

APPENDIX A

Inorganic Chemistry, Organic Chemistry, and Environmental Microbiology Analysis

Kansas Department of Health and Environment

<u>Sample Number</u>	<u>Date Sampled</u>
CS-A	4/2/99
CS-A	8/17/99
CS-D	4/2/99
CS-D	8/17/99
CS-F	6/23/99
CS-F	8/17/99



DIVISION OF HEALTH & ENVIRONMENTAL LABORATORIES
Kansas Department of Health and Environment
Forbes Field, Bldg. 740, Topeka, Kansas 66620-0001



CS-A
4/2/99

REPORT OF ANALYSIS

INORGANIC CHEMISTRY

I 1000 1000 1000 1000 1000 1000 1000

Report To: Bryan Bain-BEFS ✓

Lab Number: 901152PT

CS-A

Site ID:
Account Code: PE

Collection Location: TPNP #2 Tallgrass Prairie Nat'l Preserve Spring
 Collector: Bryan Bain Matrix: Water Collect Depth:
 Date/Time Collected: 04/02/99 13:50 Date/Time Received: 04/02/99 16:42

Sample Comments: Field pH=6.9 Field Temp.=17c

Parameter	Analytical Result	Units	Analysis Date	Analytical Method
Alkalinity as CaCO3	273.54	mg/L	04/05/99	EPA 310.2
Aluminum	61.8	ug/L	04/12/99	EPA 200.8
Ammonia (N)	< 0.02	mg/L	04/14/99	EPA 350.1
Antimony	< 1.0	ug/L	04/12/99	EPA 200.8
Arsenic	< 1.0	ug/L	04/12/99	EPA 200.8
Barium	84.4	ug/L	04/12/99	EPA 200.8
Beryllium	< 1.0	ug/L	04/12/99	EPA 200.8
Biochemical Oxygen Demand	< 1.0	mg/L	04/07/99	SM 5210B
Boron	0.092	mg/L	04/09/99	EPA 200.7
Bromide	< 0.02	mg/L	04/06/99	EPA 300.0
Cadmium	< 1.0	ug/L	04/12/99	EPA 200.8
Calcium	93.83	mg/L	04/09/99	EPA 200.7
Chloride	3.08	mg/L	04/06/99	EPA 300.0
Chromium	< 1.0	ug/L	04/12/99	EPA 200.8
Cobalt	< 0.010	mg/L	04/09/99	EPA 200.7
Copper	26.1	ug/L	04/12/99	EPA 200.8
Dissolved Oxygen (DO)	4.9	mg/L	04/02/99	EPA 360.1
Fluoride	0.26	mg/L	04/06/99	EPA 300.0
Iron	0.126	mg/L	04/09/99	EPA 200.7
Lead	< 1.0	ug/L	04/12/99	EPA 200.8
Magnesium	9.02	mg/L	04/09/99	EPA 200.7
Manganese	101.0	ug/L	04/12/99	EPA 200.8
Mercury	< 0.0005	mg/L	04/15/99	EPA 245.2
Molybdenum	< 0.020	mg/L	04/09/99	EPA 200.7
Nickel	3.1	ug/L	04/12/99	EPA 200.8
Nitrate (N)	0.18	mg/L	04/06/99	EPA 300.0
Nitrite (N)	< 0.05	mg/L	04/06/99	EPA 300.0
Potassium	0.77	mg/L	04/09/99	EPA 200.7
Selenium	< 1.0	ug/L	04/12/99	EPA 200.8
Silica	12.198	mg/L	04/09/99	EPA 200.7
Silver	< 1.0	ug/L	04/12/99	EPA 200.8
Sodium	5.22	mg/L	04/09/99	EPA 200.7
Specific Conductivity	528.00	umho/cm	04/02/99	EPA 120.1
Sulfate	9.77	mg/L	04/06/99	EPA 300.0
Thallium	< 1.0	ug/L	04/12/99	EPA 200.8
Total Dissolved Solids	299.12	mg/L	04/16/99	USGS I751-8
Total Hardness	271	mg/L	04/16/99	SM 2340B
Total Phosphorus (P)	0.01	mg/L	04/13/99	EPA 365.1
Total Suspended Solids (TSS)	2.00	mg/L	04/07/99	EPA 160.2
Turbidity	0.49	NTU	04/02/99	EPA 180.1
Vanadium	< 0.005	mg/L	04/09/99	EPA 200.7
Zinc	0.012	mg/L	04/09/99	EPA 200.7

Reporting Analyst: REH
 Date Reported: 04/16/99

< - Not Detected at Indicated Level
 * - Holding Time Exceeded

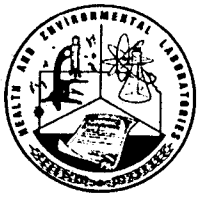
Copies To: File

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 Inorganic Chemistry (785) 296-1657
 Organic Chemistry (785) 296-1647
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 Env. Microbiology (785) 296-0971

Roger H. Carlson, Ph.D., Director - (785) 296-1620
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CS-A 4/2/99



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Kansas Department of Health and Environment
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REPORT OF ANALYSIS

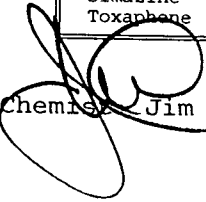
ORGANIC CHEMISTRY

Report To: BRYAN BAIN - BEFS
 Address: FORBES BLD. 283,
 TOPEKA, KS 66620

Lab Number: 905788PX
 Date Rec'd: 04/02/99
 Report Date: 04/12/99

Acct No: _____ Site ID No.: _____
 Site: TPNP #2 - (TALLGRASS PRAIRIE NAT'L. PRESERVE) - SPRING Sample Type: WATER Program Code: SP
 Collected By: BRYAN BAIN - KDHE/BEFS Depth: _____ Date: 04/02/99 Time: 13:50
 No. Composited: 0

PESTICIDES & PCB'S	CONCENTRATION (ug/L)	Analysis Date	EPA Method
Acetochlor	< 0.10	04/09/99	608
Alachlor	< 0.10	04/09/99	608
Aldrin	< 0.025	04/10/99	608
Atrazine	< 0.30	04/09/99	608
Butachlor	< 0.50	04/09/99	608
Carbofuran (Furadan)	< 0.50	04/09/99	608
Chlordane	< 0.20	04/10/99	608
Cyanazine (Bladex)	< 0.50	04/09/99	608
DCPA (Dacthal)	< 0.050	04/10/99	608
p,p'-DDD	< 0.040	04/10/99	608
p,p'-DDE	< 0.020	04/10/99	608
p,p'-DDT	< 0.10	04/10/99	608
Dieldrin	< 0.050	04/10/99	608
Endosulfan I	< 0.020	04/10/99	608
Endosulfan II	< 0.020	04/10/99	608
Endosulfan Sulfate	< 0.10	04/10/99	608
Endrin	< 0.10	04/10/99	608
alpha-BHC	< 0.025	04/10/99	608
beta-BHC	< 0.050	04/10/99	608
delta-BHC	< 0.050	04/10/99	608
gamma-BHC (Lindane)	< 0.025	04/10/99	608
Heptachlor	< 0.020	04/10/99	608
Heptachlor Epoxide	< 0.020	04/10/99	608
Hexachlorobenzene	< 0.10	04/10/99	608
Methoxychlor	< 0.20	04/10/99	608
Metolachlor (Dual)	< 0.25	04/09/99	608
Metribuzin (Sencor)	< 0.10	04/09/99	608
PCB-1016	< 0.50	04/10/99	608
PCB-1221	< 1.0	04/10/99	608
PCB-1232	< 0.50	04/10/99	608
PCB-1242	< 0.50	04/10/99	608
PCB-1248	< 0.50	04/10/99	608
PCB-1254	< 0.50	04/10/99	608
PCB-1260	< 0.50	04/10/99	608
Propachlor (Ramrod)	< 0.25	04/09/99	608
Propazine (Milogard)	< 0.30	04/09/99	608
Simazine	< 0.30	04/09/99	608
Toxaphene	< 2.0	04/10/99	608


 Chemist Jim Cook

< - Not Detected at Indicated Level

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REPORT OF ANALYSIS

ORGANIC CHEMISTRY

Report To: BRYAN BAIN - BEFS
Address: FORBES BLD. 283,
TOPEKA, KS 66620

Lab Number: 905788HX
Date Rec'd: 04/02/99
Report Date: 04/09/99

Site ID No.:

Acct No: Sample Type: WATER Program Code: SP
Site: TPNP #2 - (TALLGRASS PRAIRIE NAT'L. PRESERVE) - SPRING No. Composited: 0
Collected By: BRYAN BAIN - KDHE/BEFS Depth: Date: 04/02/99 Time: 13:50

CHLORINATED ACID PESTICIDES	CONCENTRATION (ug/L)	Analysis Date	EPA No.
2,4-D as Acid	< 0.80	04/08/99	615
Silvex as Acid (2,4,5-TP)	< 0.40	04/08/99	615
2,4,5-T as Acid	< 0.40	04/08/99	615
Picloram (Tordon)	< 0.80	04/08/99	615

Chemist: Mary Jane Ayala *MJA*

< - Not Detected at Indicated Level

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Kansas Department of Health and Environment
Forbes Field, Bldg. 740, Topeka, Kansas 66620-0001



REPORT OF ANALYSIS

ENVIRONMENTAL MICROBIOLOGY

Account No.: 4EM20	Date Collected: 04/02/99
Water Source: Bureau of Env. Field Services	Time Collected: 13:50 Hrs
Bureau of Env. Field Services	Date Received: 04/02/99
Forbes Field, Bldg. 283	Time Analyzed: 10:00 Hrs
Topeka KS 66620-0001	Time in Transit: 2:40 Hrs
Collected By: BAIN, B.	Date Reported: 04/05/99
Collection Location: TALLGRASS PRAIRIE SPRING #2	

<u>Lab Number</u>	<u>Analysis Performed</u>	<u>RESULT OF ANALYSIS</u>
900394SS	Fecal Coliform	LT10 per 100 ml
	Fecal Streptococcus	LT10 per 100 ml
Method: Membrane Filtration		Analyst: SG
		Approved by: <i>Chermon Gabel</i>

{GT = Greater Than, LT = Less Than, E= Estimated Value, NA = Not Analyzed}

Explanation:

Neither fecal coliforms nor fecal streptococci were found in the sample submitted.

The examination of drinking water, wastewater or surface water are performed by the following processes which appear in Standard Methods: For the Examination of Water and Wastewater, 16th edition and 40 CFR 141.2:

<u>Method</u>	<u>Medium</u>	<u>Reference</u>
Presence/Absence	Clarks P/A	Section 908E
*MMO-MUG P/A	MMO-MUG (DSM)	Section 908E, 40 CFR 141.2
*MMO-MUG MPN	MMO-MUG (DSM)	Section 40 CFR 141.2
Membrane Filtration (MF)	FC Medium	Section 909C
Membrane Filtration (MF)	KF Medium	Section 910
Sludge Analysis	A1 Medium	18th Edition, 9221E, 40 CFR 503
Heterotroph Count	Plate Count Medium	Section 907

- * MMO-MUG = Minimal Media ONPG-MUG
- * DSM = Defined Substrate Media

If you have any questions concerning this REPORT please CALL the Environmental Microbiology Section, KHEL at the number above, the lab number is (785) 296-0971 or Bureau of Water telephone (785) 296-5518.

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Kansas Department of Health and Environment
Forbes Field, Bldg. 740, Topeka, Kansas 66620-0001



CS-A
8/17/99

REPORT OF ANALYSIS

INORGANIC CHEMISTRY

INFORMATION SYSTEMS DIVISION

Report To: Bryan Bain - BEFS
 Forbes Field, Bldg. 283
 Topeka KS 66620

Lab Number: 000433PT

Site ID:
 Account Code: SP

Collection Location: CS-A3A
 Collector: Bryan Bain
 Date/Time Collected: 08/17/99 11:35

Matrix: Water

Collect Depth:
 Date/Time Received: 08/17/99 15:51

Sample Comments: Field pH=6.9 Field Temp.=20C

Parameter	Analytical Result	Units	Analysis Date	Analytical Method
Alkalinity as CaCO3	305.51	mg/L	08/19/99	EPA 310.2
Aluminum	< 0.050	mg/L	08/25/99	EPA 200.7
Ammonia (N)	0.08	mg/L	08/20/99	EPA 350.1
Antimony	< 0.050	mg/L	08/25/99	EPA 200.7
Arsenic	< 0.050	mg/L	08/25/99	EPA 200.7
Barium	0.127	mg/L	08/25/99	EPA 200.7
Beryllium	< 0.001	mg/L	08/25/99	EPA 200.7
Boron	0.020	mg/L	08/25/99	EPA 200.7
Bromide	< 0.02	mg/L	08/18/99	EPA 300.0
Cadmium	< 0.005	mg/L	08/25/99	EPA 200.7
Calcium	101.625	mg/L	08/25/99	EPA 200.7
Chloride	4.30	mg/L	08/18/99	EPA 300.0
Chromium	< 0.010	mg/L	08/25/99	EPA 200.7
Cobalt	< 0.010	mg/L	08/25/99	EPA 200.7
Copper	0.014	mg/L	08/25/99	EPA 200.7
Fluoride	0.31	mg/L	08/18/99	EPA 300.0
Iron	0.072	mg/L	08/25/99	EPA 200.7
Lead	< 0.050	mg/L	08/25/99	EPA 200.7
Magnesium	9.66	mg/L	08/25/99	EPA 200.7
Manganese	0.633	mg/L	08/25/99	EPA 200.7
Mercury	< 0.0005	mg/L	08/23/99	EPA 245.2
Molybdenum	< 0.020	mg/L	08/25/99	EPA 200.7
Nickel	< 0.005	mg/L	08/25/99	EPA 200.7
Nitrate (N)	0.12	mg/L	08/18/99	EPA 300.0
Nitrite (N)	0.05	mg/L	08/18/99	EPA 300.0
Potassium	0.84	mg/L	08/25/99	EPA 200.7
Selenium	< 0.050	mg/L	08/25/99	EPA 200.7
Silica	15.243	mg/L	08/25/99	EPA 200.7
Silver	< 0.010	mg/L	08/25/99	EPA 200.7
Sodium	4.58	mg/L	08/25/99	EPA 200.7
Sulfate	9.55	mg/L	08/18/99	EPA 300.0
Thallium	< 0.050	mg/L	08/25/99	EPA 200.7
Total Dissolved Solids	330.02	mg/L	08/30/99	USGS 1751-8
Total Hardness	293	mg/L	08/30/99	SM 2340B
Total Phosphorus (P)	0.02	mg/L	08/25/99	EPA 365.1
Vanadium	< 0.005	mg/L	08/25/99	EPA 200.7
Zinc	0.012	mg/L	08/25/99	EPA 200.7
pH	7.50 *	pH unit	08/19/99	EPA 150.1

Reporting Analyst: REH
 Date Reported: 08/30/99

< - Not Detected at Indicated Level
 * - Holding Time Exceeded

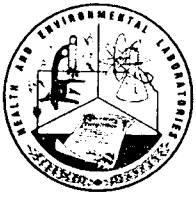
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CS-A 8/17/99



DIVISION OF HEALTH & ENVIRONMENTAL LABORATORIES

Kansas Department of Health and Environment

Forbes Field, Bldg. 740, Topeka, Kansas 66620-0001



REPORT OF ANALYSIS

ORGANIC CHEMISTRY

Report To: BRYAN BAIN - BEFS
Address: FORBES BLD. 283,
TOPEKA, KS 66620

Lab Number: 001064PX
Date Rec'd: 08/17/99
Report Date: 08/31/99

Acct No:
Site: CS-A3A
Collected By: BRYAN BAIN - BEFS/KDHE

Site ID No.:

Sample Type: WATER
Program Code: SP
No. Compositied: 0
Depth: Date: 08/17/99 Time: 11:35

PESTICIDES & PCB'S	CONCENTRATION (ug/L)	Analysis Date	EPA Method
Acetochlor	< 0.10	08/26/99	608
Alachlor	< 0.10	08/26/99	608
Aldrin	< 0.025	08/28/99	608
Atrazine	< 0.30	08/26/99	608
Butachlor	< 0.50	08/26/99	608
Carbofuran (Furadan)	< 0.50	08/26/99	608
Chlordane	< 0.20	08/28/99	608
Cyanazine (Bladex)	< 0.50	08/26/99	608
DCPA (Dacthal)	< 0.050	08/28/99	608
p,p'-DDD	< 0.040	08/28/99	608
p,p'-DDE	< 0.020	08/28/99	608
p,p'-DDT	< 0.10	08/28/99	608
Dieldrin	< 0.050	08/28/99	608
Endosulfan I	< 0.020	08/28/99	608
Endosulfan II	< 0.020	08/28/99	608
Endosulfan Sulfate	< 0.10	08/28/99	608
Endrin	< 0.10	08/28/99	608
alpha-BHC	< 0.025	08/28/99	608
beta-BHC	< 0.050	08/28/99	608
delta-BHC	< 0.050	08/28/99	608
gamma-BHC (Lindane)	< 0.025	08/28/99	608
Heptachlor	< 0.020	08/28/99	608
Heptachlor Epoxide	< 0.020	08/28/99	608
Hexachlorobenzene	< 0.10	08/28/99	608
Methoxychlor	< 0.20	08/28/99	608
Metolachlor (Dual)	< 0.25	08/26/99	608
Metribuzin (Sencor)	< 0.10	08/26/99	608
PCB-1016	< 0.50	08/28/99	608
PCB-1221	< 1.0	08/28/99	608
PCB-1232	< 0.50	08/28/99	608
PCB-1242	< 0.50	08/28/99	608
PCB-1248	< 0.50	08/28/99	608
PCB-1254	< 0.50	08/28/99	608
PCB-1260	< 0.50	08/28/99	608
Propachlor (Ramrod)	< 0.25	08/26/99	608
Propazine (Milogard)	< 0.30	08/26/99	608
Simazine	< 0.30	08/26/99	608
Toxaphene	< 2.0	08/28/99	608

Chemist:  Tim Cook

< - Not Detected at Indicated Level

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REPORT OF ANALYSIS

ORGANIC CHEMISTRY

Report To: BRYAN BAIN - BEFS
 Address: FORBES BLD. 283,
 TOPEKA, KS 66620

Lab Number: 001064HX
 Date Rec'd: 08/17/99
 Report Date: 08/20/99

Site ID No.:

Acct No:
 Site: CS-A3A
 Collected By: BRYAN BAIN - BEFS/KDHE

Sample Type: WATER Program Code: SP
 No. Composited: 0
 Depth: Date: 08/17/99 Time: 11:35

CHLORINATED ACID PESTICIDES	CONCENTRATION (ug/L)	Analysis Date	EPA No.
2,4-D as Acid	< 0.80	08/19/99	615
Silvex as Acid (2,4,5-TP)	< 0.40	08/19/99	615
2,4,5-T as Acid	< 0.40	08/19/99	615
Picloram (Tordon)	< 0.80	08/19/99	615

Chemist: Mary Jane Ayala *MJA*

< - Not Detected at Indicated Level

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REPORT OF ANALYSIS

ENVIRONMENTAL MICROBIOLOGY

Account No.: 4EM20
 Water Source: Bureau of Env. Field Services

Date Collected: 08/17/99
 Time Collected: 11:35 Hrs

Bureau of Env. Field Services
 Forbes Field, Bldg. 283
 Topeka KS 66620-0001

Date Received: 08/17/99
 Time Analyzed: 10:00 Hrs
 Time in Transit: 4:10 Hrs

Collected By: BAIN, B.
 Collection Location: CS-A3A

Date Reported: 08/19/99

<u>Lab Number</u>	<u>Analysis Performed</u>	<u>RESULT OF ANALYSIS</u>	
000127SS	Fecal Coliform	LT 10	per 100 ml
	Fecal Streptococcus	20	per 100 ml
Method: Membrane Filtration		Analyst: JIM	
		Approved by: <i>J. A. Mills</i>	

{GT = Greater Than, LT = Less Than, E= Estimated Value, NA = Not Analyzed}

Explanation:

Fecal coliforms were not found and fecal streptococci were found in the sample submitted.

The examination of drinking water, wastewater or surface water are performed by the following processes which appear in Standard Methods: For the Examination of Water and Wastewater. 16th edition and 40 CFR 141.2:

<u>Method</u>	<u>Medium</u>	<u>Reference</u>
Presence/Absence	Clarks P/A	Section 908E
*MMO-MUG P/A	MMO-MUG (DSM)	Section 908E, 40 CFR 141.2
*MMO-MUG MPN	MMO-MUG (DSM)	Section 40 CFR 141.2
Membrane Filtration(MF)	FC Medium	Section 909C
Membrane Filtration(MF)	KF Medium	Section 910
Sludge Analysis	A1 Medium	18th Edition, 9221E, 40 CFR 503
Heterotroph Count	Plate Count Medium	Section 907

* MMO-MUG = Minimal Media ONPG-MUG

* DSM = Defined Substrate Media

If you have any questions concerning this REPORT please CALL the Environmental Microbiology Section, KHEL at the number above, the lab number is (785) 296-0971 or Bureau of Water telephone (785) 296-5518.

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DIVISION OF HEALTH & ENVIRONMENTAL LABORATORIES
Kansas Department of Health and Environment
Forbes Field, Bldg. 740, Topeka, Kansas 66620-0001



CS-D
4/2/99

REPORT OF ANALYSIS

INORGANIC CHEMISTRY

Report To: Bryan Bain-BEFS ✓

Lab Number: 901151PT

Site ID:
 Account Code: PE

Collection Location: TPNP #1 Tallgrass Prairie Nat'l Preserve Spring
 Collector: Bryan Bain Matrix: Water Collect Depth:
 Date/Time Collected: 04/02/99 12:45 Date/Time Received: 04/02/99 16:39

Sample Comments: Field pH =7.1 Field Temp.=19C

Parameter	Analytical Result	Units	Analysis Date	Analytical Method
Alkalinity as CaCO3	337.01	mg/L	04/05/99	EPA 310.2
Aluminum	64.3	ug/L	04/12/99	EPA 200.8
Ammonia (N)	0.19	mg/L	04/14/99	EPA 350.1
Antimony	<	1.0 ug/L	04/12/99	EPA 200.8
Arsenic	<	1.0 ug/L	04/12/99	EPA 200.8
Barium	122.6	ug/L	04/12/99	EPA 200.8
Beryllium	<	1.0 ug/L	04/12/99	EPA 200.8
Biochemical Oxygen Demand	<	1.0 mg/L	04/07/99	SM 5210B
Boron	0.018	mg/L	04/09/99	EPA 200.7
Bromide	<	0.02 mg/L	04/06/99	EPA 300.0
Cadmium	<	1.0 ug/L	04/12/99	EPA 200.8
Calcium	96.35	mg/L	04/09/99	EPA 200.7
Chloride	6.08	mg/L	04/06/99	EPA 300.0
Chromium	<	1.0 ug/L	04/12/99	EPA 200.8
Cobalt	<	0.010 mg/L	04/09/99	EPA 200.7
Copper	6.8	ug/L	04/12/99	EPA 200.8
Dissolved Oxygen (DO)	7.6	mg/L	04/02/99	EPA 360.1
Fluoride	0.33	mg/L	04/06/99	EPA 300.0
Iron	0.045	mg/L	04/09/99	EPA 200.7
Lead	<	1.0 ug/L	04/12/99	EPA 200.8
Magnesium	19.15	mg/L	04/09/99	EPA 200.7
Manganese	<	1.0 ug/L	04/12/99	EPA 200.8
Mercury	<	0.0005 mg/L	04/15/99	EPA 245.2
Molybdenum	<	0.020 mg/L	04/09/99	EPA 200.7
Nickel	4.2	ug/L	04/12/99	EPA 200.8
Nitrate (N)	0.33	mg/L	04/06/99	EPA 300.0
Nitrite (N)	<	0.05 * mg/L	04/06/99	EPA 300.0
Potassium	0.72	mg/L	04/09/99	EPA 200.7
Selenium	1.9	ug/L	04/12/99	EPA 200.8
Silica	11.517	mg/L	04/09/99	EPA 200.7
Silver	<	1.0 ug/L	04/12/99	EPA 200.8
Sodium	17.87	mg/L	04/09/99	EPA 200.7
Specific Conductivity	670.00	umho/cm	04/02/99	EPA 120.1
Sulfate	23.80	mg/L	04/06/99	EPA 300.0
Thallium	<	1.0 ug/L	04/12/99	EPA 200.8
Total Dissolved Solids	379.55	mg/L	04/16/99	USGS I751-8
Total Hardness	319	mg/L	04/16/99	SM 2340B
Total Phosphorus (P)	0.02	mg/L	04/13/99	EPA 365.1
Total Suspended Solids (TSS)	3.00	mg/L	04/07/99	EPA 160.2
Turbidity	0.58	NTU	04/02/99	EPA 180.1
Vanadium	<	0.005 mg/L	04/09/99	EPA 200.7
Zinc	0.065	mg/L	04/09/99	EPA 200.7

Reporting Analyst: REH
 Date Reported: 04/16/99

< - Not Detected at Indicated Level
 * - Holding Time Exceeded

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1 CS-D 4-12/99 1



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Kansas Department of Health and Environment
Forbes Field, Bldg. 740, Topeka, Kansas 66620-0001



REPORT OF ANALYSIS


ORGANIC CHEMISTRY

Report To: BRYAN BAIN - BEFS
 Address: FORBES BLD. 283,
 TOPEKA, KS 66620

Lab Number: 905787PX
 Date Rec'd: 04/02/99
 Report Date: 04/12/99

Acct No: Site ID No.:
 Site: TPNP #1 - (TALLGRASS PRAIRIE NAT'L. PRESERVE) - SPRING Sample Type: WATER Program Code: SP
 Collected By: BRYAN BAIN - KDHE/BEFS Date: 04/02/99 Time: 12:45
 No. Composited: 0

PESTICIDES & PCB'S	CONCENTRATION (ug/L)	Analysis Date	EPA Method
Acetochlor	< 0.10	04/09/99	608
Alachlor	< 0.10	04/09/99	608
Aldrin	< 0.025	04/10/99	608
Atrazine	< 0.30	04/09/99	608
Butachlor	< 0.50	04/09/99	608
Carbofuran (Furadan)	< 0.50	04/09/99	608
Chlordane	< 0.20	04/10/99	608
Cyanazine (Bladex)	< 0.50	04/09/99	608
DCPA (Dacthal)	< 0.050	04/10/99	608
p,p'-DDD	< 0.040	04/10/99	608
p,p'-DDE	< 0.020	04/10/99	608
p,p'-DDT	< 0.10	04/10/99	608
Dieldrin	< 0.050	04/10/99	608
Endosulfan I	< 0.020	04/10/99	608
Endosulfan II	< 0.020	04/10/99	608
Endosulfan Sulfate	< 0.10	04/10/99	608
Endrin	< 0.10	04/10/99	608
alpha-BHC	< 0.025	04/10/99	608
beta-BHC	< 0.050	04/10/99	608
delta-BHC	< 0.050	04/10/99	608
gamma-BHC (Lindane)	< 0.025	04/10/99	608
Heptachlor	< 0.020	04/10/99	608
Heptachlor Epoxide	< 0.020	04/10/99	608
Hexachlorobenzene	< 0.10	04/10/99	608
Methoxychlor	< 0.20	04/10/99	608
Metolachlor (Dual)	< 0.25	04/09/99	608
Metribuzin (Sencor)	< 0.10	04/09/99	608
PCB-1016	< 0.50	04/10/99	608
PCB-1221	< 1.0	04/10/99	608
PCB-1232	< 0.50	04/10/99	608
PCB-1242	< 0.50	04/10/99	608
PCB-1248	< 0.50	04/10/99	608
PCB-1254	< 0.50	04/10/99	608
PCB-1260	< 0.50	04/10/99	608
Propachlor (Ramrod)	< 0.25	04/09/99	608
Propazine (Milogard)	< 0.30	04/09/99	608
Simazine	< 0.30	04/09/99	608
Toxaphene	< 2.0	04/10/99	608

Chemist:  JIM COOK

< - Not Detected at Indicated Level

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Kansas Department of Health and Environment
Forbes Field, Bldg. 740, Topeka, Kansas 66620-0001



REPORT OF ANALYSIS

ORGANIC CHEMISTRY

Report To: BRYAN BAIN - BEFS
Address: FORBES BLD. 283,
TOPEKA, KS 66620

Lab Number: 905787HX
Date Rec'd: 04/02/99
Report Date: 04/09/99

Site ID No.:

Acct No: Sample Type: WATER Program Code: SP
Site: TPNP #1 - (TALLGRASS PRAIRIE NAT'L. PRESERVE) - SPRING No. Composited: 0
Collected By: BRYAN BAIN - KDHE/BEFS Depth: Date: 04/02/99 Time: 12:45

CHLORINATED ACID PESTICIDES	CONCENTRATION (ug/L)	Analysis Date	EPA No.
2,4-D as Acid	< 0.80	04/08/99	615
Silvex as Acid (2,4,5-TP)	< 0.40	04/08/99	615
2,4,5-T as Acid	< 0.40	04/08/99	615
Picloram (Tordon)	< 0.80	04/08/99	615

Chemist: Mary Jane Ayala *MJA*

< - Not Detected at Indicated Level

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DIVISION OF HEALTH & ENVIRONMENTAL LABORATORIES
Kansas Department of Health and Environment
Forbes Field, Bldg. 740, Topeka, Kansas 66620-0001



REPORT OF ANALYSIS

ENVIRONMENTAL MICROBIOLOGY

Account No.: 4EM20	Date Collected: 04/02/99
Water Source: Bureau of Env. Field Services	Time Collected: 12:45 Hrs
Bureau of Env. Field Services	Date Received: 04/02/99
Forbes Field, Bldg. 283	Time Analyzed: 10:00 Hrs
Topeka KS 66620-0001	Time in Transit: 3:45 Hrs
Collected By: BAIN, B.	Date Reported: 04/05/99
Collection Location: TALLGRASS PRAIRIE SPRING #1	

<u>Lab Number</u>	<u>Analysis Performed</u>	<u>RESULT OF ANALYSIS</u>
900393SS	Fecal Coliform	LT10 per 100 ml
	Fecal Streptococcus	LT10 per 100 ml
Method: Membrane Filtration		Analyst: SG
		Approved by: <i>Shannon Gabel</i>

{GT = Greater Than, LT = Less Than, E= Estimated Value, NA = Not Analyzed}

Explanation:

Neither fecal coliforms nor fecal streptococci were found in the sample submitted.

The examination of drinking water, wastewater or surface water are performed by the following processes which appear in Standard Methods: For the Examination of Water and Wastewater. 16th edition and 40 CFR 141.2:

<u>Method</u>	<u>Medium</u>	<u>Reference</u>
Presence/Absence	Clarks P/A	Section 908E
*MMO-MUG P/A	MMO-MUG (DSM)	Section 908E, 40 CFR 141.2
*MMO-MUG MPN	MMO-MUG (DSM)	Section 40 CFR 141.2
Membrane Filtration(MF)	FC Medium	Section 909C
Membrane Filtration(MF)	KF Medium	Section 910
Sludge Analysis	A1 Medium	18th Edition, 9221E, 40 CFR 503
Heterotroph Count	Plate Count Medium	Section 907

* MMO-MUG = Minimal Media ONPG-MUG

* DSM = Defined Substrate Media

If you have any questions concerning this REPORT please CALL the Environmental Microbiology Section, KHEL at the number above, the lab number is (785) 296-0971 or Bureau of Water telephone (785) 296-5518.

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DIVISION OF HEALTH & ENVIRONMENTAL LABORATORIES
Kansas Department of Health and Environment
Forbes Field, Bldg. 740, Topeka, Kansas 66620-0001



CS-D
8/17/99

REPORT OF ANALYSIS

INORGANIC CHEMISTRY

FORM 100 (REV. 10/91) USE PREVIOUS EDITIONS

Report To: Bryan Bain - BEFS
 Forbes Field, Bldg. 283
 Topeka KS 66620

Lab Number: 000434PT
 Site ID:
 Account Code: SP

Collection Location: CS-D3A
 Collector: Bryan Bain
 Date/Time Collected: 08/17/99 12:15

Matrix: Water
 Collect Depth:
 Date/Time Received: 08/17/99 15:52

Sample Comments: Field pH= 7.2 Field Temp.=24C

Parameter	Analytical Result	Units	Analysis Date	Analytical Method
Alkalinity as CaCO3	328.67	mg/L	08/19/99	EPA 310.2
Aluminum	0.064	mg/L	08/25/99	EPA 200.7
Ammonia (N)	0.03	mg/L	08/20/99	EPA 350.1
Antimony	< 0.050	mg/L	08/25/99	EPA 200.7
Arsenic	< 0.050	mg/L	08/25/99	EPA 200.7
Barium	0.131	mg/L	08/25/99	EPA 200.7
Beryllium	< 0.001	mg/L	08/25/99	EPA 200.7
Boron	0.166	mg/L	08/25/99	EPA 200.7
Bromide	< 0.02	mg/L	08/18/99	EPA 300.0
Cadmium	< 0.005	mg/L	08/25/99	EPA 200.7
Calcium	94.995	mg/L	08/25/99	EPA 200.7
Chloride	4.30	mg/L	08/18/99	EPA 300.0
Chromium	< 0.010	mg/L	08/25/99	EPA 200.7
Cobalt	< 0.010	mg/L	08/25/99	EPA 200.7
Copper	0.022	mg/L	08/25/99	EPA 200.7
Fluoride	0.32	mg/L	08/18/99	EPA 300.0
Iron	0.029	mg/L	08/25/99	EPA 200.7
Lead	< 0.050	mg/L	08/25/99	EPA 200.7
Magnesium	18.72	mg/L	08/25/99	EPA 200.7
Manganese	< 0.005	mg/L	08/25/99	EPA 200.7
Mercury	< 0.0005	mg/L	08/23/99	EPA 245.2
Molybdenum	< 0.020	mg/L	08/25/99	EPA 200.7
Nickel	< 0.005	mg/L	08/25/99	EPA 200.7
Nitrate (N)	0.12	mg/L	08/18/99	EPA 300.0
Nitrite (N)	0.05	mg/L	08/18/99	EPA 300.0
Potassium	0.61	mg/L	08/25/99	EPA 200.7
Selenium	< 0.050	mg/L	08/25/99	EPA 200.7
Silica	13.307	mg/L	08/25/99	EPA 200.7
Silver	< 0.010	mg/L	08/25/99	EPA 200.7
Sodium	16.11	mg/L	08/25/99	EPA 200.7
Sulfate	9.55	mg/L	08/18/99	EPA 300.0
Thallium	< 0.050	mg/L	08/25/99	EPA 200.7
Total Dissolved Solids	355.70	mg/L	08/30/99	USGS 1751-8
Total Hardness	314	mg/L	08/30/99	SM 2340B
Total Phosphorus (P)	0.02	mg/L	08/25/99	EPA 365.1
Vanadium	< 0.005	mg/L	08/25/99	EPA 200.7
Zinc	0.034	mg/L	08/25/99	EPA 200.7
pH	7.58 *	pH unit	08/19/99	EPA 150.1

Reporting Analyst: REH
 Date Reported: 08/30/99

< - Not Detected at Indicated Level
 * - Holding Time Exceeded

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DIVISION OF HEALTH & ENVIRONMENTAL LABORATORIES
Kansas Department of Health and Environment
Forbes Field, Bldg. 740, Topeka, Kansas 66620-0001



REPORT OF ANALYSIS

ORGANIC CHEMISTRY

Report To: BRYAN BAIN - BEFS
Address: FORBES BLD. 283,
TOPEKA, KS 66620

Lab Number: 001065PX
Date Rec'd: 08/17/99
Report Date: 09/13/99

Acct No:
Site: CS-D3A
Collected By: BRYAN BAIN - BEFS/KDHE

Site ID No.:

Sample Type: WATER
Program Code: SP
No. Compositied: 0
Depth: Date: 08/17/99 Time: 12:15

PESTICIDES & PCB'S	CONCENTRATION (ug/L)	Analysis Date	EPA Method
Acetochlor	< 0.10	08/26/99	608
Alachlor	< 0.10	08/26/99	608
Aldrin	< 0.025	08/28/99	608
Atrazine	< 0.30	08/26/99	608
Butachlor	< 0.50	08/26/99	608
Carbofuran (Furadan)	< 0.50	08/26/99	608
Chlordane	< 0.20	08/28/99	608
Cyanazine (Bladex)	< 0.50	08/26/99	608
DCPA (Dacthal)	< 0.050	08/28/99	608
p,p'-DDD	< 0.040	08/28/99	608
p,p'-DDE	< 0.020	08/28/99	608
p,p'-DDT	< 0.10	08/28/99	608
Dieldrin	< 0.050	08/28/99	608
Endosulfan I	< 0.020	08/28/99	608
Endosulfan II	< 0.020	08/28/99	608
Endosulfan Sulfate	< 0.10	08/28/99	608
Endrin	< 0.10	08/28/99	608
alpha-BHC	< 0.025	08/28/99	608
beta-BHC	< 0.050	08/28/99	608
delta-BHC	< 0.050	08/28/99	608
gamma-BHC (Lindane)	< 0.025	08/28/99	608
Heptachlor	< 0.020	08/28/99	608
Heptachlor Epoxide	< 0.020	08/28/99	608
Hexachlorobenzene	< 0.10	08/28/99	608
Methoxychlor	< 0.20	09/03/99	608
Metolachlor (Dual)	< 0.25	08/26/99	608
Metribuzin (Sencor)	< 0.10	08/26/99	608
PCB-1016	< 0.50	08/28/99	608
PCB-1221	< 1.0	08/28/99	608
PCB-1232	< 0.50	08/28/99	608
PCB-1242	< 0.50	08/28/99	608
PCB-1248	< 0.50	08/28/99	608
PCB-1254	< 0.50	08/28/99	608
PCB-1260	< 0.50	08/28/99	608
Propachlor (Ramrod)	< 0.25	08/28/99	608
Propazine (Milogard)	< 0.30	08/26/99	608
Simazine	< 0.30	08/26/99	608
Toxaphene	< 2.0	09/03/99	608

Chemist:  Jim Cook

< - Not Detected at Indicated Level

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Kansas Department of Health and Environment
Forbes Field, Bldg. 740, Topeka, Kansas 66620-0001



REPORT OF ANALYSIS

ORGANIC CHEMISTRY

Report To: BRYAN BAIN - BEFS
Address: FORBES BLD. 283,
TOPEKA, KS 66620

Lab Number: 001065HX
Date Rec'd: 08/17/99
Report Date: 08/20/99

Acct No: Site ID No.:
Site: CS-D3A Sample Type: WATER Program Code: SP
Collected By: BRYAN BAIN - BEFS/KDHE Depth: Date: 08/17/99 Time: 12:15
No. Composited: 0

CHLORINATED ACID PESTICIDES	CONCENTRATION (ug/L)	Analysis Date	EPA No.
2,4-D as Acid	< 0.80	08/19/99	615
Silvex as Acid (2,4,5-TP)	< 0.40	08/19/99	615
2,4,5-T as Acid	< 0.40	08/19/99	615
Picloram (Tordon)	< 0.80	08/19/99	615

Chemist: Mary Jane Ayala *MJA*

< - Not Detected at Indicated Level

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DIVISION OF HEALTH & ENVIRONMENTAL LABORATORIES
Kansas Department of Health and Environment
Forbes Field, Bldg. 740, Topeka, Kansas 66620-0001



REPORT OF ANALYSIS

ENVIRONMENTAL MICROBIOLOGY

Account No.: 4EM20	Date Collected: 08/17/99
Water Source: Bureau of Env. Field Services	Time Collected: 12:15 Hrs
Bureau of Env. Field Services	Date Received: 08/17/99
Forbes Field, Bldg. 283	Time Analyzed: 10:00 Hrs
Topeka KS 66620-0001	Time in Transit: 3:30 Hrs
Collected By: BAIN, B.	Date Reported: 08/19/99
Collection Location: CS-D3A	

<u>Lab Number</u>	<u>Analysis Performed</u>	<u>RESULT OF ANALYSIS</u>
000126SS	Fecal Coliform	LT 10 per 100 ml
	Fecal Streptococcus	LT 10 per 100 ml
Method: Membrane Filtration		Analyst: JIM
		Approved by: <i>Jc A. Mota</i>

{GT = Greater Than, LT = Less Than, E= Estimated Value, NA = Not Analyzed}

Explanation:

Neither fecal coliforms nor fecal streptococci were found in the sample submitted.

The examination of drinking water, wastewater or surface water are performed by the following processes which appear in Standard Methods: For the Examination of Water and Wastewater. 16th edition and 40 CFR 141.2:

<u>Method</u>	<u>Medium</u>	<u>Reference</u>
Presence/Absence	Clarks P/A	Section 908E
*MMO-MUG P/A	MMO-MUG (DSM)	Section 908E, 40 CFR 141.2
*MMO-MUG MPN	MMO-MUG (DSM)	Section 40 CFR 141.2
Membrane Filtration(MF)	FC Medium	Section 909C
Membrane Filtration(MF)	KF Medium	Section 910
Sludge Analysis	A1 Medium	18th Edition, 9221E, 40 CFR 503
Heterotroph Count	Plate Count Medium	Section 907

* MMO-MUG = Minimal Media ONPG-MUG

* DSM = Defined Substrate Media

If you have any questions concerning this REPORT please CALL the Environmental Microbiology Section, KHEL at the number above, the lab number is (785) 296-0971 or Bureau of Water telephone (785) 296-5518.

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DIVISION OF HEALTH & ENVIRONMENTAL LABORATORIES
Kansas Department of Health and Environment
Forbes Field, Bldg. 740, Topeka, Kansas 66620-0001



CS-F
6/23/99

REPORT OF ANALYSIS

INORGANIC CHEMISTRY

Report To: Bryan Bain - BEFS
 Forbes Field, Bldg. 283
 Topeka KS 66620

Lab Number: 901757PT

Site ID:
 Account Code: SP

Collection Location: TPNP CS-F3
 Collector: Bryan Bain
 Date/Time Collected: 06/23/99 11:00

Matrix: Water

Collect Depth:
 Date/Time Received: 06/23/99 15:30

Sample Comments: Field pH= 7.1 Field Temp.= 18

Parameter	Analytical Result	Units	Analysis Date	Analytical Method
Alkalinity as CaCO3	301.16	mg/L	06/24/99	EPA 310.2
Aluminum	3.097	mg/L	06/30/99	EPA 200.7
Ammonia (N)	< 0.02	mg/L	06/29/99	EPA 350.1
Antimony	< 0.050	mg/L	06/30/99	EPA 200.7
Arsenic	< 0.050	mg/L	06/30/99	EPA 200.7
Barium	0.148	mg/L	06/30/99	EPA 200.7
Beryllium	< 0.001	mg/L	06/30/99	EPA 200.7
Boron	0.089	mg/L	06/30/99	EPA 200.7
Bromide	< 0.02	mg/L	06/28/99	EPA 300.0
Cadmium	< 0.005	mg/L	06/30/99	EPA 200.7
Calcium	111.40	mg/L	06/30/99	EPA 200.7
Chloride	3.11	mg/L	06/28/99	EPA 300.0
Chromium	0.024	mg/L	06/30/99	EPA 200.7
Cobalt	< 0.010	mg/L	06/30/99	EPA 200.7
Copper	0.019	mg/L	06/30/99	EPA 200.7
Fluoride	0.24	mg/L	06/28/99	EPA 300.0
Iron	3.238	mg/L	06/30/99	EPA 200.7
Lead	< 0.050	mg/L	06/30/99	EPA 200.7
Magnesium	12.03	mg/L	06/30/99	EPA 200.7
Manganese	0.144	mg/L	06/30/99	EPA 200.7
Mercury	< 0.0005	mg/L	07/02/99	EPA 245.2
Molybdenum	< 0.020	mg/L	06/30/99	EPA 200.7
Nickel	0.017	mg/L	06/30/99	EPA 200.7
Nitrate (N)	0.14 *	mg/L	06/28/99	EPA 300.0
Nitrite (N)	< 0.05 *	mg/L	06/28/99	EPA 300.0
Potassium	1.52	mg/L	06/30/99	EPA 200.7
Selenium	< 0.050	mg/L	06/30/99	EPA 200.7
Silica	28.230	mg/L	06/30/99	EPA 200.7
Silver	< 0.010	mg/L	06/30/99	EPA 200.7
Sodium	4.87	mg/L	06/30/99	EPA 200.7
Sulfate	11.05	mg/L	06/28/99	EPA 300.0
Thallium	< 0.050	mg/L	06/30/99	EPA 200.7
Total Dissolved Solids	354.36	mg/L	07/07/99	USGS 1751-8
Total Hardness	328	mg/L	07/07/99	SM 2340B
Total Phosphorus (P)	0.19	mg/L	06/30/99	EPA 365.1
Vanadium	0.005	mg/L	06/30/99	EPA 200.7
Zinc	0.055	mg/L	06/30/99	EPA 200.7
pH	7.31 *	pH unit	06/23/99	EPA 150.1

Reporting Analyst: REH
 Date Reported: 07/07/99

< - Not Detected at Indicated Level
 * - Holding Time Exceeded

Copies To: File

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 Inorganic Chemistry (785) 296-1657
 Organic Chemistry (785) 296-1647
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1 CS-F 6/23/99



DIVISION OF HEALTH & ENVIRONMENTAL LABORATORIES
Kansas Department of Health and Environment
Forbes Field, Bldg. 740, Topeka, Kansas 66620-0001



REPORT OF ANALYSIS

ORGANIC CHEMISTRY

Report To: BRYAN BAIN - BEFS
 Address: FORBES BLD. 283,
 TOPEKA, KS 66620


Lab Number: 907601PX
 Date Rec'd: 06/23/99
 Report Date: 06/30/99

Acct No:
 Site: TPNP CS-F3 (SPRING SAMPLE)
 Collected By: BRYAN BAIN - KDHE/BEFS

Site ID No.:

Sample Type: WATER Program Code: SP
 Depth: No. Compositd: 0
 Date: 06/23/99 Time: 11:00

PESTICIDES & PCB'S	CONCENTRATION (ug/L)	Analysis Date	EPA Method
Acetochlor	< 0.10	06/27/99	608
Alachlor	< 0.10	06/27/99	608
Aldrin	< 0.025	06/29/99	608
Atrazine	< 0.30	06/27/99	608
Butachlor	< 0.50	06/27/99	608
Carbofuran (Furadan)	< 0.50	06/27/99	608
Chlordane	< 0.20	06/29/99	608
Cyanazine (Bladex)	< 0.50	06/27/99	608
DCPA (Dacthal)	< 0.050	06/29/99	608
p,p'-DDD	< 0.040	06/29/99	608
p,p'-DDE	< 0.020	06/29/99	608
p,p'-DDT	< 0.10	06/29/99	608
Dieldrin	< 0.050	06/29/99	608
Endosulfan I	< 0.020	06/29/99	608
Endosulfan II	< 0.020	06/29/99	608
Endosulfan Sulfate	< 0.10	06/29/99	608
Endrin	< 0.10	06/29/99	608
alpha-BHC	< 0.025	06/29/99	608
beta-BHC	< 0.050	06/29/99	608
delta-BHC	< 0.050	06/29/99	608
gamma-BHC (Lindane)	< 0.025	06/29/99	608
Heptachlor	< 0.020	06/29/99	608
Heptachlor Epoxide	< 0.020	06/29/99	608
Hexachlorobenzene	< 0.10	06/29/99	608
Methoxychlor	< 0.20	06/29/99	608
Metolachlor (Dual)	< 0.25	06/27/99	608
Metribuzin (Sencor)	< 0.10	06/27/99	608
PCB-1016	< 0.50	06/29/99	608
PCB-1221	< 1.0	06/29/99	608
PCB-1232	< 0.50	06/29/99	608
PCB-1242	< 0.50	06/29/99	608
PCB-1248	< 0.50	06/29/99	608
PCB-1254	< 0.50	06/29/99	608
PCB-1260	< 0.50	06/29/99	608
Propachlor (Ramrod)	< 0.25	06/27/99	608
Propazine (Milogard)	< 0.30	06/27/99	608
Simazine	< 0.30	06/27/99	608
Toxaphene	< 2.0	06/29/99	608

Chemist:  Jan Cook

< - Not Detected at Indicated Level

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Forbes Field, Bldg. 740, Topeka, Kansas 66620-0001



REPORT OF ANALYSIS

ORGANIC CHEMISTRY

Report To: BRYAN BAIN - BEFS
 Address: FORBES BLD. 283,
 TOPEKA, KS 66620

Lab Number: 907601HX
 Date Rec'd: 06/23/99
 Report Date: 07/02/99

Site ID No.:

Acct No:
 Site: TPNP CS-F3 (SPRING SAMPLE)
 Collected By: BRYAN BAIN - KDHE/BEFS

Sample Type: WATER Program Code: SP
 No. Composited: 0
 Depth: Date: 06/23/99 Time: 11:00

CHLORINATED ACID PESTICIDES	CONCENTRATION (ug/L)	Analysis Date	EPA No.
2,4-D as Acid	< 0.80	07/01/99	615
Silvex as Acid (2,4,5-TP)	< 0.40	07/01/99	615
2,4,5-T as Acid	< 0.40	07/01/99	615
Picloram (Tordon)	< 0.80	07/01/99	615

Chemist: Mary Jane Ayala *M.J.A.*

< - Not Detected at Indicated Level

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DIVISION OF HEALTH & ENVIRONMENTAL LABORATORIES
Kansas Department of Health and Environment
Forbes Field, Bldg. 740, Topeka, Kansas 66620-0001



CS-F
6/23/99

REPORT OF ANALYSIS

ENVIRONMENTAL MICROBIOLOGY

Account No.: 4EM20	Date Collected: 06/23/99
Water Source: Bureau of Env. Field Services	Time Collected: 11:00 Hrs
Bureau of Env. Field Services	Date Received: 06/23/99
Forbes Field, Bldg. 283	Time Analyzed: 10:00 Hrs
Topeka KS 66620-0001	Time in Transit: 5:13 Hrs
Collected By: BAIN, B.	Date Reported: 06/25/99
Collection Location: TPNP CS-F3	

<u>Lab Number</u>	<u>Analysis Performed</u>	<u>RESULT OF ANALYSIS</u>	
900555SS	Fecal Coliform	360	per 100 ml
	Fecal Streptococcus	1300	per 100 ml
Method: Membrane Filtration		Analyst: SEG	
		Approved by: <i>Shannon Gabel</i>	

{GT = Greater Than, LT = Less Than, E= Estimated Value, NA = Not Analyzed}

Explanation:

Fecal coliforms and fecal streptococci were found in the sample submitted.

The examination of drinking water, wastewater or surface water are performed by the following processes which appear in Standard Methods: For the Examination of Water and Wastewater. 16th edition and 40 CFR 141.2:

<u>Method</u>	<u>Medium</u>	<u>Reference</u>
Presence/Absence	Clarks P/A	Section 908E
*MMO-MUG P/A	MMO-MUG (DSM)	Section 908E, 40 CFR 141.2
*MMO-MUG MPN	MMO-MUG (DSM)	Section 40 CFR 141.2
Membrane Filtration(MF)	FC Medium	Section 909C
Membrane Filtration(MF)	KF Medium	Section 910
Sludge Analysis	A1 Medium	18th Edition, 9221E, 40 CFR 503
Heterotroph Count	Plate Count Medium	Section 907

- * MMO-MUG = Minimal Media ONPG-MUG
- * DSM = Defined Substrate Media

If you have any questions concerning this REPORT please CALL the Environmental Microbiology Section, KHEL at the number above, the lab number is (785) 296-0971 or Bureau of Water telephone (785) 296-5518.

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DIVISION OF HEALTH & ENVIRONMENTAL LABORATORIES

Kansas Department of Health and Environment
Forbes Field, Bldg. 740, Topeka, Kansas 66620-0001



CS-F
8/17/99

REPORT OF ANALYSIS

INORGANIC CHEMISTRY

Report To: Bryan Bain - BEFS
Forbes Field, Bldg. 283
Topeka KS 66620

Lab Number: 000432PT

Site ID:
Account Code: SP

Collection Location: CS-F3A
Collector: Bryan Bain
Date/Time Collected: 08/17/99 11:05

Matrix: Water

Collect Depth:
Date/Time Received: 08/17/99 15:49

Sample Comments: Field pH=7.3 Field Temp.= 25C

Table with 5 columns: Parameter, Analytical Result, Units, Analysis Date, Analytical Method. Lists various chemical parameters like Alkalinity, Aluminum, Ammonia, etc., with their respective results and methods.

Reporting Analyst: REH
Date Reported: 08/30/99

< - Not Detected at Indicated Level
* - Holding Time Exceeded

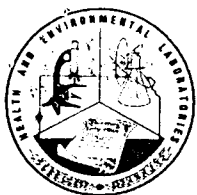
Copies To: File

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CS-F 8/17/99



DIVISION OF HEALTH & ENVIRONMENTAL LABORATORIES
Kansas Department of Health and Environment
Forbes Field, Bldg. 740, Topeka, Kansas 66620-0001



REPORT OF ANALYSIS

ORGANIC CHEMISTRY

Report To: BRYAN BAIN - BEFS
 Address: FORBES BLD. 283,
 TOPEKA, KS 66620

Lab Number: 001066PX
 Date Rec'd: 08/17/99
 Report Date: 09/13/99

Acct No:
 Site: CS-F3A
 Collected By: BRYAN BAIN - BEFS/KDHE

Site ID No.:

Sample Type: WATER Program Code: SP
 No. Compositied: 0
 Depth: Date: 08/17/99 Time: 11:05

PESTICIDES & PCB'S	CONCENTRATION (ug/L)	Analysis Date	EPA Method
Acetochlor	< 0.10	08/26/99	608
Alachlor	< 0.10	08/26/99	608
Aldrin	< 0.025	08/28/99	608
Atrazine	< 0.30	08/26/99	608
Butachlor	< 0.50	08/26/99	608
Carbofuran (Furadan)	< 0.50	08/26/99	608
Chlordane	< 0.20	08/28/99	608
Cyanazine (Bladex)	< 0.50	08/26/99	608
DCPA (Dacthal)	< 0.050	08/28/99	608
p,p'-DDD	< 0.040	08/28/99	608
p,p'-DDE	< 0.020	08/28/99	608
p,p'-DDT	< 0.10	08/28/99	608
Dieldrin	< 0.050	08/28/99	608
Endosulfan I	< 0.020	08/28/99	608
Endosulfan II	< 0.020	08/28/99	608
Endosulfan Sulfate	< 0.10	08/28/99	608
Endrin	< 0.10	08/28/99	608
alpha-BHC	< 0.025	08/28/99	608
beta-BHC	< 0.050	08/28/99	608
delta-BHC	< 0.050	08/28/99	608
gamma-BHC (Lindane)	< 0.025	08/28/99	608
Heptachlor	< 0.020	08/28/99	608
Heptachlor Epoxide	< 0.020	08/28/99	608
Hexachlorobenzene	< 0.10	08/28/99	608
Methoxychlor	< 0.20	08/28/99	608
Metolachlor (Dual)	< 0.25	08/26/99	608
Metribuzin (Sencor)	< 0.10	08/26/99	608
PCB-1016	< 0.50	08/28/99	608
PCB-1221	< 1.0	08/28/99	608
PCB-1232	< 0.50	08/28/99	608
PCB-1242	< 0.50	08/28/99	608
PCB-1248	< 0.50	08/28/99	608
PCB-1254	< 0.50	08/28/99	608
PCB-1260	< 0.50	08/28/99	608
Propachlor (Ramrod)	< 0.25	08/26/99	608
Propazine (Milogard)	< 0.30	08/26/99	608
Simazine	< 0.30	08/26/99	608
Trixaphene	< 2.0	08/28/99	608

Chemist:  Dan Cook

< - Not Detected at Indicated Level

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Kansas Department of Health and Environment
Forbes Field, Bldg. 740, Topeka, Kansas 66620-0001



REPORT OF ANALYSIS

ORGANIC CHEMISTRY

Report To: BRYAN BAIN - BEFS
 Address: FORBES BLD. 283,
 TOPEKA, KS 66620

Lab Number: 001066HX
 Date Rec'd: 08/17/99
 Report Date: 08/20/99

Site ID No.:

Acct No: Site: CS-F3A Collected By: BRYAN BAIN - BEFS/KDHE
 Sample Type: WATER Program Code: SP No. Composited: 0
 Depth: Date: 08/17/99 Time: 11:05

CHLORINATED ACID PESTICIDES	CONCENTRATION (ug/L)	Analysis Date	EPA No.
2,4-D as Acid	< 0.80	08/19/99	615
Silvex as Acid (2,4,5-TP)	< 0.40	08/19/99	615
2,4,5-T as Acid	< 0.40	08/19/99	615
Picloram (Tordon)	< 0.80	08/19/99	615

Chemist: Mary Jane Ayala *MJA*

< - Not Detected at Indicated Level

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DIVISION OF HEALTH & ENVIRONMENTAL LABORATORIES
Kansas Department of Health and Environment
Forbes Field, Bldg. 740, Topeka, Kansas 66620-0001



REPORT OF ANALYSIS

ENVIRONMENTAL MICROBIOLOGY

Account No.: 4EM20	Date Collected: 08/17/99
Water Source: Bureau of Env. Field Services	Time Collected: 11:05 Hrs
Bureau of Env. Field Services	Date Received: 08/17/99
Forbes Field, Bldg. 283	Time Analyzed: 10:00 Hrs
Topeka KS 66620-0001	Time in Transit: 4:40 Hrs
Collected By: BAIN, B.	Date Reported: 08/19/99
Collection Location: CS-F3A	

<u>Lab Number</u>	<u>Analysis Performed</u>	<u>RESULT OF ANALYSIS</u>
000128SS	Fecal Coliform	100 per 100 ml
	Fecal Streptococcus	3000 per 100 ml
Method: Membrane Filtration		Analyst: JIM
		Approved by: <i>[Signature]</i>

{GT = Greater Than, LT = Less Than, E= Estimated Value, NA = Not Analyzed}

Explanation:

Fecal coliforms and fecal streptococci were found in the sample submitted.

The examination of drinking water, wastewater or surface water are performed by the following processes which appear in Standard Methods: For the Examination of Water and Wastewater. 16th edition and 40 CFR 141.2:

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*MMO-MUG MPN	MMO-MUG (DSM)	Section 40 CFR 141.2
Membrane Filtration(MF)	FC Medium	Section 909C
Membrane Filtration(MF)	KF Medium	Section 910
Sludge Analysis	A1 Medium	18th Edition, 9221E, 40 CFR 503
Heterotroph Count	Plate Count Medium	Section 907

- * MMO-MUG = Minimal Media ONPG-MUG
- * DSM = Defined Substrate Media

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