE	2.1	1.2
CYCLOHEXENE (A)	8.8	5.0
1-HEPTENE	6.8	3.4
3-HEPTENE	1.3	0.7
2,4,4-TRIME-1-PENTENE	3.5	2.0
1-METHYLCYCLOHEXENE	1.1	0.6
1-OCTENE	2.9	1.7
1-NONENE	2.4	1.4
B-PINENE	2.8	1.6
1-DECENE	3.1	1.8
1-UNDECENE	3.1	1.8
C7 ALKENE	1.7	1.0
C7 ALKENE	1.2	0.7
C7 ALKENE	2.6	1.5
C8 ALKENE	2.3	1.3
C9 ALKENE	3.6	2.1
C9 ALKENE	1.9	1.1
C9 ALKENE	2.0	1.1
C10+ ALKENE	3.0	1.7
C10+ ALKENE	2.3	1.3
C10+ ALKENE	1.8	1.0
C10+ ALKENE	3.0	1.7
TOTAL AROMATICS		
BENZENE	13.2	7.0
TOLUENE	7.7	4.1
ETHYLBENZENE	47.7	25.9
P-XYLENE/M-XYLENE	206.8	112.3
O-XYLENE	78.9	42.8
ISOPROPYLBENZENE	4.6	2.5
N-PROPYLBENZENE	10.9	6.0
M-ETHYLTOLUENE	24.9	13.6
1,3,5-TRIMETHYLBENZENE	8.4	4.6
O-ETHYLTOLUENE	9.3	5.1
1,2,4-TRIMETHYLBENZENE	20.1	11.0
INDAN	1.5	0.8
NAPHTHALENE	13.2	6.9

(A) ARTIFACT COMPOUND - CONCENTRATION NOT USED IN TOTAL NMHC CALCULATIONS.

(B) VARIABLE RECOVERY THROUGH DRYING SYSTEM - CONCENTRATIONS NOT USED IN TOTAL NMHC CALCULATIONS.

(C) CONCENTRATIONS WERE CALCULATED USING VALUES OF 6 FOR THE CARBON NUMBER AND 86 FOR THE MOLECULAR WEIGHT.

TABLE 6.1-8. (Continued)

RESULTS OF CANISTER SPECIATION SURFACE EMISSION NEAR GRID POINT E11 (Cont.)

SITE
MASTER LOG NO: P-902
SAMPLE TYPE: GAS CANISTER

SAMPLING TECHNIQUE: FLUX CHAMBER

DATE SAMPLED:
DATE ANALYZED: 06/15/84

COMPOUND	CONCENTRATION (PPBV-C)	CONCENTRATION (UG/M**3)
TOTAL HALOGENATED HC		
TRICHLOROFLOROMETHANE	34.5	192.6(A)
METHYLENE CHLORIDE	34.2	118.8
TOTAL OXYGENATED HC(B)		
METHANOL	49.0	64.1
ACETONE	44.5	35.3
ETHANOL	13.0	12.2
DIETHYL ETHER	1.4	1.1
BUTYRALDEHYDE	58.2	42.9
BUTANONE	7.9	5.8
ISOVALERALDEHYDE	16.5	11.7
VALERALDEHYDE	45.4	32.0
3-PENTANONE	4.9	3.4
HEXANAL	29.4	20.1
SULFUR SPECIES		
3-METHYLTHIOPHENE	1.6	1.1
UNIDENTIFIED VOC(C)		
UNIDENTIFIED VOC	11.4	5.7
UNIDENTIFIED VOC	2.4	1.4
PARAFFINS	271.5	158.8
OLEFINS	93.2	53.1
TOTAL AROMATICS	447.2	242.6
TOTAL HALOGENATED HC	34.2	118.8
TOTAL OXYGENATED HC	279.2	229.5(B)
SULFUR SPECIES	1.6	1.1
UNIDENTIFIED VOC	13.8	8.1(C)
TOTAL NMHC	861.6	582.5

(A) ARTIFACT COMPOUND - CONCENTRATION NOT USED IN TOTAL NMHC CALCULATIONS.

(B) VARIABLE RECOVERY THROUGH DRYING SYSTEM - CONCENTRATIONS NOT USED IN TOTAL NMHC CALCULATIONS.

(C) CONCENTRATIONS WERE CALCULATED USING VALUES OF 6 FOR THE CARBON NUMBER AND 86 FOR THE MOLECULAR WEIGHT.

RESULTS OF CANISTER SPECIATION SURFACE EMISSION NEAR GRID POINT F8

SITE
MASTER LOG NO: P-003
SAMPLE TYPE: GAS CANISTER

SAMPLING TECHNIQUE: FLUX CHAMBER

DATE SAMPLED:
DATE ANALYZED: 06/15/84

COMPOUND	CONCENTRATION (PPBV-C)	CONCENTRATION (UG/M**3)
PARAFFINS		
C-2 VOC	28.0	16.1
C-3 VOC	17.7	10.2
ISOBUTANE	2.1	1.2
N-BUTANE	3.4	2.0
ISOPENTANE	4.3	2.9
N-PENTANE	5.9	3.5
ISOHEXANE	1.7	1.0
3-METHYLPENTANE	1.3	0.8
N-HEXANE	29.8	17.5
METHYLCYCLOPENTANE	1.9	1.0
ISOHEPTANE	1.9	1.1
3-METHYLHEXANE	4.3	2.9
N-HEPTANE	3.6	2.1
METHYLCYCLOHEXANE	2.0	1.1
3,5,5-TRIMEHEXANE	3.2	2.1
3-METHYLHEPTANE	5.8	3.4
N-NONANE	7.0	4.1
N-DECANE	10.3	6.0
N-UNDECANE	2.5	1.5
C9 ALKANE	2.4	1.4
C10+ ALKANE	3.1	1.8
C10+ ALKANE	4.3	2.5
C10+ ALKANE	3.9	2.3
OLEFINS		
METHYLCYCLOPENTENE	2.9	1.6
CYCLOHEXENE	6.9	3.9
2,4,4-TRIME-1-PENTENE	1.6	0.9
2,4,4-TRIME-2-PENTENE	1.4	0.8
A-PINENE	9.2	5.1
B-PINENE	4.5	2.5
1-DECENE	19.8	11.4
C9 ALKENE	4.3	2.5
TOTAL AROMATICS		
BENZENE	3.1	1.7
TOLUENE	11.1	6.0
ETHYLBENZENE	49.4	26.8
P-XYLENE/M-XYLENE	208.4	113.2
TOTAL AROMATICS (CONT'D)		
O-XYLENE	67.4	36.6
ISOPROPYLBENZENE	2.4	1.3
N-PROPYLBENZENE	9.2	5.0
M-ETHYLTOLUENE	24.1	13.2
1,3,5-TRIMETHYLBENZENE	9.8	5.4
O-ETHYLTOLUENE	11.2	6.1
1,2,4-TRIMETHYLBENZENE	21.5	11.7
P-ISOPROPYLTOLUENE	5.3	2.9
M-DIETHYLBENZENE	12.5	6.9
N-BUTYLBENZENE	7.6	4.2
P-DIETHYLBENZENE	5.3	2.9
NAPHTHALENE	11.9	6.2
C10+ AROMATIC	2.3	1.3
TOTAL HALOGENATED HC		
METHYLENE CHLORIDE	10.8	37.5
1,2-DICHLOROETHANE	1.2	2.4
TOTAL OXYGENATED HC(B)		
ACETONE	22.5	17.8
BUTYRALDEHYDE	8.4	6.2
BUTANONE	9.9	7.3
1,4-DIOXANE	3.1	2.9
HEXANAL	3.6	2.5
UNIDENTIFIED VOC(C)		
UNIDENTIFIED VOC	5.3	3.1
UNIDENTIFIED VOC	2.2	1.3
PARAFFINS	151.5	88.4
OLEFINS	50.5	28.7
TOTAL AROMATICS	465.3	252.7
TOTAL HALOGENATED HC	12.0	39.9
TOTAL OXYGENATED HC	47.5	36.6(B)
UNIDENTIFIED VOC	7.5	4.4(C)
Total NMHC	686.7	

(A) ARTIFACT COMPOUND - CONCENTRATION NOT USED IN TOTAL NMHC CALCULATIONS.

(B) VARIABLE RECOVERY THROUGH DRYING SYSTEM - CONCENTRATIONS NOT USED IN TOTAL NMHC CALCULATIONS.

(C) CONCENTRATIONS WERE CALCULATED USING VALUES OF 6 FOR THE CARBON NUMBER AND 86 FOR THE MOLECULAR WEIGHT.

Appendix I

TRENCHING EMISSIONS SURVEY DATA

Trench #1

TORS: BME / CES INSTRUMENT TYPE: OVA / AID / Interscan DATE: 6-11-84

DNDITIONS: Hot, sunny

UMENT "ZEROES": THC ____ppmv; Benzene ____ppmv; SO_2 ____ppmv.

τ (residence times)

Area Type[1]	Site[2]	Grid Specific Location[3]	Foam Type[4]	Depth (ft)	THC (ppmv) t	THC PK	THC t	THC SS	Benzene (ppmv) t	Benzene PK	Benzene t	Benzene SS	SO_2 (ppmv) t	SO_2 PK	SO_2 t	SO_2 SS	Field Use Time	Field Use Comments
WP	2	Grid Pt. 14E	None	~6-8		–	0	–		–	0	–		–	0	–	1330	Temp: 40°C, ΔP: .01" H2O
						–	1	–		–	1	29		–	1	–	1336	
						–	2	45		–	2	29		–	2	1750	1342	
						–	3	–		–	3	–		–	3	–	1348	Chamber Air Temp: 35°, ΔP: 0
						–	4	20		–	4	30		–	4	1300	1354	
						–	5	20		–	5	–		–	5	–	1400	
						–	6	–		–	6	28		–	6	–	1406	

ministers

5

6

7 Required/dummied

t: Sweep Air Flow Rate = 5.28 L/min

ypes: SU = sump; PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.
lescriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site).
ample: 10ft.W&35ft.S of R12C17.
ypes: LP 1, LP 2, LP 3, FC600, SF (Sanifoam).

Figure 8-5. Disturbed Surface Monitoring

Trench #1

TORS: BME, CES, DR INSTRUMENT TYPE: OVA / AID / Interscan DATE: 6-11-84

ONDITIONS: Hot & sunny

UMENT "ZEROES": THC ____ppmv; Benzene ____ppmv; SO_2 ____ppmv.

Area Type[1]	Site[2]	Grid Specific Location[3]	Foam Type[4]	Depth (ft)	THC (ppmv) t	THC (ppmv) PK	THC (ppmv) t	THC (ppmv) SS	Benzene (ppmv) t	Benzene (ppmv) PK	Benzene (ppmv) t	Benzene (ppmv) SS	SO_2 (ppmv) t	SO_2 (ppmv) PK	SO_2 (ppmv) t	SO_2 (ppmv) SS	Field Use Time	Field Use Comments
WP	#2	14E	FC 600	~8		-	0	-		-	0	-		-	0	650	1434	
						-	1	30		-	1	10		-	1	850	1440	Foam Degradation
						-	2	45		-	2	12		-	2	1000	1446	
						-	3	40		-	3	10		-	3	1000	1452	

t: Sweep Air Flow Rate = 5.98 L/min

Types: SU = sump; PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.
Descriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site).
Sample: 10ft.W&35ft.S of R12C17.
Types: LP 1, LP 2, LP 3, FC600, SF (Sanifoam).

Figure 8-5. Disturbed Surface Monitoring

Trench #1

ORS: BME/CES INSTRUMENT TYPE: OVA/AID/Interscan DATE: 6-11-84

IDITIONS: Hot, sunny, 5mph west wind

IENT "ZEROES": THC ____ppmv; Benzene ____ppmv; SO_2 ____ppmv.

Area Type[1]	Site[2]	Grid Specific Location[3]	Foam Type[4]	Depth (ft)	THC (ppmv) t	THC (ppmv) PK	THC (ppmv) t	THC (ppmv) SS	Benzene (ppmv) t	Benzene (ppmv) PK	Benzene (ppmv) t	Benzene (ppmv) SS	SO_2 (ppmv) t	SO_2 (ppmv) PK	SO_2 (ppmv) t	SO_2 (ppmv) SS	Field Use Time	Field Use Comments
WP	#2	14E	911-59	~8		–	0	–		–	0	–		–	0	3250	1533	Chamber Air Temp = 42°C
						–	1	5		–	1	24		–	1	3500	1539	
						–	2	–		–	2	22		–	2	3000	1545	
						–	3	8		–	3	17		–	3	~~1500~~ 2000	1551	

Sweep Air = 5.28 L/min

'pes: SU = sump; PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.
:scriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site).
mple: 10ft.W&35ft.S of R12C17.
'pes: LP 1, LP 2, LP 3, FC600, SF (Sanifoam).

Figure 8-5. Disturbed Surface Monitoring

Trench #1

ORS: BMS/CES/DR INSTRUMENT TYPE: OVA/AID/Interscan DATE: 6-11-84

NDITIONS: Hot, sunny, 5mph west wind

MENT "ZEROES": THC ____ppmv; Benzene ____ppmv; SO_2 ____ppmv.

Area Type[1]	Site[2]	Grid Specific Location[3]	Foam Type[4]	Depth (ft)	THC (ppmv) t	THC (ppmv) PK	THC (ppmv) t	THC (ppmv) SS	Benzene (ppmv) t	Benzene (ppmv) PK	Benzene (ppmv) t	Benzene (ppmv) SS	SO_2 (ppmv) t	SO_2 (ppmv) PK	SO_2 (ppmv) t	SO_2 (ppmv) SS	Field Use Time	Field Use Comments
WP	2	14E	None	~ 8		-	0	100		-	0	20		-	0	3800	1611	Uncontrolled, for comparision to Scam 91-60 emissions
WP	2	14E	91-60	~ 8		-	0	-		-	0	-		-	0	180	1621	
						-	1	55		-	1	17		-	1	110	1627	
						-	2	30		-	2	40		-	2	1800	1633	Foam breaking up
						-	3	30		-	3	18		-	3	1700	1639	

: Sweep Air = 5.78 L/min

ypes: SU = sump; PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.
escriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site).
ample: 10ft.W&35ft.S of R12C17.
ypes: LP 1, LP 2, LP 3, FC600, SF (Sanifoam).

Figure 8-5. Disturbed Surface Monitoring

Trench #1

ITORS: BMZ / CES / DR INSTRUMENT TYPE: OVA / AID / Interscan DATE: 6-11-84

ONDITIONS: Hot, sunny, 5mph west wind

UMENT "ZEROES": THC ____ppmv; Benzene ____ppmv; SO_2 ____ppmv.

RADIAN CORPORATION

e	Area Type[1]	Site[2]	Grid Specific Location[3]	Foam Type[4]	Depth (ft)	THC (ppmv) t	THC (ppmv) PK	THC (ppmv) t	THC (ppmv) SS	Benzene (ppmv) t	Benzene (ppmv) PK	Benzene (ppmv) t	Benzene (ppmv) SS	SO_2 (ppmv) t	SO_2 (ppmv) PK	SO_2 (ppmv) t	SO_2 (ppmv) SS	Field Use Time	Field Use Comments
	WP	2	14E	235	~8						–	0	–		–	0	–	1657	
											–	1	17		–	1	450	1703	
											–	2	25		–	2	600	1709	
											–	3	9		–	3	630	1715	

t: Sweep Air = 5.38 L/min. OVA out of Hydrogen

Types: SU = sump; PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.
descriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site).
xample: 10ft.W&35ft.S of R12C17.
types: LP 1, LP 2, LP 3, FC600, SF (Sanifoam).

Figure 8-5. Disturbed Surface Monitoring

Trench #

TORS: BME / CES INSTRUMENT TYPE: CVA/AID/Interscan DATE: 6-11-84

ONDITIONS: Cooler, Sunny, 5-10 mph NW wind

UMENT "ZEROES": THC ____ppmv; Benzene ____ppmv; SO_2 75 ppmv. ←

Area Type[1]	Site[2]	Grid Specific Location[3]	Foam Type[4]	Depth (ft)	THC (ppmv) t	THC (ppmv) PK	THC (ppmv) t	THC (ppmv) SS	Benzene (ppmv) t	Benzene (ppmv) PK	Benzene (ppmv) t	Benzene (ppmv) SS	SO_2 (ppmv) t	SO_2 (ppmv) PK	SO_2 (ppmv) t	SO_2 (ppmv) SS	Field Use Time	Field Use Comments
WP	#2	14E	SF	~8		–	0	–		–	0	1		–	0	–	1729	
						–	1	–		–	1	10		–	1	90	1735	
						–	2	20		–	2	10		–	2	85	1741	
						–	3	15		–	3	9		–	3	95	1747	

t: Sweep Air ≈ 5.25 L/min

Types: SU = sump; PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.
Descriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site).
Sample: 10ft.W&35ft.S of R12C17.
Types: LP 1, LP 2, LP 3, FC600, SF (Sanifoam).

Figure 8-5. Disturbed Surface Monitoring

Trench #2

ITORS: BME/CES/DR INSTRUMENT TYPE: OVA/AID/Interscan DATE: 6-12-84

ONDITIONS: Hot, sunny, 5 mph NW wind

UMENT "ZEROES": THC ____ppmv; Benzene ____ppmv; SO_2 ____ppmv.

e	Area Type[1]	Site[2]	Grid Specific Location[3]	Foam Type[4]	Depth (ft)	THC (ppmv)				Benzene (ppmv)				SO_2 (ppmv)				Field Use	
						t	PK	t	SS	t	PK	t	SS	t	PK	t	SS	Time	Comments
	SU	#1	Grid pt 8F	None	2½		–	0	–		–	0	–		–	0	–	1159	
							–	1	180		–	1	40		–	1	50	1205	
							–	2	190		–	2	40		–	2	55	1211	Temp = 36° in chamber
							–	3	190		–	3	70		–	3	30	1217	Temp = 38° in chamber ΔP = 0

it: Sweep Air = 5.78 L/min. Condensation in chamber.

Types: SU = sump; PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.
descriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site).
xample: 10ft.W&35ft.S of R12C17.
types: LP 1, LP 2, LP 3, FC600, SF (Sanifoam).

Figure 8-5. Disturbed Surface Monitoring

Trench #2

ORS: DR/BME INSTRUMENT TYPE: OVA/AID/Interscan DATE: 6/12-84

IDITIONS: Hot, clear, slight NW wind

IENT "ZEROES": THC ____ppmv; Benzene ____ppmv; SO_2 ____ppmv.

Area Type[1]	Site[2]	Grid Specific Location[3]	Foam Type[4]	Depth (ft)	THC (ppmv)				Benzene (ppmv)				SO_2 (ppmv)				Field Use	
					t	PK	t	SS	t	PK	t	SS	t	PK	t	SS	Time	Comments
SU	#1	8F	SF	2½		–	0	–		–	0	–		–	0	–	1226	Temp: 37° ΔP=0
						–	1	68		90	1	45		–	1	35	1232	
						–	2	80		55	2	44		–	2	28	1238	Temp: 37°
						–	3	70		–	3	40		–	3	30	1244	Temp: 37°, ΔP=0

Sweep Air = 5.28 L/min Waste visible through Foam

'pes: SU = sump; PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.

:scriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site).

mple: 10ft.W&35ft.S of R12C17.

pes: LP 1, LP 2, LP 3, FC600, SF (Sanifoam).

Figure 8-5. Disturbed Surface Monitoring

Trench #2

ORS: BMS, DR, CES INSTRUMENT TYPE: OVA /AID/ Interscan DATE: 6-12-84

NDITIONS: Hot, clear, 1-2mph NW wind

MENT "ZEROES": THC ____ppmv; Benzene ____ppmv; SO_2 ____ppmv.

Area Type[1]	Site[2]	Grid Specific Location[3]	Foam Type[4]	Depth (ft)	THC (ppmv)				Benzene (ppmv)				SO_2 (ppmv)				Field Use	
					t	PK	t	SS	t	PK	t	SS	t	PK	t	SS	Time	Comments
SU	1	8F	None	3½		-	0	-		200+	0	87		-	0	-	1300	Chamber Temp=40°c
						-	1	230		-	1	150		-	1	300	1306	
						-	2	250		-	2	110		-	2	350	1312	
						-	3	200		-	3	110		-	3	-	1318	Chamber Temp=42°c

: Sweep Air=5.28 L/min

ypes: SU = sump; PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.
escriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site).
ample: 10ft.W&35ft.S of R12C17.
ypes: LP 1, LP 2, LP 3, FC600, SF (Sanifoam).

Figure 8-5. Disturbed Surface Monitoring

Trench #2

RADIAN CORPORATION

TORS: BME INSTRUMENT TYPE: OVA/ AID/ Interscan DATE: 6-12-84

ONDITIONS: Hot, Sunny, 1-2 mph NW wind

IMENT "ZEROES": THC ____ppmv; Benzene ____ppmv; SO_2 ____ppmv.

Area Type[1]	Site[2]	Grid Specific Location[3]	Foam Type[4]	Depth (ft)	THC (ppmv) t	THC (ppmv) PK	THC (ppmv) t	THC (ppmv) SS	Benzene (ppmv) t	Benzene (ppmv) PK	Benzene (ppmv) t	Benzene (ppmv) SS	SO_2 (ppmv) t	SO_2 (ppmv) PK	SO_2 (ppmv) t	SO_2 (ppmv) SS	Field Use Time	Field Use Comments
SU	#1	8F	60	3½		-	0	-		-	0	-		-	0	50	1371	
						-	1	40		230	1	-		-	1	55	1337	
						-	2	60		-	2	74		-	2	55	1333	
						-	3	60		-	3	40		-	3	60	1334	Condensate in chamber

:: Sweep Air = 5.25 L/min

ypes: SU = sump; PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.
lescriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site).
ample: 10ft.W&35ft.S of R12C17.
ypes: LP 1, LP 2, LP 3, FC600, SF (Sanifoam),

Figure 8-5. Disturbed Surface Monitoring

Trench #2

TORS: BME INSTRUMENT TYPE: OVA / AID / Interscan DATE: 6-12-84

ONDITIONS: Hot, sunny, 2-3 mph west wind

UMENT "ZEROES": THC ____ppmv; Benzene ____ppmv; SO_2 ____ppmv.

Area Type[1]	Site[2]	Grid Specific Location[3]	Foam Type[4]	Depth (ft)	THC (ppmv) t	THC (ppmv) PK	THC (ppmv) t	THC (ppmv) SS	Benzene (ppmv) t	Benzene (ppmv) PK	Benzene (ppmv) t	Benzene (ppmv) SS	SO_2 (ppmv) t	SO_2 (ppmv) PK	SO_2 (ppmv) t	SO_2 (ppmv) SS	Field Use Time	Field Use Comments
SU	#1	8F	None	4		–	0	–		–	0	50		–	0	–	1448	
						–	1	210		–	1	85		–	1	280	1454	
						–	2	140		–	2	82		–	2	250	1500	
						–	3	110		–	3	70		–	3	150	1506	

t: Sweep Air = 5.28 L/min

ypes: SU = sump; PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.
lescriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site).
ample: 10ft.W&35ft.S of R12C17.
ypes: LP 1, LP 2, LP 3, FC600, SF (Sanifoam).

Figure 8-5. Disturbed Surface Monitoring

Trench #2

ORS: BME INSTRUMENT TYPE: OVA / AID / Interscan DATE: 6-12-84

NDITIONS: Hot, sunny, 2-3mph west wind

MENT "ZEROES": THC ____ppmv; Benzene ____ppmv; SO_2 ____ppmv.

Area Type[1]	Site[2]	Grid Specific Location[3]	Foam Type[4]	Depth (ft)	THC (ppmv) t	THC PK	THC t	THC SS	Benzene (ppmv) t	Benzene PK	Benzene t	Benzene SS	SO_2 (ppmv) t	SO_2 PK	SO_2 t	SO_2 SS	Field Use Time	Field Use Comments
SU	#1	8F	235	4		–	0	–		–	0	25		–	0	20	1510	chamber Temp: 45°
			(93-35)			–	1	–		–	1	41		–	1	180	1516	
						–	2	–		–	2	24		–	2	200	1522	
						–	3	18		–	3	36		–	3	150	1528	

: Sweep Air = 5.28 L/min

ypes: SU = sump; PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.
escriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site).
ample: 10ft.W&35ft.S of R12C17.
ypes: LP 1, LP 2, LP 3, FC600, SF (Sanifoam).

Figure 8-5. Disturbed Surface Monitoring

Trench #2

RADIAN CORPORATION

TORS: BME / DRT CES INSTRUMENT TYPE: OVA / AID / Interscan DATE: 6-12-84

ONDITIONS: Hot, sunny, 2-3 mph West wind

MENT "ZEROES": THC ____ ppmv; Benzene ____ ppmv; SO_2 35 ppmv. ←

Area Type[1]	Site[2]	Grid Specific Location[3]	Foam Type[4]	Depth (ft)	THC (ppmv) t	THC (ppmv) PK	THC (ppmv) t	THC (ppmv) SS	Benzene (ppmv) t	Benzene (ppmv) PK	Benzene (ppmv) t	Benzene (ppmv) SS	SO_2 (ppmv) t	SO_2 (ppmv) PK	SO_2 (ppmv) t	SO_2 (ppmv) SS	Field Use Time	Field Use Comments
SU	#1	8F	None	6		–	0	25		–	0	85		–	0	75	1546	Uncontrolled, for comparison to Scum Sq emissions
SU	#1	8F	Sq	6		–	0	8		–	0	23		–	0	45	1552	
						–	1	9		–	1	34		–	1	45	1558	
						–	2	15		–	2	53		–	2	45	1604	
						–	3	17		–	3	45		–	3	40	1610	

:: Sweep Air = 5.28 L/min

ypes: SU = sump; PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.
lescriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site).
ample: 10ft.W&35ft.S
of R12C17.
ypes: LP 1, LP 2, LP 3, FC600, SF (Sanifoam),

Figure 8-5. Disturbed Surface Monitoring

Trench #2

'ORS: BMG INSTRUMENT TYPE: OVA / AID / Interscan DATE: 6-12-84

'NDITIONS: Hot, clear, west breeze

MENT "ZEROES": THC ____ppmv; Benzene ____ppmv; SO_2 25 ppmv. ←

Area Type[1]	Site[2]	Grid Specific Location[3]	Foam Type[4]	Depth (ft)	THC (ppmv) t	THC (ppmv) PK	THC (ppmv) t	THC (ppmv) SS	Benzene (ppmv) t	Benzene (ppmv) PK	Benzene (ppmv) t	Benzene (ppmv) SS	SO_2 (ppmv) t	SO_2 (ppmv) PK	SO_2 (ppmv) t	SO_2 (ppmv) SS	Field Use Time	Field Use Comments
SU	#1	8F	None	7		–	0	–		–	0	–		–	0	–	1621	
						–	1	10		–	1	33		–	1	30	1627	
						–	2	7		–	2	31		–	2	30	1633	
						–	3	6		–	3	36		–	3	30	1639	line pinched
						–	4½	15		–	4½	72		–	4½	50	1645	

: sweep Air = 5.28 L/min

ypes: SU = sump; PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.
escriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site).
ample: 10ft.W&35ft.S of R12C17.
ypes: LP 1, LP 2, LP 3, FC600, SF (Sanifoam).

Figure 8-5. Disturbed Surface Monitoring

iren[illegible] # 2

ORS: BME / DR INSTRUMENT TYPE: OVA / 4ID / Interscan DATE: 6-12-84

NDITIONS: Hot clear 3mph NW wind

MENT "ZEROES": THC ____ppmv; Benzene ____ppmv; SO_2 ____ppmv.

Area Type[1]	Site[2]	Grid Specific Location[3]	Foam Type[4]	Depth (ft)	THC (ppmv)				Benzene (ppmv)				SO_2 (ppmv)				Field Use	
					t	PK	t	SS	t	PK	t	SS	t	PK	t	SS	Time	Comments
SU	#1	8F	600	7		–	0	3		–	0	38		–	0	34	1657	
						–	1	4		–	1	40		–	1	37	1703	
						–	2	5		–	2	38		–	2	50	1709	Flux chamber lost mixing fan

: sweep Air = 5.28 L/min

ypes: SU = sump; PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.

escriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site).

ample: 10ft.W&35ft.S of R12C17.

ypes: LP 1, LP 2, LP 3, FC600, SF (Sanifoam).

Figure 8-5. Disturbed Surface Monitoring

Trench #

ORS: BME INSTRUMENT TYPE: OVA, AID, Interscan DATE: 6-13-94

NDITIONS: Hot, sunny, 2-5 mph West wind

MENT "ZEROES": THC ____ppmv; Benzene ____ppmv; SO_2 ____ppmv.

RADIAN CORPORATION

Area Type[1]	Site[2]	Grid Specific Location[3]	Foam Type[4]	Depth (ft)	THC (ppmv) t	THC (ppmv) PK	THC (ppmv) t	THC (ppmv) SS	Benzene (ppmv) t	Benzene (ppmv) PK	Benzene (ppmv) t	Benzene (ppmv) SS	SO_2 (ppmv) t	SO_2 (ppmv) PK	SO_2 (ppmv) t	SO_2 (ppmv) SS	Field Use Time	Field Use Comments
WP	#1	Grid pt 24E	None	2 1/2		–	0	18		68	0	65		–	0	650	1251	Condensate in chamber
						–	1	15		95	1	93		–	1	530	1257	Temp = 43°C in chamber
						40	2	22		–	2	83		–	2	560	1303	
						–	3	15		–	3	68		–	3	500	1309	Chamber Temp = 42°C

: Sweep Air = 5.28 L/min

ypes: SU = sump; PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.
escriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site).
ample: 10ft.W&35ft.S of R12C17.
ypes: LP 1, LP 2, LP 3, FC600, SF (Sanifoam).

Figure 8-5. Disturbed Surface Monitoring

Trench # 3

ORS: BME, DR INSTRUMENT TYPE: OVA, AID, Interscan DATE: 6-13-84

NDITIONS: Hot, sunny, 2-5 mph wind from west

MENT "ZEROES": THC ____ppmv; Benzene ____ppmv; SO_2 ____ppmv.

Area Type[1]	Site[2]	Grid Specific Location[3]	Foam Type[4]	Depth (ft)	THC (ppmv)				Benzene (ppmv)				SO_2 (ppmv)				Field Use	
					t	PK	t	SS	t	PK	t	SS	t	PK	t	SS	Time	Comments
WP	#1	24E	SF	2½		–	0	5		–	0	62		–	0	650	1326	Foam covers 95% of waste
						–	1	18		–	1	85		–	1	140	1332	
						–	2	18		–	2	83		–	2	1200	1338	chamber temp: 40°C
						–	3	17		93	3	79		–	3	1100	1344	

: Sweep Air = 5.28 L/min. Condensate in chamber exit line

ypes: SU = sump; PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.
escriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site).
ample: 10ft.W&35ft.S of R12C17.
ypes: LP 1, LP 2, LP 3, FC600, SF (Sanifoam).

Figure 8-5. Disturbed Surface Monitoring

Trench # 3

ORS: BME INSTRUMENT TYPE: OVA, AID, Interscan DATE: 6/13/84

NDITIONS: Hot, Sunny, 2-5 mph West wind

MENT "ZEROES": THC ____ppmv; Benzene ____ppmv; SO_2 ____ppmv.

Area Type[1]	Site[2]	Grid Specific Location[3]	Foam Type[4]	Depth (ft)	THC (ppmv) t	THC (ppmv) PK	THC (ppmv) t	THC (ppmv) SS	Benzene (ppmv) t	Benzene (ppmv) PK	Benzene (ppmv) t	Benzene (ppmv) SS	SO_2 (ppmv) t	SO_2 (ppmv) PK	SO_2 (ppmv) t	SO_2 (ppmv) SS	Field Use Time	Field Use Comments
WP	#1	24E	None	3		–	0	18		–	0	88		–	0	100	1355	
														–	½	100	1357	
WP	#1	24E	Sq	3		–	0	5		–	0	67		–	0	1200	1400	
						–	1	10		–	1	98		–	1	200	1406	
						–	2	15		–	2	72		–	2	200	1412	
						–	3	12		–	3	81		–	3	200	1418	

: Sweep Air = 5.28 L/min

ypes: SU = sump; PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.
escriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site).
ample: 10ft.W&35ft.S
of R12C17.
ypes: LP 1, LP 2, LP 3, FC600, SF (Sanifoam).

Figure 8-5. Disturbed Surface Monitoring

Trench #3

'ORS: BME INSTRUMENT TYPE: OVA / AID / Interscan DATE: 6-13-84

'NDITIONS: Hot, Sunny, 2-5 mph West wind

'MENT "ZEROES": THC ____ppmv; Benzene ____ppmv; SO_2 ____ppmv.

Area Type[1]	Site[2]	Grid Specific Location[3]	Foam Type[4]	Depth (ft)	THC (ppmv) t	THC (ppmv) PK	THC (ppmv) t	THC (ppmv) SS	Benzene (ppmv) t	Benzene (ppmv) PK	Benzene (ppmv) t	Benzene (ppmv) SS	SO_2 (ppmv) t	SO_2 (ppmv) PK	SO_2 (ppmv) t	SO_2 (ppmv) SS	Field Use Time	Field Use Comments
WP	#1	24E	235	3		–	0	6		–	0	100		–	0	2300	1446	
						–	1	7		–	1	120		–	1	2700	1452	
						–	2	7		–	2	91		–	2	3100	1458	
						–	3	8		–	3	150		–	3	2800	1504	

:: Sweep Air = 5.23 L/min Compare to uncontrolled emissions at t=1516

ypes: SU = sump; PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.
lescriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site).
ample: 10ft.W&35ft.S of R12C17.
ypes: LP 1, LP 2, LP 3, FC600, SF (Sanifoam).

Figure 8-5. Disturbed Surface Monitoring

Trench #3

ORS: BME, DR INSTRUMENT TYPE: OVA, AID, Interscan DATE: 6-13-84

NDITIONS: Hot, clear, 3mph NW breeze

MENT "ZEROES": THC ____ppmv; Benzene ____ppmv; SO_2 ____ppmv.

Area Type[1]	Site[2]	Grid Specific Location[3]	Foam Type[4]	Depth (ft)	THC (ppmv)				Benzene (ppmv)				SO_2 (ppmv)				Field Use	
					t	PK	t	SS	t	PK	t	SS	t	PK	t	SS	Time	Comments
WP	#1	24E	None	3		–	0	45		–	0	19		–	0	700	1516	
						–	1	8		–	1	11		–	1	400	1522	
						–	2	6		–	2	90		–	2	600	1528	
						–	3	6		–	3	100		–	3	660	1534	

: Sweep Air = 5.28 L/min

ypes: SU = sump; PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.
escriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site).
ample: 10ft.W&35ft.S of R12C17.
ypes: LP 1, LP 2, LP 3, FC600, SF (Sanifoam).

Figure 8-5. Disturbed Surface Monitoring

Trench 3

ORS: BME, DR INSTRUMENT TYPE: OVA, AID, Interscan DATE: 6-13-84

NDITIONS: Hot, clear, 2mph NW breeze

MENT "ZEROES": THC ____ppmv; Benzene ____ppmv; SO_2 ____ppmv.

Area Type[1]	Site[2]	Grid Specific Location[3]	Foam Type[4]	Depth (ft)	THC (ppmv)				Benzene (ppmv)				SO_2 (ppmv)				Field Use	
					t	PK	t	SS	t	PK	t	SS	t	PK	t	SS	Time	Comments
WP	#1	24E	60	3to4		–	0	5		–	0	91		–	0	900	1544	
						–	1	5		–	1	87		–	1	1300	1550	
						–	2	6		–	2	88		–	2	1100	1556	
						–	3	5		–	3	72		–	3	990	1602	

: Sweep Air = 5.28 L/min

ypes: SU = sump; PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.
escriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site).
ample: 10ft.W&35ft.S
of R12C17.
ypes: LP 1, LP 2, LP 3, FC600, SF (Sanifoam).

Figure 8-5. Disturbed Surface Monitoring

TORS: BME / DR INSTRUMENT TYPE: OVA, AID, Interscan DATE: 6-13-84

ONDITIONS: Hot, clear, No wind

UMENT "ZEROES": THC ____ppmv; Benzene ____ppmv; SO_2 ____ppmv.

e	Area Type[1]	Site[2]	Grid Specific Location[3]	Foam Type[4]	Depth (ft)	THC (ppmv) t	THC (ppmv) PK	THC (ppmv) t	THC (ppmv) SS	Benzene (ppmv) t	Benzene (ppmv) PK	Benzene (ppmv) t	Benzene (ppmv) SS	SO_2 (ppmv) t	SO_2 (ppmv) PK	SO_2 (ppmv) t	SO_2 (ppmv) SS	Field Use Time	Field Use Comments
	WP	#1	Grid pt 24E	None	4-4½		–	0	8		1800	0	–		–	0	800	1702	uncontrolled, for comparison to foam 600 emissions
	WP	#1		6% 600	4-4½		–	0	6		1010	0	500		–	0	1000	1707	
							–	1	7		–	1	340		–	1	1900	1713	
							–	2	8		–	2	870		–	2	1600	1719	
							–	3	8		–	3	470		–	3	1700	1725	

t: Sweep Air = 5.28 L/min

Types: SU = sump; PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.
descriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site).
xample: 10ft.W&35ft.S
of R12C17.
types: LP 1, LP 2, LP 3, FC600, SF (Sanifoam).

Figure 8-5. Disturbed Surface Monitoring

RESULTS OF GAS CANISTER SPECIATION FOR TRENCH 1 - UPWIND

SITE
MASTER LOG NO: P-004
SAMPLE TYPE: GAS CANISTER

SAMPLING TECHNIQUE: FLUX CHAMBER

DATE SAMPLED:
DATE ANALYZED: 06/15/84

COMPOUND	CONCENTRATION (PPBV-C)	CONCENTRATION (UG/M**3)
PARAFFINS		
C-2 VOC	24.8	14.3
C-3 VOC	6.2	3.6
ISOBUTANE	2.0	1.2
ISOPENTANE	3.1	1.8
N-PENTANE	7.3	4.3
CYCLOPENTANE	2.2	1.3
N-HEXANE	8.8	5.2
METHYLCYCLOPENTANE	4.3	2.5
2,4-DIMETHYLPENTANE	1.7	1.0
ISOHEPTANE	7.3	4.3
3-METHYLHEXANE	3.7	2.2
3-METHYLHEPTANE	2.1	1.2
N-DECANE	5.0	2.8
N-UNDECANE	2.0	1.2
C7 ALKANE	6.5	3.8
C7 ALKANE	1.7	1.0
C9 ALKANE	2.3	1.7
C10+ ALKANE	7.1	4.2
TOTAL AROMATICS		
BENZENE	3.5	1.9
TOLUENE	2.7	1.5
ETHYLBENZENE	4.2	2.3
P-XYLENE/M-XYLENE	11.8	6.4
STYRENE	1.6	0.9
O-XYLENE	5.1	2.8
N-PROPYLBENZENE	5.3	2.9
M-ETHYLTOLUENE	1.8	1.0
1,2,4-TRIMETHYLBENZENE	2.3	1.7
NAPHTHALENE	1.3	1.0
TOTAL HALOGENATED HC		
TRICHLOROFLOROMETHANE	<1.0	5.0(A)
METHYLENE CHLORIDE	11.5	39.9
TOTAL OXYGENATED HC(B)		
METHANOL	5.2	6.8
ACETONE	41.0	32.5

COMPOUND	CONCENTRATION (PPBV-C)	CONCENTRATION (UG/M**3)
TOTAL OXYGENATED HC (CONT'D)(B)		
BUTANONE	15.4	11.4
HEXANAL	1.2	0.8
PARAFFINS	98.9	57.5
TOTAL AROMATICS	48.2	21.8
TOTAL HALOGENATED HC	11.5	39.9
TOTAL OXYGENATED HC	64.3	52.6(B)
TOTAL NMHC	150.6	119.2

(A) ARTIFACT COMPOUND - CONCENTRATION NOT USED IN TOTAL NMHC CALCULATIONS.

(B) VARIABLE RECOVERY THROUGH DRYING SYSTEM - CONCENTRATIONS NOT USED IN TOTAL NMHC CALCULATIONS.

(C) CONCENTRATIONS WERE CALCULATED USING VALUES OF 6 FOR THE CARBON NUMBER AND 86 FOR THE MOLECULAR WEIGHT.

RESULTS OF GAS CANISTER SPECIATION FOR TRENCH 1 - NO FOAM

SITE
MASTER LOG NO: C-005
SAMPLE TYPE: GAS CANISTER

SAMPLING TECHNIQUE: FLUX CHAMBER

DATE SAMPLED:
DATE ANALYZED: 05/16/82

COMPOUND	CONCENTRATION (PPBV-C)	CONCENTRATION (UG/M**3)
PARAFFINS		
C-2 VOC	123.1	70.7
ETHANE	95.5	58.8
ISOBUTANE	352.4	209.4
N-BUTANE	190.9	112.9
ISOPENTANE	2128.3	1257.0
N-PENTANE	398.4	235.3
CYCLOPENTANE	74.5	42.8
2,3-DIMETHYLBUTANE	253.4	149.9
ISOHEXANE	1165.9	685.1
3-METHYLPENTANE	361.6	212.5
N-HEXANE	457.7	268.9
2,4-DIMETHYLPENTANE	876.9	513.4
CYCLOHEXANE	1299.0	745.6
ISOHEPTANE	805.8	471.8
3-METHYLHEXANE	614.3	359.6
N-HEPTANE	1264.0	740.0
METHYLCYCLOHEXANE	1371.0	786.1
2,5-DIMETHYLHEXANE	3560.0	2078.5
2,3,4-TRIMETHYLPENTANE	588.4	343.5
3,5,5-TRIMEHEXANE	1995.0	1288.2
3-METHYLHEPTANE	2241.0	1308.4
2,2,5-TRIMETHYLHEXANE	574.7	377.0
N-OCTANE	1731.0	1010.6
N-NONANE	7999.0	4663.8
N-DECANE	24660.0	14352.3
N-UNDECANE	13570.0	6200.9
C6 ALKANE	221.5	130.2
C7 ALKANE	655.8	383.9
C7 ALKANE	551.8	323.1
C7 ALKANE	391.0	229.4
C7 ALKANE	266.6	156.1
C8 ALKANE	11500.0	6714.2
C8 ALKANE	255.1	148.9
C8 ALKANE	430.0	251.1
C9 ALKANE	287.5	167.6
C9 ALKANE	249.0	145.2
C9 ALKANE	924.2	538.9
C9 ALKANE	1254.0	731.1
C9 ALKANE	689.5	402.0
C9 ALKANE	1088.0	634.4
C9 ALKANE	2120.0	1236.1
PARAFFINS (CONT'D)		
C10+ ALKANE	1957.0	1139.0
C10+ ALKANE	1297.0	754.9
C10+ ALKANE	3897.0	2268.1
C10+ ALKANE	2064.0	1201.3
C10+ ALKANE	874.1	508.7
C10+ ALKANE	930.4	541.5
C10+ ALKANE	981.9	570.8
C10+ ALKANE	367.3	213.8
C10+ ALKANE	787.0	458.0
C10+ ALKANE	702.5	408.9
C10+ ALKANE	1975.0	1149.5
OLEFINS		
ISOBUTENE + 1-BUTENE	585.6	341.6
T-2-BUTENE	383.4	219.9
C-2-BUTENE	251.3	144.2
1-PENTENE	2514.4	1441.8
ACETONITRILE	1216.7	796.2
T-2-HEXENE	993.9	570.5
CYCLOHEXENE	3679.4	2081.7
3-HEPTENE	216.6	124.3
2,4,4-TRIME-2-PENTENE	324.4	186.1
1-METHYLCYCLOHEXENE	322.3	181.2
1-OCTENE	252.0	144.6
C-2-OCTENE	604.4	346.7
1-NONENE	501.5	287.6
A-PINENE	4082.0	2273.9
B-PINENE	6345.0	3534.5
1-DECENE	2738.0	1571.1
LIMONENE	2688.0	1497.4
1-UNDECENE	4564.0	2518.4
C7 ALKENE	5337.8	3062.2
C7 ALKENE	1586.0	910.0
C8 ALKENE	214.4	123.0
C8 ALKENE	203.0	116.4
C8 ALKENE	722.8	414.6
C9 ALKENE	1619.0	928.5
C9 ALKENE	672.4	385.6
C9 ALKENE	612.1	351.0
C9 ALKENE	1207.0	692.2

(A) ARTIFACT COMPOUND - CONCENTRATION NOT USED IN TOTAL NMHC CALCULATIONS.

(B) VARIABLE RECOVERY THROUGH DRYING SYSTEM - CONCENTRATIONS NOT USED IN TOTAL NMHC CALCULATIONS.

(C) CONCENTRATIONS WERE CALCULATED USING VALUES OF 6 FOR THE CARBON NUMBER AND 86 FOR THE MOLECULAR WEIGHT.

RESULTS OF GAS CANISTER SPECIATION FOR TRENCH 1 - NO FOAM (Cont.)

SITE
MASTER LOG NO: P-005
SAMPLE TYPE: GAS CANISTER

SAMPLING TECHNIQUE: FLUX CHAMBER

DATE SAMPLED:
DATE ANALYZED: 06/16/82

COMPOUND	CONCENTRATION (PPBV-C)	CONCENTRATION (UG/M**3)
OLEFINS (CONT'D)		
C9 ALKENE	1910.0	1095.4
C10+ ALKENE	5487.0	3148.6
C10+ ALKENE	3128.0	1794.9
C10+ ALKENE	6077.0	3487.1
C10+ ALKENE	1959.0	1124.1
C10+ ALKENE	7287.0	4181.5
C10+ ALKENE	3969.0	2277.5
C10+ ALKENE	1754.0	1006.5
C10+ ALKENE	1537.0	882.0
C10+ ALKENE	566.1	324.8
C10+ ALKENE	437.1	250.8
TOTAL AROMATICS		
BENZENE	1000.0	532.4
TOLUENE	3842.0	2087.5
ETHYLBENZENE	2286.0	1241.2
P-XYLENE/M-XYLENE	6912.0	3752.0
O-XYLENE	2712.0	1472.5
ISOPROPYLBENZENE	941.0	514.5
N-PROPYLBENZENE	2734.0	1493.4
M-ETHYLTOLUENE	7567.0	4133.4
1,3,5-TRIMETHYLBENZENE	8272.0	4518.5
O-ETHYLTOLUENE	10320.0	5637.2
1,2,4-TRIMETHYLBENZENE	10750.0	5872.1
1,2,3-TRIMETHYLBENZENE	5673.0	3098.8
P-ISOPROPYLTOLUENE	2360.0	1295.4
INDAN	2490.0	1337.5
M-DIETHYLBENZENE	4319.0	2370.6
N-BUTYLBENZENE	4925.0	2703.2
P-DIETHYLBENZENE	3199.0	1755.9
NAPHTHALENE	1857.0	973.7
C10+ AROMATIC	3816.0	2094.5
C10+ AROMATIC	2906.0	1595.0
C10+ AROMATIC	2467.0	1354.1
C10+ AROMATIC	2234.0	1226.2
C10+ AROMATIC	3543.0	1944.7
C10+ AROMATIC	1839.0	1009.4
C10+ AROMATIC	3833.0	2103.8
C10+ AROMATIC	446.1	244.9
C10+ AROMATIC	2128.0	1168.0

COMPOUND	CONCENTRATION (PPBV-C)	CONCENTRATION (UG/M**3)
TOTAL AROMATICS (CONT'D)		
C10+ AROMATIC	1514.0	831.0
C10+ AROMATIC	773.1	424.3
C10+ AROMATIC	575.8	316.0
C10+ AROMATIC	781.7	429.1
TOTAL HALOGENATED HC		
CHLOROMETHANE	104.6	216.0
METHYLENE CHLORIDE	277.6	963.9
1,2-DICHLOROETHANE	135.8	274.9
1,1,1-TRICHLOROETHANE	674.1	1939.0
CARBON TETRACHLORIDE	4493.0	28262.9
1,2-DICHLOROPROPANE	1460.0	2249.2
TRICHLOROETHYLENE + BROMODICHLOROMETHANE	2452.0	6615.7
1,1,2-TRICHLOROETHANE	484.9	1322.8
TETRACHLOROETHYLENE	1185.0	4017.9
CHLOROBENZENE	7071.0	5427.4
UNIDENTIFIED HALOGENATED HC	54.7	84.3
UNIDENTIFIED HALOGENATED HC	15600.0	24032.8
UNIDENTIFIED HALOGENATED HC	2540.0	3913.0
UNIDENTIFIED HALOGENATED HC	2244.0	3457.0
UNIDENTIFIED HALOGENATED HC	2317.9	3569.5
UNIDENTIFIED HALOGENATED HC	1647.0	2537.3
UNIDENTIFIED HALOGENATED HC	834.2	1285.1
UNIDENTIFIED HALOGENATED HC	24000.0	36973.6
UNIDENTIFIED HALOGENATED HC	455.3	701.4
UNIDENTIFIED HALOGENATED HC	5074.0	7816.8
UNIDENTIFIED HALOGENATED HC	2369.0	3649.6
UNIDENTIFIED HALOGENATED HC	62.8	96.7
UNIDENTIFIED HALOGENATED HC	1091.0	1680.8
UNIDENTIFIED HALOGENATED HC	8944.0	13778.8
UNIDENTIFIED HALOGENATED HC	383.5	590.8
UNIDENTIFIED HALOGENATED HC	90.6	139.6
UNIDENTIFIED HALOGENATED HC	757.1	1166.4
UNIDENTIFIED HALOGENATED HC	342.9	528.3
UNIDENTIFIED HALOGENATED HC	732.3	1128.2
UNIDENTIFIED HALOGENATED HC	56.2	86.6
UNIDENTIFIED HALOGENATED HC	586.4	903.4
UNIDENTIFIED HALOGENATED HC	2430.0	3743.6
UNIDENTIFIED HALOGENATED HC	27.2	41.9
UNIDENTIFIED HALOGENATED HC	21.0	32.4

(A) ARTIFACT COMPOUND - CONCENTRATION NOT USED IN TOTAL NMHC CALCULATIONS.

(B) VARIABLE RECOVERY THROUGH DRYING SYSTEM - CONCENTRATIONS NOT USED IN TOTAL NMHC CALCULATIONS.

(C) CONCENTRATIONS WERE CALCULATED USING VALUES OF 6 FOR THE CARBON NUMBER AND 86 FOR THE MOLECULAR WEIGHT.

RESULTS OF GAS CANISTER SPECIATION FOR TRENCH 1 - NO FOAM (Cont.)

SITE
MASTER LOG NO: P-005
SAMPLE TYPE: GAS CANISTER

SAMPLING TECHNIQUE: FLUX CHAMBER

DATE SAMPLED:
DATE ANALYZED: 06/16/82

COMPOUND	CONCENTRATION (PPBV-C)	CONCENTRATION (UG/M**3)
TOTAL HALOGENATED HC (CONT'D)		
UNIDENTIFIED HALOGENATED HC	143.5	221.1
UNIDENTIFIED HALOGENATED HC	309.3	476.5
UNIDENTIFIED HALOGENATED HC	410.7	632.7
UNIDENTIFIED HALOGENATED HC	230.1	354.5
UNIDENTIFIED HALOGENATED HC	428.0	659.4
UNIDENTIFIED HALOGENATED HC	462.7	712.8
UNIDENTIFIED HALOGENATED HC	342.2	529.3
UNIDENTIFIED HALOGENATED HC	115.8	177.2
UNIDENTIFIED HALOGENATED HC	95.5	148.7
UNIDENTIFIED HALOGENATED HC	220.2	339.2
UNIDENTIFIED HALOGENATED HC	120.2	185.2
UNIDENTIFIED HALOGENATED HC	128.7	198.3
UNIDENTIFIED HALOGENATED HC	189.0	291.2
UNIDENTIFIED HALOGENATED HC	388.8	599.1
TOTAL OXYGENATED HC(B)		
ACETONE	1933.0	1531.1
BUTYRALDEHYDE	98.0	72.2
BUTANONE	2421.0	1784.8
ISOVALERALDEHYDE	5385.0	3792.6
1,4-DIOXANE	1083.0	975.6
HEXANAL	1230.0	849.1
UNIDENTIFIED VOC(C)		
UNIDENTIFIED VOC	2216.0	1299.1
UNIDENTIFIED VOC	379.0	222.2
UNIDENTIFIED VOC	570.4	334.4
UNIDENTIFIED VOC	1103.0	646.6
UNIDENTIFIED VOC	521.3	305.6
UNIDENTIFIED VOC	2240.0	1313.2
UNIDENTIFIED VOC	489.0	286.7
PARAFFINS	105421.3	61608.6
OLEFINS	79274.1	45329.5
TOTAL AROMATICS	111153.6	60684.6
TOTAL HALOGENATED HC	95627.3	170248.6
TOTAL OXYGENATED HC	12150.0	8996.5(B)
UNIDENTIFIED VOC	7518.7	4407.7(C)

(A) ARTIFACT COMPOUND - CONCENTRATION NOT USED IN TOTAL NMHC CALCULATIONS.

(B) VARIABLE RECOVERY THROUGH DRYING SYSTEM - CONCENTRATIONS NOT USED IN TOTAL NMHC CALCULATIONS.

(C) CONCENTRATIONS WERE CALCULATED USING VALUES OF 4 FOR THE CARBON NUMBER AND 86 FOR THE MOLECULAR WEIGHT.

RESULTS OF GAS CANISTER SPECIATION FOR TRENCH 1 - DOWNWIND

SITE
MASTER LOG NO: P-008
SAMPLE TYPE: GAS CANISTER

SAMPLING TECHNIQUE: FLUX CHAMBER

DATE SAMPLED:
DATE ANALYZED: 06/16/84

COMPOUND	CONCENTRATION (PPBV-C)	CONCENTRATION (UG/M**3)
PARAFFINS		
ISOBUTANE	49.3	29.3
3-METHYLPENTANE	202.8	119.2
N-HEXANE	72.4	42.5
2,4-DIMETHYLPENTANE	49.7	29.5
CYCLOHEXANE	76.4	43.9
2,2,4-TRIMETHYLPENTANE	105.5	61.6
3,5,5-TRIMEHEXANE	36.8	23.8
2,2,5-TRIMETHYLHEXANE	29.1	19.1
N-NONANE	255.6	149.6
N-DECANE	508.1	353.9
N-UNDECANE	409.4	235.0
C7 ALKANE	194.3	114.1
C8 ALKANE	112.4	65.6
C9 ALKANE	50.3	29.3
C10+ ALKANE	251.7	146.5
C10+ ALKANE	93.8	54.7
OLEFINS		
CYCLOHEXENE	46.2	27.3
2,4,4-TRIME-2-PENTENE	47.6	27.3
1-NONENE	408.4	238.2
A-PINENE	181.5	101.1
1-UNDECENE	114.4	65.6
C9 ALKENE	337.2	193.4
C8 ALKENE	75.4	43.3
C10+ ALKENE	466.4	267.6
C10+ ALKENE	1386.2	795.3
TOTAL AROMATICS		
BENZENE	299.7	154.8
TOLUENE	79.1	42.6
ETHYLBENZENE	94.7	51.4
P-XYLENE/M-XYLENE	213.4	114.2
STYRENE	252.3	138.8
O-XYLENE	428.7	229.4
ISOPROPYLBENZENE	390.3	213.2
N-PROPYLBENZENE	602.6	329.2
4-ETHYLTOLUENE	208.8	114.1
1,3,5-TRIMETHYLBENZENE	155.8	85.2
TOTAL AROMATICS (CONT'D)		
1,2,4-TRIMETHYLBENZENE	224.6	122.7
M-DIETHYLBENZENE	183.3	100.6
N-BUTYLBENZENE	156.9	86.1
NAPHTHALENE	133.3	73.0
C10+ AROMATIC	220.0	120.8
C10+ AROMATIC	139.4	76.5
C10+ AROMATIC	117.3	64.4
C10+ AROMATIC	114.2	62.7
C10+ AROMATIC	223.7	122.8
C10+ AROMATIC	184.0	101.0
C10+ AROMATIC	64.4	35.3
TOTAL HALOGENATED HC		
CARBON TETRACHLORIDE	28.1	176.8
UNIDENTIFIED HALOGENATED HC	21.6	33.3
UNIDENTIFIED HALOGENATED HC	6.3	9.7
TOTAL OXYGENATED HC(B)		
BUTANONE	452.2	333.4
UNIDENTIFIED VOC(C)		
UNIDENTIFIED VOC	105.5	61.8
UNIDENTIFIED VOC	253.3	148.5
UNIDENTIFIED VOC	100.0	58.6
UNIDENTIFIED VOC	157.8	92.5
UNIDENTIFIED VOC	242.9	142.4
UNIDENTIFIED VOC	198.9	116.6
UNIDENTIFIED VOC	79.4	46.5
UNIDENTIFIED VOC	223.7	131.1
PARAFFINS	2593.2	1516.5
OLEFINS	3065.1	1755.2
TOTAL AROMATICS	4663.9	2537.1
TOTAL HALOGENATED HC	56.0	219.7
TOTAL OXYGENATED HC	452.2	333.4(B)
UNIDENTIFIED VOC	1361.5	798.2(C)
TOTAL NMHC	11738.8	6826.6

(A) ARTIFACT COMPOUND - CONCENTRATION NOT USED IN TOTAL NMHC CALCULATIONS.

(B) VARIABLE RECOVERY THROUGH DRYING SYSTEM - CONCENTRATIONS NOT USED IN TOTAL NMHC CALCULATIONS.

(C) CONCENTRATIONS WERE CALCULATED USING VALUES OF 6 FOR THE CARBON NUMBER AND 85 FOR THE MOLECULAR WEIGHT.

RESULTS OF GAS CANISTER SPECIATION FOR TRENCH 1 - FOAM 91-59

SITE
MASTER LOG NO: 8-909
SAMPLE TYPE: GAS CANISTER

SAMPLING TECHNIQUE: FLUX CHAMBER

DATE SAMPLED:
DATE ANALYZED: 06/16/89

COMPOUND	CONCENTRATION (PPBV-C)	CONCENTRATION (UG/M**3)
PARAFFINS		
C-2 VOC	103.9	59.7
C-3 VOC	226.4	129.9
ISOBUTANE	870.5	519.5
N-BUTANE	27.7	16.5
NEOPENTANE	76.3	45.0
ISOPENTANE	155.9	92.1
N-PENTANE	106.6	63.0
NEOHEXANE	41.7	24.5
ISOHEXANE	88.6	52.1
3-METHYLPENTANE	489.0	287.3
N-HEXANE	274.5	161.3
METHYLCYCLOPENTANE	132.3	75.9
2,4-DIMETHYLPENTANE	111.5	65.3
CYCLOHEXANE	418.0	239.9
ISOHEPTANE	47.6	27.9
3-METHYLHEXANE	26.1	15.3
N-HEPTANE	73.1	46.3
METHYLCYCLOHEXANE	362.5	208.0
2,5-DIMETHYLHEXANE	297.2	173.5
3,5,5-TRIMEHEXANE	82.5	53.3
3-METHYLHEPTANE	121.1	70.7
N-OCTANE	44.8	26.2
N-NONANE	220.2	128.4
N-DECANE	541.2	315.0
N-UNDECANE	284.9	165.0
C7 ALKANE	3284.0	1922.6
C7 ALKANE	764.8	447.8
C7 ALKANE	140.1	82.0
C7 ALKANE	105.8	61.9
C7 ALKANE	49.0	28.7
C7 ALKANE	21.9	12.8
C8 ALKANE	774.2	452.0
C8 ALKANE	1671.0	975.6
C8 ALKANE	96.1	56.1
C9 ALKANE	129.9	75.7
C9 ALKANE	137.4	80.1
C9 ALKANE	127.4	74.3
C9 ALKANE	87.7	51.1
C9 ALKANE	114.1	66.5
C10+ ALKANE	166.9	97.1
C10+ ALKANE	40.1	23.3

COMPOUND	CONCENTRATION (PPBV-C)	CONCENTRATION (UG/M**3)
PARAFFINS (CONT'D)		
C10+ ALKANE	65.5	38.1
C10+ ALKANE	111.0	64.6
OLEFINS		
ISOBUTENE + 1-BUTENE	76.8	44.1
T-2-BUTENE	131.7	75.5
C-2-BUTENE	54.2	31.1
ISOPRENE	122.4	68.2
2-METHYL-2-BUTENE	61.9	29.5
T-4-METHYL-2-PENTENE	36.6	21.0
T-2-HEXENE	182.8	104.9
3-HEPTENE	67.9	39.0
2,4,4-TRIME-2-PENTENE	38.7	22.2
1-OCTENE	28.0	16.1
C-2-OCTENE	49.1	28.2
1-NONENE	43.0	24.7
B-PINENE	184.5	102.8
1-DECENE	129.1	74.1
1-UNDECENE	260.4	149.4
C6 ALKENE	32.9	18.9
C7 ALKENE	178.7	102.5
C7 ALKENE	94.2	54.0
C7 ALKENE	175.9	100.9
C8 ALKENE	95.1	54.6
C9 ALKENE	44.3	25.4
C9 ALKENE	49.3	28.3
C9 ALKENE	113.2	64.9
C9 ALKENE	173.5	99.5
C9 ALKENE	191.3	109.7
C10+ ALKENE	261.4	150.9
C10+ ALKENE	234.9	134.8
C10+ ALKENE	174.7	100.2
C10+ ALKENE	250.4	143.7
TOTAL AROMATICS		
BENZENE	543.0	289.1
TOLUENE	935.9	503.6
ETHYLBENZENE	488.8	265.4
P-XYLENE/M-XYLENE	1260.0	684.1

(A) ARTIFACT COMPOUND - CONCENTRATION NOT USED IN TOTAL NMHC CALCULATIONS.

(B) VARIABLE RECOVERY THROUGH DRYING SYSTEM - CONCENTRATIONS NOT USED IN TOTAL NMHC CALCULATIONS.

(C) CONCENTRATIONS WERE CALCULATED USING VALUES OF 6 FOR THE CARBON NUMBER AND 86 FOR THE MOLECULAR WEIGHT.

RESULTS OF GAS CANISTER SPECIATION FOR TRENCH 1 - FOAM 91-59 (Cont.)

SITE
MASTER LOG NO: P-009
SAMPLE TYPE: GAS CANISTER

SAMPLING TECHNIQUE: FLUX CHAMBER

DATE SAMPLED:
DATE ANALYZED: 06/16/84

COMPOUND	CONCENTRATION (PPBV-C)	CONCENTRATION (UG/M**3)
TOTAL AROMATICS (CONT'D)		
O-XYLENE	635.5	345.0
ISOPROPYLBENZENE	135.9	73.7
N-PROPYLBENZENE	332.2	181.5
M-ETHYLTOLUENE	824.8	450.5
1,3,5-TRIMETHYLBENZENE	487.6	266.3
O-ETHYLTOLUENE	376.2	205.5
1,2,4-TRIMETHYLBENZENE	1206.1	658.8
1,2,3-TRIMETHYLBENZENE	604.1	330.0
P-ISOPROPYLTOLUENE	225.5	123.8
M-DIETHYLBENZENE	133.4	73.2
N-BUTYLBENZENE	210.6	115.6
P-DIETHYLBENZENE	238.3	130.8
NAPHTHALENE	341.3	179.0
C10+ AROMATIC	158.7	87.1
C10+ AROMATIC	209.8	115.2
C10+ AROMATIC	208.2	114.8
C10+ AROMATIC	113.9	62.0
C10+ AROMATIC	147.5	81.0
C10+ AROMATIC	286.9	157.1
C10+ AROMATIC	241.0	132.3
C10+ AROMATIC	207.2	113.7
C10+ AROMATIC	95.4	52.4
C10+ AROMATIC	65.2	35.8
TOTAL HALOGENATED HC		
CHLOROMETHANE	7.1	14.7
METHYLENE CHLORIDE	1.5	5.2
CHLOROFORM	87.8	429.3
1,1,1-TRICHLOROETHANE	2.9	7.9
CARBON TETRACHLORIDE	14.1	88.7
1,2-DICHLOROPROPANE	4.0	5.2
TRICHLOROETHYLENE + BROMODICHLOROMETHANE	39.7	82.5
TETRACHLOROETHYLENE	4.8	16.3
UNIDENTIFIED HALOGENATED HC	9.4	14.5
UNIDENTIFIED HALOGENATED HC	6.5	10.0
UNIDENTIFIED HALOGENATED HC	2.9	4.5
UNIDENTIFIED HALOGENATED HC	2.5	3.9
UNIDENTIFIED HALOGENATED HC	2.9	4.5
UNIDENTIFIED HALOGENATED HC	2.1	3.2
UNIDENTIFIED HALOGENATED HC	4.5	6.9
TOTAL HALOGENATED HC (CONT'D)		
UNIDENTIFIED HALOGENATED HC	18.4	28.3
UNIDENTIFIED HALOGENATED HC	1.2	1.8
TOTAL OXYGENATED HC(B)		
METHANOL	101.1	132.3
PROPIONALDEHYDE	443.3	351.1
ACETONE	672.9	533.9
BUTYRALDEHYDE	1570.9	1231.8
BUTANONE	155.8	114.9
HEXANAL	181.2	123.8
UNIDENTIFIED VOC(C)		
UNIDENTIFIED VOC	164.0	96.1
UNIDENTIFIED VOC	39.2	23.0
UNIDENTIFIED VOC	178.3	104.5
UNIDENTIFIED VOC	28.2	16.5
UNIDENTIFIED VOC	88.4	51.8
PARAFFINS	13197.0	7716.8
OLEFINS	3536.9	2018.2
TOTAL AROMATICS	10859.8	5906.2
TOTAL HALOGENATED HC	224.9	761.4
TOTAL OXYGENATED HC	3225.2	2486.9(B)
UNIDENTIFIED VOC	498.1	292.0(C)
TOTAL NMHC	28316.7	16694.7

(A) ARTIFACT COMPOUND - CONCENTRATION NOT USED IN TOTAL NMHC CALCULATIONS.

(B) VARIABLE RECOVERY THROUGH DRYING SYSTEM - CONCENTRATIONS NOT USED IN TOTAL NMHC CALCULATIONS.

(C) CONCENTRATIONS WERE CALCULATED USING VALUES OF 6 FOR THE CARBON NUMBER AND 86 FOR THE MOLECULAR WEIGHT.

RESULTS OF GAS CANISTER SPECIATION FOR TRENCH 1 - SANIFOAM

SITE
MASTER LOG NO: P-010
SAMPLE TYPE: GAS CANISTER

SAMPLING TECHNIQUE: FLUX CHAMBER

DATE SAMPLED:
DATE ANALYZED: 06/16/84

COMPOUND	CONCENTRATION (PPBV-C)	CONCENTRATION (UG/M**3)
PARAFFINS		
C-2 VOC	63.1	36.3
C-3 VOC	38.6	22.2
ISOBUTANE	8358.0	4965.3
N-BUTANE	77.7	46.2
NEOPENTANE	776.9	458.1
ISOPENTANE	917.3	542.1
N-PENTANE	209.5	123.8
CYCLOPENTANE	28.7	16.5
2,3-DIMETHYLBUTANE	188.5	110.8
ISOHEXANE	438.7	257.8
3-METHYLPENTANE	328.5	193.0
N-HEXANE	164.7	96.8
METHYLCYCLOPENTANE	243.9	139.9
2,4-DIMETHYLPENTANE	305.2	178.7
CYCLOHEXANE	172.8	99.2
ISOHEPTANE	1144.0	669.8
3-METHYLHEXANE	169.3	99.1
N-HEPTANE	308.6	180.7
METHYLCYCLOHEXANE	394.4	226.3
2,5-DIMETHYLHEXANE	126.3	73.7
3,5,5-TRIMEHEXANE	504.5	325.8
3-METHYLHEPTANE	467.6	273.0
2,2,5-TRIMETHYLHEXANE	113.0	78.1
N-OCTANE	288.3	168.3
N-NONANE	694.8	405.1
N-DECANE	1007.3	586.1
N-UNDECANE	154.2	89.6
C7 ALKANE	1972.0	1154.5
C7 ALKANE	124.2	72.7
C7 ALKANE	113.0	66.2
C7 ALKANE	84.9	49.2
C7 ALKANE	194.8	114.0
C7 ALKANE	85.4	50.0
C8 ALKANE	2462.0	1437.4
C8 ALKANE	170.4	99.5
C8 ALKANE	141.9	82.8
C9 ALKANE	43.6	25.4
C9 ALKANE	248.2	144.7
C9 ALKANE	122.5	71.5
C9 ALKANE	132.0	77.0
C9 ALKANE	222.8	129.9
PARAFFINS (CONT'D)		
C10+ ALKANE	106.0	62.2
C10+ ALKANE	156.1	90.9
C10+ ALKANE	201.2	117.1
C10+ ALKANE	39.4	22.9
OLEFINS		
T-2-BUTENE	260.3	149.3
C-2-BUTENE	105.5	60.5
ISOPRENE	620.0	345.4
2-METHYL-2-BUTENE	89.2	42.6
T-4-METHYL-2-PENTENE	28.4	16.3
T-2-HEXENE	297.3	170.6
3-HEPTENE	65.1	37.4
2,4,4-TRIME-2-PENTENE	69.3	39.8
1-METHYLCYCLOHEXENE	156.4	87.9
1-OCTENE	78.7	45.1
C-2-OCTENE	138.4	79.4
1-NONENE	47.9	27.5
B-PINENE	355.6	198.1
1-DECENE	130.6	74.9
1-UNDECENE	57.6	33.0
C8 ALKENE	53.4	36.4
C8 ALKENE	213.9	122.7
C8 ALKENE	69.1	39.6
C9 ALKENE	86.4	49.6
C9 ALKENE	91.9	52.7
C9 ALKENE	192.1	110.2
C9 ALKENE	534.9	306.8
C9 ALKENE	116.0	66.5
C9 ALKENE	211.6	121.4
C9 ALKENE	301.1	172.7
C10+ ALKENE	325.3	186.7
C10+ ALKENE	650.8	373.4
C10+ ALKENE	169.5	97.3
C10+ ALKENE	92.4	53.0
TOTAL AROMATICS		
BENZENE	962.4	512.4
TOLUENE	1057.0	568.8

(A) ARTIFACT COMPOUND - CONCENTRATION NOT USED IN TOTAL NMHC CALCULATIONS.

(B) VARIABLE RECOVERY THROUGH DRYING SYSTEM - CONCENTRATIONS NOT USED IN TOTAL NMHC CALCULATIONS.

(C) CONCENTRATIONS WERE CALCULATED USING VALUES OF 6 FOR THE CARBON NUMBER AND 86 FOR THE MOLECULAR WEIGHT.

RESULTS OF GAS CANISTER SPECIATION FOR TRENCH 1 - SANIFOAM (Cont.)

SITE
MASTER LOG NO: P-010
SAMPLE TYPE: GAS CANISTER

SAMPLING TECHNIQUE: FLUX CHAMBER

DATE SAMPLED:
DATE ANALYZED: 06/16/84

COMPOUND	CONCENTRATION (PPBV-C)	CONCENTRATION (UG/M**3)
TOTAL AROMATICS (CONT'D)		
P-XYLENE/M-XYLENE	782.5	424.9
O-XYLENE	302.5	164.2
ISOPROPYLBENZENE	276.0	150.8
N-PROPYLBENZENE	236.7	129.3
M-ETHYLTOLUENE	477.8	261.0
1,3,5-TRIMETHYLBENZENE	493.6	269.6
1,2,4-TRIMETHYLBENZENE	571.1	312.0
1,2,3-TRIMETHYLBENZENE	415.2	226.8
P-ISOPROPYLTOLUENE	94.2	51.7
M-DIETHYLBENZENE	136.4	74.9
N-BUTYLBENZENE	210.3	115.4
P-DIETHYLBENZENE	68.8	37.8
NAPHTHALENE	153.6	80.5
C9 AROMATIC	409.8	223.9
C10+ AROMATIC	347.9	191.0
C10+ AROMATIC	125.0	68.6
TOTAL HALOGENATED HC		
METHYLENE CHLORIDE	469.9	1631.7
1,2-DICHLOROETHANE	102.9	208.3
1,1,1-TRICHLOROETHANE	458.2	1250.0
CARBON TETRACHLORIDE	820.4	5160.7
1,2-DICHLOROPROPANE	4512.0	6951.0
TRICHLOROETHYLENE + BROMODICHLOROMETHANE	1761.9	4732.9
1,1,2-TRICHLOROETHANE	154.8	422.3
TETRACHLOROETHYLENE	255.1	864.9
1,1-DICHLOROETHANE	1457.8	2946.8
UNIDENTIFIED HALOGENATED HC	27050.0	41672.3
UNIDENTIFIED HALOGENATED HC	5974.0	9203.3
UNIDENTIFIED HALOGENATED HC	3405.0	5245.6
UNIDENTIFIED HALOGENATED HC	3038.0	4680.2
UNIDENTIFIED HALOGENATED HC	659.7	1014.8
UNIDENTIFIED HALOGENATED HC	84.3	129.9
UNIDENTIFIED HALOGENATED HC	25670.9	39546.3
UNIDENTIFIED HALOGENATED HC	83.8	129.1
UNIDENTIFIED HALOGENATED HC	4674.0	7200.6
UNIDENTIFIED HALOGENATED HC	625.8	964.1
UNIDENTIFIED HALOGENATED HC	4603.0	7091.2
UNIDENTIFIED HALOGENATED HC	334.6	515.5

COMPOUND	CONCENTRATION (PPBV-C)	CONCENTRATION (UG/M**3)
TOTAL OXYGENATED HC(B)		
PROPIONALDEHYDE	154.5	122.4
ACETONE	1571.1	1244.5
BUTYRALDEHYDE	1108.0	816.8
BUTANONE	541.1	398.9
HEXANAL	227.1	155.1
UNIDENTIFIED VOC(C)		
UNIDENTIFIED VOC	130.4	78.4
UNIDENTIFIED VOC	322.9	189.3
UNIDENTIFIED VOC	35.9	21.0
UNIDENTIFIED VOC	598.6	298.2
UNIDENTIFIED VOC	90.3	52.9
UNIDENTIFIED VOC	91.4	53.6
UNIDENTIFIED VOC	147.8	86.5
UNIDENTIFIED VOC	54.4	31.9
UNIDENTIFIED VOC	89.3	52.4
PARAFFINS	24683.2	14546.5
OLEFINS	5618.7	3196.7
TOTAL AROMATICS	7434.8	4033.9
TOTAL HALOGENATED HC	85192.5	141560.8
TOTAL OXYGENATED HC	3601.8	2737.7(B)
UNIDENTIFIED VOC	1470.8	862.2(C)
TOTAL NMHC	125400.0	164200.2

(A) ARTIFACT COMPOUND - CONCENTRATION NOT USED IN TOTAL NMHC CALCULATIONS.

(B) VARIABLE RECOVERY THROUGH DRYING SYSTEM - CONCENTRATIONS NOT USED IN TOTAL NMHC CALCULATIONS.

(C) CONCENTRATIONS WERE CALCULATED USING VALUES OF 6 FOR THE CARBON NUMBER AND 86 FOR THE MOLECULAR WEIGHT.

RESULTS OF GAS CANISTER SPECIATION FOR TRENCH 2 - FOAM 91-60

SITE
MASTER LOG NO: P-011
SAMPLE TYPE: GAS CANISTER

SAMPLING TECHNIQUE: FLUX CHAMBER

DATE SAMPLED:
DATE ANALYZED: 06/16/84

COMPOUND	CONCENTRATION (PPBV-C)	CONCENTRATION (UG/M**3)
PARAFFINS		
C-2 VOC	273.7	157.3
C-3 VOC	596.3	342.3
ISOBUTANE	7056.0	4191.8
N-BUTANE	507.4	301.4
NEOPENTANE	942.4	555.8
ISOPENTANE	1806.9	1066.6
N-PENTANE	812.5	479.9
NEOHEXANE	125.1	74.1
CYCLOPENTANE	250.2	143.5
2,3-DIMETHYLBUTANE	305.3	179.4
ISOHEXANE	840.6	493.9
N-HEXANE	1716.0	1008.3
METHYLCYCLOPENTANE	1987.2	1149.5
2,4-DIMETHYLPENTANE	1689.0	988.8
CYCLOHEXANE	1351.0	775.4
ISOHEPTANE	598.7	350.5
3-METHYLHEXANE	460.8	269.8
2,2,4-TRIMETHYLPENTANE	913.3	533.2
N-HEPTANE	1097.0	642.2
METHYLCYCLOHEXANE	2350.0	1348.4
2,5-DIMETHYLHEXANE	921.5	538.1
3,5,5-TRIMEHEXANE	436.1	281.6
3-METHYLHEPTANE	728.3	425.2
2,2,5-TRIMETHYLHEXANE	74.3	49.1
N-OCTANE	489.9	286.0
N-NONANE	806.4	470.2
N-DECANE	822.4	478.6
N-UNDECANE	750.8	436.3
C5 ALKANE	50.3	29.4
C5 ALKANE	215.5	127.2
C7 ALKANE	3937.0	2304.9
C7 ALKANE	389.6	229.1
C7 ALKANE	513.9	300.9
C7 ALKANE	396.8	232.3
C7 ALKANE	452.0	264.6
C8 ALKANE	4390.9	2563.1
C8 ALKANE	66.9	39.1
C9 ALKANE	93.5	54.5
C9 ALKANE	401.9	234.3
C9 ALKANE	801.2	467.1
C9 ALKANE	338.2	197.2
PARAFFINS (CONT'D)		
C9 ALKANE	159.3	92.9
C9 ALKANE	141.3	82.4
C10+ ALKANE	648.9	377.7
C10+ ALKANE	242.6	141.2
C10+ ALKANE	196.5	114.4
OLEFINS		
ISOBUTENE + 1-BUTENE	364.6	209.1
T-2-BUTENE	965.7	553.9
C-2-BUTENE	391.8	224.7
CYCLOPENTENE	42.4	23.6
T-4-METHYL-2-PENTENE	138.9	79.7
2-METHYL-1-PENTENE	448.5	257.4
T-2-HEXENE	2121.0	1217.4
C-2-HEXENE	36.3	20.8
CYCLOHEXENE	653.4	369.7
2,4,4-TRIME-2-PENTENE	353.1	202.5
1-OCTENE	1613.0	925.3
C-2-OCTENE	195.6	112.2
A-PINENE	156.7	92.9
B-PINENE	614.0	342.0
1-DECENE	154.6	88.7
LIMONENE	254.9	142.0
1-UNDECENE	1108.4	635.9
C7 ALKENE	1471.0	844.0
C7 ALKENE	799.7	458.8
C8 ALKENE	487.5	279.6
C8 ALKENE	4189.0	2402.9
C8 ALKENE	499.7	286.6
C9 ALKENE	233.6	134.0
C9 ALKENE	529.3	303.6
C9 ALKENE	352.9	202.4
C9 ALKENE	235.3	169.4
C10+ ALKENE	1585.0	909.5
C10+ ALKENE	718.6	412.4
TOTAL AROMATICS		
BENZENE	4750.0	2528.8
TOLUENE	208300.0	112091.9

(A) ARTIFACT COMPOUND - CONCENTRATION NOT USED IN TOTAL NMHC CALCULATIONS.

(B) VARIABLE RECOVERY THROUGH DRYING SYSTEM - CONCENTRATIONS NOT USED IN TOTAL NMHC CALCULATIONS.

(C) CONCENTRATIONS WERE CALCULATED USING VALUES OF 5 FOR THE CARBON NUMBER AND 86 FOR THE MOLECULAR WEIGHT.

RESULTS OF GAS CANISTER SPECIATION FOR TRENCH 2 - FOAM 91-60 (Cont.)

SITE
MASTER LOG NO: P-011
SAMPLE TYPE: GAS CANISTER

SAMPLING TECHNIQUE: FLUX CHAMBER

DATE SAMPLED:
DATE ANALYZED: 06/16/84

COMPOUND	CONCENTRATION (PPBV-C)	CONCENTRATION (UG/M**3)
TOTAL AROMATICS (CONT'D)		
P-XYLENE/M-XYLENE	23670.0	12851.6
O-XYLENE	7835.0	4254.0
ISOPROPYLBENZENE	714.0	390.0
N-PROPYLBENZENE	2116.0	1155.8
M-ETHYLTOLUENE	7799.0	4260.1
1,3,5-TRIMETHYLBENZENE	3385.0	1849.0
O-ETHYLTOLUENE	2605.0	1423.0
1,2,4-TRIMETHYLBENZENE	10510.0	5741.0
ISOBUTYLBENZENE	962.0	528.5
1,2,3-TRIMETHYLBENZENE	3668.0	2003.6
P-ISOPROPYLTOLUENE	680.5	373.5
INDAN	958.2	514.7
INDENE	116.0	61.7
M-DIETHYLBENZENE	580.3	318.8
N-BUTYLBENZENE	1379.0	756.9
NAPHTHALENE	740.3	388.2
C20+ AROMATIC	258.8	142.0
C20+ AROMATIC	1306.0	716.8
C20+ AROMATIC	1096.3	601.6
C10+ AROMATIC	211.5	116.1
C20+ AROMATIC	588.8	323.2
C10+ AROMATIC	1611.0	884.2
C10+ AROMATIC	519.5	285.1
C20+ AROMATIC	346.4	190.1
C10+ AROMATIC	731.0	401.2
C20+ AROMATIC	199.2	109.3
C10+ AROMATIC	1014.0	556.6
C20+ AROMATIC	404.8	222.2
C20+ AROMATIC	794.2	435.9
C10+ AROMATIC	406.1	222.9
C20+ AROMATIC	261.7	143.6
C20+ AROMATIC	111.2	61.0
C10+ AROMATIC	167.4	91.9
C20+ AROMATIC	55.4	30.4
C10+ AROMATIC	115.0	63.7
C20+ AROMATIC	105.0	57.6
TOTAL HALOGENATED HC		
CHLOROMETHANE	5232.0	10806.4
TRICHLOROFLOROMETHANE	5771.0	32218.6(A)

COMPOUND	CONCENTRATION (PPBV-C)	CONCENTRATION (UG/M**3)
TOTAL HALOGENATED HC (CONT'D)		
METHYLENE CHLORIDE	2509.0	8712.3
T-1,2-DICHLOROETHYLENE	542.1	1074.2
1,1,1-TRICHLOROETHANE	4505.0	12289.8
CARBON TETRACHLORIDE	906.9	5704.8
1,2-DICHLOROPROPANE	1535.0	2364.8
TRICHLOROETHYLENE + BROMODICHLOROMETHANE	34510.0	92732.9
1,1,2-TRICHLOROETHANE	1123.0	3063.6
TETRACHLOROETHYLENE	2087.0	7076.2
CHLOROBENZENE	356.4	273.6
P-DICHLOROBENZENE	47.0	47.1
O-DICHLOROBENZENE	156.2	156.5
UNIDENTIFIED HALOGENATED HC	270.8	417.2
UNIDENTIFIED HALOGENATED HC	161.1	248.2
UNIDENTIFIED HALOGENATED HC	200.7	309.2
UNIDENTIFIED HALOGENATED HC	1814.0	2794.6
UNIDENTIFIED HALOGENATED HC	5117.0	7883.1
UNIDENTIFIED HALOGENATED HC	355.9	548.3
UNIDENTIFIED HALOGENATED HC	249.1	383.8
UNIDENTIFIED HALOGENATED HC	384.1	591.7
UNIDENTIFIED HALOGENATED HC	254.2	391.6
UNIDENTIFIED HALOGENATED HC	326.2	502.5
UNIDENTIFIED HALOGENATED HC	438.3	675.2
UNIDENTIFIED HALOGENATED HC	972.7	1498.5
UNIDENTIFIED HALOGENATED HC	252.1	388.4
UNIDENTIFIED HALOGENATED HC	55.8	86.0
UNIDENTIFIED HALOGENATED HC	300.5	462.9
UNIDENTIFIED HALOGENATED HC	542.1	835.1
UNIDENTIFIED HALOGENATED HC	3724.0	5737.1
UNIDENTIFIED HALOGENATED HC	483.2	744.4
UNIDENTIFIED HALOGENATED HC	1323.0	2038.2
UNIDENTIFIED HALOGENATED HC	3210.0	4945.2
UNIDENTIFIED HALOGENATED HC	1137.0	1751.6
UNIDENTIFIED HALOGENATED HC	410.0	631.6
UNIDENTIFIED HALOGENATED HC	581.1	895.2
UNIDENTIFIED HALOGENATED HC	336.7	518.7
UNIDENTIFIED HALOGENATED HC	247.9	381.9
UNIDENTIFIED HALOGENATED HC	290.6	447.7
UNIDENTIFIED HALOGENATED HC	34.4	53.0
UNIDENTIFIED HALOGENATED HC	14720.0	22677.1

(A) ARTIFACT COMPOUND - CONCENTRATION NOT USED IN TOTAL NMHC CALCULATIONS.

(B) VARIABLE RECOVERY THROUGH DRYING SYSTEM - CONCENTRATIONS NOT USED IN TOTAL NMHC CALCULATIONS.

(C) CONCENTRATIONS WERE CALCULATED USING VALUES OF 6 FOR THE CARBON NUMBER AND 86 FOR THE MOLECULAR WEIGHT.

RESULTS OF GAS CANISTER SPECIATION FOR TRENCH 2 - FOAM 91-60 (Cont.).

SITE
MASTER LOG NO: P-011
SAMPLE TYPE: GAS CANISTER

SAMPLING TECHNIQUE: FLUX CHAMBER

DATE SAMPLED:
DATE ANALYZED: 06/16/84

COMPOUND	CONCENTRATION (PPBV-C)	CONCENTRATION (UG/M**3)
TOTAL OXYGENATED HC(B)		
ACETONE	1713.0	1356.9
BUTYRALDEHYDE	969.1	714.4
BUTANONE	1764.0	1300.5
HEXANAL	648.5	442.9
UNIDENTIFIED VOC(C)		
UNIDENTIFIED VOC	136.9	80.3
UNIDENTIFIED VOC	536.2	314.3
UNIDENTIFIED VOC	73.2	42.9
UNIDENTIFIED VOC	305.7	173.2
UNIDENTIFIED VOC	81.9	48.0
UNIDENTIFIED VOC	404.9	237.4
UNIDENTIFIED VOC	212.9	124.8
UNIDENTIFIED VOC	107.5	62.9
PARAFFINS	44973.3	26342.0
OLEFINS	20784.5	11901.2
TOTAL AROMATICS	330631.5	162335.7
TOTAL HALOGENATED HC	93257.1	206221.6
TOTAL OXYGENATED HC	5094.5	3814.7(B)
UNIDENTIFIED VOC	1859.0	1089.8(C)
TOTAL NMHC	461505.4	407893.2

(A) ARTIFACT COMPOUND - CONCENTRATION NOT USED IN TOTAL NMHC CALCULATIONS.

(B) VARIABLE RECOVERY THROUGH DRYING SYSTEM - CONCENTRATIONS NOT USED IN TOTAL NMHC CALCULATIONS.

(C) CONCENTRATIONS WERE CALCULATED USING VALUES OF 6 FOR THE CARBON NUMBER AND 86 FOR THE MOLECULAR WEIGHT.

RESULTS OF GAS CANISTER SPECIATION FOR TRENCH 2 - NO FOAM

SITE
MASTER LOG NO: P-013
SAMPLE TYPE: GAS CANISTER

SAMPLING TECHNIQUE: FLUX CHAMBER

DATE SAMPLED:
DATE ANALYZED: 06/16/84

COMPOUND	CONCENTRATION (PPBV-C)	CONCENTRATION (UG/M**3)
PARAFFINS		
C-2 VOC	557.0	325.8
C-3 VOC	711.7	408.5
ISOBUTANE	538.7	329.0
N-BUTANE	641.1	383.9
ISOPENTANE	2377.0	1403.8
N-PENTANE	2428.0	1434.0
NEOHEXANE	43.0	25.3
CYCLOPENTANE	771.5	442.4
2,3-DIMETHYLBUTANE	710.9	417.7
ISOHEXANE	3132.0	1840.4
3-METHYLPENTANE	2386.0	1402.0
N-HEXANE	4593.0	2698.8
2,4-DIMETHYLPENTANE	2423.0	1418.6
CYCLOHEXANE	2437.0	1398.7
ISOHEPTANE	5550.0	3249.3
3-METHYLHEXANE	3759.0	2200.7
2,2,4-TRIMETHYLPENTANE	298.8	174.5
N-HEPTANE	9972.0	5838.1
METHYLCYCLOHEXANE	10190.0	5846.7
2,5-DIMETHYLHEXANE	3158.0	1843.8
2,3,4-TRIMETHYLPENTANE	1273.0	743.2
3,5,5-TRIMEHEXANE	6270.0	4048.6
3-METHYLHEPTANE	7972.0	4654.4
2,2,5-TRIMETHYLHEXANE	1935.0	1269.2
N-OCTANE	8989.0	5248.2
N-NONANE	32770.0	19106.6
N-DECANE	44530.0	25916.8
N-UNDECANE	7909.0	4596.3
C7 ALKANE	5219.0	3055.5
C7 ALKANE	299.7	175.5
C7 ALKANE	234.3	137.2
C7 ALKANE	2310.0	1352.4
C7 ALKANE	1873.0	1096.6
C7 ALKANE	3968.0	2323.1
C8 ALKANE	597.4	348.8
C8 ALKANE	1356.0	791.7
C8 ALKANE	1694.0	989.0
C8 ALKANE	2172.0	1268.1
C8 ALKANE	2330.0	1360.4
C8 ALKANE	1930.0	1126.8
C9 ALKANE	2191.0	1277.5
C9 ALKANE	3616.0	2108.3
C9 ALKANE	7364.0	4293.6
C9 ALKANE	7926.0	4521.3
C10+ ALKANE	12330.0	7176.1
C10+ ALKANE	6745.0	3925.6
C10+ ALKANE	19300.0	11232.7
C10+ ALKANE	11100.0	6460.3
C10+ ALKANE	3187.0	1854.9
C10+ ALKANE	9751.0	5675.1
C10+ ALKANE	4486.0	2610.9
C10+ ALKANE	14430.0	8398.4
C10+ ALKANE	619.5	360.6
C10+ ALKANE	396.0	230.5
C10+ ALKANE	163.5	95.2
OLEFINS		
ISOBUTENE + 1-BUTENE	155.4	89.1
T-2-BUTENE	648.4	371.9
C-2-BUTENE	357.7	205.2
3-METHYL-1-BUTENE	22.4	12.8
1-PENTENE	360.9	206.9
2-METHYL-1-BUTENE	165.8	95.1
T-2-PENTENE	446.2	255.9
C-2-PENTENE	128.4	72.5
CYCLOPENTENE	55.7	31.0
T-4-METHYL-2-PENTENE	1847.0	1060.1
2-METHYL-2-PENTENE	28.4	16.3
T-2-HEXENE	1900.0	1090.5
C-2-HEXENE	114.7	65.8
2,4,4-TRIME-1-PENTENE	271.1	155.5
1-OCTENE	2118.0	1214.9
C-2-OCTENE	463.5	265.9
1-NONENE	13660.0	7834.1
A-PINENE	5965.0	3322.9
B-PINENE	20350.0	11336.1
1-DECENE	6012.0	3449.8
LIMONENE	5427.0	3023.2
1-UNDECENE	4275.0	2452.6
C7 ALKENE	261.6	150.1
C7 ALKENE	28.0	16.1

(A) ARTIFACT COMPOUND - CONCENTRATION NOT USED IN TOTAL NMHC CALCULATIONS.

(B) VARIABLE RECOVERY THROUGH DRYING SYSTEM - CONCENTRATIONS NOT USED IN TOTAL NMHC CALCULATIONS.

(C) CONCENTRATIONS WERE CALCULATED USING VALUES OF 4 FOR THE CARBON NUMBER AND 86 FOR THE MOLECULAR WEIGHT.

RESULTS OF GAS CANISTER SPECIATION FOR TRENCH 2 - NO FOAM (Cont.)

SITE
MASTER LOG NO: P-013
SAMPLE TYPE: GAS CANISTER

SAMPLING TECHNIQUE: FLUX CHAMBER

DATE SAMPLED:
DATE ANALYZED: 06/16/84

COMPOUND	CONCENTRATION (PPBV-C)	CONCENTRATION (UG/M**3)
OLEFINS (CONT'D)		
C9 ALKENE	1242.0	712.3
C9 ALKENE	882.3	506.0
C9 ALKENE	829.9	475.0
C9 ALKENE	8085.0	4636.8
C10+ ALKENE	14050.0	8062.3
C10+ ALKENE	7606.0	4364.5
C10+ ALKENE	3612.0	2072.7
C10+ ALKENE	3880.0	2226.4
C10+ ALKENE	3322.0	1906.3
C10+ ALKENE	11000.0	6312.1
C10+ ALKENE	7469.0	4285.9
C10+ ALKENE	1897.0	1088.5
C10+ ALKENE	3493.0	2004.4
C10+ ALKENE	373.0	214.0
TOTAL AROMATICS		
BENZENE	5687.0	3027.7
TOLUENE	38480.0	20707.1
ETHYLBENZENE	23360.0	12683.3
P-XYLENE/M-XYLENE	55660.0	30220.5
O-XYLENE	20980.0	11391.0
N-PROPYLBENZENE	10380.0	5670.0
M-ETHYLTOLUENE	27390.0	14961.6
1,3,5-TRIMETHYLBENZENE	27020.0	14759.5
O-ETHYLTOLUENE	33820.0	18473.9
1,2,4-TRIMETHYLBENZENE	38510.0	21035.8
ISOBUTYLBENZENE	6420.0	3523.8
1,2,3-TRIMETHYLBENZENE	15260.0	8390.3
INDAN	6580.0	3534.5
M-DIETHYLBENZENE	6784.0	3723.6
N-BUTYLBENZENE	7935.0	4355.3
P-DIETHYLBENZENE	5806.0	3186.8
NAPHTHALENE	777.0	407.4
C10+ AROMATIC	7345.0	4031.5
C10+ AROMATIC	2614.0	1434.8
C10+ AROMATIC	983.5	539.8
C10+ AROMATIC	1446.0	793.7
C10+ AROMATIC	3370.0	1849.7
C10+ AROMATIC	3594.0	1972.7
C10+ AROMATIC	1010.0	554.4

COMPOUND	CONCENTRATION (PPBV-C)	CONCENTRATION (UG/M**3)
TOTAL AROMATICS (CONT'D)		
C10+ AROMATIC	571.5	313.7
C10+ AROMATIC	413.3	226.9
C10+ AROMATIC	619.1	334.9
C10+ AROMATIC	2075.0	1138.9
C10+ AROMATIC	241.7	132.7
TOTAL HALOGENATED HC		
TRICHLOROFLOROMETHANE	178.6	997.1(A)
METHYLENE CHLORIDE	4151.0	14414.0
CHLOROFORM	137.9	673.4
1,2-DICHLOROETHANE	722.5	1462.7
1,1,1-TRICHLOROETHANE	4813.0	13130.0
CARBON TETRACHLORIDE	269.6	1695.9
1,2-DICHLOROPROPANE	186.6	287.5
TRICHLOROETHYLENE + BROMODICHLOROMETHANE	52280.0	140483.1
1,1,2-TRICHLOROETHANE	74.7	203.8
TETRACHLOROETHYLENE	3316.0	11243.3
CHLOROBENZENE	359.7	276.1
1,1-DICHLOROETHANE	297.6	601.9
UNIDENTIFIED HALOGENATED HC	97.0	149.4
UNIDENTIFIED HALOGENATED HC	146.9	226.3
UNIDENTIFIED HALOGENATED HC	382.7	589.6
UNIDENTIFIED HALOGENATED HC	57.4	88.4
UNIDENTIFIED HALOGENATED HC	103.5	159.4
UNIDENTIFIED HALOGENATED HC	834.3	1285.3
UNIDENTIFIED HALOGENATED HC	50.9	78.4
UNIDENTIFIED HALOGENATED HC	79.5	122.5
UNIDENTIFIED HALOGENATED HC	68.3	105.2
UNIDENTIFIED HALOGENATED HC	91.0	140.2
TOTAL OXYGENATED HC(B)		
METHANOL	193.3	253.0
ACETONE	1222.0	957.9
BUTYRALDEHYDE	239.0	176.2
HEXANAL	626.8	428.1

(A) ARTIFACT COMPOUND - CONCENTRATION NOT USED IN TOTAL NMHC CALCULATIONS.

(B) VARIABLE RECOVERY THROUGH DRYING SYSTEM - CONCENTRATIONS NOT USED IN TOTAL NMHC CALCULATIONS.

(C) CONCENTRATIONS WERE CALCULATED USING VALUES OF 6 FOR THE CARBON NUMBER AND 86 FOR THE MOLECULAR WEIGHT.

RESULTS OF GAS CANISTER SPECIATION FOR TRENCH 2 - NO FOAM (Cont.)

SITE
MASTER LOG NO: P-013
SAMPLE TYPE: GAS CANISTER

SAMPLING TECHNIQUE: FLUX CHAMBER

DATE SAMPLED:
DATE ANALYZED: 06/16/84

COMPOUND	CONCENTRATION (PPBV-C)	CONCENTRATION (UG/M**3)	COMPOUND	CONCENTRATION (PPBV-C)	CONCENTRATION (UG/M**3)
UNIDENTIFIED VOC(C)					
UNIDENTIFIED VOC	62.3	36.5			
PARAFFINS	299682.1	175190.4			
OLEFINS	134916.4	75875.9			
TOTAL AROMATICS	355608.3	193586.9			
TOTAL HALOGENATED HC	68520.1	187415.5			
TOTAL OXYGENATED HC	2281.1	1825.3(B)			
UNIDENTIFIED VOC	62.3	36.5(C)			
TOTAL NMHC	858783.2	533106.2			

(A) ARTIFACT COMPOUND - CONCENTRATION NOT USED IN TOTAL NMHC CALCULATIONS.

(B) VARIABLE RECOVERY THROUGH DRYING SYSTEM - CONCENTRATIONS NOT USED IN TOTAL NMHC CALCULATIONS.

(C) CONCENTRATIONS WERE CALCULATED USING VALUES OF 6 FOR THE CARBON NUMBER AND 86 FOR THE MOLECULAR WEIGHT.

RESULTS OF GAS CANISTER SPECIATION FOR TRENCH 2 - FOAM FC-600

SITE
MASTER LOG NO: P-014
SAMPLE TYPE: GAS CANISTER

SAMPLING TECHNIQUE: FLUX CHAMBER

DATE SAMPLED:
DATE ANALYZED: 06/17/84

COMPOUND	CONCENTRATION (PPBV-C)	CONCENTRATION (UG/M**3)
PARAFFINS		
C-2 VOC	309.8	178.0
C-3 VOC	110.9	83.6
ISOBUTANE	1893.0	1128.1
N-BUTANE	149.0	88.5
NEOPENTANE	336.0	199.2
ISOPENTANE	480.9	284.0
N-PENTANE	316.0	186.6
NEOHEXANE	52.5	30.8
CYCLOPENTANE	141.4	81.1
2,3-DIMETHYLBUTANE	119.2	70.0
ISOHEXANE	288.5	169.6
3-METHYLPENTANE	324.4	190.6
N-HEXANE	524.2	308.0
METHYLCYCLOPENTANE	723.5	415.3
2,4-DIMETHYLPENTANE	720.6	421.9
CYCLOHEXANE	316.4	181.6
ISOHEPTANE	196.3	114.9
3-METHYLHEXANE	171.5	100.4
N-HEPTANE	405.7	237.5
METHYLCYCLOHEXANE	932.3	534.8
2,5-DIMETHYLHEXANE	1210.0	706.5
2,3,4-TRIMETHYLPENTANE	146.7	85.7
3,5,5-TRIMEHEXANE	156.0	103.7
3-METHYLHEPTANE	238.9	139.5
2,2,5-TRIMETHYLHEXANE	124.5	81.7
N-OCTANE	209.7	122.4
N-NONANE	406.6	237.1
N-DECANE	767.4	446.6
N-UNDECANE	322.3	187.3
C6 ALKANE	244.1	143.4
C6 ALKANE	206.2	121.2
C7 ALKANE	162.5	95.1
C7 ALKANE	284.2	166.4
C8 ALKANE	238.0	133.0
C8 ALKANE	57.6	33.6
C9 ALKANE	49.5	28.9
C9 ALKANE	304.1	178.5
C9 ALKANE	200.0	116.6
C9 ALKANE	95.6	55.7
C9 ALKANE	319.3	186.2
C9 ALKANE	127.8	74.5
PARAFFINS (CONT'D)		
C10+ ALKANE	424.8	247.2
C10+ ALKANE	244.9	142.5
C10+ ALKANE	78.6	45.7
C10+ ALKANE	138.0	80.3
C10+ ALKANE	282.3	164.3
C10+ ALKANE	234.8	136.7
C10+ ALKANE	211.5	123.1
C10+ ALKANE	105.0	61.1
C10+ ALKANE	99.7	58.0
C10+ ALKANE	185.2	107.8
C10+ ALKANE	133.2	77.5
C10+ ALKANE	197.9	115.2
C10+ ALKANE	144.6	84.2
OLEFINS		
ISOBUTENE + 1-BUTENE	150.7	86.4
T-2-BUTENE	360.7	206.9
C-2-BUTENE	210.9	121.0
T-2-PENTENE	104.2	59.8
T-4-METHYL-2-PENTENE	142.8	82.0
T-2-HEXENE	681.9	391.4
3-HEPTENE	122.1	70.1
2,4,4-TRIME-2-PENTENE	146.2	83.9
1-DECENE	53.3	30.6
1-UNDECENE	325.6	186.8
C6 ALKENE	104.1	59.7
C7 ALKENE	445.7	255.7
C7 ALKENE	175.1	100.5
C8 ALKENE	84.1	48.2
C8 ALKENE	195.4	112.1
C9 ALKENE	1209.0	693.4
C9 ALKENE	82.9	47.5
C10+ ALKENE	219.2	125.8
C10+ ALKENE	406.3	233.1
C10+ ALKENE	594.0	340.9
C10+ ALKENE	426.9	245.0
C10+ ALKENE	298.2	171.1
C10+ ALKENE	76.3	43.8

(A) ARTIFACT COMPOUND - CONCENTRATION NOT USED IN TOTAL NMHC CALCULATIONS.

(B) VARIABLE RECOVERY THROUGH DRYING SYSTEM - CONCENTRATIONS NOT USED IN TOTAL NMHC CALCULATIONS.

(C) CONCENTRATIONS WERE CALCULATED USING VALUES OF 5 FOR THE CARBON NUMBER AND 86 FOR THE MOLECULAR WEIGHT.

RESULTS OF GAS CANISTER SPECIATION FOR TRENCH 2 - FOAM FC-600 (Cont.)

SITE
MASTER LOG NO: P-014
SAMPLE TYPE: GAS CANISTER

SAMPLING TECHNIQUE: FLUX CHAMBER

DATE SAMPLED:
DATE ANALYZED: 06/17/84

COMPOUND	CONCENTRATION (PPBV-C)	CONCENTRATION (UG/M**3)
TOTAL AROMATICS		
BENZENE	1640.4	873.3
TOLUENE	7808.6	4202.0
ETHYLBENZENE	3043.0	1652.2
P-XYLENE/M-XYLENE	7719.0	4191.0
O-XYLENE	2573.0	1397.0
N-PROPYLBENZENE	754.7	412.2
M-ETHYLTOLUENE	2509.0	1370.5
1,3,5-TRIMETHYLBENZENE	1202.0	656.6
O-ETHYLTOLUENE	1602.0	875.1
1,2,4-TRIMETHYLBENZENE	3330.0	1819.0
1,2,3-TRIMETHYLBENZENE	2594.0	1417.0
INDAN	341.2	183.3
M-DIETHYLBENZENE	206.1	113.1
N-BUTYLBENZENE	323.7	176.0
P-DIETHYLBENZENE	443.2	243.3
NAPHTHALENE	187.9	98.5
C10+ AROMATIC	222.1	121.9
TOTAL HALOGENATED HC		
CHLOROETHANE	1803.0	2378.2
METHYLENE CHLORIDE	1304.0	4528.0
1,2-DICHLOROETHANE	126.6	256.3
1,1,1-TRICHLOROETHANE	1949.0	5044.1
1,2-DICHLOROPROPANE	162.0	251.0
TRICHLOROETHYLENE + BROMODICHLOROMETHANE	13960.0	37512.3
1,1,2-TRICHLOROETHANE	131.0	357.4
TETRACHLOROETHYLENE	498.2	1683.2
1,1-DICHLOROETHANE	744.7	1506.2
UNIDENTIFIED HALOGENATED HC	1316.0	2027.4
UNIDENTIFIED HALOGENATED HC	113.0	174.1
UNIDENTIFIED HALOGENATED HC	443.5	683.2
UNIDENTIFIED HALOGENATED HC	249.5	384.4
UNIDENTIFIED HALOGENATED HC	10.1	15.6
UNIDENTIFIED HALOGENATED HC	1914.0	2948.6
UNIDENTIFIED HALOGENATED HC	212.0	327.8
UNIDENTIFIED HALOGENATED HC	613.4	945.0
UNIDENTIFIED HALOGENATED HC	4642.0	7151.3
UNIDENTIFIED HALOGENATED HC	10.9	16.8
UNIDENTIFIED HALOGENATED HC	1266.0	1950.4
UNIDENTIFIED HALOGENATED HC	88.8	136.8

COMPOUND	CONCENTRATION (PPBV-C)	CONCENTRATION (UG/M**3)
TOTAL HALOGENATED HC (CONT'D)		
UNIDENTIFIED HALOGENATED HC	912.3	1405.5
UNIDENTIFIED HALOGENATED HC	169.8	261.6
TOTAL OXYGENATED HC(B)		
METHANOL	40.8	53.4
BUTYRALDEHYDE	187.4	138.2
HEXANAL	198.1	135.3
UNIDENTIFIED VOC(C)		
UNIDENTIFIED VOC	540.7	317.0
UNIDENTIFIED VOC	781.3	458.0
UNIDENTIFIED VOC	95.7	56.1
PARAFFINS	17137.3	10028.6
OLEFINS	6615.6	3795.6
TOTAL AROMATICS	36496.0	19802.0
TOTAL HALOGENATED HC	32800.5	72350.1
TOTAL OXYGENATED HC	426.3	326.9(B)
UNIDENTIFIED VOC	1417.7	831.1(C)
TOTAL NMHC	94468.0	105807.4

(A) ARTIFACT COMPOUND - CONCENTRATION NOT USED IN TOTAL NMHC CALCULATIONS.

(B) VARIABLE RECOVERY THROUGH DRYING SYSTEM - CONCENTRATIONS NOT USED IN TOTAL NMHC CALCULATIONS.

(C) CONCENTRATIONS WERE CALCULATED USING VALUES OF 6 FOR THE CARBON NUMBER AND 86 FOR THE MOLECULAR WEIGHT.

RESULTS OF GAS CANISTER SPECIATION FOR TRENCH 3 - NO FOAM

SITE 1
MASTER LOG NO: P-015
SAMPLE TYPE:

SAMPLING TECHNIQUE:

DATE SAMPLED:
DATE ANALYZED: 06/17/88

COMPOUND	CONCENTRATION (PPBV-C)	COMPOUND	CONCENTRATION (PPBV-C)
PARAFFINS		PARAFFINS (CONT'D)	
C-2 VOC	151	C8 ALKANE	284
C-3 VOC	113	C8 ALKANE	950
ISOBUTANE	1710	C9 ALKANE	781
N-BUTANE	128	C9 ALKANE	356
ISOPENTANE	962	C9 ALKANE	940
N-PENTANE	636	C9 ALKANE	1360
NEOHEXANE	53	C9 ALKANE	1590
CYCLOPENTANE	175	C9 ALKANE	349
2,3-DIMETHYLBUTANE	388	C9 ALKANE	2870
ISOHEXANE	1520	C9 ALKANE	3110
3-METHYLPENTANE	857	C10+ ALKANE	4630
N-HEXANE	955	C10+ ALKANE	3070
METHYLCYCLOPENTANE	1590	C10+ ALKANE	2060
2,4-DIMETHYLPENTANE	503	C10+ ALKANE	7800
CYCLOHEXANE	863	C10+ ALKANE	5970
ISOHEPTANE	2110	C10+ ALKANE	4510
3-METHYLHEXANE	1230	C10+ ALKANE	5500
2,2,4-TRIMETHYLPENTANE	43.9	C10+ ALKANE	8980
N-HEPTANE	2670	C10+ ALKANE	4750
METHYLCYCLOHEXANE	3770	C10+ ALKANE	2670
2,5-DIMETHYLHEXANE	606	C10+ ALKANE	3190
2,3,4-TRIMETHYLPENTANE	1300	C10+ ALKANE	6900
3,5,5-TRIMEHEXANE	2100	C10+ ALKANE	3840
3-METHYLHEPTANE	3110	C10+ ALKANE	3800
2,2,5-TRIMETHYLHEXANE	959	C10+ ALKANE	2200
N-OCTANE	3300	C10+ ALKANE	2010
N-NONANE	10800	C10+ ALKANE	1800
N-DECANE	15100	C10+ ALKANE	1810
N-UNDECANE	8540	C10+ ALKANE	677
C6 ALKANE	53.1	C10+ ALKANE	1380
C7 ALKANE	117	C10+ ALKANE	597
C7 ALKANE	69.8	C10+ ALKANE	800
C7 ALKANE	829	C10+ ALKANE	228
C7 ALKANE	728	C10+ ALKANE	412
C7 ALKANE	1950	C10+ ALKANE	386
C8 ALKANE	603	C10+ ALKANE	153
C8 ALKANE	524		
C8 ALKANE	611		
C8 ALKANE	831		
C8 ALKANE	830		

* ARTIFACT COMPOUND - CONCENTRATION NOT USED IN TOTAL NMHC CALCULATIONS.

** VARIABLE RECOVERY THROUGH DRYING SYSTEM - CONCENTRATIONS NOT USED IN TOTAL NMHC CALCULATIONS.

RESULTS OF GAS CANISTER SPECIATION FOR TRENCH 3 - NO FOAM (Cont.)

SITE 1
MASTER LOG NO: P-015
SAMPLE TYPE:

SAMPLING TECHNIQUE:

DATE SAMPLED:
DATE ANALYZED: 06/17/80

COMPOUND	CONCENTRATION (PPBV-C)
OLEFINS	
ISOBUTENE + 1-BUTENE	159
T-2-BUTENE	291
C-2-BUTENE	178
1-PENTENE	156
T-2-PENTENE	101
2-METHYL-2-BUTENE	154
CYCLOPENTENE	118
4-METHYL-1-PENTENE	149
T-4-METHYL-2-PENTENE	1390
1-HEXENE	118
T-2-HEXENE	443
C-2-HEXENE	286
2,4,4-TRIME-1-PENTENE	209
1-OCTENE	1000
C-2-OCTENE	282
1-NONENE	5370
1-DECENE	2810
1-UNDECENE	2550
C6 ALKENE	92.9
C6 ALKENE	436
C7 ALKENE	113
C8 ALKENE	65.5
C9 ALKENE	685
C9 ALKENE	3390
C10+ ALKENE	5950
C10+ ALKENE	3170
C10+ ALKENE	3030
C10+ ALKENE	4190
C10+ ALKENE	2340
C10+ ALKENE	1170
C10+ ALKENE	378
C10+ ALKENE	293
TOTAL AROMATICS	
BENZENE	482
TOLUENE	3010
ETHYLBENZENE	4360
P-XYLENE/M-XYLENE	4010
O-XYLENE	3960

COMPOUND	CONCENTRATION (PPBV-C)
TOTAL AROMATICS (CONT'D)	
N-PROPYLBENZENE	3490
1,3,5-TRIMETHYLBENZENE	9500
1,2,4-TRIMETHYLBENZENE	7420
1,2,3-TRIMETHYLBENZENE	5000
N-BUTYLBENZENE	4190
NAPHTHALENE	459
C10+ AROMATIC	3380
C10+ AROMATIC	3950
C10+ AROMATIC	1500
C10+ AROMATIC	1960
C10+ AROMATIC	2960
C10+ AROMATIC	458
C10+ AROMATIC	291
C10+ AROMATIC	393
C10+ AROMATIC	71.8
TOTAL HALOGENATED HC	
VINYL CHLORIDE	380
METHYLENE CHLORIDE	60.2
CHLOROFORM	311
1,1,1-TRICHLOROETHANE	85.4
TRICHLOROETHYLENE + BROMODICHLOROMETHANE	3680
TETRACHLOROETHYLENE	1560
CHLOROBENZENE	1610
1,1-DICHLOROETHANE	165
UNIDENTIFIED HALOGENATED HC	51.4
UNIDENTIFIED HALOGENATED HC	82.2
UNIDENTIFIED HALOGENATED HC	105
****TOTAL OXYGENATED HC**	
BUTYRALDEHYDE	971
ISOVALERALDEHYDE	125
HEXANAL	478

* ARTIFACT COMPOUND - CONCENTRATION NOT USED IN TOTAL NMHC CALCULATIONS.

** VARIABLE RECOVERY THROUGH DRYING SYSTEM - CONCENTRATIONS NOT USED IN TOTAL NMHC CALCULATIONS.

RESULTS OF GAS CANISTER SPECIATION FOR TRENCH 3 - NO FOAM (Cont.)

SITE :
MASTER LOG NO: P-015
SAMPLE TYPE:

SAMPLING TECHNIQUE:

DATE SAMPLED:
DATE ANALYZED: 06/17/89

COMPOUND	CONCENTRATION (PPMV-C)	COMPOUND	CONCENTRATION (PPMV-C)
UNIDENTIFIED VOC			
UNIDENTIFIED VOC	716		
UNIDENTIFIED VOC	156		
PARAFFINS	162E3		
OLEFINS	80900		
TOTAL AROMATICS	61000		
TOTAL HALOGENATED HC	8050		
TOTAL OXYGENATED HC	1570**		
UNIDENTIFIED VOC	872		
TOTAL NMHC	273E3		

* ARTIFACT COMPOUND - CONCENTRATION NOT USED IN TOTAL NMHC CALCULATIONS.

** VARIABLE RECOVERY THROUGH DRYING SYSTEM - CONCENTRATIONS NOT USED IN TOTAL NMHC CALCULATIONS.

RESULTS OF GAS CANISTER SPECIATION FOR TRENCH 3 - FOAM 92-35

SITE 1
MASTER LOG NO: P-0163
SAMPLE TYPE:

SAMPLING TECHNIQUE:

DATE SAMPLED:
DATE ANALYZED: 06/17/84

COMPOUND	CONCENTRATION (PPBV-C)
PARAFFINS	
E-2 VOC	331
E-3 VOC	662
ISOBUTANE	4830
N-BUTANE	252
ISOPENTANE	1300
N-PENTANE	574
N-HEXANE	81.9
CYCLOPENTANE	182
2,3-DIMETHYLBUTANE	305
ISOHEXANE	1120
3-METHYLPENTANE	739
N-HEXANE	593
METHYLCYCLOPENTANE	1150
2,4-DIMETHYLPENTANE	459
CYCLOHEXANE	574
ISOHEPTANE	712
3-METHYLHEXANE	419
2,2,4-TRIMETHYLPENTANE	122
N-HEPTANE	863
METHYLCYCLOHEXANE	1920
2,5-DIMETHYLHEXANE	179
2,3,4-TRIMETHYLPENTANE	261
3,5,5-TRIMEHEXANE	422
3-METHYLHEPTANE	728
2,2,5-TRIMETHYLHEXANE	185
N-OCTANE	631
N-NONANE	1910
N-DECANE	2910
C6 ALKANE	1060
C7 ALKANE	364
C7 ALKANE	299
C7 ALKANE	426
C7 ALKANE	312
C7 ALKANE	1660
C8 ALKANE	252
C8 ALKANE	178
C8 ALKANE	391
C8 ALKANE	31.3
C8 ALKANE	237
C8 ALKANE	191

COMPOUND	CONCENTRATION (PPBV-C)
PARAFFINS (CONT'D)	
C8 ALKANE	136
C8 ALKANE	813
C9 ALKANE	569
C9 ALKANE	191
C9 ALKANE	107
C9 ALKANE	239
C9 ALKANE	483
C9 ALKANE	1090
C9 ALKANE	520
C10+ ALKANE	557
C10+ ALKANE	161
C10+ ALKANE	379
C10+ ALKANE	715
C10+ ALKANE	1410
C10+ ALKANE	239
C10+ ALKANE	609
C10+ ALKANE	942
C10+ ALKANE	896
C10+ ALKANE	639
C10+ ALKANE	786
C10+ ALKANE	1260
C10+ ALKANE	1390
C10+ ALKANE	580
C10+ ALKANE	710
C10+ ALKANE	228
C10+ ALKANE	575
C10+ ALKANE	238
C10+ ALKANE	314
C10+ ALKANE	140
C10+ ALKANE	265
C10+ ALKANE	165
OLEFINS	
ISOBUTENE + 1-BUTENE	355
T-2-BUTENE	824
C-2-BUTENE	466
1-PENTENE	179
ACETONITRILE	223
T-2-PENTENE	292

* ARTIFACT COMPOUND - CONCENTRATION NOT USED IN TOTAL NMHC CALCULATIONS.

** VARIABLE RECOVERY THROUGH DRYING SYSTEM - CONCENTRATIONS NOT USED IN TOTAL NMHC CALCULATIONS.

RESULTS OF GAS CANISTER SPECIATION FOR TRENCH 3 - FOAM 92-35 (Cont.)

SITE 1
MASTER LOG NO: P-016G
SAMPLE TYPE:

SAMPLING TECHNIQUE:

DATE SAMPLED:
DATE ANALYZED: 06/17/84

COMPOUND	CONCENTRATION (PPBV-C)
OLEFINS (CONT'D)	
C-2-PENTENE	67.4
2-METHYL-2-BUTENE	246
CYCLOPENTENE	78.2
4-METHYL-1-PENTENE	148
T-4-METHYL-2-PENTENE	1420
1-HEXENE	173
2-METHYL-2-PENTENE	115
T-2-HEXENE	515
C-2-HEXENE	42.2
2,4,4-TRIME-2-PENTENE	283
1-METHYLCYCLOHEXENE	283
1-OCTENE	391
C-2-OCTENE	332
1-NONENE	1140
A-PINENE	1050
1-DECENE	550
1-UNDECENE	845
C5 ALKENE	72.3
C8 ALKENE	218
C8 ALKENE	236
C9 ALKENE	198
C10+ ALKENE	2150
C10+ ALKENE	1030
C10+ ALKENE	2880
C10+ ALKENE	1670
C10+ ALKENE	1630
C10+ ALKENE	708
C10+ ALKENE	855
C10+ ALKENE	979
C10+ ALKENE	882
C10+ ALKENE	348
C10+ ALKENE	148
C10+ ALKENE	276
C10+ ALKENE	78.5
TOTAL AROMATICS	
BENZENE	693
TOLUENE	5340
ETHYLBENZENE	2550
TOTAL AROMATICS (CONT'D)	
P-XYLENE/M-XYLENE	6530
O-XYLENE	3340
ISOPROPYLBENZENE	352
M-ETHYLTOLUENE	4030
1,3,5-TRIMETHYLBENZENE	2850
1,2,4-TRIMETHYLBENZENE	6680
1,2,3-TRIMETHYLBENZENE	3320
INDAN	957
INDENE	446
NAPHTHALENE	286
C10+ AROMATIC	371
TOTAL HALOGENATED HC	
CHLOROMETHANE	413
1,1-DICHLOROETHYLENE	212
METHYLENE CHLORIDE	75.5
1,1,1-TRICHLOROETHANE	800
TRICHLOROETHYLENE + BROMODICHLOROMETHANE	4060
TETRACHLOROETHYLENE	958
1,1-DICHLOROETHANE	138
UNIDENTIFIED HALOGENATED HC	526
UNIDENTIFIED HALOGENATED HC	959
UNIDENTIFIED HALOGENATED HC	853
UNIDENTIFIED HALOGENATED HC	767
UNIDENTIFIED HALOGENATED HC	764
UNIDENTIFIED HALOGENATED HC	427
****TOTAL OXYGENATED HC**	
METHANOL	69.8
ETHANOL	322
2-PROPANOL	41.6
BUTYRALDEHYDE	1500
HEXANAL	254

* ARTIFACT COMPOUND - CONCENTRATION NOT USED IN TOTAL NMHC CALCULATIONS.

** VARIABLE RECOVERY THROUGH DRYING SYSTEM - CONCENTRATIONS NOT USED IN TOTAL NMHC CALCULATIONS.

RESULTS OF GAS CANISTER SPECIATION FOR TRENCH 3 - FOAM 92-35 (Cont.)

SITE 1
MASTER LOG NO: F-0165
SAMPLE TYPE:

SAMPLING TECHNIQUE:

DATE SAMPLED:
DATE ANALYZED: 06/17/89

COMPOUND	CONCENTRATION (PPBV-C)	COMPOUND	CONCENTRATION (PPBV-C)
UNIDENTIFIED VOC			
UNIDENTIFIED VOC	363		
UNIDENTIFIED VOC	29		
PARAFFINS	46200		
OLEFINS	24300		
TOTAL AROMATICS	37900		
TOTAL HALOGENATED HC	11030		
TOTAL OXYGENATED HC	2190**		
UNIDENTIFIED VOC	392		
TOTAL NMHC	12063		

* ARTIFACT COMPOUND - CONCENTRATION NOT USED IN TOTAL NMHC CALCULATIONS.

** VARIABLE RECOVERY THROUGH DRYING SYSTEM - CONCENTRATIONS NOT USED IN TOTAL NMHC CALCULATIONS.

RESULTS OF GAS CANISTER SPECIATION FOR TRENCH 3

SITE 1
MASTER LOG NO: F-017
SAMPLE TYPE:

SAMPLING TECHNIQUE:

DATE SAMPLED:
DATE ANALYZED: 06/22/89

COMPOUND	CONCENTRATION (PPBV-C)
PARAFFINS	
C-2 VOC	357
C-3 VOC	1119
ISOBUTANE	6440
N-BUTANE	443
NEOPENTANE	93.7
ISOPENTANE	1840
N-PENTANE	673
NEOHEXANE	115
CYCLOPENTANE	268
2,3-DIMETHYLBUTANE	408
ISOHEXANE	1560
3-METHYLPENTANE	1040
N-HEXANE	836
METHYLCYCLOPENTANE	1620
2,4-DIMETHYLPENTANE	644
CYCLOHEXANE	785
ISOHEPTANE	1120
3-METHYLHEXANE	592
N-HEPTANE	1140
METHYLCYCLOHEXANE	2620
2,5-DIMETHYLHEXANE	224
2,3,4-TRIMETHYLPENTANE	355
3,5,5-TRIMEHEXANE	557
3-METHYLHEPTANE	995
2,2,5-TRIMETHYLHEXANE	237
N-OCTANE	851
N-NONANE	2340
N-DECANE	3340
N-UNDECANE	1480
C7 ALKANE	408
C7 ALKANE	187
C7 ALKANE	555
C7 ALKANE	436
C7 ALKANE	609
C8 ALKANE	2200
C8 ALKANE	359
C8 ALKANE	175
C9 ALKANE	367
C8 ALKANE	45.1
C9 ALKANE	324

COMPOUND	CONCENTRATION (PPBV-C)
PARAFFINS (CONT'D)	
C9 ALKANE	169
C9 ALKANE	245
C9 ALKANE	1050
C9 ALKANE	239
C9 ALKANE	82.6
C9 ALKANE	317
C9 ALKANE	618
C9 ALKANE	1480
C9 ALKANE	636
C10+ ALKANE	289
C10+ ALKANE	322
C10+ ALKANE	1850
C10+ ALKANE	803
C10+ ALKANE	1380
C10+ ALKANE	1008
C10+ ALKANE	782
C10+ ALKANE	1080
C10+ ALKANE	1620
C10+ ALKANE	1640
C10+ ALKANE	780
C10+ ALKANE	275
C10+ ALKANE	784
C10+ ALKANE	299
C10+ ALKANE	389
C10+ ALKANE	178
C10+ ALKANE	400
C10+ ALKANE	224
C10+ ALKANE	730
C10+ ALKANE	72
OLEFINS	
ISOBUTENE + 1-BUTENE	520
T-2-BUTENE	1190
C-2-BUTENE	638
1-PENTENE	303
2-METHYL-1-BUTENE	96
ACETONITRILE	259
T-2-PENTENE	316
C-2-PENTENE	83.6

* ARTIFACT COMPOUND - CONCENTRATION NOT USED IN TOTAL NMHC CALCULATIONS.

** VARIABLE RECOVERY THROUGH DRYING SYSTEM - CONCENTRATIONS NOT USED IN TOTAL NMHC CALCULATIONS.

RESULTS OF GAS CANISTER SPECIATION FOR TRENCH 3 (Cont.)

SITE 1
MASTER LOG NO: P-017
SAMPLE TYPE:

SAMPLING TECHNIQUE:

DATE SAMPLED:
DATE ANALYZED: 06/22/89

COMPOUND	CONCENTRATION (PPBV-C)
OLEFINS (CONT'D)	
2-METHYL-2-BUTENE	316
CYCLOPENTENE	105
4-METHYL-1-PENTENE	180
T-4-METHYL-2-PENTENE	1960
1-HEXENE	184
2-METHYL-2-PENTENE	68.3
T-2-HEXENE	98.7
C-2-HEXENE	736
C-3-METHYL-2-PENTENE	71.3
1-HEPTENE	41.2
3-HEPTENE	60.3
2,4,4-TRIME-1-PENTENE	392
2,4,4-TRIME-2-PENTENE	67.6
1-METHYLCYCLOHEXENE	295
1-OCTENE	500
C-2-OCTENE	207
1-NONENE	1410
A-PINENE	462
1-DECENE	700
1-UNDECENE	1190
C9 ALKENE	308
C9 ALKENE	377
C9 ALKENE	771
C9 ALKENE	1380
C10+ ALKENE	1490
C10+ ALKENE	1020
C10+ ALKENE	2440
C10+ ALKENE	2420
C10+ ALKENE	1270
C10+ ALKENE	1110
C10+ ALKENE	495
C10+ ALKENE	210
C10+ ALKENE	304
C10+ ALKENE	92.8
C10+ ALKENE	101

COMPOUND	CONCENTRATION (PPBV-C)
TOTAL AROMATICS	
BENZENE	865
TOLUENE	7380
ETHYLBENZENE	3463
P-XYLENE/M-XYLENE	9110
O-XYLENE	4590
ISOPROPYLBENZENE	460
N-PROPYLBENZENE	2092
M-ETHYLTOLUENE	5953
1,3,5-TRIMETHYLBENZENE	4150
O-ETHYLTOLUENE	3989
1,2,4-TRIMETHYLBENZENE	8800
1,2,3-TRIMETHYLBENZENE	5010
INDAN	1390
INDENE	520
NAPHTHALENE	326
C10+ AROMATIC	1380
TOTAL HALOGENATED HC	
CHLOROMETHANE	76.4
1,1-DICHLOROETHYLENE	38.4
METHYLENE CHLORIDE	98.6
1,1,1-TRICHLOROETHANE	2540
TRICHLOROETHYLENE + BROMODICHLOROMETHANE	15800
TETRACHLOROETHYLENE	4190
O-DICHLOROBENZENE	157
1,1-DICHLOROETHANE	464
****TOTAL OXYGENATED HC**	
METHANOL	667
ETHANOL	474
2-PROPANOL	207
BUTYRALDEHYDE	2080
HEXANAL	317

* ARTIFACT COMPOUND - CONCENTRATION NOT USED IN TOTAL NMHC CALCULATIONS.

** VARIABLE RECOVERY THROUGH DRYING SYSTEM - CONCENTRATIONS NOT USED IN TOTAL NMHC CALCULATIONS.

RESULTS OF GAS CANISTER SPECIATION FOR TRENCH 3 (Cont.)

SITE 1
MASTER LOG NO: P-017
SAMPLE TYPE:

SAMPLING TECHNIQUE:

DATE SAMPLED:
DATE ANALYZED: 06/22/94

COMPOUND	CONCENTRATION (PPBV-C)	COMPOUND	CONCENTRATION (PPBV-C)
UNIDENTIFIED VOC			
UNIDENTIFIED VOC	37		
UNIDENTIFIED VOC	431		
UNIDENTIFIED VOC	324		
PARAFFINS	60000		
OLEFINS	26200		
TOTAL AROMATICS	61500		
TOTAL HALOGENATED HC	23400		
TOTAL OXYGENATED HC	3750**		
UNIDENTIFIED VOC	752		
TOTAL NMHC	172153		

* ARTIFACT COMPOUND - CONCENTRATION NOT USED IN TOTAL NMHC CALCULATIONS.

** VARIABLE RECOVERY THROUGH DRYING SYSTEM - CONCENTRATIONS NOT USED IN TOTAL NMHC CALCULATIONS.

Appendix J

DOWNHOLE EMISSIONS SURVEY DATA

EMISSIONS VERTICAL PROFILE

OPERATORS: BMS INSTRUMENT TYPE: AID/OVA/Interscan DATE: 6-19-84

MET CONDITIONS: clear Hot Sunny

INSTRUMENT "ZEROES": THC 25 ppmv; Benzene 1.0 ppmv; SO_2 0 ppmv.

Sample No.	Area Type[1]	Site[2]	Grid Specific Location[3]	Depth (ft)	Flow Rate (LPM)	THC (ppmv) t	THC (ppmv) PK	THC (ppmv) t	THC (ppmv) SS	Benzene (ppmv) t	Benzene (ppmv) PK	Benzene (ppmv) t	Benzene (ppmv) SS	SO_2 (ppmv) t	SO_2 (ppmv) PK	SO_2 (ppmv) t	SO_2 (ppmv) SS	Field Use (min)	Comments
	FY	Core 1	Grid 4 BE	~~15'~~	0.07		-	0			-	0	—		-	0	—	0938	
				5'			-	1	9		-	1	6		-	1	—	0937	
							-	4	320		-	4	55		-	4	0	0942	
							460	7	390		200	7	150		-	7	0	0945	
							350	10	230		125	10	60		—	10	0	0948	
							260	15	210		70	15	60			15	0	0953	
							-	20	170		70	20	60			20	0	0958	

Comment: 35 on rate 0.07 l/min

AID ↑ ↑ OVA

[1]Area Types: SU = sump; PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.
[2]Site descriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site)
[3]For example: 10ft.W&35ft.S of R12C17.

No strip chart recorder

EMISSIONS VERTICAL PROFILE

OPERATORS: BME INSTRUMENT TYPE: AID/OVA/Microscan DATE: 6 19 84

MET CONDITIONS: SAME

INSTRUMENT "ZEROES": THC 2½ ppmv; Benzene 0.8 ppmv; SO_2 1 ppmv.

Sample No.	Area Type[1]	Site[2]	Grid Specific Location[3]	Depth (ft)	Flow Rate (LPM)	THC (ppmv) t	THC (ppmv) PK	THC (ppmv) t	THC (ppmv) SS	Benzene (ppmv) t	Benzene (ppmv) PK	Benzene (ppmv) t	Benzene (ppmv) SS	SO_2 (ppmv) t	SO_2 (ppmv) PK	SO_2 (ppmv) t	SO_2 (ppmv) SS	Field Use (min)	Field Use Comments
	FY	Core 1	GP 3E	10	0.67			0	–		–	0	–			0	–	1057	
	↓	↓	↓	↓	↓			1	15		–	1	57			1	0	1058	
								3	5		–	3	16			3	0	1100	
								5	5		–	5	19			5	0	1102	
								10	4		19	10	13			10	0	1107	
								15	4		19	15	17			15	0	1112	
								20	4		–	20	17			20	0	1117	

Comment:

[1]Area Types: SU = sump; PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.
[2]Site descriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site)
[3]For example: 10ft.W&35ft.S of R12C17.

EMISSIONS VERTICAL PROFILE

OPERATORS: [illegible] INSTRUMENT TYPE: OVA/HNU/[illegible] DATE: 6-19-84

MET CONDITIONS: [illegible]

INSTRUMENT "ZEROES": THC ____ppmv; Benzene ____ppmv; SO_2 ____ppmv.

Sample No.	Area Type[1]	Site[2]	Grid Specific Location[3]	Depth (ft)	Flow Rate (LPM)	THC (ppmv) t	THC (ppmv) PK	THC (ppmv) t	THC (ppmv) SS	Benzene (ppmv) t	Benzene (ppmv) PK	Benzene (ppmv) t	Benzene (ppmv) SS	SO_2 (ppmv) t	SO_2 (ppmv) PK	SO_2 (ppmv) t	SO_2 (ppmv) SS	Field Use (min)	Field Use Comments
	FY	[illegible]	[illegible]	15	0.67			[illegible]	—		[illegible]	[illegible]	—			[illegible]	—	1239	
								1	18		25	1	20			1	0	1240	
								3	15			3	15			3	0	1243	
								5	15			5	16			5	0	1244	
								10	12			10	15			10	0	1249	
								15	15			15	16			15	0	1254	
[illegible]								20	15			20	16			20	0	1259	
-27"Hg	-1"Hg																		

Comment:

[1]Area Types: SU = sump; PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.
[2]Site descriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site)
[3]For example: 10ft.W&35ft.S of R12C17.

EMISSIONS VERTICAL PROFILE

OPERATORS: JAC INSTRUMENT TYPE: OVA/ATD/Intercom DATE: 6/21

MET CONDITIONS: Sunny, light NW breeze

INSTRUMENT "ZEROES": THC 3 ppmv; Benzene 0.7 ppmv; SO_2 2 ppmv.

Sample No.	Area Type[1]	Site[2]	Grid Specific Location[3]	Depth (ft)	Flow Rate (LPM)	THC (ppmv) t	THC PK	THC t	THC SS	Benzene (ppmv) t	Benzene PK	Benzene t	Benzene SS	SO_2 (ppmv) t	SO_2 PK	SO_2 t	SO_2 SS	Field Use (min)	Field Use Comments
~~P752~~	WP	#3	Corehole #2	5	0.07			0	–			0	–			0	–	0904	Start
			Grid Pot 10 D				5.5	1	5.5		1.7	1	1.7		>550	1	45	0905	
							15	3	15		32	3	28		15	3	15	0907	
							170	5	170		66	5	49		87	5	75	0909	
							30	10	30		58	10	40		12	10	12	0914	
							9	15	9		36	15	34		6	15	6	0919	
							8	20	7		46	20	30		5	20	5	0924	Stop
		Flux Probe coated w/ waste @ end of run																	
																			In waste

Comment:

[1]Area Types: SU = sump; PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.
[2]Site descriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site)
[3]For example: 10ft.W&35ft.S of R12C17.

EMISSIONS VERTICAL PROFILE

OPERATORS: JAC INSTRUMENT TYPE: OVA/AID/Intersecan DATE: 6-21-84 1230-1300

MET CONDITIONS: W/S ≈ 5 mPH W/D ≈ NE TEMP ≈ 80°F

INSTRUMENT "ZEROES": THC ____ppmv; Benzene ____ppmv; SO_2 ____ppmv.

Sample No.	Area Type[1]	Site[2]	Grid Specific Location[3]	Depth (ft)	Flow Rate (LPM)	THC (ppmv) t	THC PK	THC t	THC SS	Benzene (ppmv) t	Benzene PK	Benzene t	Benzene SS	SO_2 (ppmv) t	SO_2 PK	SO_2 t	SO_2 SS	Field Use (min)	Field Use Comments
	WP	#3	Corehole #2	~~7½~~	0.67		2200	1	2100		6.5	1	6.5		11.0	1	11.0		
			Grid Point 10D	10			300	3	300		94	3	94		7.0	3	7.0		
							120	5	120		72	5	72		5.0	5	5.0		
							90	7	90		60	7	60		5.0	7	4.0		
							70	10	60		52	10	45		3.0	10	5.0		
A101							680	20	580		81	16	80		40	18	5		
τ = 12							80	23	80						3	21	3		
							40	25	40		42	21	42		3	24	3		
											37	23	34					1257	Stop
																			In Waste or Grady Contaminated Soil

Comment:

[1]Area Types: SU = sump; PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.
[2]Site descriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site)
[3]For example: 10ft.W&35ft.S of R12C17.

SAMPLE CANISTER DATA
-27 Hg M

START TIME 1245
STOP 1246

EMISSIONS VERTICAL PROFILE

OPERATORS: JAC INSTRUMENT TYPE: OVA/AID/Intersc DATE: 6/21/84

MET CONDITIONS: START 1405 STOP

INSTRUMENT "ZEROES": THC ____ppmv; Benzene ____ppmv; SO_2 ____ppmv.

Sample No.	Area Type[1]	Site[2]	Grid Specific Location[3]	Depth (ft)	Flow Rate (LPM)	THC (ppmv) t	THC PK	THC t	THC SS	Benzene (ppmv) t	Benzene PK	Benzene t	Benzene SS	SO_2 (ppmv) t	SO_2 PK	SO_2 t	SO_2 SS	Field Use (min)	Field Use Comments
	WP	#3	Core hole #2	15	0.67		610	3	610		13.7	1	13.7		8.0	2	8.0	1407	Start
			Grid Point 10D				350	5	350		73	4	73		7.0	4	7.0		
							500	9	420		66	7	66		5.5	8	5.5		
							2600	14	2600		54	11	50		5.0	12	5.0		
							500	20	300		58	15	40		4.0	17	4.0		
							2600	26	2400		34	22	29		5.0	23	5.0		
							600	33	150		45	27	25		3.0	29	3.0	~~240~~ 1440	End/Flux
																			Grossly Contaminated Soil

Comment:

[1]Area Types: SU = sump; PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.
[2]Site descriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site)
[3]For example: 10ft.W&35ft.S of R12C17.

EMISSIONS VERTICAL PROFILE

OPERATORS: JAC INSTRUMENT TYPE: AID/OVA/INTERSCAN DATE: 6-21-84

MET CONDITIONS: W/S ≈ 5MPH NE TEMP ≈ 90°F START 1520

INSTRUMENT "ZEROES": THC ____ppmv; Benzene ____ppmv; SO_2 ____ppmv. STOP 1543

Sample No.	Area Type[1]	Site[2]	Grid Specific Location[3]	Depth (ft)	Flow Rate (LPM)	THC (ppmv) t	THC PK	THC t	THC SS	Benzene (ppmv) t	Benzene PK	Benzene t	Benzene SS	SO_2 (ppmv) t	SO_2 PK	SO_2 t	SO_2 SS	Field Use (min)	Field Use Comments
	WP	#3	Corehole # 2 Grid Point 10D	20	0.67						97	1	97		8.0	2	8.0		
							600	3	550		47	4	46		4.0	5	4.0		
							220	6	220		30	7	30		3.0	8	3.0		
							210	10	210		25	11	22		3.0	13	3.0		
							400	14	400		21	16	19		3.0	17	3.0		
							290	19	280		17	21	15		—		—	1541	(END)
							25	23	18										

Comment:

[1]Area Types: SU = sump; PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.
[2]Site descriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site)
[3]For example: 10ft.W&35ft.S of R12C17.

EMISSIONS VERTICAL PROFILE

OPERATORS: JAC INSTRUMENT TYPE: AID/GVA/INTERCAN DATE: 6-21-84

MET CONDITIONS: WS ≈ 5 MPH W/D-NE TEMP 85°F

INSTRUMENT "ZEROES": THC ____ppmv; Benzene ____ppmv; SO_2 ____ppmv.

Sample No.	Area Type[1]	Site[2]	Grid Specific Location[3]	Depth (ft)	Flow Rate (LPM)	THC (ppmv) t	THC PK	THC t	THC SS	Benzene (ppmv) t	Benzene PK	Benzene t	Benzene SS	SO_2 (ppmv) t	SO_2 PK	SO_2 t	SO_2 SS	Field Use (min)	Field Use Comments
	WD	#3	Core hole #2	2.5	0.67		6000	3	1800		8.4	1	7.8		3.0	4	3.0		
			Grid Point 10D				360	6	360		11.7	5	11.7		2.0	7	2.0		
							1200	10	300		10.2	9	10.6		2.0	11	2.0		
							180	15	50		8.2	14	6.6		—		—		
							20	18	17		3.5	17	3.5		—		—		
							450	24	300		2.9	20	2.8		2.0	21	2.0		
																			Soil

Comment:

[1]Area Types: SU = sump; PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.
[2]Site descriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site)
[3]For example: 10ft.W&35ft.S of R12C17.

EMISSIONS VERTICAL PROFILE

OPERATORS: JAC INSTRUMENT TYPE: OVA/AID/Interscan DATE: 6-23-84

MET CONDITIONS: W/S <5MPH WDIE TEMP≈75°F START 900 6.23.84

INSTRUMENT "ZEROES": THC 2.8 ppmv; Benzene 1.2 ppmv; SO_2 0 ppmv. @ 0720 STOP 930

Sample No.	Area Type[1]	Site[2]	Grid Specific Location[3]	Depth (ft)	Flow Rate (LPM)	THC (ppmv) t	THC PK	THC t	THC SS	Benzene (ppmv) t	Benzene PK	Benzene t	Benzene SS	SO_2 (ppmv) t	SO_2 PK	SO_2 t	SO_2 SS	Field Use (min)	Field Use Comments
~~P364~~	WP		Grid Point 17E	~~8~~	1 lpm		7.0	1	7.0		4.3	1	4.3		2.5	2	2.5		
			Corehole # 3	7½'			100	3	100		71	3	~~71~~		3	4	3		
							49	4	49		82	5	76		—		—		
					0.6 lpm		47	6	47										
							33	9	33		66	7	65		1.5	8	1.5		
							18	12	14		97	11	-		—		—		
							~~26~~	17	~~26~~		76	15	76		1.0	16	1.0		
							55	25	20		78	19	76		2.0	21	2.0		
							10	27	10		103	26	86		.04	28	.04		Excalibur
							10	30	10		74	29	73						

Comment:

[1]Area Types: SU = sump; PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.
[2]Site descriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site)
[3]For example: 10ft.W&35ft.S of R12C17.

EMISSIONS VERTICAL PROFILE

OPERATORS: JAC INSTRUMENT TYPE: OVA/AID/Interscan DATE: 6-23-84

MET CONDITIONS: WS < 5mph W/DEEST TEMP ≈ 80°F START 1020

INSTRUMENT "ZEROES": THC ____ppmv; Benzene ____ppmv; SO_2 ____ppmv. STOP 1050

Sample No.	Area Type[1]	Site[2]	Grid Specific Location[3]	Depth (ft)	Flow Rate (LPM)	THC (ppmv) t	THC PK	THC t	THC SS	Benzene (ppmv) t	Benzene PK	Benzene t	Benzene SS	SO_2 (ppmv) t	SO_2 PK	SO_2 t	SO_2 SS	Field Use (min)	Field Use Comments
	WP		Corehole #3 Grid Point 17E	12.5'	1	1	[illegible]	1	[illegible]		8.4	2	6.0		2.5	2	2		
							6.5		6.5		9.6	4	9.0		–		–		
							19	3	19										
											6.5	7	5.5		1.0	8	1.0		
					0.6F		11	5	10										
					[illegible]						6.3	11	4.4		1.5	12	1.5		
P373							13	9	13										
CAN. SAMP.					[illegible]						5.2	16	3.4			1			
							16	14	6								–		
↓ AFTER CANISTER READINGS							420	22	420		22	23	12		1.0	24	1.0		
							20	25	20		4.6	26	4.0		1.0	27	1.0		
							5.5	28	5.5		3.5	30	3.0						

Comment:

[1]Area Types: SU = sump; PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.
[2]Site descriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site)
[3]For example: 10ft.W&35ft.S of R12C17.

P373 CANISTER START 1038
STOP 1040

EMISSIONS VERTICAL PROFILE

OPERATORS: JAC INSTRUMENT TYPE: OVA/AID/Interscan DATE: 6-23-84

MET CONDITIONS: W/S <5 mph W/D ≈ WEST TEMP 88°F START 1110

INSTRUMENT "ZEROES": THC ____ppmv; Benzene ____ppmv; SO_2 ____ppmv. STOP 1132

Sample No.	Area Type[1]	Site[2]	Grid Specific Location[3]	Depth (ft)	Flow Rate (LPM)	THC (ppmv) t	THC PK	THC t	THC SS	Benzene (ppmv) t	Benzene PK	Benzene t	Benzene SS	SO_2 (ppmv) t	SO_2 PK	SO_2 t	SO_2 SS	Field Use (min)	Field Use Comments
	WP		Corehole #3 Grid Point 12E	15	1 lpm		5.5	0.5	5.5		10.3	2	10.2		2	3	1.5		
							14	3.5	14		5.2	5	4.6		1.5	6	1.5		
							11	7	10		3.6	9	3.1		1.0	10	1.0		
							12	11	12		4.0	12	2.8		1.5	14	1.5		
							15	15	15		3.5	17	2.4		1.0	18	1.0		
							13	20	12		3.3	22	2.3						

Comment:

[1]Area Types: SU = sump; PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.
[2]Site descriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site)
[3]For example: 10ft.W&35ft.S of R12C17.

EMISSIONS VERTICAL PROFILE

OPERATORS: JAC/RS INSTRUMENT TYPE: AID/INTERSCAN/OVA DATE: 6·23·84 1208-1224

MET CONDITIONS: WS ≈ 5 mph W/D -

INSTRUMENT "ZEROES": THC ____ppmv; Benzene ____ppmv; SO_2 ____ppmv.

Sample No.	Area Type[1]	Site[2]	Grid Specific Location[3]	Depth (ft)	Flow Rate (LPM)	THC (ppmv) t	THC PK	THC t	THC SS	Benzene (ppmv) t	Benzene PK	Benzene t	Benzene SS	SO_2 (ppmv) t	SO_2 PK	SO_2 t	SO_2 SS	Field Use (min)	Field Use Comments
	WP		Core Location 3	20	1		10	1	8		13.8	2	-		2.0	3	2.0		
			Grid Point 17E				32	2	30		3.2		2.4		1.5	5	1.5		
							5.0	5	5.0		1.3	7	1.3		-		-		
							4.1	8	4.1		0.9	9	0.8		1.1	10	1.1		
							4.8	12	4.8		0.7	13	0.5		1.5	14	1.5		

Comment:

[1]Area Types: SU = sump; PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.
[2]Site descriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site)
[3]For example: 10ft.W&35ft.S of R12C17.

EMISSIONS VERTICAL PROFILE

OPERATORS: JAC INSTRUMENT TYPE: OVA/AIU/~~[illegible]~~ INTERSCAN DATE: 6-23-84

MET CONDITIONS: W/S < 5MPH W/D - VARIES TEMP ≈ 95°F

INSTRUMENT "ZEROES": THC ____ppmv; Benzene ____ppmv; SO_2 ____ppmv.

START 1255
STOP 209

Sample No.	Area Type[1]	Site[2]	Grid Specific Location[3]	Depth (ft)	Flow Rate (LPM)	THC (ppmv) t	THC PK	THC t	THC SS	Benzene (ppmv) t	Benzene PK	Benzene t	Benzene SS	SO_2 (ppmv) t	SO_2 PK	SO_2 t	SO_2 SS	Field Use (min)	Field Use Comments
	WP		Conhole #3 Grid Point 17E	25	1		4	1	3.9		1.4	2	1.3		2.0	2	2.0		
							6.5	3	5.5		1.0	4	1.4		2.0	5	2.0		
							4.0	6	4.0		0.4	7	0.3		2.0	8	2.0		
							3.3	10	3.0		0.2	11	0.2		2.0	12	2.0		
					1.67 lpm		3.2	13	3.2		0.1	14	0.1						

Comment:

[1]Area Types: SU = sump; PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.
[2]Site descriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site)
[3]For example: 10ft.W&35ft.S of R12C17.

* SO_2 BACKGROUND = 2.0
* C_6H_6 " = -0.4
* CH_4 BACKGROUND = 3.0

EMISSIONS VERTICAL PROFILE

OPERATORS: BME INSTRUMENT TYPE: OVA / HNU / Interscan DATE: 6-25-84

MET CONDITIONS: South wind, Hot & clear

INSTRUMENT "ZEROES": THC 2½ ppmv; Benzene 0 ppmv; SO_2 0 ppmv.

Sample No.	Area Type[1]	Site[2]	Grid Specific Location[3]	Depth (ft)	Flow Rate (LPM)	THC (ppmv) t	THC (ppmv) PK	THC (ppmv) t	THC (ppmv) SS	Benzene (ppmv) t	Benzene (ppmv) PK	Benzene (ppmv) t	Benzene (ppmv) SS	SO_2 (ppmv) t	SO_2 (ppmv) PK	SO_2 (ppmv) t	SO_2 (ppmv) SS	Field Use (min)	Field Use Comments
	WP	#1	B-4	7½	0.67			0	—			0	—			0	—	1125	
					↓			1	18			1	—			1	0	1129	
								3	16			3	2.2			3	0	1131	
								5	12			5	1.1			5	0	1133	
								10	10			10	1.4			10	0	1138	
								15	9			15	1.0			15	0	1143	Rezero HNU
								20	4½			20	0.8			20	0	1148	END OF TEST

Comment: still in rubble at 5 feet level, so first flow measurement at 7½'

[1]Area Types: SU = sump; PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.
[2]Site descriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site)
[3]For example: 10ft.W&35ft.S of R12C17.

EMISSIONS VERTICAL PROFILE

OPERATORS: BME INSTRUMENT TYPE: OVA/HNU/Interscan DATE: 6-25-84

MET CONDITIONS: SAME

INSTRUMENT "ZEROES": THC 2½ ppmv; Benzene 0 ppmv; SO_2 0 ppmv.

Sample No.	Area Type[1]	Site[2]	Grid Specific Location[3]	Depth (ft)	Flow Rate (LPM)	THC (ppmv) t	THC (ppmv) PK	THC (ppmv) t	THC (ppmv) SS	Benzene (ppmv) t	Benzene (ppmv) PK	Benzene (ppmv) t	Benzene (ppmv) SS	SO_2 (ppmv) t	SO_2 (ppmv) PK	SO_2 (ppmv) t	SO_2 (ppmv) SS	Field Use (min)	Field Use Comments
	WP	#1	B-4	10	0.67			0	—			0	—			0	—	1212	
							200	1	200			1	3-4			1	0	1213	
							700	3	650			3	4			3	5	1215	
							80	5	75			5	3			5	2	1217	
								10	80			10	3			10	0	1220	
								15	75			15	2½			15	0	1227	
							85	20	80			20	2½			20	0	1232	

Comment:

[1]Area Types: SU = sump; PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.
[2]Site descriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site)
[3]For example: 10ft.W&35ft.S of R12C17.

DISTURBED SURFACE MONITORING

OPERATORS: BME INSTRUMENT TYPE: OVA/HNU/Interscan DATE: 6-25-84

MET CONDITIONS: SAME

INSTRUMENT "~~ZEROES~~": THC 9.0 ppmv; Benzene 0.2 ppmv; SO_2 ____ ppmv.
BACKGROUND B.G.

Sample No.	Area Type[1]	Site[2]	Grid Specific Location[3]	~~Foam Type~~[4]	Depth (ft)	THC (ppmv) t	THC PK	THC t	THC SS	Benzene (ppmv) t	Benzene PK	Benzene t	Benzene SS	SO_2 (ppmv) t	SO_2 PK	SO_2 t	SO_2 SS	Field Use Time	Field Use Comments
	WP	#1	B-4	0.67 L/min	15		15	0	–			0	–		0	0	–	1330	
							15	1	15		1.0	1	1.0		0	1	0	1331	
							16	3	16		1.1	3	1.1		0	3	0	1333	
							11	5	11		1.5	5	1.5		0	5	0	1335	
390			CANISTER		15		11	10	11		1.4	10	1.4		0	10	0	1340	
							9	15	9		0.4	15	0.4		0	15	0	1345	
							12	20	10		0.6	20	0.6		0	20	0	1350	

Comment:

[1]Area Types: SU = sump; PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.
[2]Site descriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site).
[3]For example: 10ft.W&35ft.S of R12C17.
[4]Foam types: LP 1, LP 2, LP 3, FC600, SF (Sanifoam).

X - SUMY TO RR

~~DISTURBED SURFACE MONITORING~~ EMISSIONS VERTICAL PROFILE SUMMARY

OPERATORS: BMS INSTRUMENT TYPE: OVA/AID/INTERSCAN DATE: 6-25-84

MET CONDITIONS: SAME

INSTRUMENT "ZEROES": THC 6 ppmv; Benzene 1.6 ppmv; SO_2 0 ppmv.

Sample No.	Area Type[1]	Site[2]	Grid Specific Location[3]	~~Foam Type~~[4]	Depth (ft)	THC (ppmv) t	THC (ppmv) PK	THC (ppmv) t	THC (ppmv) SS	Benzene (ppmv) t	Benzene (ppmv) PK	Benzene (ppmv) t	Benzene (ppmv) SS	SO_2 (ppmv) t	SO_2 (ppmv) PK	SO_2 (ppmv) t	SO_2 (ppmv) SS	Field Use Time	Field Use Comments
	WP	#1	B-4	0.67 L/min	20			0	—			0	—			0	—	1432	
								1	8			1	1.8			1	0	1433	
								3	8½			3	—			3	0	1435	
								5	9			5	>2000 0.8 on H	NU		5	0	1437	
								10	9			10	0.6			10	0	1442	
								15	9			15	0.7			15	0	1447	
								20	10			20	0.4			20	0	1452	

Comment: AID still on the blink

[1]Area Types: SU = sump; PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.
[2]Site descriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site).
[3]For example: 10ft.W&35ft.S of R12C17.
[4]Foam types: LP 1, LP 2, LP 3, FC600, SF (Sanifoam).

EMISSIONS VERTICAL PROFILE

OPERATORS: BME INSTRUMENT TYPE: OVA/AID/INTERSCAN DATE: 6.27.84

MET CONDITIONS: Clear, warm, light westerly breeze

INSTRUMENT "ZEROES": THC 1.5 ppmv; Benzene 2.9 ppmv; SO_2 0 ppmv.

Sample No.	Area Type[1]	Site[2]	Grid Specific Location[3]	Depth (ft)	Flow Rate (LPM)	THC (ppmv) t	THC (ppmv) PK	THC (ppmv) t	THC (ppmv) SS	Benzene (ppmv) t	Benzene (ppmv) PK	Benzene (ppmv) t	Benzene (ppmv) SS	SO_2 (ppmv) t	SO_2 (ppmv) PK	SO_2 (ppmv) t	SO_2 (ppmv) SS	Field Use (min)	Field Use Comments
	WP	#3	B-5	5	0.67			0	–			0	–			0	–	0810	
								1	<2			1	3.5			1	–	0811	
								3	12			3	12		95	3	90	0813	
								5	11			5	13		95	5	90	0815	
								10	15			10	14.6			10	100	0820	
								15	8			15	11		55	15	50	0825	
								20	18			20	15.5			20	85	0830	

Comment:

[1]Area Types: SU = sump; PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.
[2]Site descriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site)
[3]For example: 10ft.W&35ft.S of R12C17.

EMISSIONS VERTICAL PROFILE

OPERATORS: BME INSTRUMENT TYPE: OVA/AID/Interscan DATE: 6-29-84

MET CONDITIONS: 10mph NW wind, clear, warm

INSTRUMENT "ZEROES": THC 2½ ppmv; Benzene ~0.8 ppmv; SO_2 0 ppmv.

Sample No.	Area Type[1]	Site[2]	Grid Specific Location[3]	Depth (ft)	Flow Rate (LPM)	THC (ppmv) t	THC (ppmv) PK	THC (ppmv) t	THC (ppmv) SS	Benzene (ppmv) t	Benzene (ppmv) PK	Benzene (ppmv) t	Benzene (ppmv) SS	SO_2 (ppmv) t	SO_2 (ppmv) PK	SO_2 (ppmv) t	SO_2 (ppmv) SS	Field Use (min)	Field Use Comments
	WP	#2	B-5	10	0.67			0	—			0	—			0	—	1016	
								1	7			1	0.1			1	2750	1017	
P414							1000	3	700			3	46			3	3000	1019	
Gas Canister							950	5	950			5	56		3500	5	3300	1021	
t=1020							2500	10	2250		48	10	44		3000	10	3000	1026	
								15	1800			15	41			15	2800	1031	
								20	1800		41	20	40			20	3100	1036	

Comment:

[1]Area Types: SU = sump; PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.
[2]Site descriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site)
[3]For example: 10ft.W&35ft.S of R12C17.

EMISSIONS VERTICAL PROFILE

OPERATORS: BME INSTRUMENT TYPE: OVA/AID/Interscan DATE: 6-29-84

MET CONDITIONS: SAME

INSTRUMENT "ZEROES": THC 4 ppmv; Benzene -1.0 ppmv; SO_2 50 ppmv.

Sample No.	Area Type[1]	Site[2]	Grid Specific Location[3]	Depth (ft)	Flow Rate (LPM)	THC (ppmv) t	THC (ppmv) PK	THC (ppmv) t	THC (ppmv) SS	Benzene (ppmv) t	Benzene (ppmv) PK	Benzene (ppmv) t	Benzene (ppmv) SS	SO_2 (ppmv) t	SO_2 (ppmv) PK	SO_2 (ppmv) t	SO_2 (ppmv) SS	Field Use (min)	Field Use Comments
	WP	#2	B-5	15	0.67			0	—			0	—			0	—	1103	
								1	6			1	~30			1	100	1104	
								3	5500			3	46			3	70	1106	
							6000	5	6000		90	5	85			5	75	1108	
							5500	10	5000		85	10	85			10	60	1113	
							4500	13	4000			13	62			13	60	1118	
								20	3500			20	54			20	40	1123	

Comment:

[1]Area Types: SU = sump; PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.
[2]Site descriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site)
[3]For example: 10ft.W&35ft.S of R12C17.

EMISSIONS VERTICAL PROFILE

OPERATORS: BMS INSTRUMENT TYPE: OVA, AID, Interscan DATE: 6-29-84

MET CONDITIONS: SAME

INSTRUMENT "ZEROES": THC 6 ppmv; Benzene 1.0 ppmv; SO_2 10 ppmv.

Sample No.	Area Type[1]	Site[2]	Grid Specific Location[3]	Depth (ft)	Flow Rate (LPM)	THC (ppmv) t	THC (ppmv) PK	THC (ppmv) t	THC (ppmv) SS	Benzene (ppmv) t	Benzene (ppmv) PK	Benzene (ppmv) t	Benzene (ppmv) SS	SO_2 (ppmv) t	SO_2 (ppmv) PK	SO_2 (ppmv) t	SO_2 (ppmv) SS	Field Use (min)	Field Use Comments
	WP	#2	B-5	20	0.67			0	~			0	—			0	-	1210	
								1	1800			1	51			1	15	1211	
								3	1500		41	3	38			3	15	1212	
								5	1200			5	32			5	10	1215	Fixed Pinched line
								10	3500		48	10	46			10	18	1220	
								15	3000		58	15	44			15	15	1225	
							4300	20	4000			20	59			20	18	1230	

Comment: 5' below waste

[1]Area Types: SU = sump; PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.

[2]Site descriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site)

[3]For example: 10ft.W&35ft.S of R12C17.

EMISSIONS VERTICAL PROFILE

OPERATORS: BME INSTRUMENT TYPE: OVA/AID/Interscan DATE: 6-29-84

MET CONDITIONS: SAME

INSTRUMENT "ZEROES": THC 7 ppmv; Benzene ~0.9 ppmv; SO_2 5 ppmv.

Sample No.	Area Type[1]	Site[2]	Grid Specific Location[3]	Depth (ft)	Flow Rate (LPM)	THC (ppmv) t	THC (ppmv) PK	THC (ppmv) t	THC (ppmv) SS	Benzene (ppmv) t	Benzene (ppmv) PK	Benzene (ppmv) t	Benzene (ppmv) SS	SO_2 (ppmv) t	SO_2 (ppmv) PK	SO_2 (ppmv) t	SO_2 (ppmv) SS	Field Use (min)	Field Use Comments
	WP	#2	B-5	25	0.67			0	–			0	–			0	–	1313	
								1	1500			1	54			1	–	1314	
								3	1400			3	26		20	3	5	1316	
								5	1500			5	26			5	5	1318	
								10	1600			10	26			10	5	1323	
								15	1200			15	22			15	5	1328	
								20	2500			20	35			20	7	1333	

Comment:

[1]Area Types: SU = sump; PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.
[2]Site descriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site)
[3]For example: 10ft.W&35ft.S of R12C17.

EMISSIONS VERTICAL PROFILE

OPERATORS: BME INSTRUMENT TYPE: OVA/AID/Interscan DATE: 7-02-84

MET CONDITIONS: Hot, clear, 2mph SE wind

INSTRUMENT "ZEROES": THC ~7 ppmv; Benzene -0.4 ppmv; SO_2 0 ppmv.

Sample No.	Area Type[1]	Site[2]	Grid Specific Location[3]	Depth (ft)	Flow Rate (LPM)	THC (ppmv) t	THC (ppmv) PK	THC (ppmv) t	THC (ppmv) SS	Benzene (ppmv) t	Benzene (ppmv) PK	Benzene (ppmv) t	Benzene (ppmv) SS	SO_2 (ppmv) t	SO_2 (ppmv) PK	SO_2 (ppmv) t	SO_2 (ppmv) SS	Field Use (min)	Field Use Comments
	SU		B-6	5	0.67			0	—			0	—			0	-	0935	
								1	25			1	1.8			1	0	0936	
							7000	3	6500			3	13			3	0	0938	
							5500	5	5500			5	16			5	0	0940	
P429								10	6000			10	12			10	0	0945	Gas canister
								15	>19000			15	16			15	2	0950	
								20	4500			20	15			20		0955	

Comment:

[1]Area Types: SU = sump; PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.
[2]Site descriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site)
[3]For example: 10ft.W&35ft.S of R12C17.

EMISSIONS VERTICAL PROFILE

OPERATORS: BMS INSTRUMENT TYPE: OVA/AID #103304/Interscan DATE: 7-02-84

MET CONDITIONS: SAME

INSTRUMENT "ZEROES": THC 12 ppmv; Benzene 3.3 ppmv; SO_2 0 ppmv.

Sample No.	Area Type[1]	Site[2]	Grid Specific Location[3]	Depth (ft)	Flow Rate (LPM)	THC (ppmv) t	THC (ppmv) PK	THC (ppmv) t	THC (ppmv) SS	Benzene (ppmv) t	Benzene (ppmv) PK	Benzene (ppmv) t	Benzene (ppmv) SS	SO_2 (ppmv) t	SO_2 (ppmv) PK	SO_2 (ppmv) t	SO_2 (ppmv) SS	Field Use (min)	Field Use Comments
	SU		B-6	10	0.67			0	–			0	–			0	–	1030	
							4000	1	3800			1	>2000			1	0	1031	
								3	>10,000			3	>2000			3	2	1033	
								5	>10,000			5	>2000			5	2	1035	
								10	9500			10	>2000			10	2	1040	
							9000	15	8500			15	>2000			15	2	1045	
								20	9500			20	>2000			20	2	1050	

Comment: OVA staying lit. Not much greater than 1%. AID is zooming past 2000.

[1]Area Types: SU = sump; PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.
[2]Site descriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site)
[3]For example: 10ft.W&35ft.S of R12C17.

Different AID than last downhole flux (5')

EMISSIONS VERTICAL PROFILE

OPERATORS: BME INSTRUMENT TYPE: OVA/AID/INTERSCAN DATE: 7-02-84

MET CONDITIONS: SAME

INSTRUMENT "ZEROES": THC 15 ppmv; Benzene 0.01 ppmv; SO_2 0 ppmv.

Sample No.	Area Type[1]	Site[2]	Grid Specific Location[3]	Depth (ft)	Flow Rate (LPM)	THC (ppmv) t	THC (ppmv) PK	THC (ppmv) t	THC (ppmv) SS	Benzene (ppmv) t	Benzene (ppmv) PK	Benzene (ppmv) t	Benzene (ppmv) SS	SO_2 (ppmv) t	SO_2 (ppmv) PK	SO_2 (ppmv) t	SO_2 (ppmv) SS	Field Use (min)	Field Use Comments
	SU		B-6	15	0.67			0	—			0	—			0	—	1136	
							200	1	35		2	1	1.2			1	0	1137	
								3	>10,000			3	20			3	2	1139	
								5	>10,000		21	5	20			5	3	1141	
					1.35			10	>10,000			10	21			10	2	1146	
								~~15~~ BME				~~15~~ BME				~~10~~ BME		~~1151~~ BME	
								~~20~~				~~20~~				~~20~~		~~1156~~	
								20	>10,000			20	30			20	3	1151	
								30	>10,000			30	29			30	3	1156	

Comment: Flushed since last measurement with 0.67 L/min. Still saw 6000 on OVA, flushed for ~3 min with

[1]Area Types: SU = sump; PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.
[2]Site descriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site)
[3]For example: 10ft.W&35ft.S of R12C17.

↳ lots of air until OVA read <100, AID ~15

- AID = 4, OVA = 30 at start

EMISSIONS VERTICAL PROFILE

OPERATORS: BME INSTRUMENT TYPE: OVA/AID/INTERSCAN DATE: 7-02-84

MET CONDITIONS: SAME

INSTRUMENT "ZEROES": THC 16 ppmv; Benzene -1.4 ppmv; SO_2 1 ppmv.

Sample No.	Area Type[1]	Site[2]	Grid Specific Location[3]	Depth (ft)	Flow Rate (LPM)	THC (ppmv) t	THC (ppmv) PK	THC (ppmv) t	THC (ppmv) SS	Benzene (ppmv) t	Benzene (ppmv) PK	Benzene (ppmv) t	Benzene (ppmv) SS	SO_2 (ppmv) t	SO_2 (ppmv) PK	SO_2 (ppmv) t	SO_2 (ppmv) SS	Field Use (min)	Comments
	SU		B-6	20	0.67			0	—			0	—			0	—	1230	
								1	16			1	-0.7			1	—	1231	
								3	>10,000			3	15			3	2	1233	
								5	>10,000			5	18			5	2	1235	
								10	>10,000			10	16			10	2	1240	
								15	>10,000		18	15	15			15	—	1245	
								20	>10,000			20	13			20	2	1250	
					3.3 at 1250			40	>10,000			40	26			40	—	1254	
					10½ on rod														

Comment:

[1]Area Types: SU = sump; PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.
[2]Site descriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site)
[3]For example: 10ft.W&35ft.S of R12C17.

EMISSIONS VERTICAL PROFILE

OPERATORS: BMS INSTRUMENT TYPE: OVA/AID/INTERSCAN DATE: 7-02-84

MET CONDITIONS: Hot, clear 2mph NW wind

INSTRUMENT "ZEROES": THC 7 ppmv; Benzene ~1.4 ppmv; SO_2 1 ppmv.

Sample No.	Area Type[1]	Site[2]	Grid Specific Location[3]	Depth (ft)	Flow Rate (LPM)	THC (ppmv) t	THC (ppmv) PK	THC (ppmv) t	THC (ppmv) SS	Benzene (ppmv) t	Benzene (ppmv) PK	Benzene (ppmv) t	Benzene (ppmv) SS	SO_2 (ppmv) t	SO_2 (ppmv) PK	SO_2 (ppmv) t	SO_2 (ppmv) SS	Field Use (min)	Comments
	SU		B-6	35	0.67			0	—			0	—			0	—	1413	
								1	45			1	3.0			1	—	1414	
							1500	3	1000			3	0.2			3	2	1416	
								5	650		7.1	5	6.2			5	1	1418	
							4000	10	3500		13	10	12.5			10	2	1423	
							25	15	20			15	1.2			15	1	1428	No pinched lines
							20	20	17			20	-0.6			20	1	1433	

Comment: Lines somewhat contaminated before start, OVA 150ppm

[1]Area Types: SU = sump; PD = pond, WP = waste pit, FY = front yard (other than sump), XS = off-site, CA = canal.
[2]Site descriptors: R12C17, Site A, Well 1, Core 1, Upst 1 (upstream), Dnst 1 (downstream), South 1 (in canal, south of site)
[3]For example: 10ft.W&35ft.S of R12C17.

RESULTS OF CANISTER SPECIAITON CORE #1, E3 AT 15 FT BLS

SITE 1
MASTER LOG NO: P34[illegible]
SAMPLE TYPE:

SAMPLING TECHNIQUE:

DATE SAMPLED:
DATE ANALYZED: 06/19/84

COMPOUND	CONCENTRATION (PPBV-C)
PARAFFINS	
ISOBUTANE	72.6
N-BUTANE	402
ISOPENTANE	4830
N-PENTANE	3806
METHEXANE	344
CYCLOPENTANE	1300
2,3-DIMETHYLBUTANE	1450
ISOHEXANE	5990
3-METHYLPENTANE	4010
N-HEXANE	2310
METHYLCYCLOPENTANE	6660
2,4-DIMETHYLPENTANE	1150
CYCLOHEXANE	2250
ISOHEPTANE	2840
3-METHYLHEXANE	1600
N-HEPTANE	576
METHYLCYCLOHEXANE	2600
2,5-DIMETHYLHEXANE	450
2,3,4-TRIMETHYLPENTANE	471
3,5,5-TRIMEHEXANE	439
3-METHYLHEPTANE	1060
2,2,5-TRIMETHYLHEXANE	378
N-OCTANE	543
N-NONANE	471[illegible]
N-DECANE	468[illegible]
N-UNDECANE	6180
C7 ALKANE	100
C7 ALKANE	1350
C7 ALKANE	1190
C7 ALKANE	1040
C8 ALKANE	432
C8 ALKANE	346
C8 ALKANE	89.4
C8 ALKANE	421
C8 ALKANE	155
C9 ALKANE	285
C9 ALKANE	126
C9 ALKANE	322
C9 ALKANE	677
C9 ALKANE	215

COMPOUND	CONCENTRATION (PPBV-C)
PARAFFINS (CONT'D)	
C9 ALKANE	215
C9 ALKANE	646
C9 ALKANE	2790
C9 ALKANE	2380
C9 ALKANE	2790
C9 ALKANE	2580
C9 ALKANE	1940
C10+ ALKANE	3830
C10+ ALKANE	6550
C10+ ALKANE	5420
C10+ ALKANE	7030
C10+ ALKANE	6560
C10+ ALKANE	7770
C10+ ALKANE	3930
C10+ ALKANE	3220
C10+ ALKANE	2630
C10+ ALKANE	705
C10+ ALKANE	666
C10+ ALKANE	971
C10+ ALKANE	1730
C10+ ALKANE	1360
C10+ ALKANE	1140
C10+ ALKANE	475
C10+ ALKANE	282
C10+ ALKANE	80.4
OLEFINS	
T-2-PENTENE	51.9
C-2-PENTENE	42.2
2-METHYL-2-BUTENE	285
CYCLOPENTENE	90.4
T-4-METHYL-2-PENTENE	346
1-HEXENE	113
2-METHYL-2-PENTENE	286
T-2-HEXENE	530
C-2-HEXENE	86.6
3-HEPTENE	160
2,4,4-TRIME-1-PENTENE	194
1-METHYLCYCLOHEXENE	296

* ARTIFACT COMPOUND - CONCENTRATION NOT USED IN TOTAL NMHC CALCULATIONS.

** VARIABLE RECOVERY THROUGH DRYING SYSTEM - CONCENTRATIONS NOT USED IN TOTAL NMHC CALCULATIONS.

RESULTS OF CANISTER SPECIAITON CORE #1, E3 AT 15 FT BLS (Cont.)

SITE 1
MASTER LOG NO: P340
SAMPLE TYPE:

SAMPLING TECHNIQUE:

DATE SAMPLED:
DATE ANALYZED: 06/19/84

COMPOUND	CONCENTRATION (PPBV-C)
OLEFINS (CONT'D)	
1-OCTENE	388
C-2-OCTENE	55.5
4-NONENE	3260
A-PINENE	12300
B-PINENE	15200
1-DECENE	14800
1-UNDECENE	1830
C6 ALKENE	71.7
C7 ALKENE	93.5
C7 ALKENE	107
C7 ALKENE	82.4
C7 ALKENE	2390
C9 ALKENE	427
C9 ALKENE	160
C9 ALKENE	2240
C9 ALKENE	1450
C10+ ALKENE	10400
C10+ ALKENE	8486
C10+ ALKENE	14800
C10+ ALKENE	18000
C10+ ALKENE	23100
C10+ ALKENE	6230
C10+ ALKENE	3470
C10+ ALKENE	4945
C10+ ALKENE	268
C10+ ALKENE	264
TOTAL AROMATICS	
BENZENE	188
TOLUENE	768
ETHYLBENZENE	1680
P-XYLENE/M-XYLENE	1410
STYRENE	1300
O-XYLENE	3900
ISOPROPYLBENZENE	5190
N-PROPYLBENZENE	5330
M-ETHYLTOLUENE	20700
T-BUTYLBENZENE	6130
1,2,4-TRIMETHYLBENZENE	6990

COMPOUND	CONCENTRATION (PPBV-C)
TOTAL AROMATICS (CONT'D)	
ISOBUTYLBENZENE	17800
M-DIETHYLBENZENE	7000
N-BUTYLBENZENE	7760
NAPHTHALENE	343
C10+ AROMATIC	18200
C10+ AROMATIC	1649
C10+ AROMATIC	3170
C10+ AROMATIC	2830
C10+ AROMATIC	785
C10+ AROMATIC	386
C10+ AROMATIC	516
TOTAL HALOGENATED HC	
CHLOROMETHANE	6.27
****TOTAL OXYGENATED HC**	
METHANOL	147
ACETONE	172
HEXANAL	137
UNIDENTIFIED VOC	
UNIDENTIFIED VOC	216
UNIDENTIFIED VOC	137
UNIDENTIFIED VOC	1360
UNIDENTIFIED VOC	82.9
UNIDENTIFIED VOC	29.7
PARAFFINS	137E3
OLEFINS	147E3
TOTAL AROMATICS	136E3
TOTAL HALOGENATED HC	6.27
TOTAL OXYGENATED HC	406**
UNIDENTIFIED VOC	1830
TOTAL NMHC	392E3

* ARTIFACT COMPOUND - CONCENTRATION NOT USED IN TOTAL NMHC CALCULATIONS.

** VARIABLE RECOVERY THROUGH DRYING SYSTEM - CONCENTRATIONS NOT USED IN TOTAL NMHC CALCULATIONS.

RESULTS OF CANISTER SPECIATION CORE #2, D10 AT 10 FT BLS

SITE 1
MASTER LOG NO: P364
SAMPLE TYPE:

SAMPLING TECHNIQUE:

DATE SAMPLED:
DATE ANALYZED: 08/16/84

COMPOUND	CONCENTRATION (PPBV-C)	COMPOUND	CONCENTRATION (PPBV-C)
PARAFFINS		PARAFFINS (CONT'D)	
C-2 VOC	13900	C9 ALKANE	1370
ISOBUTANE	14600	C9 ALKANE	1310
ISOPENTANE	8460	C9 ALKANE	4310
N-PENTANE	495	C9 ALKANE	5380
N-HEXANE	116	C10+ ALKANE	9340
2,3-DIMETHYLBUTANE	560	C10+ ALKANE	4220
ISOHEXANE	2320	C10+ ALKANE	5530
3-METHYLPENTANE	1250	C10+ ALKANE	3730
N-HEXANE	1590	C10+ ALKANE	12900
METHYLCYCLOPENTANE	2910	C10+ ALKANE	3470
2,4-DIMETHYLPENTANE	519	C10+ ALKANE	2220
CYCLOHEXANE	1690	C10+ ALKANE	18800
2,3-DIMETHYLPENTANE	3120	C10+ ALKANE	14300
3-METHYLHEXANE	1530	C10+ ALKANE	7580
2,2,4-TRIMETHYLPENTANE	2510	C10+ ALKANE	661
N-HEPTANE	4570	C10+ ALKANE	5050
METHYLCYCLOHEXANE	7070	C10+ ALKANE	353
2,5-DIMETHYLHEXANE	865	C10+ ALKANE	3400
2,3,4-TRIMETHYLPENTANE	1510	C10+ ALKANE	409
3-METHYLHEPTANE	6020	C10+ ALKANE	4060
2,2,5-TRIMETHYLHEXANE	1660	C10+ ALKANE	680
N-OCTANE	7070	C10+ ALKANE	12700
N-NONANE	21500	C10+ ALKANE	549
N-DECANE	27400	C10+ ALKANE	5030
N-UNDECANE	6380	C10+ ALKANE	875
C5 ALKANE	3570	C10+ ALKANE	669
C5 ALKANE	555	C10+ ALKANE	869
C6 ALKANE	59	C10+ ALKANE	3750
C7 ALKANE	498	C10+ ALKANE	5210
C7 ALKANE	1460	C10+ ALKANE	2300
C8 ALKANE	1070	C10+ ALKANE	1400
C8 ALKANE	1360	C10+ ALKANE	392
C8 ALKANE	564	C10+ ALKANE	2930
C8 ALKANE	1320	C10+ ALKANE	8160
C9 ALKANE	4040	C10+ ALKANE	5620
C9 ALKANE	2020	C10+ ALKANE	948
C9 ALKANE	390	C10+ ALKANE	1860
C9 ALKANE	1450	C10+ ALKANE	617
C9 ALKANE	3430	C10+ ALKANE	4890
C9 ALKANE	7750	C10+ ALKANE	5220

* ARTIFACT COMPOUND - CONCENTRATION NOT USED IN TOTAL NMHC CALCULATIONS.

** VARIABLE RECOVERY THROUGH DRYING SYSTEM - CONCENTRATIONS NOT USED IN TOTAL NMHC CALCULATIONS.

RESULTS OF CANISTER SPECIATION CORE #2, D10 AT 10 FT BLS (Cont.)

SITE I
MASTER LOG NO: P364
SAMPLE TYPE:

SAMPLING TECHNIQUE:

DATE SAMPLED:
DATE ANALYZED: 08/16/84

COMPOUND	CONCENTRATION (PPBV-C)
PARAFFINS (CONTD)	
C10+ ALKANE	4340
C10+ ALKANE	3050
C10+ ALKANE	2480
OLEFINS	
PROPYLENE	8360
1,3-BUTADIENE	3230
T-2-BUTENE	5130
C-2-BUTENE	2250
1-PENTENE	388
C-2-PENTENE	286
2-METHYL-2-BUTENE	1300
CYCLOPENTENE	135
4-METHYL-1-PENTENE	366
T-4-METHYL-2-PENTENE	979
1-HEXENE	375
T-2-HEXENE	1120
C-2-HEXENE	129
2,4,4-TRIME-1-PENTENE	1490
2,4,4-TRIME-2-PENTENE	232
1-METHYLCYCLOHEXENE	1710
1-OCTENE	2210
C-2-OCTENE	469
1-NONENE	10500
1-DECENE	4840
1-UNDECENE	4740
C7 ALKENE	194
C7 ALKENE	151
C7 ALKENE	3290
C8 ALKENE	1650
C10+ ALKENE	2550
C10+ ALKENE	2990
C10+ ALKENE	383
C10+ ALKENE	548
C10+ ALKENE	169

COMPOUND	CONCENTRATION (PPBV-C)
TOTAL AROMATICS	
BENZENE	1340
TOLUENE	9220
ETHYLBENZENE	5400
P-XYLENE/M-XYLENE	12800
P-XYLENE/M-XYLENE	711
O-XYLENE	5150
M-ETHYLTOLUENE	11400
1,3,5-TRIMETHYLBENZENE	17200
1,2,4-TRIMETHYLBENZENE	17900
1,2,3-TRIMETHYLBENZENE	11000
INDENE	4730
C10+ AROMATIC	134
TOTAL HALOGENATED HC	
METHYLENE CHLORIDE	154
TRICHLOROETHYLENE + BROMODICHLOROMETHANE	2410
1,1,2-TRICHLOROETHANE	1810
DIBROMOCHLOROMETHANE	482
TETRACHLOROETHYLENE	625
UNIDENTIFIED HALOGENATED HC	11300
****TOTAL OXYGENATED HC**	
DIETHYL ETHER	738
HEXANAL	752
UNIDENTIFIED VOC	
UNIDENTIFIED VOC	22400
PARAFFINS	36163
OLEFINS	61400
TOTAL AROMATICS	99900
TOTAL HALOGENATED HC	16800
TOTAL OXYGENATED HC	1490**
UNIDENTIFIED VOC	22400
TOTAL NMHC	55163

* ARTIFACT COMPOUND - CONCENTRATION NOT USED IN TOTAL NMHC CALCULATIONS.

** VARIABLE RECOVERY THROUGH DRYING SYSTEM - CONCENTRATIONS NOT USED IN TOTAL NMHC CALCULATIONS.

RESULTS OF CANISTER SPECIATION CORE #3, E17 AT 12 1/2 FT BLS

SITE 1
MASTER LOG NO: P-973
SAMPLE TYPE:

SAMPLING TECHNIQUE:

DATE SAMPLED:
DATE ANALYZED: 06/29/84

COMPOUND	CONCENTRATION (PPBV-C)
PARAFFINS	
C-2 VOC	1820
C-3 VOC	4450
ISOBUTANE	44000
N-BUTANE	2520
ISOPENTANE	5830
N-PENTANE	1620
N-HEXANE	92.6
CYCLOPENTANE	528
ISOHEXANE	6260
3-METHYLPENTANE	1340
N-HEXANE	1170
METHYLCYCLOPENTANE	1490
2,4-DIMETHYLPENTANE	486
CYCLOHEXANE	607
ISOHEPTANE	1470
3-METHYLHEXANE	846
2,2,4-TRIMETHYLPENTANE	1090
N-HEPTANE	1370
METHYLCYCLOHEXANE	1410
2,5-DIMETHYLHEXANE	723
2,3,4-TRIMETHYLPENTANE	427
3,5,5-TRIMEHEXANE	907
3-METHYLHEPTANE	1070
2,2,5-TRIMETHYLHEXANE	418
N-OCTANE	1340
N-NONANE	2370
N-DECANE	4710
N-UNDECANE	1060
C5 ALKANE	1300
C7 ALKANE	245
C7 ALKANE	435
C7 ALKANE	940
C7 ALKANE	238
C7 ALKANE	285
C8 ALKANE	240
C8 ALKANE	286
C8 ALKANE	232
C8 ALKANE	184
C8 ALKANE	219
C8 ALKANE	136

COMPOUND	CONCENTRATION (PPBV-C)
PARAFFINS (CONT'D)	
C9 ALKANE	276
C9 ALKANE	492
C9 ALKANE	300
C9 ALKANE	537
C9 ALKANE	925
C9 ALKANE	736
C9 ALKANE	764
C9 ALKANE	1190
C9 ALKANE	628
C10+ ALKANE	545
C10+ ALKANE	1870
C10+ ALKANE	893
C10+ ALKANE	1300
C10+ ALKANE	3300
C10+ ALKANE	2020
C10+ ALKANE	1070
C10+ ALKANE	679
C10+ ALKANE	596
C10+ ALKANE	605
C10+ ALKANE	1890
C10+ ALKANE	845
C10+ ALKANE	764
C10+ ALKANE	616
C10+ ALKANE	560
C10+ ALKANE	485
C10+ ALKANE	727
C10+ ALKANE	492
C10+ ALKANE	468
C10+ ALKANE	315
C10+ ALKANE	1010
C10+ ALKANE	206
C10+ ALKANE	587
C10+ ALKANE	361
C10+ ALKANE	82
OLEFINS	
ISOBUTENE + 1-BUTENE	1460
T-2-BUTENE	3740
C-2-BUTENE	1780

* ARTIFACT COMPOUND - CONCENTRATION NOT USED IN TOTAL NMHC CALCULATIONS.

** VARIABLE RECOVERY THROUGH DRYING SYSTEM - CONCENTRATIONS NOT USED IN TOTAL NMHC CALCULATIONS.

RESULTS OF CANISTER SPECIATION CORE #3, E17 AT 12 1/2 FT BLS (Cont.)

SITE 1
MASTER LOG NO: P-373
SAMPLE TYPE:

SAMPLING TECHNIQUE:

DATE SAMPLED:
DATE ANALYZED: 06/29/84

COMPOUND	CONCENTRATION (PPBV-C)
OLEFINS (CONT'D)	
1-PENTENE	83.5
ACETONITRILE	139
T-2-PENTENE	395
C-2-PENTENE	194
2-METHYL-2-BUTENE	798
CYCLOPENTENE	337
C-4-METHYL-2-PENTENE	884
1-HEXENE	251
T-2-HEXENE	1390
2,4,4-TRIME-1-PENTENE	316
1-METHYLCYCLOHEXENE	578
1-OCTENE	247
1-NONENE	1180
A-PINENE	1390
1-DECENE	637
1-UNDECENE	479
C7 ALKENE	53.6
C13+ ALKENE	1310
C10+ ALKENE	126
C10+ ALKENE	150
TOTAL AROMATICS	
BENZENE	494
TOLUENE	1900
ETHYLBENZENE	1070
P-XYLENE/M-XYLENE	2210
O-XYLENE	1030
M-ETHYLTOLUENE	2010
1,3,5-TRIMETHYLBENZENE	2750
1,2,4-TRIMETHYLBENZENE	2960
1,2,3-TRIMETHYLBENZENE	1610
C10+ AROMATIC	359
C10+ AROMATIC	293
C10+ AROMATIC	449

COMPOUND	CONCENTRATION (PPBV-C)
TOTAL HALOGENATED HC	
CHLOROMETHANE	602
METHYLENE CHLORIDE	622
CHLOROFORM	104
1,1,1-TRICHLOROETHANE	115
TRICHLOROETHYLENE + BROMODICHLOROMETHANE	160*
TETRACHLOROETHYLENE	118
UNIDENTIFIED HALOGENATED HC	3050
UNIDENTIFIED HALOGENATED HC	5260
UNIDENTIFIED HALOGENATED HC	1920
UNIDENTIFIED HALOGENATED HC	519
UNIDENTIFIED HALOGENATED HC	867
UNIDENTIFIED HALOGENATED HC	1280
****TOTAL OXYGENATED HC**	
1-BUTANOL	450
HEXANAL	937
UNIDENTIFIED VOC	
UNIDENTIFIED VOC	170
UNIDENTIFIED VOC	117
UNIDENTIFIED VOC	607
PARAFFINS	123E3
OLEFINS	17900
TOTAL AROMATICS	17100
TOTAL HALOGENATED HC	14100
TOTAL OXYGENATED HC	691**
UNIDENTIFIED VOC	894
TOTAL NMHC	173E3

* ARTIFACT COMPOUND - CONCENTRATION NOT USED IN TOTAL NMHC CALCULATIONS.

** VARIABLE RECOVERY THROUGH DRYING SYSTEM - CONCENTRATIONS NOT USED IN TOTAL NMHC CALCULATIONS.

RESULTS OF CANISTER SPECIATION CORE #4, F20 AT 15 FT BLS

SITE 1
MASTER LOG NO: P-399
SAMPLE TYPE:

SAMPLING TECHNIQUE:

DATE SAMPLED:
DATE ANALYZED: 06/29/88

COMPOUND	CONCENTRATION (PPBV-C)
PARAFFINS	
C-2 VOC	691
C-3 VOC	1040
ISOBUTANE	663
N-BUTANE	236
ISOPENTANE	471
N-PENTANE	205
ISOHEXANE	535
3-METHYLPENTANE	234
N-HEXANE	124
METHYLCYCLOPENTANE	142
2,4-DIMETHYLPENTANE	78.1
CYCLOHEXANE	139
ISOHEPTANE	191
3-METHYLHEXANE	113
N-HEPTANE	65.4
METHYLCYCLOHEXANE	278
2,3,4-TRIMETHYLPENTANE	115
3,5,5-TRIMEHEXANE	221
3-METHYLHEPTANE	293
2,2,5-TRIMETHYLHEXANE	174
N-OCTANE	323
N-NONANE	2530
N-DECANE	4700
N-UNDECANE	939
C6 ALKANE	97.7
C7 ALKANE	164
C8 ALKANE	66.6
C8 ALKANE	253
C9 ALKANE	544
C9 ALKANE	230
C9 ALKANE	466
C9 ALKANE	560
C9 ALKANE	1190
C9 ALKANE	655
C10+ ALKANE	1969
C10+ ALKANE	2380
C10+ ALKANE	3040
C10+ ALKANE	2370
C10+ ALKANE	1230
C10+ ALKANE	766
PARAFFINS (CONT'D)	
C10+ ALKANE	495
C10+ ALKANE	1979
C10+ ALKANE	992
C10+ ALKANE	788
C10+ ALKANE	625
C10+ ALKANE	468
C10+ ALKANE	490
C10+ ALKANE	434
C10+ ALKANE	303
C10+ ALKANE	172
C10+ ALKANE	77.1
OLEFINS	
ISOBUTENE + 1-BUTENE	446
T-2-BUTENE	249
C-2-BUTENE	249
T-4-METHYL-2-PENTENE	153
1-HEXENE	192
T-2-HEXENE	303
1-METHYLCYCLOHEXENE	135
1-OCTENE	141
1-NONENE	1990
A-PINENE	552
1-DECENE	751
1-UNDECENE	652
C9 ALKENE	417
C9 ALKENE	1460
C10+ ALKENE	1160
C10+ ALKENE	829
TOTAL AROMATICS	
BENZENE	129
TOLUENE	413
ETHYLBENZENE	509
P-XYLENE/M-XYLENE	1269
O-XYLENE	699
M-ETHYLTOLUENE	1940
1,3,5-TRIMETHYLBENZENE	3470

* ARTIFACT COMPOUND - CONCENTRATION NOT USED IN TOTAL NMHC CALCULATIONS.

** VARIABLE RECOVERY THROUGH DRYING SYSTEM - CONCENTRATIONS NOT USED IN TOTAL NMHC CALCULATIONS.

RESULTS OF CANISTER SPECIATION CORE #5, E13 AT 10 FT BLS

SITE 1
MASTER LOG NO: P-414
SAMPLE TYPE:

SAMPLING TECHNIQUE:

DATE SAMPLED:
DATE ANALYZED: 07/13/84

COMPOUND	CONCENTRATION (PPBV-C)
PARAFFINS	
C-2 VOC	11900
C-3 VOC	5230
ISOBUTANE	12400
N-BUTANE	9870
NEOPENTANE	3490
ISOPENTANE	33400
N-PENTANE	19300
NEOHEXANE	1500
CYCLOPENTANE	5910
2,3-DIMETHYLBUTANE	19300
ISOHEXANE	75800
3-METHYLPENTANE	30300
N-HEXANE	29400
METHYLCYCLOPENTANE	37900
2,4-DIMETHYLPENTANE	14600
CYCLOHEXANE	14900
ISOHEPTANE	40900
3-METHYLHEXANE	19100
2,2,4-TRIMETHYLPENTANE	36700
N-HEPTANE	25800
METHYLCYCLOHEXANE	37100
2,5-DIMETHYLHEXANE	8340
2,3,4-TRIMETHYLPENTANE	12400
3,5,5-TRIMEHEXANE	20100
3-METHYLHEPTANE	24900
2,2,5-TRIMETHYLHEXANE	19100
N-OCTANE	20200
N-NONANE	40500
N-DECANE	34200
N-UNDECANE	4620
C6 ALKANE	54300
C7 ALKANE	6480
C7 ALKANE	9990
C7 ALKANE	1180
C7 ALKANE	11600
C7 ALKANE	10400
C8 ALKANE	7610
C8 ALKANE	8040
C8 ALKANE	4550
C8 ALKANE	3270
PARAFFINS (CONT'D)	
C9 ALKANE	7520
C9 ALKANE	8560
C9 ALKANE	11000
C9 ALKANE	12700
C10+ ALKANE	9030
C10+ ALKANE	5350
C10+ ALKANE	22400
C10+ ALKANE	24100
C10+ ALKANE	32000
C10+ ALKANE	2810
C10+ ALKANE	6500
C10+ ALKANE	1600
C10+ ALKANE	1070
OLEFINS	
ISOBUTENE + 1-BUTENE	1770
T-2-BUTENE	8190
C-2-BUTENE	3660
ACETONITRILE	7010
T-2-PENTENE	1760
2-METHYL-2-BUTENE	1510
CYCLOPENTENE	2370
T-4-METHYL-2-PENTENE	8590
1-HEXENE	626
2,4,4-TRIME-1-PENTENE	9030
2,4,4-TRIME-2-PENTENE	4700
1-METHYLCYCLOHEXENE	9290
1-OCTENE	5440
C-2-OCTENE	1730
A-PINENE	16200
B-PINENE	18800
1-DECENE	9740
LIMONENE	12400
C9 ALKENE	5090
C9 ALKENE	7300
C9 ALKENE	9740
C9 ALKENE	18200
C9 ALKENE	13100
C9 ALKENE	14800

* ARTIFACT COMPOUND - CONCENTRATION NOT USED IN TOTAL NMHC CALCULATIONS.

** VARIABLE RECOVERY THROUGH DRYING SYSTEM - CONCENTRATIONS NOT USED IN TOTAL NMHC CALCULATIONS.

RESULTS OF CANISTER SPECIATION CORE #5, E13 AT 10 FT BLS (Cont.)

SITE 1
MASTER LOG NO: P-414
SAMPLE TYPE:

SAMPLING TECHNIQUE:

DATE SAMPLED:
DATE ANALYZED: 07/13/84

COMPOUND	CONCENTRATION (PPBV-C)
OLEFINS (CONT'D)	
C10+ ALKENE	6100
C10+ ALKENE	5570
C10+ ALKENE	3020
TOTAL AROMATICS	
BENZENE	14300
TOLUENE	54800
ETHYLBENZENE	17700
P-XYLENE/M-XYLENE	32700
O-XYLENE	15000
M-ETHYLTOLUENE	16700
1,3,5-TRIMETHYLBENZENE	25100
1,2,4-TRIMETHYLBENZENE	29500
ISOBUTYLBENZENE	5630
1,2,3-TRIMETHYLBENZENE	9520
INDAN	4090
INDENE	4870
M-DIETHYLBENZENE	5230
N-BUTYLBENZENE	5430
P-DIETHYLBENZENE	3090
C10+ AROMATIC	5390
C10+ AROMATIC	2030
TOTAL HALOGENATED HC	
CHLOROMETHANE	463E3
VINYL CHLORIDE	224E3
METHYLENE CHLORIDE	738
1,1,1-TRICHLOROETHANE	1730
TRICHLOROETHYLENE + BROMODICHLOROMETHANE	29600
TETRACHLOROETHYLENE	2990
1,1-DICHLOROETHANE	4050
UNIDENTIFIED HALOGENATED HC	12500
UNIDENTIFIED HALOGENATED HC	22700
UNIDENTIFIED HALOGENATED HC	21300
UNIDENTIFIED HALOGENATED HC	8530
UNIDENTIFIED HALOGENATED HC	89900
UNIDENTIFIED HALOGENATED HC	777E3
UNIDENTIFIED HALOGENATED HC	5990

COMPOUND	CONCENTRATION (PPBV-C)
TOTAL HALOGENATED HC (CONT'D)	
UNIDENTIFIED HALOGENATED HC	3020
****TOTAL OXYGENATED HC**	
HEXANAL	2220
UNIDENTIFIED VOC	
UNIDENTIFIED VOC	1340
UNIDENTIFIED VOC	1020
PARAFFINS	222E4
OLEFINS	209E3
TOTAL AROMATICS	252E3
TOTAL HALOGENATED HC	157E4
TOTAL OXYGENATED HC	2220**
UNIDENTIFIED VOC	2360
TOTAL NMHC	435E4

* ARTIFACT COMPOUND - CONCENTRATION NOT USED IN TOTAL NMHC CALCULATIONS.

** VARIABLE RECOVERY THROUGH DRYING SYSTEM - CONCENTRATIONS NOT USED IN TOTAL NMHC CALCULATIONS.

RESULTS OF CANISTER SPECIATION CORE #6, 11.5'N, 14'W of E6 AT 5' BLS

SITE 1
MASTER LOG NO: P-429
SAMPLE TYPE:

SAMPLING TECHNIQUE:

DATE SAMPLED:
DATE ANALYZED: 07/13/94

COMPOUND	CONCENTRATION (PPBV-C)	COMPOUND	CONCENTRATION (PPBV-C)
PARAFFINS		**PARAFFINS (CONT'D)**	
C-2 VOC	33200	C10+ ALKANE	8390
C-3 VOC	17830	C10+ ALKANE	5460
ISOBUTANE	17600	C10+ ALKANE	2220
N-BUTANE	53900	C10+ ALKANE	550
ISOPENTANE	130E3	C10+ ALKANE	1920
N-PENTANE	76900	C10+ ALKANE	514
N-HEXANE	1740		
CYCLOPENTANE	12700	**OLEFINS**	
2,3-DIMETHYLBUTANE	11600	ISOBUTENE + 1-BUTENE	5560
ISOHEXANE	32900	T-2-BUTENE	2710
3-METHYLPENTANE	20600	C-2-BUTENE	1450
N-HEXANE	18700	3-METHYL-1-BUTENE	1330
METHYLCYCLOPENTANE	29100	1-PENTENE	2520
2,4-DIMETHYLPENTANE	6450	2-METHYL-1-BUTENE	900
CYCLOHEXANE	14700	T-2-PENTENE	2180
ISOHEPTANE	20100	C-2-PENTENE	2470
3-METHYLHEXANE	9360	2-METHYL-2-BUTENE	2980
N-HEPTANE	8970	CYCLOPENTENE	1500
METHYLCYCLOHEXANE	26500	T-4-METHYL-2-PENTENE	3670
2,5-DIMETHYLHEXANE	3400	1-HEXENE	1980
2,3,4-TRIMETHYLPENTANE	4740	2-METHYL-2-PENTENE	2210
3,5,5-TRIMEHEXANE	8220	T-2-HEXENE	2990
3-METHYLHEPTANE	14300	C-2-HEXENE	826
2,2,5-TRIMETHYLHEXANE	4250	2,4,4-TRIME-1-PENTENE	896
N-OCTANE	9550	2,4,4-TRIME-2-PENTENE	3610
N-NONANE	14400	1-METHYLCYCLOHEXENE	3040
N-DECANE	9620	1-OCTENE	4000
N-UNDECANE	1520	C-2-OCTENE	500
C6 ALKANE	901	1-NONENE	8000
C7 ALKANE	8530	A-PINENE	2070
C7 ALKANE	7700	B-PINENE	7510
C7 ALKANE	20800	LIMONENE	3310
C8 ALKANE	3380	C8 ALKENE	4200
C8 ALKANE	5050	C8 ALKENE	5000
C8 ALKANE	4310	C8 ALKENE	1380
C8 ALKANE	1170	C8 ALKENE	5630
C8 ALKANE	899	C8 ALKENE	11400
C9 ALKANE	1840	C9 ALKENE	1620
C9 ALKANE	3640	C9 ALKENE	5070
C9 ALKANE	6630		

* ARTIFACT COMPOUND - CONCENTRATION NOT USED IN TOTAL NMHC CALCULATIONS.

** VARIABLE RECOVERY THROUGH DRYING SYSTEM - CONCENTRATIONS NOT USED IN TOTAL NMHC CALCULATIONS.

RESULTS OF CANISTER SPECIATION CORE #6, 11.5'N, 14'W of E6 AT 5' BLS (Cont.)

SITE 1
MASTER LOG NO: P-429
SAMPLE TYPE:

SAMPLING TECHNIQUE:

DATE SAMPLED:
DATE ANALYZED: 07/13/89

COMPOUND	CONCENTRATION (PPBV-C)
OLEFINS (CONT'D)	
C9 ALKENE	2590
C10+ ALKENE	7540
TOTAL AROMATICS	
BENZENE	1740
TOLUENE	6520
ETHYLBENZENE	6730
P-XYLENE/M-XYLENE	8513
O-XYLENE	3740
M-ETHYLTOLUENE	5170
1,3,5-TRIMETHYLBENZENE	8280
O-ETHYLTOLUENE	8000
1,2,4-TRIMETHYLBENZENE	3210
ISOPROPYLBENZENE	1800
1,2,3-TRIMETHYLBENZENE	4090
INDAN	1200
INDENE	1440
P-DIETHYLBENZENE	1460
N-BUTYLBENZENE	1570
P-DIETHYLBENZENE	1130
C9 AROMATIC	6120
C10+ AROMATIC	1710
C10+ AROMATIC	1930
TOTAL HALOGENATED HC	
CHLOROMETHANE	999
TRICHLOROETHYLENE + BROMODICHLOROMETHANE	19500
TETRACHLOROETHYLENE	1950
UNIDENTIFIED HALOGENATED HC	380
UNIDENTIFIED HALOGENATED HC	3770
TOTAL OXYGENATED HC	
HEXANAL	1340

COMPOUND	CONCENTRATION (PPBV-C)
UNIDENTIFIED VOC	
UNIDENTIFIED VOC	500
UNIDENTIFIED VOC	473
UNIDENTIFIED VOC	2110
UNIDENTIFIED VOC	1270
PARAFFINS	698E3
OLEFINS	119E3
TOTAL AROMATICS	74400
TOTAL HALOGENATED HC	21500
TOTAL OXYGENATED HC	1340**
UNIDENTIFIED VOC	4350
TOTAL NMHC	914E3

* ARTIFACT COMPOUND - CONCENTRATION NOT USED IN TOTAL NMHC CALCULATIONS.

** VARIABLE RECOVERY THROUGH DRYING SYSTEM - CONCENTRATIONS NOT USED IN TOTAL NMHC CALCULATIONS.

RESULTS OF CANISTER SPECIATION CORE #4, F20 AT 15 FT BLS (Cont.)

SITE I
MASTER LOG NO: C-399
SAMPLE TYPE:

SAMPLING TECHNIQUE:

DATE SAMPLED:
DATE ANALYZED: 06/29/84

COMPOUND	CONCENTRATION (PPBV-C)	COMPOUND	CONCENTRATION (PPBV-C)
TOTAL AROMATICS (CONT'D)			
3-ETHYLTOLUENE	495		
T-BUTYLBENZENE	2870		
1,2,3-TRIMETHYLBENZENE	1630		
INDAN	567		
INDENE	709		
N-BUTYLBENZENE	934		
P-DIETHYLBENZENE	479		
C10+ AROMATIC	350		
C10+ AROMATIC	261		
C10+ AROMATIC	492		
TOTAL HALOGENATED HC			
CHLOROMETHANE	558		
METHYLENE CHLORIDE	951		
TRICHLOROETHYLENE + BROMODICHLOROMETHANE	146		
TETRACHLOROETHYLENE	139		
UNIDENTIFIED HALOGENATED HC	1600		
UNIDENTIFIED HALOGENATED HC	2320		
UNIDENTIFIED HALOGENATED HC	319		
*TOTAL OXYGENATED HC			
HEXANAL	122		
PARAFFINS	37000		
OLEFINS	8690		
TOTAL AROMATICS	17200		
TOTAL HALOGENATED HC	6030		
TOTAL OXYGENATED HC	122**		
TOTAL NMHC	68900		

* ARTIFACT COMPOUND - CONCENTRATION NOT USED IN TOTAL NMHC CALCULATIONS.

** VARIABLE RECOVERY THROUGH DRYING SYSTEM - CONCENTRATIONS NOT USED IN TOTAL NMHC CALCULATIONS.

Appendix K

RESULTS OF SECOND QA AUDIT

RADIAN
CORPORATION

TO: Robert Richardson, Robert Vandervort

FROM: Dave Lewis

DATE: January 30, 1985

RE: Results of Second Audit for Purity Program

As part of the quality assurance/quality control effort for the Purity Site Investigation, the project QA Coordinator conducted a performance audit of analyses performed on the field samples. This audit consisted of submitting blind samples of known composition for analysis, along with the field samples. For several parameters, the audit results were outside expected limits of uncertainty and indicated a possibility of systematic analytical errors which would affect the reliability of corresponding analytical data for the samples. Results for this first audit, presented in detail in the Phase I Draft Report, are summarized in Table 1.

As indicated in Table 1, audit results for the organic analyses were generally acceptable, while results for the inorganic analyses were unsatisfactory for the majority of the parameters evaluated. Specifically, problems were indicated for metals analyzed both by ICPES and AA, anions, oil and grease, phenolics, TOC, COD, and hardness. To address the data reliability questions raised by the audit results, Radian proposed a two-part course of action (described in a letter from Robert Vandervort, Radian Senior Program Manager, to Eric Lappala, Harding Lawson Associates, 27 November 1984). First, a second QA audit was scheduled for early December 1984. Second, following demonstration of satisfactory performance for the second audit, Radian proposed to reanalyze approximately 10 percent of the Level B and Level C samples for the parameters in question. Results of the second audit and sample data for the reanalyses are presented and discussed below.

Audit Results

The second performance audit, conducted in December 1984, consisted of submitting both solid and liquid samples for analysis for the parameters of interest. These samples included:

- aqueous samples, at two levels, for metals analyses (AA and ICPES),
- aqueous samples, at two levels, for anion ($SO_4^=$, Cl^-, and F^-) analyses by ion chromatography (IC),
- aqueous samples, at two levels, for miscellaneous water quality analyses (total hardness, total dissolved solids, total phenolics, total organic carbon, and chemical oxygen demand),
- solid samples, at two levels, for metals analyses (AA and ICPES),
- solid samples, at two levels, for oil and grease, and
- a solid sample for total phenolics.

Results for the audit sample analyses are presented in Tables 2 through 7.

Metals in Aqueous Samples

The original audit for the Purity program indicated metals analyses to be one of the primary areas of deficiency, not only in terms of meeting the project accuracy objectives of ±15% (for aqueous samples), but also in terms of meeting 95% confidence intervals established from EPA performance evaluation data for the audit materials used. Results for the second audit were significantly better, with 90% of the results (27 of 30 values) within the project error limits of ±15%, and all but two results within the EPA 95% confidence interval. The values falling outside the 95% EPA window were for beryllium and zinc at the high level, which were 19% and 10% low, respec-

tively. Results for nickel and lead at the low level (17.2 ppm nickel and 0.7 ppm lead) were outside the ±15% project error limits, along with the high level beryllium result. Overall, these audit data were well within acceptability limits.

Anions in Aqueous Samples

Results for anion analyses performed during the first audit showed errors ranging from -7% to -58% (low). While results for the second audit (Table 3) showed marked improvement, ranging from -22% (low) to 19.7% (high), half of the results (3 of 6) for the second audit were still outside EPA 95% confidence levels. These included both chloride results and one of the two fluoride values. Both sulfate results were inside the EPA acceptance windows and within project objectives of ±15%. The high level (85.3 ppm) chloride result, while outside EPA acceptance windows, was however within ±15% project error limits at 7.9% (high).

Based on these results, anion analyses of the aqueous audit standards were repeated. These results are shown in Table 4. On this third try, all results fell within both project objectives and EPA acceptance windows.

Overall, audit results for anions by IC indicate that, although the laboratory is capable of generating data of acceptable quality, data quality is not consistent. While results for the second audit indicate acceptable sulfate data, they indicate that chloride and fluoride data do not routinely meet the project error limits of ±15%.

Miscellaneous Water Quality Analyses

Level C analyses of groundwater and surface water included the following water quality analyses in addition to anions, metals, and organics analyses:

- total hardness,
- total dissolved solids (TDS),
- total phenolics,
- total organic carbon (TOC),
- chemical oxygen demand (COD), and
- acidity.

Of these, only results for acidity were within project error limits. Results for the second audit are shown in Table 5. As indicated in the table, low level results for TDS and TOC were outside project error limits. The TDS value was, however, within the EPA 95% confidence interval, although the low level TOC value was not. Considering the indicator nature of this type of water quality data, results for the second audit indicate generally acceptable performance.

Metals in Solid Samples

Metals analyses were included in both Level B and Level C analyses for solid samples. The original audit was low for the majority of the metals, and suggested problems with the sample digestion procedure. Results for the second audit, shown in Table 6, show considerable improvement over the original results. The relatively good agreement between these results and results for metals analyses of the aqueous audit samples indicates that the digestion portion of the analytical procedure did not contribute greatly this time to the observed measurement error. Of the 26 reported values, 20 were within the project objectives of ±12% and all but one (low level arsenic) were within ±20%. Since the high level standard was obtained from the National Bureau of Standards rather than EPA, 95% confidence levels were available for only the low level sample. Results for all but one parameter (nickel) were within these limits. Overall, these audit data indicate acceptable analytical performance.

Miscellaneous Analyses of Solid Samples

Level B analyses of wastes, contaminated soils, and canal sediment included oil and grease and total phenols analyses. The original audit indi-

cated an average error of about 50% (high) for oil and grease, while recovery for the single phenol sample was less than 2% (i.e., error of -98.3%). For the oil and grease analyses, results for the second audit, shown in Table 7, were easily within the ±30% project objectives at -2.3% and -1.1% for the low and high level standards, respectively. Total phenolics results, on the other hand, did not meet project accuracy objectives during the second audit, although the measured value was within the EPA 95% confidence level.

Repeat Analyses

The second part of Radian's effort to address data quality questions arising from the first performance audit involved a proposal to reanalyze approximately 10% of the samples for the inorganic parameters in question. These analyses, validated on the basis of results for the second audit, were intended as a screening mechanism to detect inadequacies in the sample data. Based on the original audit results, the following parameters were identified for repeat analyses:

- AA Metals,
- ICPES Metals,
- Phenols,
- Anions,
- Hardness,
- Oil and Grease,
- TOC,
- COD, and
- TDS.

Samples for reanalysis were to include:

- Level B Groundwater,
- Level C Groundwater,
- Level B Soil (Contaminated),
- Level B Soil (Uncontaminated),
- Level C Canal Sediment, and
- Level C Soil.

Ultimately, it was not possible to reanalyze any of the groundwater samples because of lack of sufficient remaining sample volume. For the solid samples, reanalyses were performed on the following:

- Six Level B Soil (Contaminated),
- Two Level B Soil (Uncontaminated),
- Two Level B Canal Sediment, and
- Five Level C Soil.

In all cases, the analytical results showed good agreement between initial and repeat analyses. These data are shown in Table 8. Table 9 presents a statistical summary of these data in terms of the pooled standard deviation and pooled coefficient of variation for each parameter. The pooled standard deviation is essentially a "weighted average" of standard deviations calculated for the individual pairs of samples (i.e., original and repeat pairs). The pooled coefficient of variation is similar, but is in terms of percentage of the measured value to convey the magnitude of variability relative to the measured value. As indicated in this table, average analytical repeatability was within 15% for all but two parameters. For copper, the pooled coefficient was just outside this limit at 18.2%. Molybdenum showed the poorest repeatability of all parameters at 66.7%. For this parameter, the measured value was "<2 ppm" in all three repeat samples for which molybdenum had been previously reported above the detection limit. Standard deviations and coefficients of variation were calculated using a value of one-half the detection limit (1 ppm) when a less than value was reported as the reanalysis result and a measureable quantity had been previously reported.

Summary and Conclusions

A two-phase approach was taken to help answer some of the data quality questions pertaining to the Purity Site Investigation analytical data. First, a second quality assurance audit was performed addressing the parameters of interest, in both solid and liquid samples. Results of this audit were generally acceptable. Audit data for anion analyses by IC (chloride and fluoride, specifically) did, however, indicate continuing problems with these

analyses. Results for total phenolics in solid samples were also well outside the project accuracy limits of ±30%, although the measured value was within the EPA 95% confidence interval for the audit material used. Metals audit data, for both liquid and solid matrices, showed significant improvement over results for the original audit, and were generally within acceptable limits.

The second part of Radian's effort to resolve the data quality questions involved reanalyses of a portion of the samples to confirm previous results. A total of 16 solid (two canal sediment and 14 soil) samples were reanalyzed for Level B or C parameters, as appropriate. Reanalyses of groundwater samples were not possible, however, due to insufficient sample volumes. For the solid samples, reanalysis results agreed very well with original results for all samples and all parameters except molybdenum. These data, based as they were on a random sample of the samples origina · analyzed, show no evidence of any systematic problems with the soil, wa-e, and sediment analyses, and suggest that the poor performance on the original solid audit samples may have been an isolated incident.

Since no groundwater samples could be reanalyzed, conclusions regarding reliability of the sample data must be based solely on the audit results. Here the data indicate that while the laboratory has the capability of generating data of acceptable quality, data quality is not consistent from day to day. Data for any samples analyzed concurrently with the first set of audit samples would certainly have to be considered suspect. Daily QC data for these parameters apparently cannot be used as a completely reliable index of data quality since they did not indicate any problems when the first set of audit analyses were performed.

TABLE 5. PERFORMANCE AUDIT RESULTS FOR MISCELLANEOUS WATER QUALITY ANALYSES

Parameter	Low Level Standard			High Level Standard			Project Accuracy Objectives (%)
	Certified Value (mg/L)	Reported Value (mg/L)	Relative Error (%)	Certified Value (mg/L)	Reported Value (mg/L)	Relative Error (%)	
Total Hardness (mg/L as $CaCO_3$)	20.7	20.7	0.0	136	140.5	3.3	±10
Total Dissolved Solids (mg/L at 180°C)	44.2	28.3	-35.9	320	285	-10.9	±20
Total Phenolics (ug/L)	15	16.6/15.1	10.7/0.7	72	71.1/69.6	1.2/-3.3	±15
Total Organic Carbon (ug/L)	6.1	4.0[a]	-34.4	91.5	92.4	1.0	±20
Chemical Oxygen Demand (mg/L)	15.6	15.0	-3.8	232	230	-0.9	±25

[a]Measured value outside the 95% confidence interval established from EPA Performance Evaluation data

TABLE 6. PERFORMANCE AUDIT RESULTS FOR METALS IN SOLID MATRICES

Parameter	Method	Low Level Standard (Sludge)			High Level Standard (Sediment)		
		Certified Value (ug/L)	Reported Value (ug/L)	Relative Error (%)	Certified Value[a] (ug/L)	Reported Value (ug/L)	Relative Error (%)
Aluminum	ICPES	4560	4800	5.3	22600	23000	1.8
Beryllium	ICPES	0.28	0.31	10.7	--	0.18	
Cadmium	ICPES	19.1	19.0	-0.5	10.2	11.0	7.8
Chromium	ICPES	193	180	-6.7	29600	27000	-8.8
Copper	ICPES	1080	970	-10.1	109	90	-17.4
Cobalt	ICPES	--			10.1	9.0	-10.9
Iron	ICPES	16500	17000	3.0	113000	120000	6.2
Manganese	ICPES	202	170	-15.8	785	810	3.2
Nickel	ICPES	194	160[b]	-17.5	45.8	47	2.6
Vanadium	ICPES	13.0	11	-15.3	23.5	21.0	-10.6
Zinc	ICPES	1320	1200	-9.1	1720	1820	5.8
Arsenic	Hydride AA	17	1.6	-90.5	66[c]	64	-3.0
Lead	Graphite Furnace AA	526	515	-2.1	714	720	0.8
Mercury	Cold Vapor AA	16.3	16.5	1.2	1.1	0.945	-14
Selenium	Hydride AA	--	NA	--	1.5[c]	NA	-

[a]95% confidence interval not available
[b]Measured value outside the 95% confidence interval established from EPA Performance Evaluation data
[c]Value not certified

TABLE 7. PERFORMANCE AUDIT RESULTS FOR MISCELLANEOUS ANALYSES IN SOLID MATRICES

Parameter	Low Level Standard			High Level Standard			Project Accuracy Objectives (%)
	Certified Value (mg/L)	Reported Value (mg/L)	Reported Error (%)	Certified Value (mg/L)	Reported Value (mg/L)	Reported Error (%)	
Oil and Grease	17100[a]	16700	-2.3	52700	52055	-1.1	±30
Total Phenolics	28.9	12.3	-57	--	NA	--	±15

[a]Value not certified

TABLE 8. PURITY METALS DATA

Sample #	Soil Type	Date	Ag	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Mg	Mo	Ni	Pb	Sb	Se	Tl	V	Zn	O&G	Phenol
07034-06	Canal Sediment	Prev	<2	<6	45	<.05	1300	1.1	8.6	39	14	3100	3.2	41	6	<3	<8	<9	20	36	3,000	<.05
		1/85	<2	<6	47	<.05	1500	1.4	10	40	16	3500	<2	44	5	<3	<8	<9	28	38	4,100	<.05
07034-07	Canal Sediment	Prev	<2	<6	48	<.05	1300	.65	8.3	40	16	3600	3.4	50	<2	<3	<8	<9	25	38	338	.32
		1/85	<2	<6	42	<.05	1100	.59	8.5	41	16	3800	<2	47	5	<3	<8	<9	18	37	600	.41
07032-09	Soil B Contam.	Prev	-	-	-	-	-	-	-	-	-	-	-	-	4400	-	-	-	-	-	25,000	0.21
		1/85	-	-	-	-	-	-	-	-	-	-	-	-	4100	-	-	-	-	-	21,000	0.24
07032-18	Soil B Contam.	Prev	-	-	-	-	-	-	-	-	-	-	-	-	6060	-	-	-	-	-	290,000	1.1
		1/85	-	-	-	-	-	-	-	-	-	-	-	-	6300	-	-	-	-	-	250,000	0.95
07033-02	Soil B Contam.	Prev	-	-	-	-	-	-	-	-	-	-	-	-	25	-	-	-	-	-	4,100	0.34
		1/85	-	-	-	-	-	-	-	-	-	-	-	-	27	-	-	-	-	-	3,600	0.38
07044-04	Soil B Contam.	Prev	-	-	-	-	-	-	-	-	-	-	-	-	870	-	-	-	-	-	36,000	.58
		1/85	-	-	-	-	-	-	-	-	-	-	-	-	870	-	-	-	-	-	41,000	.51
07085-13	Soil B Contam.	Prev	-	-	-	-	-	-	-	-	-	-	-	-	2.1	-	-	-	-	-	4,000	.09
		1/85	-	-	-	-	-	-	-	-	-	-	-	-	<5	-	-	-	-	-	6,000	<.05
07085-16	Soil B Contam.	Prev	-	-	-	-	-	-	-	-	-	-	-	-	3.7	-	-	-	-	-	30,000	0.27
		1/85	-	-	-	-	-	-	-	-	-	-	-	-	3.8	-	-	-	-	-	25,000	0.19
07181-01	Soil B Contam.	Prev	-	-	-	-	-	-	-	-	-	-	-	-	1600	-	-	-	-	-	24,000	0.17
		1/85	-	-	-	-	-	-	-	-	-	-	-	-	1350	-	-	-	-	-	23,000	0.11
07045-09	Soil B Uncontam.	Prev	<2	<6	84	<.05	2100	.36	3.9	21	18	2500	1.9	8.7	13	<3	<8	<8	16	180	-	-
		1/85	<2	<6	83	<.05	2100	.40	4.1	19	11	2500	<2	10	9.9	3	<8	9	16	150	-	-
07182-05	Soil B Uncontam.	Prev	<2	<6	77	<.05	2300	<.2	3.8	5.6	13	4040	<.16	5.8	17	<3	<8	<9	13	35	-	-
		1/85	<2	<6	63	<.05	2000	<.2	4.6	6.5	17	3900	<2	6.1	16	<3	<8	<9	16	38	-	-
09014-17	Soil C Contam.	Prev	<2	2.7	NR	<.12	NR	<2	NR	58	62	NR	NR	120	<2	<2	<2	7.9	NR	260	-	-
		1/85	<2	2.5	NR	<.05	NR	<2	NR	53	63	NR	NR	110	<2	<2	<2	7.5	NR	240	-	-
09015-05	Soil C Contam.	Prev	<2	5.3	NR	<.05	NR	<2	NR	36	20	NR	NR	17	560	<2	<2	<2	NR	390	-	-
		1/85	<2	6.8	NR	<.05	NR	<2	NR	37	18	NR	NR	17	500	<2	<2	<2	NR	380	-	-
09015-06	Soil C Contam.	Prev	<2	7.8	NR	<.05	NR	<2	NR	9.7	15	NR	NR	17	<2	N2	3.9	<2	NR	66	-	-
		1/85	<2	6.9	NR	<.05	NR	<2	NR	6.0	16	NR	NR	17	<2	<2	3.1	<2	NR	64	-	-
09015-16	Soil C Contam.	Prev	<2	3.6	NR	<.05	NR	<2	NR	15	23	NR	NR	4.9	740	<2	<2	<2	NR	75	-	-
		1/85	<2	3.9	NR	<.05	NR	<2	NR	13	18	NR	NR	6.0	810	<2	<2	<2	NR	65	-	-
09015-21	Soil C Contam.	Prev	<2	4.0	NR	<.05	NR	<2	NR	14	12	NR	NR	6.6	23	<2	<2	<2	NR	85	-	-
		1/85	<2	3.1	NR	<.05	NR	2	NR	12	20	NR	NR	7.8	28	<2	<2	<2	NR	86	-	-

NR = Not Required

TABLE 9. REPEATABILITY OF ANALYSES

Parameter	Level[a] (ppm)	Standard Deviation[b] (ppm)	Coefficient of Variation[c] (%)
Metals			
Cr	24	1.65	12.4
Cu	22	2.94	18.2
As	4.7	0.63	12.4
Ba	62	5.49	8.7
Ca	1930	145	8.5
Co	5.7	0.54	9.8
Mg	3584	152	4.4
V	18	2.61	13.7
Ni	28	2.49	8.5
Zn	119	8.73	6.0
Cd	0.8	0.13	11.4
Mo	1.9	1.38	66.7
Se	3.5	0.5	16.2
Tl	7.7	0.28	3.7
Pb	1014	88.4	13.6
Other			
O&G	36514	8439	18.1
Phenol	0.4	0.06	32.7

[a]Average concentration

[b]Pooled (i.e., "average") standard deviation for repeat sample pairs.

[c]Pooled coefficient of variation (i.e., relative standard deviation) for repeat sample pairs.

TABLE 5. PERFORMANCE AUDIT RESULTS FOR MISCELLANEOUS WATER QUALITY ANALYSES

Parameter	Low Level Standard			High Level Standard			Project Accuracy Objectives (%)
	Certified Value (mg/L)	Reported Value (mg/L)	Relative Error (%)	Certified Value (mg/L)	Reported Value (mg/L)	Relative Error (%)	
Total Hardness (mg/L as $CaCO_3$)	20.7	20.7	0.0	136	140.5	3.3	±10
Total Dissolved Solids (mg/L at 180°C)	44.2	28.3	-35.9	320	285	-10.9	±20
Total Phenolics (ug/L)	15	16.6/15.1	10.7/0.7	72	71.1/69.6	1.2/-3.3	±15
Total Organic Carbon (ug/L)	6.1	4.0[a]	-34.4	91.5	92.4	1.0	±20
Chemical Oxygen Demand (mg/L)	15.6	15.0	-3.8	232	230	-0.9	±25

[a]Measured value outside the 95% confidence interval established from EPA Performance Evaluation data

TABLE 6. PERFORMANCE AUDIT RESULTS FOR METALS IN SOLID MATRICES

Parameter	Method	Low Level Standard (Sludge)			High Level Standard (Sediment)		
		Certified Value (ug/L)	Reported Value (ug/L)	Relative Error (%)	Certified Value[a] (ug/L)	Reported Value (ug/L)	Relative Error (%)
Aluminum	ICPES	4560	4800	5.3	22600	23000	1.8
Beryllium	ICPES	0.28	0.31	10.7	--	0.18	
Cadmium	ICPES	19.1	19.0	-0.5	10.2	11.0	7.8
Chromium	ICPES	193	180	-6.7	29600	27000	-8.8
Copper	ICPES	1080	970	-10.1	109	90	-17.4
Cobalt	ICPES	--			10.1	9.0	-10.9
Iron	ICPES	16500	17000	3.0	113000	120000	6.2
Manganese	ICPES	202	170	-15.8	785	810	3.2
Nickel	ICPES	194	160[b]	-17.5	45.8	47	2.6
Vanadium	ICPES	13.0	11	-15.3	23.5	21.0	-10.6
Zinc	ICPES	1320	1200	-9.1	1720	1820	5.8
Arsenic	Hydride AA	17	1.6	-90.5	66[c]	64	-3.0
Lead	Graphite Furnace AA	526	515	-2.1	714	720	0.8
Mercury	Cold Vapor AA	16.3	16.5	1.2	1.1	0.945	-14
Selenium	Hydride AA	--	NA	--	1.5[c]	NA	-

[a]95% confidence interval not available
[b]Measured value outside the 95% confidence interval established from EPA Performance Evaluation data
[c]Value not certified

TABLE 7. PERFORMANCE AUDIT RESULTS FOR MISCELLANEOUS ANALYSES IN SOLID MATRICES

Parameter	Low Level Standard			High Level Standard			Project Accuracy Objectives (%)
	Certified Value (mg/L)	Reported Value (mg/L)	Reported Error (%)	Certified Value (mg/L)	Reported Value (mg/L)	Reported Error (%)	
Oil and Grease	17100[a]	16700	-2.3	52700	52055	-1.1	±30
Total Phenolics	28.9	12.3	-57	--	NA	--	±15

[a]Value not certified

TABLE 8. PURITY METALS DATA

Sample #	Soil Type	Date	Ag	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Mg	Mo	Ni	Pb	Sb	Se	Tl	V	Zn	O&G	Phenol
07034-06	Canal Sediment	Prev	<2	<6	45	<.05	1300	1.1	8.6	39	14	3100	3.2	41	6	<3	<8	<9	20	36	3,000	<.05
		1/85	<2	<6	47	<.05	1500	1.4	10	40	16	3500	<2	44	5	<3	<8	<9	28	38	4,100	<.05
07034-07	Canal Sediment	Prev	<2	<6	48	<.05	1300	.65	8.3	40	16	3600	3.4	50	<2	<3	<8	<9	25	38	338	.32
		1/85	<2	<6	42	<.05	1100	.59	8.5	41	16	3800	<2	47	5	<3	<8	<9	18	37	600	.41
07032-09	Soil B Contam.	Prev	-	-	-	-	-	-	-	-	-	-	-	-	4400	-	-	-	-	-	25,000	0.21
		1/85	-	-	-	-	-	-	-	-	-	-	-	-	4100	-	-	-	-	-	21,000	0.24
07032-18	Soil B Contam.	Prev	-	-	-	-	-	-	-	-	-	-	-	-	6060	-	-	-	-	-	290,000	1.1
		1/85	-	-	-	-	-	-	-	-	-	-	-	-	6300	-	-	-	-	-	250,000	0.95
07033-02	Soil B Contam.	Prev	-	-	-	-	-	-	-	-	-	-	-	-	25	-	-	-	-	-	4,100	0.34
		1/85	-	-	-	-	-	-	-	-	-	-	-	-	27	-	-	-	-	-	3,600	0.38
07044-04	Soil B Contam.	Prev	-	-	-	-	-	-	-	-	-	-	-	-	870	-	-	-	-	-	36,000	.58
		1/85	-	-	-	-	-	-	-	-	-	-	-	-	870	-	-	-	-	-	41,000	.51
07085-13	Soil B Contam.	Prev	-	-	-	-	-	-	-	-	-	-	-	-	2.1	-	-	-	-	-	4,000	.09
		1/85	-	-	-	-	-	-	-	-	-	-	-	-	<5	-	-	-	-	-	6,000	<.05
07085-16	Soil B Contam.	Prev	-	-	-	-	-	-	-	-	-	-	-	-	3.7	-	-	-	-	-	30,000	0.27
		1/85	-	-	-	-	-	-	-	-	-	-	-	-	3.8	-	-	-	-	-	25,000	0.19
07181-01	Soil B Contam.	Prev	-	-	-	-	-	-	-	-	-	-	-	-	1600	-	-	-	-	-	24,000	0.17
		1/85	-	-	-	-	-	-	-	-	-	-	-	-	1350	-	-	-	-	-	23,000	0.11
07045-09	Soil B Uncontam.	Prev	<2	<6	84	<.05	2100	.36	3.9	21	18	2500	1.9	8.7	13	<3	<8	<8	16	180	-	-
		1/85	<2	<6	83	<.05	2100	.40	4.1	19	11	2500	<2	10	9.9	3	<8	9	16	150	-	-
07182-05	Soil B Uncontam.	Prev	<2	<6	77	<.05	2300	<.2	3.8	5.6	13	4040	<.16	5.8	17	<3	<8	<9	13	35	-	-
		1/85	<2	<6	63	<.05	2000	<.2	4.6	6.5	17	3900	<2	6.1	16	<3	<8	<9	16	38	-	-
09014-17	Soil C Contam.	Prev	<2	2.7	NR	<.12	NR	<2	NR	58	62	NR	NR	120	<2	<2	<2	7.9	NR	260	-	-
		1/85	<2	2.5	NR	<.05	NR	<2	NR	53	63	NR	NR	110	<2	<2	<2	7.5	NR	240	-	-
09015-05	Soil C Contam.	Prev	<2	5.3	NR	<.05	NR	<2	NR	36	20	NR	NR	17	560	<2	<2	<2	NR	390	-	-
		1/85	<2	6.8	NR	<.05	NR	<2	NR	37	18	NR	NR	17	500	<2	<2	<2	NR	380	-	-
09015-06	Soil C Contam.	Prev	<2	7.8	NR	<.05	NR	<2	NR	9.7	15	NR	NR	17	<2	N2	3.9	<2	NR	66	-	-
		1/85	<2	6.9	NR	<.05	NR	<2	NR	6.0	16	NR	NR	17	<2	<2	3.1	<2	NR	64	-	-
09015-16	Soil C Contam.	Prev	<2	3.6	NR	<.05	NR	<2	NR	15	23	NR	NR	4.9	740	<2	<2	<2	NR	75	-	-
		1/85	<2	3.9	NR	<.05	NR	<2	NR	13	18	NR	NR	6.0	810	<2	<2	<2	NR	65	-	-
09015-21	Soil C Contam.	Prev	<2	4.0	NR	<.05	NR	<2	NR	14	12	NR	NR	6.6	23	<2	<2	<2	NR	85	-	-
		1/85	<2	3.1	NR	<.05	NR	2	NR	12	20	NR	NR	7.8	28	<2	<2	<2	NR	86	-	-

NR = Not Required

TABLE 9. REPEATABILITY OF ANALYSES

Parameter	Level[a] (ppm)	Standard Deviation[b] (ppm)	Coefficient of Variation[c] (%)
Metals			
Cr	24	1.65	12.4
Cu	22	2.94	18.2
As	4.7	0.63	12.4
Ba	62	5.49	8.7
Ca	1930	145	8.5
Co	5.7	0.54	9.8
Mg	3584	152	4.4
V	18	2.61	13.7
Ni	28	2.49	8.5
Zn	119	8.73	6.0
Cd	0.8	0.13	11.4
Mo	1.9	1.38	66.7
Se	3.5	0.5	16.2
Tl	7.7	0.28	3.7
Pb	1014	88.4	13.6
Other			
O&G	36514	8439	18.1
Phenol	0.4	0.06	32.7

[a]Average concentration

[b]Pooled (i.e., "average") standard deviation for repeat sample pairs.

[c]Pooled coefficient of variation (i.e., relative standard deviation) for repeat sample pairs.

DRAFT

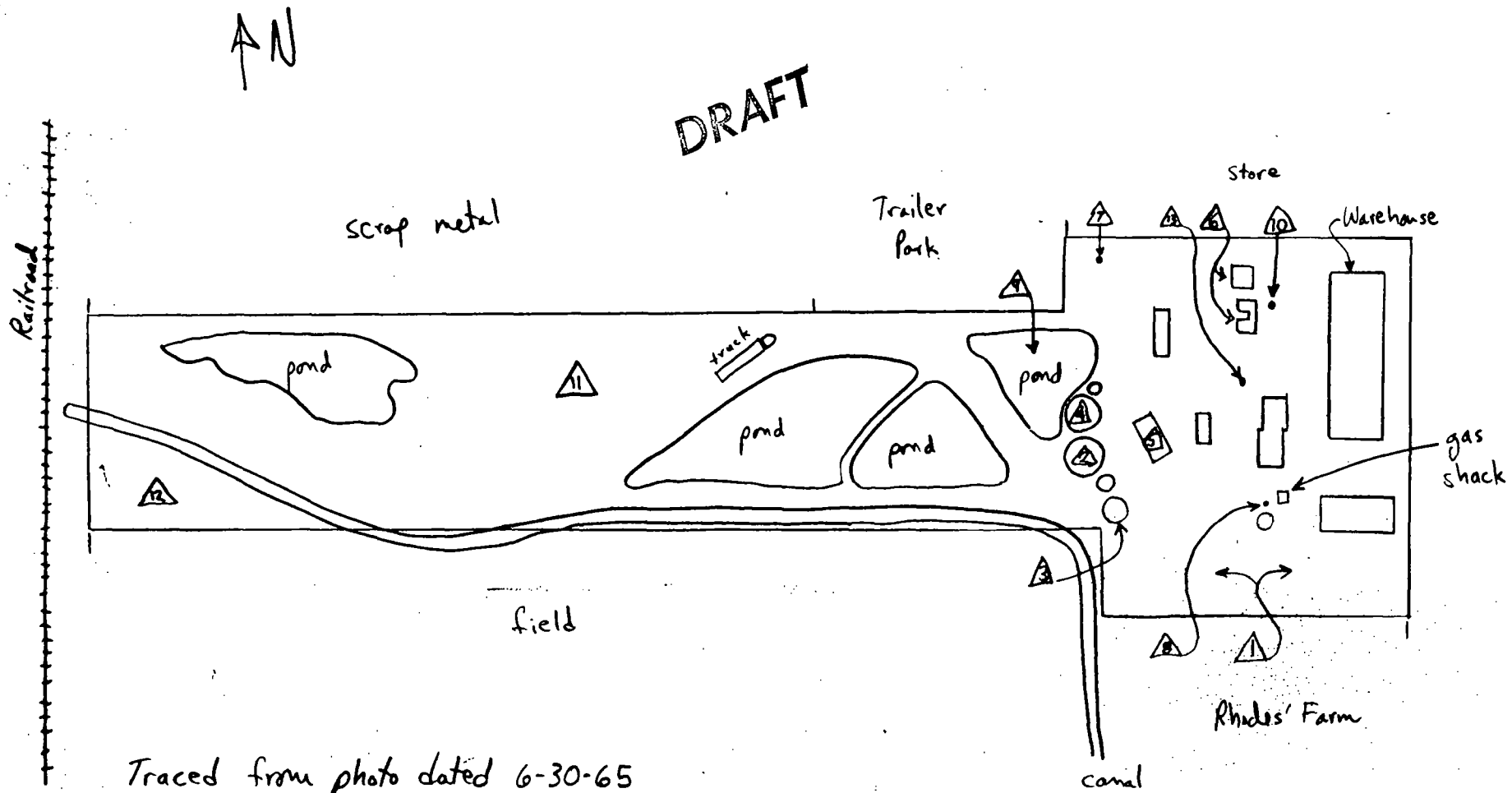
Q82: Did any activity ever occur in area no. 12?

A: No.

Q83: Was there a water well onsite?

A: There was an open 24-inch well at location no. 13. It was probably backfilled when the site was closed.

END OF INTERVIEW



Traced from photo dated 6-30-65
Approx scale 1" = 100'
0 100'

FIGURE A-1
Plan Showing Points Discussed in LeRoy Gray Interview
Purity Oil Sales Site
RI/FS

CH2M HILL