



**SORRELLS RESEARCH
LABORATORY AND FIELD SERVICES**

WPCF



**CHEMISTS
ECOLOGISTS
CONSULTANTS
PLANNERS**

8002 STANTON ROAD
LITTLE ROCK, ARKANSAS 72209

(501) 562-8139

LABORATORY ANALYSIS

Date of Report: September 30, 1992

Date Received: September 03, 1992

FOR: Sunray Services
P. O. Box 1301
105 Old Missouri Road
Springdale, AR 72765

JOB: Landfill Monitoring. 40 CFR Part 258

SAMPLE FROM: Well 1 09/02/92 09:15 / Well 2 09/02/92 09:40

*Please Note - Reported in Milligrams per Liter or Standard units.

ANALYTE	Well 1	Well 2	Max Cont.	Levels
			DW Stds.	TCLP
Antimony	N.D.	N.D.	NA	NA
Arsenic	N.D.	N.D.	0.05	5.0
Barium	0.084	0.022	1.0	100.0
Beryllium	N.D.	N.D.	NA	NA
Cadmium	0.0007	N.D.	0.01	1.0
Chromium	0.007	N.D.	0.05	5.0
Cobalt	N.D.	N.D.	NA	NA
Copper	N.D.	N.D.	1.0	100.0
Lead	0.001	0.004	0.025	2.5
Nickel	0.03	0.001	NA	NA
Selenium	N.D.	N.D.	0.01	1.0
Silver	N.D.	N.D.	0.05	5.0
Thallium	N.D.	N.D.	NA	NA
Vanadium	0.015	0.008	NA	NA
Zinc	0.182	0.017	5.0	500.0
Acetone	N.D.	N.D.	NA	NA
Acrylonitrile	N.D.	N.D.	NA	NA
Benzene	N.D.	N.D.	0.005	0.5
Bromochloromethane	N.D.	N.D.	NA	NA
Bromodichloromethane	N.D.	N.D.	NA	NA
Bromoform	N.D.	N.D.	0.1	NA
Carbon disulfide	N.D.	N.D.	NA	NA
Carbon tetrachloride	N.D.	N.D.	0.005	0.5
Chlorobenzene	N.D.	N.D.	NA	100.0
Chloroethane	N.D.	N.D.	NA	NA
Chloroform	N.D.	N.D.	0.1	6
Dibromochloromethane	N.D.	N.D.	0.1	NA
Dibromo-3-chloropropane, 1,2-	N.D.	N.D.	NA	NA
Dibromoethane, 1,2-	N.D.	N.D.	NA	NA
Dichlorobenzene, o-	N.D.	N.D.	NA	NA
Dichlorobenzene, p-	N.D.	N.D.	0.075	NA
Dichloro-2-butene, trans-1,4-	N.D.	N.D.	NA	NA
Dichloroethane, 1,1-	N.D.	N.D.	NA	NA



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*Please Note - Reported in Milligrams per Liter or Standard units.

ANALYTE	Well 1	Well 2	Max Cont.	Levels
			DW Stds.	TCLP
Dichloroethane, 1,2-	N.D.	N.D.	0.005	0.5
Dichloroethylene, 1,1-	N.D.	N.D.	0.007	0.7
Dichloroethylene, cis-1,2-	N.D.	N.D.	NA	NA
Dichloroethylene, trans,1-,2-	N.D.	N.D.	NA	NA
Dichloropropane, 1,2-	N.D.	N.D.	NA	NA
Dichloropropene, cis-1,3-	N.D.	N.D.	NA	NA
Dichloropropene, trans, 1,3-	N.D.	N.D.	NA	NA
Ethylbenzene	N.D.	N.D.	NA	NA
Hexanone, 2-	N.D.	N.D.	NA	NA
Methyl bromide	N.D.	N.D.	NA	NA
Methyl chloride	N.D.	N.D.	NA	NA
Methylene bromide	N.D.	N.D.	NA	NA
Methylene chloride	N.D.	N.D.	NA	NA
Methyl ethyl ketone	N.D.	N.D.	NA	NA
Methyl Iodide	N.D.	N.D.	NA	NA
Methyl-2-pentanone, 4-	N.D.	N.D.	NA	NA
Styrene	N.D.	N.D.	NA	NA
Tetrachloroethane, 1, 1, 1, 2-	N.D.	N.D.	NA	NA
Tetrachloroethane, 1, 1, 2, 2-	N.D.	N.D.	NA	NA
Tetrachloroethylene	N.D.	N.D.	NA	0.7
Toluene	N.D.	N.D.	NA	NA
Trichloroethane, 1, 1, 1-	N.D.	N.D.	0.2	NA
Trichloroethane, 1, 1, 2-	N.D.	N.D.	NA	NA
Trichloroethylene	N.D.	N.D.	0.005	0.5
Trichlorofluoromethane	N.D.	N.D.	NA	NA
Trichloropropane, 1, 2, 3-	N.D.	N.D.	NA	NA
Vinyl acetate	N.D.	N.D.	NA	NA
Vinyl chloride	N.D.	N.D.	0.02	0.2
Xylene, o-	N.D.	N.D.	NA	NA
Xylene, m-	N.D.	N.D.	NA	NA
Xylene, p-	N.D.	N.D.	NA	NA
Xylenes	N.D.	N.D.	NA	NA



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*Please Note - Reported in Milligrams per Liter or Standard units.

ANALYTE	Well 1	Well 2	Max Cont.	Levels
			DW Stds.	TCLP
Ammonia nitrogen	0.143	0.179	NA	NA
Bicarbonate	219.6	63.4	NA	NA
Calcium	55.0	25.6	NA	NA
Chloride	39.8	12.8	250	NA
Iron	N.D.	N.D.	0.3	NA
Magnesium	3.86	0.777	NA	NA
Manganese	1.23	N.D.	0.05	NA
Nitrate	1.3	0.66	10.0	NA
Potassium	5.18	0.78	NA	NA
Sodium	26.8	4.15	NA	NA
Sulfate	6.52	6.52	250	NA
Chemical oxygen demand	29.6	6.1	NA	NA
Total dissolved solids	478.5	143.5	500	NA
Cyanide	N.D.	N.D.	NA	NA
Mercury	N.D.	N.D.	0.002	0.2
pH, units	6.5	7.1	6.5-8.5	<2 OR>1
Specific conductance, us/cm	500.0	150.0	NA	NA
Temperature, .c	16.9	16.1	NA	NA

Collected by:
Vern Mahaffey
Analysis by:
KEH/BWG/JBS/KES/KESII/CAS

Sample Preservation and Laboratory Analysis Conducted According to EPA 40 Part 261. Test/Analyst/Time/Coeff./Var./ QA Plan filed with A.D.P.C. & E. Includes 10 % Replication and 10 % Recovery Studies by Random Selection. Calibration Records Maintained.

Copies to:

MR. GLENN CARTER P.O. BOX 1310 SPRINGDALE, AR 72765	MR. RANDY HOLCOMB P.O. BOX 1310 SPRINGDALE, AR 72765	MR. KIRK ELLIS SCS ENGINEERS 10401 HOLMES ROAD, SUITE 400 KANSAS CITY, MO 64131
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ANALYTE	Well 3	Well 4	Max Cont.	Levels
			DW Stds.	TCLP
Antimony	N.D.	N.D.	NA	NA
Arsenic	N.D.	N.D.	0.05	5.0
Barium	0.037	0.103	1.0	100.0
Beryllium	N.D.	N.D.	NA	NA
Cadmium	N.D.	N.D.	0.01	1.0
Chromium	0.001	0.002	0.05	5.0
Cobalt	N.D.	N.D.	NA	NA
Copper	N.D.	N.D.	1.0	100.0
Lead	0.003	0.002	0.025	2.5
Nickel	N.D.	0.007	NA	NA
Selenium	N.D.	N.D.	0.01	1.0
Silver	N.D.	N.D.	0.05	5.0
Thallium	N.D.	N.D.	NA	NA
Vanadium	N.D.	N.D.	NA	NA
Zinc	0.011	0.044	5.0	500.0
Acetone	N.D.	N.D.	NA	NA
Acrylonitrile	N.D.	N.D.	NA	NA
Benzene	N.D.	N.D.	0.005	0.5
Bromochloromethane	N.D.	N.D.	NA	NA
Bromodichloromethane	N.D.	N.D.	NA	NA
Bromoform	N.D.	N.D.	0.1	NA
Carbon disulfide	N.D.	N.D.	NA	NA
Carbon tetrachloride	N.D.	N.D.	0.005	0.5
Chlorobenzene	N.D.	N.D.	NA	100.0
Chloroethane	N.D.	N.D.	NA	NA
Chloroform	N.D.	N.D.	0.1	6
Dibromochloromethane	N.D.	N.D.	0.1	NA
Dibromo-3-chloropropane, 1,2-	N.D.	N.D.	NA	NA
Dibromoethane, 1,2-	N.D.	N.D.	NA	NA
Dichlorobenzene, o-	N.D.	N.D.	NA	NA
Dichlorobenzene, p-	N.D.	N.D.	0.075	NA
Dichloro-2-butene, trans-1,4-	N.D.	N.D.	NA	NA
Dichloroethane, 1,1-	N.D.	N.D.	NA	NA



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ANALYTE	Well 3	Well 4	Max Cont.	Levels
			DW Stds.	TCLP
Dichloroethane, 1,2-	N.D.	N.D.	0.005	0.5
Dichloroethylene, 1,1-	N.D.	N.D.	0.007	0.7
Dichloroethylene, cis-1,2-	N.D.	N.D.	NA	NA
Dichloroethylene, trans,1-,2-	N.D.	N.D.	NA	NA
Dichloropropane, 1,2-	N.D.	N.D.	NA	NA
Dichloropropene, cis-1,3-	N.D.	N.D.	NA	NA
Dichloropropene, trans, 1,3-	N.D.	N.D.	NA	NA
Ethylbenzene	N.D.	N.D.	NA	NA
Hexanone, 2-	N.D.	N.D.	NA	NA
Methyl bromide	N.D.	N.D.	NA	NA
Methyl chloride	N.D.	N.D.	NA	NA
Methylene bromide	N.D.	N.D.	NA	NA
Methylene chloride	N.D.	N.D.	NA	NA
Methyl ethyl ketone	N.D.	N.D.	NA	NA
Methyl Iodide	N.D.	N.D.	NA	NA
Methyl-2-pentanone, 4-	N.D.	N.D.	NA	NA
Styrene	N.D.	N.D.	NA	NA
Tetrachloroethane, 1, 1, 1, 2-	N.D.	N.D.	NA	NA
Tetrachloroethane, 1, 1, 2, 2-	N.D.	N.D.	NA	NA
Tetrachloroethylene	N.D.	N.D.	NA	0.7
Toluene	N.D.	N.D.	NA	NA
Trichloroethane, 1, 1, 1-	N.D.	N.D.	0.2	NA
Trichloroethane, 1, 1, 2-	N.D.	N.D.	NA	NA
Trichloroethylene	N.D.	N.D.	0.005	0.5
Trichlorofluoromethane	N.D.	N.D.	NA	NA
Trichloropropane, 1, 2, 3-	N.D.	N.D.	NA	NA
Vinyl acetate	N.D.	N.D.	NA	NA
Vinyl chloride	N.D.	N.D.	0.02	0.2
Xylene, o-	N.D.	N.D.	NA	NA
Xylene, m-	N.D.	N.D.	NA	NA
Xylene, p-	N.D.	N.D.	NA	NA
Xylenes	N.D.	N.D.	NA	NA



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ANALYTE	Well 3	Well 4	Max Cont.	Levels
			DW Stds.	TCLP
Ammonia nitrogen	0.182	0.138	NA	NA
Bicarbonate	61.0	146.4	NA	NA
Calcium	8.9	91.1	NA	NA
Chloride	7.79	6.59	250	NA
Iron	N.D.	0.13	0.3	NA
Magnesium	8.67	3.21	NA	NA
Manganese	0.001	0.035	0.05	NA
Nitrate	0.06	0.22	10.0	NA
Potassium	13.5	2.33	NA	NA
Sodium	12.05	5.62	NA	NA
Sulfate	9.21	4.22	250	NA
Chemical oxygen demand	4.6	5.1	NA	NA
Total dissolved solids	129.5	276.0	500	NA
Cyanide	N.D.	N.D.	NA	NA
Mercury	N.D.	N.D.	0.002	0.2
pH, units	8.8	6.90	6.5-8.5	<2 OR>1
Specific conductance, us/cm	210.0	380.0	NA	NA
Temperature, .c	15.7	16.8	NA	NA

Collected by:
Vern Mahaffey

Analysis by:
KEH/BWG/JBS/KES/KESII/CAS

Sample Preservation and Laboratory Analysis Conducted According to EPA 40 Part 261. Test/Analyst/Time/Coeff./Var./ QA Plan filed with A.D.P.C. & E. Includes 10 % Replication and 10 % Recovery Studies by Random Selection. Calibration Records Maintained.

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MR. KIRK ELLIS
SCS ENGINEERS
10401 HOLMES ROAD, SUITE 400
KANSAS CITY, MO 64131

Laboratory Number: K662.003 - .004 DKS Reviewed by: K.E. Sorrells, M.S. [9]



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SAMPLE FROM: Well 5 09/02/92 1:35 / Well 6 09/02/92 2:00

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ANALYTE	Well 5	Well 6	Max Cont.	Levels
			DW Stds.	TCLP
Antimony	N.D.	N.D.	NA	NA
Arsenic	N.D.	N.D.	0.05	5.0
Barium	0.063	0.071	1.0	100.0
Beryllium	N.D.	N.D.	NA	NA
Cadmium	N.D.	N.D.	0.01	1.0
Chromium	0.005	0.008	0.05	5.0
Cobalt	N.D.	N.D.	NA	NA
Copper	N.D.	N.D.	1.0	100.0
Lead	0.004	N.D.	0.025	2.5
Nickel	N.D.	0.007	NA	NA
Selenium	N.D.	N.D.	0.01	1.0
Silver	N.D.	N.D.	0.05	5.0
Thallium	N.D.	N.D.	NA	NA
Vanadium	0.035	0.015	NA	NA
Zinc	0.059	0.046	5.0	500.0
Acetone	N.D.	N.D.	NA	NA
Acrylonitrile	N.D.	N.D.	NA	NA
Benzene	N.D.	N.D.	0.005	0.5
Bromochloromethane	N.D.	N.D.	NA	NA
Bromodichloromethane	N.D.	N.D.	NA	NA
Bromoform	N.D.	N.D.	0.1	NA
Carbon disulfide	N.D.	N.D.	NA	NA
Carbon tetrachloride	N.D.	N.D.	0.005	0.5
Chlorobenzene	N.D.	N.D.	NA	100.0
Chloroethane	N.D.	N.D.	NA	NA
Chloroform	N.D.	N.D.	0.1	6
Dibromochloromethane	N.D.	N.D.	0.1	NA
Dibromo-3-chloropropane, 1,2-	N.D.	N.D.	NA	NA
Dibromoethane, 1,2-	N.D.	N.D.	NA	NA
Dichlorobenzene, o-	N.D.	N.D.	NA	NA
Dichlorobenzene, p-	N.D.	N.D.	0.075	NA
Dichloro-2-butene, trans-1,4-	N.D.	N.D.	NA	NA
Dichloroethane, 1,1-	N.D.	N.D.	NA	NA



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ANALYTE	Well 5	Well 6	Max Cont.	Levels
			DW Stds.	TCLP
Dichloroethane, 1,2-	N.D.	N.D.	0.005	0.5
Dichloroethylene, 1,1-	N.D.	N.D.	0.007	0.7
Dichloroethylene, cis-1,2-	N.D.	N.D.	NA	NA
Dichloroethylene, trans,1-,2-	N.D.	N.D.	NA	NA
Dichloropropane, 1,2-	N.D.	N.D.	NA	NA
Dichloropropene, cis-1,3-	N.D.	N.D.	NA	NA
Dichloropropene, trans, 1,3-	N.D.	N.D.	NA	NA
Ethylbenzene	N.D.	N.D.	NA	NA
Hexanone, 2-	N.D.	N.D.	NA	NA
Methyl bromide	N.D.	N.D.	NA	NA
Methyl chloride	N.D.	N.D.	NA	NA
Methylene bromide	N.D.	N.D.	NA	NA
Methylene chloride	N.D.	N.D.	NA	NA
Methyl ethyl ketone	N.D.	N.D.	NA	NA
Methyl Iodide	N.D.	N.D.	NA	NA
Methyl-2-pentanone, 4-	N.D.	N.D.	NA	NA
Styrene	N.D.	N.D.	NA	NA
Tetrachloroethane, 1, 1, 1, 2-	N.D.	N.D.	NA	NA
Tetrachloroethane, 1, 1, 2, 2-	N.D.	N.D.	NA	NA
Tetrachloroethylene	N.D.	N.D.	NA	0.7
Toluene	N.D.	N.D.	NA	NA
Trichloroethane, 1, 1, 1-	N.D.	N.D.	0.2	NA
Trichloroethane, 1, 1, 2-	N.D.	N.D.	NA	NA
Trichloroethylene	N.D.	N.D.	0.005	0.5
Trichlorofluoromethane	0.016	N.D.	NA	NA
Trichloropropane, 1, 2, 3-	N.D.	N.D.	NA	NA
Vinyl acetate	N.D.	N.D.	NA	NA
Vinyl chloride	N.D.	N.D.	0.02	0.2
Xylene, o-	N.D.	N.D.	NA	NA
Xylene, m-	N.D.	N.D.	NA	NA
Xylene, p-	N.D.	N.D.	NA	NA
Xylenes	N.D.	N.D.	NA	NA



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ANALYTE	Well 5	Well 6	Max Cont.	Levels
			DW Stds.	TCLP
Ammonia nitrogen	0.128	0.147	NA	NA
Bicarbonate	183.0	102.5	NA	NA
Calcium	114.0	34.8	NA	NA
Chloride	43.8	17.79	250	NA
Iron	0.087	0.01	0.3	NA
Magnesium	2.17	2.15	NA	NA
Manganese	0.028	0.082	0.05	NA
Nitrate	1.35	2.25	10.0	NA
Potassium	1.11	2.2	NA	NA
Sodium	11.03	6.6	NA	NA
Sulfate	4.99	5.37	250	NA
Chemical oxygen demand	20.1	4.8	NA	NA
Total dissolved solids	435.5	258.5	500	NA
Cyanide	N.D.	N.D.	NA	NA
Mercury	N.D.	N.D.	0.002	0.2
pH, units	6.8	6.5	6.5-8.5	<2 OR>1
Specific conductance, us/cm	560.0	320.0	NA	NA
Temperature, .c	16.7	16.5	NA	NA

Collected by:

Vern Mahaffey

Analysis by:

KEH/BWG/JBS/KES/KESII/CAS

Sample Preservation and Laboratory Analysis Conducted According to EPA 40 Part 261. Test/Analyst/Time/Coeff./Var./ QA Plan filed with A.D.P.C. & E. Includes 10 % Replication and 10 % Recovery Studies by Random Selection. Calibration Records Maintained.

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MR. KIRK ELLIS
SCS ENGINEERS

10401 HOLMES ROAD, SUITE 400
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Laboratory Number: K662.005 - .006 DKS Reviewed by: K.E. Sorrells, M.S. [6]



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LABORATORY AND FIELD SERVICES**



**CHEMISTS
ECOLOGISTS
CONSULTANTS
PLANNERS**

8002 STANTON ROAD
LITTLE ROCK, ARKANSAS 72209

(501) 562-8139

LABORATORY ANALYSIS

Date of Report: September 30, 1992
Date Received: September 03, 1992

FOR: Sunray Services
P. O. Box 1301
105 Old Missouri Road
Springdale, AR 72765

JOB: Landfill Monitoring. 40 CFR Part 258
SAMPLE FROM: Well 7 09/02/92 2:32 / Well 8 09/02/92 3:25

*Please Note - Reported in Milligrams per Liter or Standard units.

ANALYTE	Well 7	Well 8	Max Cont.	Levels
			DW Stds.	TCLP
Antimony	N.D.	N.D.	NA	NA
Arsenic	N.D.	N.D.	0.05	5.0
Barium	0.133	0.132	1.0	100.0
Beryllium	N.D.	N.D.	NA	NA
Cadmium	N.D.	N.D.	0.01	1.0
Chromium	0.005	0.008	0.05	5.0
Cobalt	N.D.	N.D.	NA	NA
Copper	N.D.	N.D.	1.0	100.0
Lead	0.011	0.004	0.025	2.5
Nickel	0.08	0.022	NA	NA
Selenium	N.D.	N.D.	0.01	1.0
Silver	N.D.	N.D.	0.05	5.0
Thallium	N.D.	N.D.	NA	NA
Vanadium	0.013	0.009	NA	NA
Zinc	0.125	0.008	5.0	500.0
Acetone	N.D.	N.D.	NA	NA
Acrylonitrile	N.D.	N.D.	NA	NA
Benzene	0.007	N.D.	0.005	0.5
Bromochloromethane	N.D.	N.D.	NA	NA
Bromodichloromethane	N.D.	N.D.	NA	NA
Bromoform	N.D.	N.D.	0.1	NA
Carbon disulfide	N.D.	N.D.	NA	NA
Carbon tetrachloride	N.D.	N.D.	0.005	0.5
Chlorobenzene	N.D.	N.D.	NA	100.0
Chloroethane	N.D.	N.D.	NA	NA
Chloroform	N.D.	N.D.	0.1	6
Dibromochloromethane	N.D.	N.D.	0.1	NA
Dibromo-3-chloropropane, 1,2-	N.D.	N.D.	NA	NA
Dibromoethane, 1,2-	N.D.	N.D.	NA	NA
Dichlorobenzene, o-	N.D.	N.D.	NA	NA
Dichlorobenzene, p-	N.D.	N.D.	0.075	NA
Dichloro-2-butene, trans-1,4-	N.D.	N.D.	NA	NA
Dichloroethane, 1,1-	0.006	N.D.	NA	NA



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8002 STANTON ROAD
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LABORATORY ANALYSIS

Date of Report: September 30, 1992
Date Received: September 03, 1992

For: Sunray Services
P. O. Box 1301
105 Old Missouri Road
Springdale, AR 72765

JOB: Landfill Monitoring. 40 CFR Part 258

SAMPLE FROM: Well 7 09/02/92 2:32 / Well 8 09/02/92 3:25

*Please Note - Reported in Milligrams per Liter or Standard units.

ANALYTE	Well 7	Well 8	Max Cont.	Levels
			DW Stds.	TCLP
Dichloroethane, 1,2-	N.D.	N.D.	0.005	0.5
Dichloroethylene, 1,1-	N.D.	N.D.	0.007	0.7
Dichloroethylene, cis-1,2-	N.D.	N.D.	NA	NA
Dichloroethylene, trans,1-,2-	N.D.	N.D.	NA	NA
Dichloropropane, 1,2-	N.D.	N.D.	NA	NA
Dichloropropene, cis-1,3-	N.D.	N.D.	NA	NA
Dichloropropene, trans, 1,3-	N.D.	N.D.	NA	NA
Ethylbenzene	N.D.	N.D.	NA	NA
Hexanone, 2-	N.D.	N.D.	NA	NA
Methyl bromide	N.D.	N.D.	NA	NA
Methyl chloride	N.D.	N.D.	NA	NA
Methylene bromide	N.D.	N.D.	NA	NA
Methylene chloride	N.D.	N.D.	NA	NA
Methyl ethyl ketone	N.D.	N.D.	NA	NA
Methyl Iodide	N.D.	N.D.	NA	NA
Methyl-2-pentanone, 4-	N.D.	N.D.	NA	NA
Styrene	N.D.	N.D.	NA	NA
Tetrachloroethane, 1, 1, 1, 2-	N.D.	N.D.	NA	NA
Tetrachloroethane, 1, 1, 2, 2-	N.D.	N.D.	NA	NA
Tetrachloroethylene	0.01	N.D.	NA	0.7
Toluene	0.009	N.D.	NA	NA
Trichloroethane, 1, 1, 1-	N.D.	N.D.	0.2	NA
Trichloroethane, 1, 1, 2-	N.D.	N.D.	NA	NA
Trichloroethylene	0.01	N.D.	0.005	0.5
Trichlorofluoromethane	N.D.	N.D.	NA	NA
Trichloropropane, 1, 2, 3-	N.D.	N.D.	NA	NA
Vinyl acetate	N.D.	N.D.	NA	NA
Vinyl chloride	N.D.	N.D.	0.02	0.2
Xylene, o-	N.D.	N.D.	NA	NA
Xylene, m-	N.D.	N.D.	NA	NA
Xylene, p-	N.D.	N.D.	NA	NA
Xylenes	0.005	N.D.	NA	NA



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8002 STANTON ROAD
LITTLE ROCK, ARKANSAS 72209

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LABORATORY ANALYSIS

Date of Report: September 30, 1992
Date Received: September 03, 1992

FOR: Sunray Services
P. O. Box 1301
105 Old Missouri Road
Springdale, AR 72765

JOB: Landfill Monitoring. 40 CFR Part 258

SAMPLE FROM: Well 7 09/02/92 2:32 / Well 8 09/02/92 3:25

*Please Note - Reported in Milligrams per Liter or Standard units.

ANALYTE	Well 7	Well 8	Max Cont.	Levels
			DW Stds.	TCLP
Ammonia nitrogen	0.175	0.181	NA	NA
Bicarbonate	302.6	95.2	NA	NA
Calcium	64.1	70.0	NA	NA
Chloride	10.8	7.79	250	NA
Iron	0.043	0.044	0.3	NA
Magnesium	1.99	0.854	NA	NA
Manganese	4.87	N.D.	0.05	NA
Nitrate	0.23	0.84	10.0	NA
Potassium	1.77	1.82	NA	NA
Sodium	5.45	3.29	NA	NA
Sulfate	3.45	8.83	250	NA
Chemical oxygen demand	5.1	5.05	NA	NA
Total dissolved solids	572.5	200.5	500	NA
Cyanide	N.D.	N.D.	NA	NA
Mercury	N.D.	N.D.	0.002	0.2
pH, units	6.6	7.3	6.5-8.5	<2 OR>1
Specific conductance, us/cm	750.0	260.0	NA	NA
Temperature, .c	17.3	16.9	NA	NA

Collected by:

Vern Mahaffey

Analysis by:

KEH/BWG/JBS/KES/KESII/CAS

Sample Preservation and Laboratory Analysis Conducted According to EPA 40 Part 261. Test/Analyst/Time/Coeff./Var./ QA Plan filed with A.D.P.C. & E. Includes 10 % Replication and 10 % Recovery Studies by Random Selection. Calibration Records Maintained.

Copies to:

MR. GLENN CARTER
P.O. BOX 1310
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MR. RANDY HOLCOMB
P.O. BOX 1310
SPRINGDALE, AR 72765

MR. KIRK ELLIS
SCS ENGINEERS
10401 HOLMES ROAD, SUITE 400
KANSAS CITY, MO 64131

Laboratory Number: K662.007 - .008 DKS Reviewed by: K.E. Sorrells, M.S. [9]



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8002 STANTON ROAD
LITTLE ROCK, ARKANSAS 72209

(501) 562-8139

LABORATORY ANALYSIS

Date of Report: September 30, 1992
Date Received: September 03, 1992

FOR: Sunray Services
P. O. Box 1301
105 Old Missouri Road
Springdale, AR 72765

JOB: Landfill Monitoring. 40 CFR Part 258
SAMPLE FROM: Well 9 09/02/92 3:50 / Duplicate 09/02/92

*Please Note - Reported in Milligrams per Liter or Standard units.

ANALYTE	Well 9	Duplicate	Max Cont.	Levels
			DW Stds.	TCLP
Antimony	N.D.	N.D.	NA	NA
Arsenic	N.D.	N.D.	0.05	5.0
Barium	0.057	0.022	1.0	100.0
Beryllium	N.D.	N.D.	NA	NA
Cadmium	N.D.	N.D.	0.01	1.0
Chromium	0.004	N.D.	0.05	5.0
Cobalt	N.D.	N.D.	NA	NA
Copper	N.D.	N.D.	1.0	100.0
Lead	0.003	0.003	0.025	2.5
Nickel	0.036	N.D.	NA	NA
Selenium	N.D.	N.D.	0.01	1.0
Silver	N.D.	N.D.	0.05	5.0
Thallium	N.D.	N.D.	NA	NA
Vanadium	0.005	0.007	NA	NA
Zinc	0.039	0.018	5.0	500.0
Acetone	N.D.	N.D.	NA	NA
Acrylonitrile	N.D.	N.D.	NA	NA
Benzene	N.D.	N.D.	0.005	0.5
Bromochloromethane	N.D.	N.D.	NA	NA
Bromodichloromethane	N.D.	N.D.	NA	NA
Bromoform	N.D.	N.D.	0.1	NA
Carbon disulfide	N.D.	N.D.	NA	NA
Carbon tetrachloride	N.D.	N.D.	0.005	0.5
Chlorobenzene	N.D.	N.D.	NA	100.0
Chloroethane	N.D.	N.D.	NA	NA
Chloroform	N.D.	N.D.	0.1	6
Dibromochloromethane	N.D.	N.D.	0.1	NA
Dibromo-3-chloropropane, 1,2-	N.D.	N.D.	NA	NA
Dibromoethane, 1,2-	N.D.	N.D.	NA	NA
Dichlorobenzene, o-	N.D.	N.D.	NA	NA
Dichlorobenzene, p-	N.D.	N.D.	0.075	NA
Dichloro-2-butene, trans-1,4-	N.D.	N.D.	NA	NA
Dichloroethane, 1,1-	N.D.	N.D.	NA	NA



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LABORATORY ANALYSIS

Date of Report: September 30, 1992
Date Received: September 03, 1992

For: Sunray Services
P. O. Box 1301
105 Old Missouri Road
Springdale, AR 72765

JOB: Landfill Monitoring. 40 CFR Part 258
SAMPLE FROM: Well 9 09/02/92 3:50 / Duplicate 09/02/92

*Please Note - Reported in Milligrams per Liter or Standard units.

ANALYTE	Well 9	Duplicate	Max Cont.	Levels
			DW Stds.	TCLP
Dichloroethane, 1,2-	N.D.	N.D.	0.005	0.5
Dichloroethylene, 1,1-	N.D.	N.D.	0.007	0.7
Dichloroethylene, cis-1,2-	N.D.	N.D.	NA	NA
Dichloroethylene, trans,1-,2-	N.D.	N.D.	NA	NA
Dichloropropane, 1,2-	N.D.	N.D.	NA	NA
Dichloropropene, cis-1,3-	N.D.	N.D.	NA	NA
Dichloropropene, trans, 1,3-	N.D.	N.D.	NA	NA
Ethylbenzene	N.D.	N.D.	NA	NA
Hexanone, 2-	N.D.	N.D.	NA	NA
Methyl bromide	N.D.	N.D.	NA	NA
Methyl chloride	N.D.	N.D.	NA	NA
Methylene bromide	N.D.	N.D.	NA	NA
Methylene chloride	N.D.	N.D.	NA	NA
Methyl ethyl ketone	N.D.	N.D.	NA	NA
Methyl Iodide	N.D.	N.D.	NA	NA
Methyl-2-pentanone, 4-	N.D.	N.D.	NA	NA
Styrene	N.D.	N.D.	NA	NA
Tetrachloroethane, 1, 1, 1, 2-	N.D.	N.D.	NA	NA
Tetrachloroethane, 1, 1, 2, 2-	N.D.	N.D.	NA	NA
Tetrachloroethylene	N.D.	N.D.	NA	0.7
Toluene	N.D.	N.D.	NA	NA
Trichloroethane, 1, 1, 1-	N.D.	N.D.	0.2	NA
Trichloroethane, 1, 1, 2-	N.D.	N.D.	NA	NA
Trichloroethylene	N.D.	N.D.	0.005	0.5
Trichlorofluoromethane	N.D.	N.D.	NA	NA
Trichloropropane, 1, 2, 3-	N.D.	N.D.	NA	NA
Vinyl acetate	N.D.	N.D.	NA	NA
Vinyl chloride	N.D.	N.D.	0.02	0.2
Xylene, o-	N.D.	N.D.	NA	NA
Xylene, m-	N.D.	N.D.	NA	NA
Xylene, p-	N.D.	N.D.	NA	NA
Xylenes	N.D.	N.D.	NA	NA



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8002 STANTON ROAD
LITTLE ROCK, ARKANSAS 72209

(501) 562-8139

LABORATORY ANALYSIS

Date of Report: September 30, 1992
Date Received: September 03, 1992

FOR: Sunray Services
P. O. Box 1301
105 Old Missouri Road
Springdale, AR 72765

JOB: Landfill Monitoring. 40 CFR Part 258
SAMPLE FROM: Well 9 09/02/92 3:50 / Duplicate 09/02/92

*Please Note - Reported in Milligrams per Liter or Standard units.

ANALYTE	Well 9	Duplicate	Max Cont.	Levels
			DW Stds.	TCLP
Ammonia nitrogen	0.142	0.157	NA	NA
Bicarbonate	231.8	90.3	NA	NA
Calcium	113.0	29.9	NA	NA
Chloride	10.79	15.19	250	NA
Iron	0.144	N.D.	0.3	NA
Magnesium	2.08	0.798	NA	NA
Manganese	2.95	0.009	0.05	NA
Nitrate	0.89	0.58	10.0	NA
Potassium	0.079	0.78	NA	NA
Sodium	5.19	5.2	NA	NA
Sulfate	3.07	3.64	250	NA
Chemical oxygen demand	4.1	4.75	NA	NA
Total dissolved solids	444.0	146.0	500	NA
Cyanide	N.D.	N.D.	NA	NA
Mercury	N.D.	N.D.	0.002	0.2
pH, units	6.6	7.1	6.5-8.5	<2 OR>1
Specific conductance, us/cm	530.0	170.0	NA	NA
Temperature, .c	18.0	16.1	NA	NA

Collected by:
Vern Mahaffey
Analysis by:
KEH/BWG/JBS/KES/KESII/CAS

Sample Preservation and Laboratory Analysis Conducted According to EPA 40 Part 261. Test/Analyst/Time/Coeff./Var./ QA Plan filed with A.D.P.C. & E. Includes 10 % Replication and 10 % Recovery Studies by Random Selection. Calibration Records Maintained.

Copies to:

MR. GLENN CARTER	MR. RANDY HOLCOMB	MR. KIRK ELLIS
P.O. BOX 1310	P.O. BOX 1310	SCS ENGINEERS
SPRINGDALE, AR 72765	SPRINGDALE, AR 72765	10401 HOLMES ROAD, SUITE 400
		KANSAS CITY, MO 64131

Laboratory Number: K662.009 - .010 DKS Reviewed by: K.E. Sorrells, M.S. [Signature]



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8002 STANTON ROAD
LITTLE ROCK, ARKANSAS 72209

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LABORATORY ANALYSIS

Date of Report: September 30, 1992
Date Received : September 3, 1992

For: SUNRAY SERVICES
P.O. BOX 1310
105 OLD MISSOURI ROAD
SPRINGDALE, AR 72765-

Job: LANDFILL MONITORING.

Sample From: SITE 3 LEACHATE TANK

ANALYTE	RESULT	UNITS	METHOD
Volume produced	5276.000	Gallons	Meas.
Chloride	2929.092	mg/Liter	407B
Total dissolved solids	3541.000	mg/Liter	2540 C
Chemical oxygen demand	1922.000	mg/Liter	508A
Biochemical oxygen demand	1038.800	mg/Liter	507
pH	7.400	units	423
Cadmium	< 0.100	mg/Liter	7131
Chromium	0.054	mg/Liter	7191
Copper	0.014	mg/Liter	7211
Lead	0.065	mg/Liter	7421
Nickel	0.099	mg/Liter	7521
Zinc	0.969	mg/Liter	7950



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LITTLE ROCK, ARKANSAS 72209
LABORATORY ANALYSIS

(501) 562-8139

Date of Report: September 30, 1992
Date Received : September 3, 1992

For: SUNRAY SERVICES
P.O. BOX 1310
105 OLD MISSOURI ROAD
SPRINGDALE, AR 72765-

Job: LANDFILL MONITORING.

Sample From: SITE 3 LEACHATE TANK

ANALYTE	RESULT UNITS	METHOD

Collected by:
VERN E. MAHAFFEY on 09/02/92 at 16:35
Analysis by :
K. Sorrells/J. Sorrells/C. Sorrells/K. Sorrells/K. Sorrells/K. Hall/B. Glover

Sample preservation and Laboratory Analysis conducted according to EPA 40 CFR Part 261. Test/Analyst/Time/Coeff./Var./ QA plan filed with A.D.P.C. & E. Includes 10 % replication and 10 % recovery studies by random selection. Calibration records maintained. See Attached.

Copies to:	
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MR. KIRK ELLIS	
SCS ENGINEERS	
10401 HOLMES ROAD, SUITE 400	
KANSAS CITY, MO 64131-	

Laboratory Number: K663.001A DKS Reviewed By: K. E. Sorrells, M.S. [] _____



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LITTLE ROCK, ARKANSAS 72209

(501) 562-8139

LABORATORY ANALYSIS

Date of Report: September 30, 1992
Date Received : September 3, 1992

For: SUNRAY SERVICES
P.O. BOX 1310
105 OLD MISSOURI ROAD
SPRINGDALE, AR 72765-

Job: LANDFILL MONITORING.

Sample From: SITE 4 LEACHATE TANK

ANALYTE	RESULT	UNITS	METHOD
Volume produced	7015.000	Gallons	Meas.
Chloride	1339.585	mg/Liter	407B
Total dissolved solids	460.000	mg/Liter	2540 C
Chemical oxygen demand	136.000	mg/Liter	508A
Biochemical oxygen demand	9.100	mg/Liter	507
pH	6.500	units	423
Cadmium	< 0.100	mg/Liter	7131
Chromium	0.007	mg/Liter	7191
Copper	0.003	mg/Liter	7211
Lead	0.036	mg/Liter	7421
Nickel	0.006	mg/Liter	7521
Zinc	0.032	mg/Liter	7950



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LABORATORY ANALYSIS

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Date of Report: September 30, 1992
Date Received : September 3, 1992

For: SUNRAY SERVICES
P.O. BOX 1310
105 OLD MISSOURI ROAD
SPRINGDALE, AR 72765-

Job: LANDFILL MONITORING.

Sample From: SITE 4 LEACHATE TANK

ANALYTE	RESULT UNITS	METHOD
---------	--------------	--------

Collected by:
VERN E. MAHAFFEY on 09/02/92 at 16:53
Analysis by :
K. E. Sorrells, M. S./K. E. Sorrells II/Ben W. Glover

Sample preservation and Laboratory Analysis conducted according to EPA 40 CFR Part 261. Test/Analyst/Time/Coeff./Var./ QA plan filed with A.D.P.C. & E. Includes 10 % replication and 10 % recovery studies by random selection. Calibration records maintained. See Attached.

Copies to: MR. GLENN CARTER	MR. RANDY HOLCOMB
P.O. BOX 1310	P.O. BOX 1310
SPRINGDALE, AR 72765-	SPRINGDALE, AR 72765-
MR. KIRK ELLIS SCS ENGINEERS	
10401 HOLMES ROAD, SUITE 400 KANSAS CITY, MO 64131-	

Laboratory Number: K663.002A DKS Reviewed By: K. E. Sorrells, M.S. []



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LITTLE ROCK, ARKANSAS 72209

(501) 562-8139

LABORATORY ANALYSIS

Date of Report: September 30, 1992

Date Received : September 3, 1992

For: SUNRAY SERVICES
P.O. BOX 1310
105 OLD MISSOURI ROAD
SPRINGDALE, AR 72765-

Job: LANDFILL MONITORING.

Sample From: LEACHATE PROBE P-2

ANALYTE	RESULT	UNITS	METHOD
Chloride	2419.250	mg/Liter	4500 C
Total dissolved solids	4846.000	mg/Liter	2540 C
Chemical oxygen demand	1980.000	mg/Liter	5220 B
Biochemical oxygen demand	198.400	mg/Liter	5210 B
pH	7.300	units	4500 B
Zinc	0.355	mg/Liter	7950
Copper	0.013	mg/Liter	7211
Nickel	0.965	mg/Liter	7521
Lead	0.727	mg/Liter	7421
Chromium	0.029	mg/Liter	7191
Cadmium	0.265	mg/Liter	7131



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LABORATORY ANALYSIS

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Date of Report: September 30, 1992
Date Received : September 3, 1992

For: SUNRAY SERVICES
P.O. BOX 1310
105 OLD MISSOURI ROAD
SPRINGDALE, AR 72765-
Job: LANDFILL MONITORING.
Sample From: LEACHATE PROBE P-2

ANALYTE	RESULT UNITS	METHOD
---------	--------------	--------

Collected by:
VERN MAHAFFEY on 09/02/92 at 17:13
Analysis by :
James B. Sorrells/K. E. Sorrells II/Kevin E. Hall

Sample preservation and Laboratory Analysis conducted according to EPA 40 CFR Part 261. Test/Analyst/Time/Coeff./Var./ QA plan filed with A.D.P.C. & E. Includes 10 % replication and 10 % recovery studies by random selection. Calibration records maintained. See Attached.

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SPRINGDALE, AR 72765-	SPRINGDALE, AR 72765-
MR. KIRK ELLIS	
SCS ENGINEERS	
10401 HOLMES ROAD, SUITE 400	
KANSAS CITY, MO 64131-	

Laboratory Number: K664.001A DKS Reviewed By: K. E. Sorrells, M.S. [✓]



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8002 STANTON ROAD
LITTLE ROCK, ARKANSAS 72209
LABORATORY ANALYSIS

(501) 562-8139

Date of Report: September 30, 1992
Date Received : September 3, 1992

For: SUNRAY SERVICES
P.O. BOX 1310
105 OLD MISSOURI ROAD
SPRINGDALE, AR 72765-

Job: LANDFILL MONITORING.

Sample From: PIEZO METER P-3

ANALYTE	RESULT	UNITS	METHOD
Chloride	1994.382	mg/Liter	4500 C
Total dissolved solids	5305.000	mg/Liter	2540 C
Chemical oxygen demand	1800.000	mg/Liter	5220 B
Biochemical oxygen demand	196.400	mg/Liter	5210 B
pH	7.200	units	4500 B
Zinc	0.264	mg/Liter	7950
Copper	0.053	mg/Liter	7211
Nickel	0.582	mg/Liter	7521
Lead	1.364	mg/Liter	7421
Chromium	0.042	mg/Liter	7191
Cadmium	0.330	mg/Liter	7131



**SORRELLS RESEARCH
LABORATORY AND FIELD SERVICES**



**CHEMISTS
ECOLOGISTS
CONSULTANTS
PLANNERS**

8002 STANTON ROAD
LITTLE ROCK, ARKANSAS 72209
LABORATORY ANALYSIS

(501) 562-8139

Date of Report: September 30, 1992
Date Received : September 3, 1992

For: SUNRAY SERVICES
P.O. BOX 1310
105 OLD MISSOURI ROAD
SPRINGDALE, AR 72765-
Job: LANDFILL MONITORING.
Sample From: PIEZO METER P-3

ANALYTE	RESULT UNITS	METHOD
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Collected by:
VERN MAHAFFEY on 09/02/92 at 17:38
Analysis by :
James B. Sorrells/K. E. Sorrells II/Kevin E. Hall

Sample preservation and Laboratory Analysis conducted according to EPA 40 CFR Part 261. Test/Analyst/Time/Coeff./Var./ QA plan filed with A.D.P.C.& E. Includes 10 % replication and 10 % recovery studies by random selection. Calibration records maintained. See Attached.

Copies to: MR. GLENN CARTER	MR. RANDY HOLCOMB
P.O. BOX 1310	P.O. BOX 1310
SPRINGDALE, AR 72765-	SPRINGDALE, AR 72765-
MR. KIRK ELLIS SCS ENGINEERS	
10401 HOLMES ROAD, SUITE 400 KANSAS CITY, MO 64131-	

Laboratory Number: K664.002A DKS Reviewed By: K. E. Sorrells, M.S. [✓] _____



SORRELLS RESEARCH LABORATORY AND FIELD SERVICES



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8002 STANTON ROAD
LITTLE ROCK, ARKANSAS 72209

(501) 562-8139

QUALITY ASSURANCE

September 2, 1992

The following QA represents SRA's Quality Assurance values for this report.
Any analysis performed but not needed by your facility should be disregarded.

ANALYTE	ANALYST	BEG. DATE	BEG. TIME	FIN. DATE	FIN. TIME	S.D. %	SPK. # REC.	# IN BAT.
ANTIMONY	KESII	09/18/92	1847	09/18/92	1936	0.00	0.0	10
ARSENIC	KESII	09/12/92	1542	09/12/92	1724	1.00	103.0	12
BARIUM	KESII	09/14/92	1211	09/14/92	1330	0.20	0.0	12
BERYLLIUM	KESII	09/15/92	1242	09/15/92	1421	0.00	110.7	15
CADMIUM	KESII	09/10/92	2022	09/10/92	2111	0.40	92.5	10
CHROMIUM	KESII	09/10/92	1251	09/10/92	1551	10.60	91.3	15
COBALT	KESII	09/16/92	1109	09/16/92	1158	0.00	106.5	10
COPPER	KESII	09/12/92	1414	09/12/92	1511	0.00	111.5	11
LEAD	KESII	09/10/92	1305	09/10/92	1413	0.70	107.0	10
NICKEL	KESII	09/12/92	1726	09/12/92	1815	5.20	101.3	10
SELENIUM	KESII	09/12/92	1542	09/12/92	1829	0.00	104.0	23
SILVER	KESII	09/12/92	2018	09/12/92	2121	0.00	0.0	11
THALLIUM	KESII	09/16/92	1420	09/16/92	1507	0.00	99.1	10
VANADIUM	KESII	09/25/92	1515	09/25/92	1645	0.00	109.0	12
ZINC	KESII	09/23/92	1012	09/23/92	1029	5.00	0.0	14
AMMONIA NITROGEN	KEH	09/06/92	1306	09/11/92	1600	1.37	93.0	11
CALCIUM	KESII	09/24/92	1506	09/24/92	1525	0.70	0.0	14
CHLORIDE	KEH	09/11/92	950	09/11/92	1120	94.70	0.0	23
IRON	KESII	09/22/92	1607	09/22/92	1625	10.20	0.0	13
MAGNESIUM	KESII	09/24/92	1717	09/24/92	1729	0.10	0.0	14
MANGANESE	KESII	09/22/92	1607	09/22/92	1625	1.60	0.0	13
NITRATE	CAS	09/11/92	1030	09/14/92	1030	6.90	59.0	18
POTASSIUM	KESII	09/24/92	1116	09/24/92	1130	3.80	0.0	11
SODIUM	KESII	09/23/92	1533	09/23/92	1542	2.10	0.0	5
SULFATE	KEH	09/11/92	1530	09/12/92	800	3.66	99.0	17
CHEMICAL OXYGEN DEMAND	KEH	09/11/92	800	09/12/92	914	1.04	95.0	13
TOTAL DISSOLVED SOLIDS	JBS	09/07/92	500	09/08/92	930	0.34	0.0	12
CYANIDE	BWG	09/18/92	1330	09/28/92	1505	0.00	108.2	14
MERCURY	KESII	09/17/92	1445	09/17/92	1820	2.20	112.0	32
VOLATILES (Q.A.)	KES	09/03/92	1600	09/04/92	1150	0.91	99.6	27
SEMI-VOLATILES (Q.A.)	KES	09/09/92	1652	09/10/92	15	1.78	89.6	6

Field PH/TEMP/D.O. Sampler or Courier/ at time of sampling or pick up
Sample preservation and laboratory analysis conducted according to EPA
40 CFR Part 258 TEST/ANALYST/TIME/COEF. VAR.* QA PLAN filed with



JBS = James B. Sorrells
CAS = Cecil A. Sorrells
KAS = Carl Sorrells



SORRELLS RESEARCH

KEH = Kevin E. Hall
BWG = Ben W. Glover
WPCF = Chandice Sorrells



LABORATORY AND FIELD SERVICES

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QUALITY ASSURANCE

September 3, 1992

The following QA represents SRA's Quality Assurance values for this report.
Any analysis performed but not needed by your facility should be disregarded.

ANALYTE	ANALYST	BEG. DATE	BEG. TIME	FIN. DATE	FIN. TIME	S.D. %	SPK. # REC.	IN BAT.
CHLORIDE	KEH	09/11/92	950	09/11/92	1120	94.70	0.0	23
TOTAL DISSOLVED SOLIDS	JBS	09/11/92	700	09/13/92	730	3.10	0.0	7
CHEMICAL OXYGEN DEMAND	KEH	09/16/92	1030	09/16/92	1430	1.04	95.0	5
BIOCHEMICAL OXYGEN DEMAND	KEH	09/10/92	720	09/15/92	930	4.51	0.0	17
CADMIUM	KESII	09/10/92	2115	09/10/92	2206	0.00	92.5	9
CHROMIUM	KESII	09/10/92	1613	09/10/92	1714	2.00	91.3	9
COPPER	KESII	09/12/92	1539	09/12/92	1622	3.00	111.5	5
LEAD	KESII	09/10/92	1417	09/10/92	1435	10.10	107.0	4
NICKEL	KESII	09/12/92	1819	09/12/92	1841	5.30	101.3	6
ZINC	KESII	09/23/92	1012	09/23/92	1029	5.00	0.0	14

Field PH/TEMP/D.O. Sampler or Courier/ at time of sampling or pick up
Sample preservation and laboratory analysis conducted according to EPA
40 CFR Part 261 TEST/ANALYST/TIME/COEF. VAR.* QA PLAN filed with
ADPC*E. Include replication.

KES = K. E. Sorrells
JBS = James B. Sorrells
CAS = Cecil A. Sorrells
KES = Karl E. Sorrells

KESII = K. E. Sorrells
KEH = Kevin E. Hall
BWG = Ben W. Glover
CKS = Chandra K. Sorrells

CHAIN OF CUSTODY RECORD

LAB# (K662-001-010 wells) (K664-001-006 Leachate Probe)
 (K663-001-002 Leachate) ^{A+B A+B} 37027

NAME OF COMPANY, CITY, OR PROJECT		SAMPLER'S (signature)				
Sun Ray Ton: Town		Dean E Maloffo				
SAMPLE COLLECTION LOCATION	DATE	TIME	COMP	GRAB	NO. OF CONTAINERS	ANALYSIS REQUIRED
MW-1	9/2/92	9:45		✓	7	
MW-2	9/2/92	9:40		"	"	
Duplicate	9/2/92	10:25		"	"	
MW-3	"	10:25		"	"	
MW-4	"	11:45		"	"	
MW-5	"	1:35P 2:00		"	"	
MW-6	"	2:00		"	"	
MW-7	"	2:32		"	"	
MW-8	"	3:25		"	"	
MW-9	"	3:50		"	"	

RELINQUISHED BY: (signature) RECEIVED BY: (signature) DATE/TIME
 Travis W. Kuster 9/2/92 5:33pm Dean E Maloffo 9-2-92 6:00 PM
 DISPATCHED BY: (signature) RECEIVED FOR LABORATORY BY: DATE/TIME
 Ben Glover 9-3-92 4:20pm

Method of Shipments (CIRCLE ONE) UPS BUS MAIL-IN FAA COURIER OTHER COURIER

NOTES: STANDARD METHODS PRESERVATION per EPA 40 CFR part 136
 PH - See Field Book
 Temp -
 Flow -
 Cl₂ -
 D.O. -
 SHOW PRESERVATION; e.g.: C 4 = cool to 4.C.
 S12 = Sulfuric Acid to pH < 2.
 N12 = Nitric Acid to pH < 2.
 (T) = Thiosulfate for dechlorination
 SHOW EACH TYPE CONTAINER ON SEPARATE LINE.

SORRELLS RESEARCH ASSOCIATES, INC.
 (503) 562-8139

SEP 10 1992

CHAIN OF CUSTODY RECORD

LAB# _____

NAME OF COMPANY, CITY, OR PROJECT:

Junkies Town

SAMPLER (signature)

Dean Maffey

SAMPLE COLLECTION LOCATION	DATE	TIME	COMP	GRAB	NO. OF CONTAINERS	ANALYSIS REQUIRED
Wash	9/1/92	6:13 PM		X	7	
Ravine	"	"		"	"	
DIST H ₂ O	"	"		"	"	
Site 3 Leachate Tank	9/2/92	4:35		X	5	
Site 4 Leachate Tank	9/2/92	4:53		X	5	
Leachate Probe P-2	9/2/92	5:13		X	5	
Leachate Probe P-3	9/2/92	5:38		X	5	
TRYP 1 H ₂ O					4	

RELINQUISHED BY: (signature)

James W. Zifer

9/2/92 5:53pm

RECEIVED BY: (signature)

Dean E. Maffey

DATE/TIME

6:00 PM

9-2-92

DISPATCHED BY: (signature)

RECEIVED FOR LABORATORY BY:

DATE/TIME

Method of Shipments (CIRCLE ONE)

UPS

D&G

MAIL-IN

SEA COURIER

OTHER COURIER

NOTES:

STANDARD METHODS PRESERVATION per EPA 40 CFR part 136

SHOW PRESERVATION; e.g. C 4 = cool to 4°C.

S62 = Sulfuric Acid to pH < 2.

N62 = Nitric Acid to pH < 2.

(I) = Thiosulfate for dechlorination

SHOW EACH TYPE CONTAINER ON SEPARATE LINE.

P.H. -

Temp -

Flow -

CL₂ -

D.O. -

See Field Book

SORRELLS RESEARCH ASSOCIATES, INC.
(501) 562-8139

Well	Time	2-9 3990ft	3-9 3990ft	pH	Cond.
MW-1	9:07A	75.75'	75.83'	6.5	500
MW-2	9:40A	36.58'	36.58'	7.1	150
MW-3	10:25A	36.91'	81.04'	8.8	210
MW-4	11:45A	34.52'	65.83'	6.9	380
MW-5	1:35P	71.25'	71.19'	6.8	500
MW-6	2:00P	27.93'	28.0'	6.5	320
MW-7	2:32P	84.37'	85.75'	6.6	750
MW-8	3:25P	24.71'	34.90'	7.3	260
MW-9	3:50P	72.33'	72.42'	6.6	530
Duplicate		GC	GC	7.1	170
Wash	6:13PM			7.7	160
Rinse	6:13 "			7.6	110
Dish	6:13 "			7.4	0.8
Type I	4:15p				
Site 3 Tank	4:35p			7.4	NA
Site 4 Tank	4:53p			6.5	1110
Probe p-2	5:13p			7.3	NA
Probe p-3	5:38p			7.2	NA

Temp

14.9	All 5 To were prepared with Plastic Shooting, all probes were used tubes were p-1, p-2, p-3 with Dist Hard Pack used
16.1	Dist Hard Pack used
15.7	Dist Hard Pack used
16.8	Dist Hard Pack used
16.7	Dist Hard Pack used
16.5	Dist Hard Pack used
17.3	Dist Hard Pack used
16.9	Dist Hard Pack used
18.0	Dist Hard Pack used
16.1	Dist Hard Pack used
25.4	Dist Hard Pack used
23.7	Dist Hard Pack used

9-2-92

108 Samples

9-2-92

The weather starting to rain, cooling down about 3:30 PM and turned warm

Very hot field today

Type I Under pressure 7/1/92 500 ft. above ground