



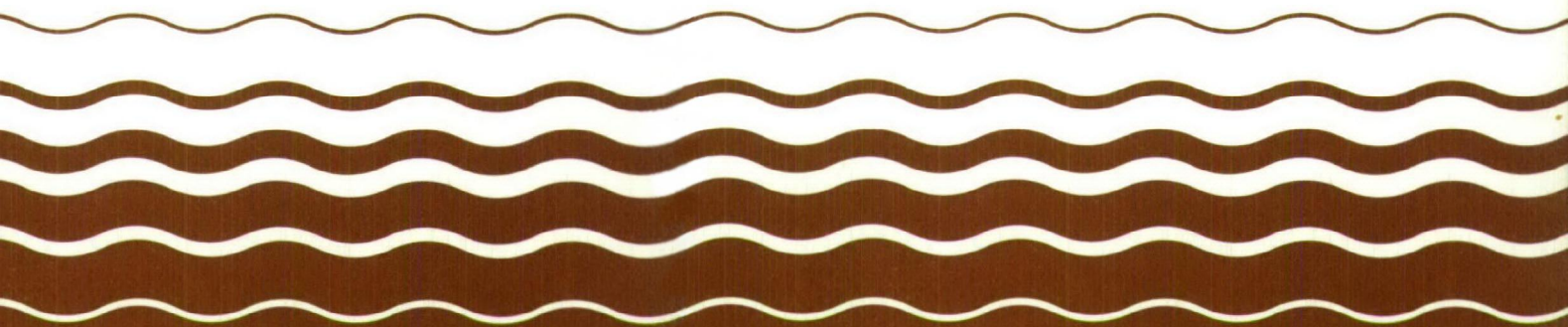
United States Environmental Protection Agency
Office of Water Regulations and Standards

Office of Water

October 1989

National Sewage Sludge Survey

Facility Sampling and Analytical Results



NATIONAL SEWAGE SLUDGE SURVEY

FACILITY SAMPLING AND ANALYTICAL RESULTS

OCTOBER 1989

This volume contains the sampling trip report and analytical results from the sampling Episode conducted by the EPA Office of Water Regulations and Standards during the National Sewage Sludge Survey, at the facility identified on the front cover.

Prepared for:

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Under EPA Contract No. 68-C9-0019

TRIP REPORT

NATIONAL SEWAGE SLUDGE STUDY

TRIP REPORT

EPISODE #: 1493

SAMPLE #'S: 16541, 16542 (Duplicate)

DATE: 9/22/88

SAMPLER (Name; Contractor): Bruce Hoskins; WESTEC Services Co.
Reston

FACILITY NAME: Oakland WWTP

PLANT CONTACT (Name; Title): Bob Collier, Superintendent

FACILITY PHONE #: 913-235-9081

PLANT LOCATION ADDRESS: 1001 North East Poplar
Topeka, KS 66616

POTW WASTEWATER INFLUENT FLOW (MGD): 19.0

SLUDGE DISPOSAL METHOD (Disposal Method; Liquid or Solid;
Approximate % solids):

Distribution and Marketing; Solid; UNKNOWN

FREQUENCY OF SLUDGE DISPOSAL:

Daily

CURRENT SLUDGE PRODUCTION RATE (APPROXIMATE):

150,000 Gallon/Day

EPISODE #: 1493

FACILITY NAME: Oakland WWTP

CHEMICALS ADDED DURING SLUDGE PROCESSING:

Polymer (cationic); Potassium Permanganate

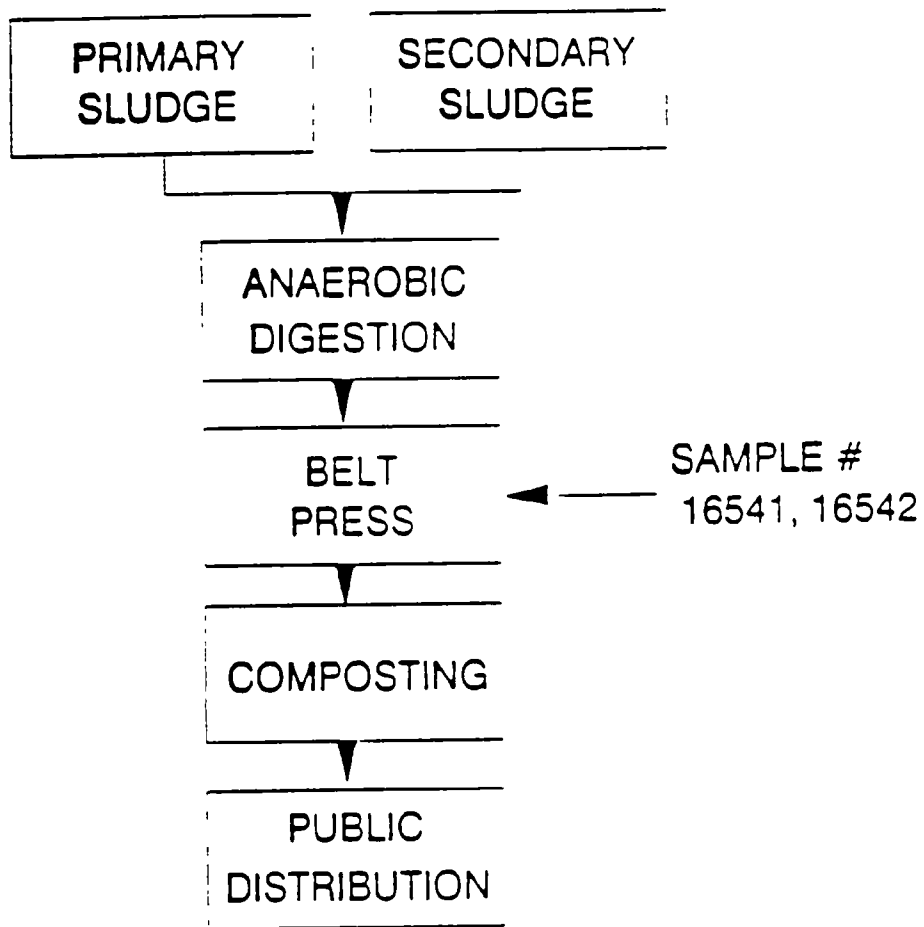
CHEMICALS USED IN DAILY TREATMENT OF INCOMING WASTEWATER (which may end up in sludge stream):

NONE

DESCRIPTION OF SLUDGE PROCESSING AND DISPOSAL FACILITIES:
(refer to page 3 for diagram)

Primary and activated sludge are sent to anaerobic digesters. Digested sludge is dewatered on belt filter presses. The sludge is then trucked to compost (Windrow Method) and given an 18 month drying period before being offered to the public.

OAKLAND WWTP, EPISODE 1493



FACILITY ANALYTICAL RESULTS

**USEPA
NATIONAL SEWAGE SLUDGE SURVEY**

**Key to Facility Analytical Results
November 22, 1989**

This volume contains analytical results for the National Sewage Sludge Survey (NSSS). This key defines the data fields that appear in this volume. The analytical results are sorted by analysis type, analyte name and EPA sample number. Data fields appear highlighted below and a description of each data field follows in approximate sequence from left to right, top to bottom.

HEADER FIELDS appear by Episode and Analysis Type.

EPISODE - Unique number assigned to the facility sampling visit by EPA.

AUTHORITY - Authority name.

SURVEY ID - Unique number assigned by EPA to the NSSS questionnaire for the facility

FACILITY - Facility name, address, city, state, and zip code.

ANALYSIS TYPE - Categorization of the analytes by analytical technique utilized.

RESULTS FIELDS appear by Analyte.

Analyte - Analyte name.

CAS No. - Chemical Abstracts Service number for the analyte.

Sample No. - EPA sample number.

Conc. - The analyte concentration. If the concentration is ND the analyte was not detected above the minimum level.

TEF Conc. - The analyte concentration adjusted by the Toxicity Equivalency Factor. This data field is applicable only when the Analysis Type is DIOXINS/FURANS, otherwise TEF Conc. will equal NA.

Minimum Level - The concentration below which the analyte was not detected in the sample. This data field is applicable only when the Conc. is equal to ND. NOTE: If the concentration for a given analyte is ND and the minimum level is NA this indicates that the sample was analyzed semi-quantitatively for that analyte.

DUP No. - The duplicate sample number, if applicable.

Unit - The unit of concentration for an analyte. All results are expressed on a dry weight basis. Units used in this volume are as follows.

MG/KG - milligrams per kilogram

UG/KG - micrograms per kilogram

NG/KG - nanograms per kilogram

% - percent residue in original sample

USEPA
OFFICE OF WATER REGULATIONS AND STANDARDS
NATIONAL SEWAGE SLUDGE SURVEY
FACILITY ANALYTICAL RESULTS

EPISODE : 1493
SURVEY ID: 22-17-135

ANALYSIS TYPE :
CLASSICALS

AUTHORITY:
CITY OF TOPEKA
FACILITY :
OAKLAND WWTP
1001 N E POPLAR
TOPEKA

KS 66616

Analyte	CAS No.	Sample No.	Conc.	TEF Conc.	Minimum Level	DUP No.	Unit
CYANIDES (SOLUBLE SALTS AND COMPLEXES)	57125	16541	2.4	NA	NA	16542	MG/KG
CYANIDES (SOLUBLE SALTS AND COMPLEXES)	57125	16542	2.4	NA	NA	16541	MG/KG
FLUORIDE	16984488	16541	ND	NA	0.2	16542	MG/KG
FLUORIDE	16984488	16542	ND	NA	0.2	16541	MG/KG
NITRATE	2_011	16541	19.5	NA	NA	16542	MG/KG
NITRATE	2_011	16542	42.0	NA	NA	16541	MG/KG
NITRITE	14797650	16541	25.5	NA	NA	16542	MG/KG
NITRITE	14797650	16542	28.8	NA	NA	16541	MG/KG
PHOSPHORUS	7723140	16541	94.9	NA	NA	16542	MG/KG
PHOSPHORUS	7723140	16542	132.0	NA	NA	16541	MG/KG
RESIDUE, TOTAL	1-008	16541	82.2	NA	NA	16542	%
RESIDUE, TOTAL	1-008	16542	83.4	NA	NA	16541	%
TOTAL KJELDAHL NITROGEN	1-021	16541	5850.0	NA	NA	16542	MG/KG
TOTAL KJELDAHL NITROGEN	1-021	16542	30.0	NA	NA	16541	MG/KG

**USEPA
OFFICE OF WATER REGULATIONS AND STANDARDS
NATIONAL SEWAGE SLUDGE SURVEY
FACILITY ANALYTICAL RESULTS**

**EPISODE : 1493
SURVEY ID: 22-17-135**

**AUTHORITY:
CITY OF TOPEKA
FACILITY :
OAKLAND WWTP
1001 N E POPLAR
TOPEKA**

**ANALYSIS TYPE :
DIOXINS/FURANS**

KS 66616

Analyte	CAS No.	Sample No.	Conc.	TEF Conc.	Minimum Level	DUP No.	Unit
OCTACHLORODIBENZO-P-DIOXIN	3268879	16541	29000.0	29.0	NA	16542	NG/KG
OCTACHLORODIBENZO-P-DIOXIN	3268879	16542	20000.0	20.0	NA	16541	NG/KG
OCTACHLORODIBENZOFURAN	39001020	16541	470.0	0.5	NA	16542	NG/KG
OCTACHLORODIBENZOFURAN	39001020	16542	310.0	0.3	NA	16541	NG/KG
TOTAL HEPTACHLORODIBENZO-P-DIOXIN	37871004	16541	5700.0	0.0	NA	16542	NG/KG
TOTAL HEPTACHLORODIBENZO-P-DIOXIN	37871004	16542	3900.0	0.0	NA	16541	NG/KG
TOTAL HEPTACHLORODIBENZOFURANS	38998753	16541	740.0	0.0	NA	16542	NG/KG
TOTAL HEPTACHLORODIBENZOFURANS	38998753	16542	480.0	0.0	NA	16541	NG/KG
TOTAL HEXACHLORODIBENZO-P-DIOXINS	344654608	16541	220.0	0.0	NA	16542	NG/KG
TOTAL HEXACHLORODIBENZO-P-DIOXINS	344654608	16542	280.0	0.0	NA	16541	NG/KG
TOTAL HEXACHLORODIBENZOFURANS	1_201	16541	29.0	0.0	NA	16542	NG/KG
TOTAL HEXACHLORODIBENZOFURANS	1_201	16542	190.0	0.0	NA	16541	NG/KG
TOTAL PENTACHLORODIBENZO-P-DIOXINS	36088229	16541	18.0	0.0	NA	16542	NG/KG
TOTAL PENTACHLORODIBENZO-P-DIOXINS	36088229	16542	53.0	0.0	NA	16541	NG/KG
TOTAL PENTACHLORODIBENZOFURANS	30402154	16541	120.0	0.0	NA	16542	NG/KG
TOTAL PENTACHLORODIBENZOFURANS	30402154	16542	97.0	0.0	NA	16541	NG/KG
TOTAL TETRACHLORODIBENZO-P-DIOXINS	41903575	16541	ND	NA	10.0	16542	NG/KG
TOTAL TETRACHLORODIBENZO-P-DIOXINS	41903575	16542	ND	NA	6.5	16541	NG/KG
TOTAL TETRACHLORODIBENZOFURANS	55722275	16541	27.0	0.0	NA	16542	NG/KG
TOTAL TETRACHLORODIBENZOFURANS	55722275	16542	30.0	0.0	NA	16541	NG/KG
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-P-DIOXI	35822469	16541	3200.0	32.0	NA	16542	NG/KG
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-P-DIOXI	35822469	16542	2300.0	23.0	NA	16541	NG/KG
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	67562394	16541	270.0	2.7	NA	16542	NG/KG
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	67562394	16542	200.0	2.0	NA	16541	NG/KG
1,2,3,4,7,8-HEXACHLORODIBENZO-P-DIOXIN	39227286	16541	ND	NA	25.0	16542	NG/KG
1,2,3,4,7,8-HEXACHLORODIBENZO-P-DIOXIN	39227286	16542	ND	NA	16.0	16541	NG/KG
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	70648269	16541	29.0	2.9	NA	16542	NG/KG
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	70648269	16542	16.0	1.6	NA	16541	NG/KG
1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	55673897	16541	ND	NA	25.0	16542	NG/KG
1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	55673897	16542	ND	NA	16.0	16541	NG/KG
1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	57653857	16541	81.0	8.1	NA	16542	NG/KG
1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	57653857	16542	54.0	5.4	NA	16541	NG/KG

EPISODE: 1493

ANALYSIS TYPE: DIOXINS/FURANS

Analyte	CAS No.	Sample No.	Conc.	TEF Conc.	Minimum Level	DUP No.	Unit
1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	57117449	16541	ND	NA	25.0	16542	NG/KG
1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	57117449	16542	ND	NA	16.0	16541	NG/KG
1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN	40321764	16541	ND	NA	10.0	16542	NG/KG
1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN	40321764	16542	ND	NA	6.5	16541	NG/KG
1,2,3,7,8-PENTACHLORODIBENZOFURAN	57117416	16541	ND	NA	10.0	16542	NG/KG
1,2,3,7,8-PENTACHLORODIBENZOFURAN	57117416	16542	ND	NA	6.5	16541	NG/KG
1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	19408743	16541	ND	NA	25.0	16542	NG/KG
1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	19408743	16542	ND	NA	16.0	16541	NG/KG
1,2,3,7,8,9-HEXACHLORODIBENZOFURAN	72918219	16541	ND	NA	25.0	16542	NG/KG
1,2,3,7,8,9-HEXACHLORODIBENZOFURAN	72918219	16542	ND	NA	16.0	16541	NG/KG
2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	60851345	16541	ND	NA	25.0	16542	NG/KG
2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	60851345	16542	ND	NA	16.0	16541	NG/KG
2,3,4,7,8-PENTACHLORODIBENZOFURAN	57117314	16541	ND	NA	10.0	16542	NG/KG
2,3,4,7,8-PENTACHLORODIBENZOFURAN	57117314	16542	ND	NA	6.5	16541	NG/KG
2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	1746016	16541	ND	NA	10.0	16542	NG/KG
2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	1746016	16542	ND	NA	6.5	16541	NG/KG
2,3,7,8-TETRACHLORODIBENZOFURAN	51207319	16541	16.0	1.6	NA	16542	NG/KG
2,3,7,8-TETRACHLORODIBENZOFURAN	51207319	16542	13.0	1.3	NA	16541	NG/KG

**USEPA
OFFICE OF WATER REGULATIONS AND STANDARDS
NATIONAL SEWAGE SLUDGE SURVEY
FACILITY ANALYTICAL RESULTS**

**EPISODE : 1493
SURVEY ID: 22-17-135**

**ANALYSIS TYPE :
METALS**

**AUTHORITY:
CITY OF TOPEKA
FACILITY :
OAKLAND WWTP
1001 N E POPLAR
TOPEKA**

KS 66616

Analyte	CAS No.	Sample No.	Conc.	TEF Conc.	Minimum Level	DUP No.	Unit
ALUMINUM	7429905	16541	13700.0	NA	NA	16542	MG/KG
ALUMINUM	7429905	16542	11100.0	NA	NA	16541	MG/KG
ANTIMONY	7440360	16541	ND	NA	0.7	16542	MG/KG
ANTIMONY	7440360	16542	ND	NA	0.7	16541	MG/KG
ARSENIC	7440382	16541	5.2	NA	NA	16542	MG/KG
ARSENIC	7440382	16542	9.2	NA	NA	16541	MG/KG
BARIUM	7440393	16541	617.0	NA	NA	16542	MG/KG
BARIUM	7440393	16542	582.0	NA	NA	16541	MG/KG
BERYLLIUM	7440417	16541	0.6	NA	NA	16542	MG/KG
BERYLLIUM	7440417	16542	0.7	NA	NA	16541	MG/KG
BISMUTH	7440699	16541	ND	NA	NA	16542	MG/KG
BISMUTH	7440699	16542	ND	NA	NA	16541	MG/KG
BORON	7440428	16541	6.2	NA	NA	16542	MG/KG
BORON	7440428	16542	39.2	NA	NA	16541	MG/KG
CADMIUM	7440439	16541	8.9	NA	NA	16542	MG/KG
CADMIUM	7440439	16542	9.0	NA	NA	16541	MG/KG
CALCIUM	7440702	16541	31000.0	NA	NA	16542	MG/KG
CALCIUM	7440702	16542	31900.0	NA	NA	16541	MG/KG
CERIUM	7440451	16541	ND	NA	NA	16542	MG/KG
CERIUM	7440451	16542	ND	NA	NA	16541	MG/KG
CHROMIUM	7440473	16541	112.0	NA	NA	16542	MG/KG
CHROMIUM	7440473	16542	341.0	NA	NA	16541	MG/KG
COBALT	7440484	16541	5.9	NA	NA	16542	MG/KG
COBALT	7440484	16542	5.8	NA	NA	16541	MG/KG
COPPER	7440508	16541	310.0	NA	NA	16542	MG/KG
COPPER	7440508	16542	322.0	NA	NA	16541	MG/KG
DYSPROSIUM	7429916	16541	ND	NA	NA	16542	MG/KG
DYSPROSIUM	7429916	16542	ND	NA	NA	16541	MG/KG
ERBIUM	7440520	16541	ND	NA	NA	16542	MG/KG
ERBIUM	7440520	16542	ND	NA	NA	16541	MG/KG
EUROPIUM	7440531	16541	ND	NA	NA	16542	MG/KG
EUROPIUM	7440531	16542	ND	NA	NA	16541	MG/KG

EPISODE: 1493

ANALYSIS TYPE: METALS

Analyte	CAS No.	Sample No.	Conc.	TEF Conc.	Minimum Level	DUP No.	Unit
GADOLINIUM	7440542	16541	ND	NA	NA	16542	MG/KG
GADOLINIUM	7440542	16542	ND	NA	NA	16541	MG/KG
GALLIUM	7440553	16541	ND	NA	NA	16542	MG/KG
GALLIUM	7440553	16542	ND	NA	NA	16541	MG/KG
GERMANIUM	7440564	16541	ND	NA	NA	16542	MG/KG
GERMANIUM	7440564	16542	ND	NA	NA	16541	MG/KG
GOLD	7440575	16541	ND	NA	NA	16542	MG/KG
GOLD	7440575	16542	ND	NA	NA	16541	MG/KG
HAFNIUM	7440586	16541	ND	NA	NA	16542	MG/KG
HAFNIUM	7440586	16542	ND	NA	NA	16541	MG/KG
HOLMIUM	7440600	16541	ND	NA	NA	16542	MG/KG
HOLMIUM	7440600	16542	ND	NA	NA	16541	MG/KG
INDIUM	7440746	16541	ND	NA	NA	16542	MG/KG
INDIUM	7440746	16542	ND	NA	NA	16541	MG/KG
IODINE	7553562	16541	ND	NA	NA	16542	MG/KG
IODINE	7553562	16542	ND	NA	NA	16541	MG/KG
IRIDIUM	7439885	16541	ND	NA	NA	16542	MG/KG
IRIDIUM	7439885	16542	ND	NA	NA	16541	MG/KG
IRON	7439896	16541	19400.0	NA	NA	16542	MG/KG
IRON	7439896	16542	19000.0	NA	NA	16541	MG/KG
LANTHANUM	7439910	16541	ND	NA	NA	16542	MG/KG
LANTHANUM	7439910	16542	ND	NA	NA	16541	MG/KG
LEAD	7439921	16541	259.0	NA	NA	16542	MG/KG
LEAD	7439921	16542	362.0	NA	NA	16541	MG/KG
LITHIUM	7439932	16541	ND	NA	NA	16542	MG/KG
LITHIUM	7439932	16542	ND	NA	NA	16541	MG/KG
LUTETIUM	7439943	16541	ND	NA	NA	16542	MG/KG
LUTETIUM	7439943	16542	ND	NA	NA	16541	MG/KG
MAGNESIUM	7439954	16541	4640.0	NA	NA	16542	MG/KG
MAGNESIUM	7439954	16542	4500.0	NA	NA	16541	MG/KG
MANGANESE	7439965	16541	1050.0	NA	NA	16542	MG/KG
MANGANESE	7439965	16542	1220.0	NA	NA	16541	MG/KG
MERCURY	7439976	16541	5.5	NA	NA	16542	MG/KG
MERCURY	7439976	16542	5.6	NA	NA	16541	MG/KG
MOLYBDENUM	7439987	16541	ND	NA	10.0	16542	MG/KG
MOLYBDENUM	7439987	16542	10.4	NA	NA	16541	MG/KG
NEODYMIUM	7440008	16541	ND	NA	NA	16542	MG/KG
NEODYMIUM	7440008	16542	ND	NA	NA	16541	MG/KG
NICKEL	7440020	16541	24.8	NA	NA	16542	MG/KG

Analyte	CAS No.	Sample No.	Conc.	TEF Conc.	Minimum Level	DUP No.	Unit
NICKEL	7440020	16542	31.6	NA	NA	16541	MG/KG
NIOBIUM	7440031	16541	ND	NA	NA	16542	MG/KG
NIOBIUM	7440031	16542	ND	NA	NA	16541	MG/KG
OSMIUM	7440042	16541	ND	NA	NA	16542	MG/KG
OSMIUM	7440042	16542	ND	NA	NA	16541	MG/KG
PALLADIUM	7440053	16541	ND	NA	NA	16542	MG/KG
PALLADIUM	7440053	16542	ND	NA	NA	16541	MG/KG
PHOSPHORUS	7723140	16541	ND	NA	NA	16542	MG/KG
PHOSPHORUS	7723140	16542	ND	NA	NA	16541	MG/KG
PLATINUM	7440064	16541	ND	NA	NA	16542	MG/KG
PLATINUM	7440064	16542	ND	NA	NA	16541	MG/KG
POTASSIUM	7440097	16541	ND	NA	NA	16542	MG/KG
POTASSIUM	7440097	16542	ND	NA	NA	16541	MG/KG
PRASEODYMIUM	7440100	16541	ND	NA	NA	16542	MG/KG
PRASEODYMIUM	7440100	16542	ND	NA	NA	16541	MG/KG
RHENIUM	7440155	16541	ND	NA	NA	16542	MG/KG
RHENIUM	7440155	16542	ND	NA	NA	16541	MG/KG
RHODIUM	7440166	16541	ND	NA	NA	16542	MG/KG
RHODIUM	7440166	16542	ND	NA	NA	16541	MG/KG
RUTHENIUM	7440188	16541	ND	NA	NA	16542	MG/KG
RUTHENIUM	7440188	16542	ND	NA	NA	16541	MG/KG
SAMARIUM	7440199	16541	ND	NA	NA	16542	MG/KG
SAMARIUM	7440199	16542	ND	NA	NA	16541	MG/KG
SCANDIUM	7440202	16541	ND	NA	NA	16542	MG/KG
SCANDIUM	7440202	16542	ND	NA	NA	16541	MG/KG
SELENIUM	7782492	16541	7.0	NA	NA	16542	MG/KG
SELENIUM	7782492	16542	5.0	NA	NA	16541	MG/KG
SILICON	7440213	16541	ND	NA	NA	16542	MG/KG
SILICON	7440213	16542	ND	NA	NA	16541	MG/KG
SILVER	7440224	16541	115.0	NA	NA	16542	MG/KG
SILVER	7440224	16542	97.2	NA	NA	16541	MG/KG
SODIUM	7440235	16541	974.0	NA	NA	16542	MG/KG
SODIUM	7440235	16542	18600.0	NA	NA	16541	MG/KG
STRONTIUM	7440246	16541	ND	NA	NA	16542	MG/KG
STRONTIUM	7440246	16542	ND	NA	NA	16541	MG/KG
SULFUR	7704349	16541	ND	NA	NA	16542	MG/KG
SULFUR	7704349	16542	ND	NA	NA	16541	MG/KG
TANTALUM	7440257	16541	ND	NA	NA	16542	MG/KG
TANTALUM	7440257	16542	ND	NA	NA	16541	MG/KG

Analyte	CAS No.	Sample No.	Conc.	TEF Conc.	Minimum Level	DUP No.	Unit
TELLURIUM	13494809	16541	ND	NA	NA	16542	MG/KG
TELLURIUM	13494809	16542	ND	NA	NA	16541	MG/KG
TERBIUM	7440279	16541	ND	NA	NA	16542	MG/KG
TERBIUM	7440279	16542	ND	NA	NA	16541	MG/KG
THALLIUM	7440280	16541	0.3	NA	NA	16542	MG/KG
THALLIUM	7440280	16542	5.2	NA	NA	16541	MG/KG
THORIUM	7440291	16541	ND	NA	NA	16542	MG/KG
THORIUM	7440291	16542	ND	NA	NA	16541	MG/KG
THULIUM	7440304	16541	ND	NA	NA	16542	MG/KG
THULIUM	7440304	16542	ND	NA	NA	16541	MG/KG
TIN	7440315	16541	56.0	NA	NA	16542	MG/KG
TIN	7440315	16542	63.2	NA	NA	16541	MG/KG
TITANIUM	7440326	16541	ND	NA	5.0	16542	MG/KG
TITANIUM	7440326	16542	88.6	NA	NA	16541	MG/KG
TUNGSTEN	7440337	16541	ND	NA	NA	16542	MG/KG
TUNGSTEN	7440337	16542	ND	NA	NA	16541	MG/KG
URANIUM	7440611	16541	ND	NA	NA	16542	MG/KG
URANIUM	7440611	16542	ND	NA	NA	16541	MG/KG
VANADIUM	7440622	16541	29.9	NA	NA	16542	MG/KG
VANADIUM	7440622	16542	28.1	NA	NA	16541	MG/KG
YTTERBIUM	7440644	16541	ND	NA	NA	16542	MG/KG
YTTERBIUM	7440644	16542	ND	NA	NA	16541	MG/KG
YTTRIUM	7440655	16541	5.7	NA	NA	16542	MG/KG
YTTRIUM	7440655	16542	8.9	NA	NA	16541	MG/KG
ZINC	7440666	16541	844.0	NA	NA	16542	MG/KG
ZINC	7440666	16542	910.0	NA	NA	16541	MG/KG
ZIRCONIUM	7440677	16541	ND	NA	NA	16542	MG/KG
ZIRCONIUM	7440677	16542	ND	NA	NA	16541	MG/KG

**USEPA
OFFICE OF WATER REGULATIONS AND STANDARDS
NATIONAL SEWAGE SLUDGE SURVEY
FACILITY ANALYTICAL RESULTS**

**EPISODE : 1493
SURVEY ID: 22-17-135**

**AUTHORITY:
CITY OF TOPEKA
FACILITY :
OAKLAND WWTP
1001 N E POPLAR
TOPEKA**

**ANALYSIS TYPE :
PESTICIDE/HERBICIDES**

KS 66616

Analyte	CAS No.	Sample No.	Conc.	TEF Conc.	Minimum Level	DUP No.	Unit
ACETIC ACID (2,4-DICHLOROPHENOXY)	94757	16541	13.2	NA	NA	16542	UG/KG
ACETIC ACID (2,4-DICHLOROPHENOXY)	94757	16542	9.4	NA	NA	16541	UG/KG
ALDRIN	309002	16541	ND	NA	4.1	16542	UG/KG
ALDRIN	309002	16542	ND	NA	4.1	16541	UG/KG
ALPHA-BHC	319846	16541	ND	NA	4.1	16542	UG/KG
ALPHA-BHC	319846	16542	ND	NA	4.1	16541	UG/KG
AZINPHOS ETHYL	2642719	16541	ND	NA	50.7	16542	UG/KG
AZINPHOS ETHYL	2642719	16542	ND	NA	50.0	16541	UG/KG
AZINPHOS METHYL	86500	16541	ND	NA	50.7	16542	UG/KG
AZINPHOS METHYL	86500	16542	ND	NA	50.0	16541	UG/KG
BETA-BHC	319857	16541	ND	NA	4.1	16542	UG/KG
BETA-BHC	319857	16542	ND	NA	4.1	16541	UG/KG
CAPTAFOL	2425061	16541	ND	NA	205.4	16542	UG/KG
CAPTAFOL	2425061	16542	ND	NA	202.6	16541	UG/KG
CAPTAN	133062	16541	ND	NA	41.1	16542	UG/KG
CAPTAN	133062	16542	ND	NA	40.5	16541	UG/KG
CARBOPHENOTHION (TRITHION)	786196	16541	ND	NA	205.4	16542	UG/KG
CARBOPHENOTHION (TRITHION)	786196	16542	ND	NA	202.6	16541	UG/KG
CHLORDANE	57749	16541	ND	NA	102.7	16542	UG/KG
CHLORDANE	57749	16542	ND	NA	101.3	16541	UG/KG
CHLOROBENZILATE	510156	16541	ND	NA	8.2	16542	UG/KG
CHLOROBENZILATE	510156	16542	ND	NA	8.1	16541	UG/KG
CHLOROFENVINPHOS	470906	16541	ND	NA	20.3	16542	UG/KG
CHLOROFENVINPHOS	470906	16542	ND	NA	20.0	16541	UG/KG
CHLORPYRIFOS	2921882	16541	ND	NA	20.3	16542	UG/KG
CHLORPYRIFOS	2921882	16542	ND	NA	20.0	16541	UG/KG
CIODRIN	7700176	16541	ND	NA	40.5	16542	UG/KG
CIODRIN	7700176	16542	ND	NA	40.0	16541	UG/KG
COUMAPHOS	56724	16541	ND	NA	40.5	16542	UG/KG
COUMAPHOS	56724	16542	ND	NA	40.0	16541	UG/KG
DELTA-BHC	319868	16541	ND	NA	10.3	16542	UG/KG
DELTA-BHC	319868	16542	ND	NA	10.1	16541	UG/KG

EPISODE: 1493

ANALYSIS TYPE: PESTICIDE/HERBICIDES

Analyte	CAS No.	Sample No.	Conc.	TEF Conc.	Minimum Level	DUP No.	Unit
DEMETON	8065483	16541	ND	NA	40.5	16542	UG/KG
DEMETON	8065483	16542	ND	NA	40.0	16541	UG/KG
DIALATE	2303164	16541	ND	NA	41.1	16542	UG/KG
DIALATE	2303164	16542	ND	NA	40.5	16541	UG/KG
DIAZINON	333415	16541	ND	NA	20.3	16542	UG/KG
DIAZINON	333415	16542	ND	NA	20.0	16541	UG/KG
DICHLORVOS	62737	16541	ND	NA	20.3	16542	UG/KG
DICHLORVOS	62737	16542	ND	NA	20.0	16541	UG/KG
DICROTOPHOS (BIDRIN)	141662	16541	ND	NA	116.9	16542	UG/KG
DICROTOPHOS (BIDRIN)	141662	16542	ND	NA	115.2	16541	UG/KG
DIELDRIN	60571	16541	ND	NA	4.1	16542	UG/KG
DIELDRIN	60571	16542	ND	NA	4.1	16541	UG/KG
DIMETHOATE	60515	16541	ND	NA	20.3	16542	UG/KG
DIMETHOATE	60515	16542	ND	NA	20.0	16541	UG/KG
DIOXATHION	78342	16541	ND	NA	162.2	16542	UG/KG
DIOXATHION	78342	16542	ND	NA	159.9	16541	UG/KG
DISULFOTON	298044	16541	ND	NA	20.3	16542	UG/KG
DISULFOTON	298044	16542	ND	NA	20.0	16541	UG/KG
ENDOSULFAN SULFATE	1031078	16541	ND	NA	20.5	16542	UG/KG
ENDOSULFAN SULFATE	1031078	16542	ND	NA	20.3	16541	UG/KG
ENDOSULFAN-I	959988	16541	ND	NA	20.5	16542	UG/KG
ENDOSULFAN-I	959988	16542	ND	NA	20.3	16541	UG/KG
ENDOSULFAN-II	33213659	16541	ND	NA	4.1	16542	UG/KG
ENDOSULFAN-II	33213659	16542	ND	NA	4.1	16541	UG/KG
ENDRIN	72208	16541	ND	NA	4.1	16542	UG/KG
ENDRIN	72208	16542	ND	NA	4.1	16541	UG/KG
ENDRIN ALDEHYDE	7421934	16541	ND	NA	10.3	16542	UG/KG
ENDRIN ALDEHYDE	7421934	16542	ND	NA	10.1	16541	UG/KG
ENDRIN KETONE	53494705	16541	ND	NA	20.5	16542	UG/KG
ENDRIN KETONE	53494705	16542	ND	NA	20.3	16541	UG/KG
ETHION	563122	16541	ND	NA	20.3	16542	UG/KG
ETHION	563122	16542	ND	NA	20.0	16541	UG/KG
FAMPHUR	52857	16541	ND	NA	20.3	16542	UG/KG
FAMPHUR	52857	16542	ND	NA	20.0	16541	UG/KG
FENSULFOTHION	115902	16541	ND	NA	50.7	16542	UG/KG
FENSULFOTHION	115902	16542	ND	NA	50.0	16541	UG/KG
FENTHION	55389	16541	ND	NA	20.3	16542	UG/KG
FENTHION	55389	16542	ND	NA	20.0	16541	UG/KG
HEPTACHLOR	76448	16541	ND	NA	8.2	16542	UG/KG

Analyte	CAS No.	Sample No.	Conc.	TEF Conc.	Minimum Level	DUP No.	Unit
HEPTACHLOR	76448	16542	ND	NA	8.1	16541	UG/KG
HEPTACHLOR EPOXIDE	1024573	16541	ND	NA	8.2	16542	UG/KG
HEPTACHLOR EPOXIDE	1024573	16542	ND	NA	8.1	16541	UG/KG
ISODRIN	465736	16541	ND	NA	20.5	16542	UG/KG
ISODRIN	465736	16542	ND	NA	20.3	16541	UG/KG
LEPTOPHOS	21609905	16541	ND	NA	25.0	16542	UG/KG
LEPTOPHOS	21609905	16542	ND	NA	24.7	16541	UG/KG
LINDANE (GAMMA-BHC)	58899	16541	ND	NA	10.3	16542	UG/KG
LINDANE (GAMMA-BHC)	58899	16542	ND	NA	10.1	16541	UG/KG
MALATHION	121755	16541	ND	NA	20.3	16542	UG/KG
MALATHION	121755	16542	ND	NA	20.0	16541	UG/KG
METHOXYCHLOR	72435	16541	ND	NA	20.5	16542	UG/KG
METHOXYCHLOR	72435	16542	ND	NA	20.3	16541	UG/KG
METHYL PARATHION	298000	16541	ND	NA	20.3	16542	UG/KG
METHYL PARATHION	298000	16542	ND	NA	20.0	16541	UG/KG
MEVINPHOS (PHOSDRIN)	7786347	16541	ND	NA	20.3	16542	UG/KG
MEVINPHOS (PHOSDRIN)	7786347	16542	ND	NA	20.0	16541	UG/KG
MIREX	2385855	16541	ND	NA	20.5	16542	UG/KG
MIREX	2385855	16542	ND	NA	20.3	16541	UG/KG
MONOCROTOPHOS	6923224	16541	ND	NA	608.3	16542	UG/KG
MONOCROTOPHOS	6923224	16542	ND	NA	599.5	16541	UG/KG
NALED (DIBROM)	300765	16541	ND	NA	138.4	16542	UG/KG
NALED (DIBROM)	300765	16542	ND	NA	136.4	16541	UG/KG
NITROFEN (TOK)	1836755	16541	ND	NA	8.2	16542	UG/KG
NITROFEN (TOK)	1836755	16542	ND	NA	8.1	16541	UG/KG
PARATHION	56382	16541	ND	NA	40.5	16542	UG/KG
PARATHION	56382	16542	ND	NA	40.0	16541	UG/KG
PCB-1016	12674112	16541	ND	NA	82.2	16542	UG/KG
PCB-1016	12674112	16542	ND	NA	81.0	16541	UG/KG
PCB-1221	11104282	16541	ND	NA	82.2	16542	UG/KG
PCB-1221	11104282	16542	ND	NA	81.0	16541	UG/KG
PCB-1232	11141165	16541	ND	NA	82.2	16542	UG/KG
PCB-1232	11141165	16542	ND	NA	81.0	16541	UG/KG
PCB-1242	53469219	16541	ND	NA	82.2	16542	UG/KG
PCB-1242	53469219	16542	ND	NA	81.0	16541	UG/KG
PCB-1248	12672296	16541	ND	NA	82.2	16542	UG/KG
PCB-1248	12672296	16542	ND	NA	81.0	16541	UG/KG
PCB-1254	11097691	16541	700.7	NA	NA	16542	UG/KG
PCB-1254	11097691	16542	631.7	NA	NA	16541	UG/KG

Analyte	CAS No.	Sample No.	Conc.	TEF Conc.	Minimum Level	DUP No.	Unit
PCB-1260	11096825	16541	ND	NA	82.2	16542	UG/KG
PCB-1260	11096825	16542	ND	NA	81.0	16541	UG/KG
PENTACHLORONITROBENZENE	82688	16541	ND	NA	8.2	16542	UG/KG
PENTACHLORONITROBENZENE	82688	16542	ND	NA	8.1	16541	UG/KG
PHORATE	298022	16541	ND	NA	20.3	16542	UG/KG
PHORATE	298022	16542	ND	NA	20.0	16541	UG/KG
PHOSMET	732116	16541	ND	NA	40.5	16542	UG/KG
PHOSMET	732116	16542	ND	NA	40.0	16541	UG/KG
PHOSPHAMIDON	13171216	16541	ND	NA	121.7	16542	UG/KG
PHOSPHAMIDON	13171216	16542	ND	NA	119.9	16541	UG/KG
PHOSPHORIC ACID, TRI-O-TOLYL ESTER	78308	16541	ND	NA	286.2	16542	UG/KG
PHOSPHORIC ACID, TRI-O-TOLYL ESTER	78308	16542	ND	NA	282.1	16541	UG/KG
PHOSPHORIC ACID, TRIMETHYL ESTER	512561	16541	ND	NA	28.6	16542	UG/KG
PHOSPHORIC ACID, TRIMETHYL ESTER	512561	16542	ND	NA	28.2	16541	UG/KG
PHOSPHORIC TRIAMIDE, HEXAMETHYL-	680319	16541	ND	NA	101.4	16542	UG/KG
PHOSPHORIC TRIAMIDE, HEXAMETHYL-	680319	16542	ND	NA	99.9	16541	UG/KG
SANTOX (EPN)	2104645	16541	ND	NA	20.3	16542	UG/KG
SANTOX (EPN)	2104645	16542	ND	NA	20.0	16541	UG/KG
TERBUFOS	13071799	16541	ND	NA	20.3	16542	UG/KG
TERBUFOS	13071799	16542	ND	NA	20.0	16541	UG/KG
TETRACHLORVINPHOS	961115	16541	ND	NA	20.3	16542	UG/KG
TETRACHLORVINPHOS	961115	16542	ND	NA	20.0	16541	UG/KG
TETRAETHYLDITHIOPYROPHOSPHATE	3689245	16541	ND	NA	20.3	16542	UG/KG
TETRAETHYLDITHIOPYROPHOSPHATE	3689245	16542	ND	NA	20.0	16541	UG/KG
TETRAETHYLPYROPHOSPHATE	107493	16541	ND	NA	548.6	16542	UG/KG
TETRAETHYLPYROPHOSPHATE	107493	16542	ND	NA	540.7	16541	UG/KG
TOXAPHENE	8001352	16541	ND	NA	410.8	16542	UG/KG
TOXAPHENE	8001352	16542	ND	NA	405.2	16541	UG/KG
TRICHLOROFON	52686	16541	ND	NA	217.1	16542	UG/KG
TRICHLOROFON	52686	16542	ND	NA	213.9	16541	UG/KG
TRIFLURALIN (TRELAN)	1582098	16541	ND	NA	20.5	16542	UG/KG
TRIFLURALIN (TRELAN)	1582098	16542	ND	NA	20.3	16541	UG/KG
1,4-NAPHTHOQUINONE, 2,3-DICHLORO-	117806	16541	ND	NA	102.7	16542	UG/KG
1,4-NAPHTHOQUINONE, 2,3-DICHLORO-	117806	16542	ND	NA	101.3	16541	UG/KG
2,4,5-TRICHLOROPHENOXYACETIC ACID	93765	16541	8.8	NA	NA	16542	UG/KG
2,4,5-TRICHLOROPHENOXYACETIC ACID	93765	16542	ND	NA	4.0	16541	UG/KG
2,4,5-TRICHLOROPHENOXYPROPIONIC ACID	93721	16541	ND	NA	4.1	16542	UG/KG
2,4,5-TRICHLOROPHENOXYPROPIONIC ACID	93721	16542	ND	NA	4.0	16541	UG/KG
4,4'-DDD	72548	16541	ND	NA	20.5	16542	UG/KG
4,4'-DDD	72548	16542	ND	NA	20.3	16541	UG/KG

Analyte	CAS No.	Sample No.	Conc.	TEF Conc.	Minimum Level	DUP No.	Unit
4,4'-DDE	72559	16541	ND	NA	20.5	16542	UG/KG
4,4'-DDE	72559	16542	ND	NA	20.3	16541	UG/KG
4,4'-DDT	50293	16541	ND	NA	8.2	16542	UG/KG
4,4'-DDT	50293	16542	ND	NA	8.1	16541	UG/KG

**USEPA
OFFICE OF WATER REGULATIONS AND STANDARDS
NATIONAL SEWAGE SLUDGE SURVEY
FACILITY ANALYTICAL RESULTS**

**EPISODE : 1493
SURVEY ID: 22-17-135**

**AUTHORITY:
CITY OF TOPEKA
FACILITY :
OAKLAND WWTP
1001 N E POPLAR
TOPEKA**

**ANALYSIS TYPE :
SEMIVOLATILE ORGANICS**

KS 66616

Analyte	CAS No.	Sample No.	Conc.	TEF Conc.	Minimum Level	DUP No.	Unit
ACENAPHTHENE	83329	16541	ND	NA	4166.7	16542	UG/KG
ACENAPHTHENE	83329	16542	ND	NA	4166.7	16541	UG/KG
ACENAPHTHYLENE	208968	16541	ND	NA	4166.7	16542	UG/KG
ACENAPHTHYLENE	208968	16542	ND	NA	4166.7	16541	UG/KG
ACETOPHENONE	98862	16541	ND	NA	4166.7	16542	UG/KG
ACETOPHENONE	98862	16542	ND	NA	4166.7	16541	UG/KG
ALPHA-TERPINEOL	98555	16541	ND	NA	4166.7	16542	UG/KG
ALPHA-TERPINEOL	98555	16542	ND	NA	4166.7	16541	UG/KG
ANILINE	62533	16541	ND	NA	4166.7	16542	UG/KG
ANILINE	62533	16542	ND	NA	4166.7	16541	UG/KG
ANILINE, 2,4,5-TRIMETHYL-	137177	16541	ND	NA	8333.3	16542	UG/KG
ANILINE, 2,4,5-TRIMETHYL-	137177	16542	ND	NA	8333.3	16541	UG/KG
ANTHRACENE	120127	16541	ND	NA	4166.7	16542	UG/KG
ANTHRACENE	120127	16542	ND	NA	4166.7	16541	UG/KG
ARAMITE	140578	16541	ND	NA	20833.3	16542	UG/KG
ARAMITE	140578	16542	ND	NA	20833.3	16541	UG/KG
BENZANTHRONE	82053	16541	ND	NA	20833.3	16542	UG/KG
BENZANTHRONE	82053	16542	ND	NA	20833.3	16541	UG/KG
BENZENETHIOL	108985	16541	ND	NA	4166.7	16542	UG/KG
BENZENETHIOL	108985	16542	ND	NA	4166.7	16541	UG/KG
BENZIDINE	92875	16541	ND	NA	20833.3	16542	UG/KG
BENZIDINE	92875	16542	ND	NA	20833.3	16541	UG/KG
BENZO(A)ANTHRACENE	56553	16541	ND	NA	4166.7	16542	UG/KG
BENZO(A)ANTHRACENE	56553	16542	ND	NA	4166.7	16541	UG/KG
BENZO(A)PYRENE	50328	16541	ND	NA	4166.7	16542	UG/KG
BENZO(A)PYRENE	50328	16542	ND	NA	4166.7	16541	UG/KG
BENZO(B)FLUORANTHENE	205992	16541	ND	NA	4166.7	16542	UG/KG
BENZO(B)FLUORANTHENE	205992	16542	ND	NA	4166.7	16541	UG/KG
BENZO(GHI)PERYLENE	191242	16541	ND	NA	8333.3	16542	UG/KG
BENZO(GHI)PERYLENE	191242	16542	ND	NA	8333.3	16541	UG/KG
BENZO(K)FLUORANTHENE	207089	16541	ND	NA	4166.7	16542	UG/KG
BENZO(K)FLUORANTHENE	207089	16542	ND	NA	4166.7	16541	UG/KG

EPISODE: 1493

ANALYSIS TYPE: SEMIVOLATILE ORGANICS

Analyte	CAS No.	Sample No.	Conc.	TEF Conc.	Minimum Level	DUP No.	Unit
BENZOIC ACID	65850	16541	ND	NA	20833.3	16542	UG/KG
BENZOIC ACID	65850	16542	ND	NA	20833.3	16541	UG/KG
BENZONITRILE, 3,5-DIBROMO-4-HYDROXY-	1689845	16541	ND	NA	20833.3	16542	UG/KG
BENZONITRILE, 3,5-DIBROMO-4-HYDROXY-	1689845	16542	ND	NA	20833.3	16541	UG/KG
BENZYL ALCOHOL	100516	16541	ND	NA	4166.7	16542	UG/KG
BENZYL ALCOHOL	100516	16542	ND	NA	4166.7	16541	UG/KG
BETA-NAPHTHYLAMINE	91598	16541	ND	NA	20833.3	16542	UG/KG
BETA-NAPHTHYLAMINE	91598	16542	ND	NA	20833.3	16541	UG/KG
BIPHENYL	92524	16541	ND	NA	4166.7	16542	UG/KG
BIPHENYL	92524	16542	ND	NA	4166.7	16541	UG/KG
BIPHENYL, 4-NITRO	92933	16541	ND	NA	4166.7	16542	UG/KG
BIPHENYL, 4-NITRO	92933	16542	ND	NA	4166.7	16541	UG/KG
BIS(2-CHLOROETHOXY)METHANE	111911	16541	ND	NA	4166.7	16542	UG/KG
BIS(2-CHLOROETHOXY)METHANE	111911	16542	ND	NA	4166.7	16541	UG/KG
BIS(2-CHLOROETHYL) ETHER	111444	16541	ND	NA	4166.7	16542	UG/KG
BIS(2-CHLOROETHYL) ETHER	111444	16542	ND	NA	4166.7	16541	UG/KG
BIS(2-CHLOROISOPROPYL) ETHER	108601	16541	ND	NA	4166.7	16542	UG/KG
BIS(2-CHLOROISOPROPYL) ETHER	108601	16542	ND	NA	4166.7	16541	UG/KG
BIS(2-ETHYLHEXYL) PHTHALATE	117817	16541	146757.5	NA	NA	16542	UG/KG
BIS(2-ETHYLHEXYL) PHTHALATE	117817	16542	147985.8	NA	NA	16541	UG/KG
BUTYL BENZYL PHTHALATE	85687	16541	ND	NA	4166.7	16542	UG/KG
BUTYL BENZYL PHTHALATE	85687	16542	ND	NA	4166.7	16541	UG/KG
CARBAZOLE	86748	16541	ND	NA	8333.3	16542	UG/KG
CARBAZOLE	86748	16542	ND	NA	8333.3	16541	UG/KG
CHRYSENE	218019	16541	ND	NA	4166.7	16542	UG/KG
CHRYSENE	218019	16542	ND	NA	4166.7	16541	UG/KG
CROTOXYPHOS	7700176	16541	ND	NA	41250.0	16542	UG/KG
CROTOXYPHOS	7700176	16542	ND	NA	41250.0	16541	UG/KG
DI-N-BUTYL PHTHALATE	84742	16541	ND	NA	4166.7	16542	UG/KG
DI-N-BUTYL PHTHALATE	84742	16542	ND	NA	4166.7	16541	UG/KG
DI-N-OCTYL PHTHALATE	117840	16541	ND	NA	4166.7	16542	UG/KG
DI-N-OCTYL PHTHALATE	117840	16542	ND	NA	4166.7	16541	UG/KG
DI-N-PROPYLNITROSAMINE	621647	16541	ND	NA	8333.3	16542	UG/KG
DI-N-PROPYLNITROSAMINE	621647	16542	ND	NA	8333.3	16541	UG/KG
DIBENZO(A,H)ANTHRACENE	53703	16541	ND	NA	8333.3	16542	UG/KG
DIBENZO(A,H)ANTHRACENE	53703	16542	ND	NA	8333.3	16541	UG/KG
DIBENZOFURAN	132649	16541	ND	NA	4166.7	16542	UG/KG
DIBENZOFURAN	132649	16542	ND	NA	4166.7	16541	UG/KG
DIBENZOTHIOPHENE	132650	16541	ND	NA	4166.7	16542	UG/KG

Analyte	CAS No.	Sample No.	Conc.	TEF Conc.	Minimum Level	DUP No.	Unit
DIBENZOTHIOPHENE	132650	16542	ND	NA	4166.7	16541	UG/KG
DIETHYL PHTHALATE	84662	16541	ND	NA	4166.7	16542	UG/KG
DIETHYL PHTHALATE	84662	16542	ND	NA	4166.7	16541	UG/KG
DIMETHYL PHTHALATE	131113	16541	ND	NA	4166.7	16542	UG/KG
DIMETHYL PHTHALATE	131113	16542	ND	NA	4166.7	16541	UG/KG
DIMETHYL SULFONE	67710	16541	ND	NA	4166.7	16542	UG/KG
DIMETHYL SULFONE	67710	16542	ND	NA	4166.7	16541	UG/KG
DIPHENYL ETHER	101848	16541	ND	NA	4166.7	16542	UG/KG
DIPHENYL ETHER	101848	16542	ND	NA	4166.7	16541	UG/KG
DIPHENYLAMINE	122394	16541	ND	NA	4166.7	16542	UG/KG
DIPHENYLAMINE	122394	16542	ND	NA	4166.7	16541	UG/KG
DIPHENYLDISULFIDE	882337	16541	ND	NA	8333.3	16542	UG/KG
DIPHENYLDISULFIDE	882337	16542	ND	NA	8333.3	16541	UG/KG
ETHANE, PENTACHLORO-	76017	16541	ND	NA	8333.3	16542	UG/KG
ETHANE, PENTACHLORO-	76017	16542	ND	NA	8333.3	16541	UG/KG
ETHYL METHANESULFONATE	62500	16541	ND	NA	8333.3	16542	UG/KG
ETHYL METHANESULFONATE	62500	16542	ND	NA	8333.3	16541	UG/KG
ETHYLENETHIOUREA	96457	16541	ND	NA	8333.3	16542	UG/KG
ETHYLENETHIOUREA	96457	16542	ND	NA	8333.3	16541	UG/KG
FLUORANTHENE	206440	16541	ND	NA	4166.7	16542	UG/KG
FLUORANTHENE	206440	16542	ND	NA	4166.7	16541	UG/KG
FLUORENE	86737	16541	ND	NA	4166.7	16542	UG/KG
FLUORENE	86737	16542	ND	NA	4166.7	16541	UG/KG
HEXACHLOROBENZENE	118741	16541	ND	NA	4166.7	16542	UG/KG
HEXACHLOROBENZENE	118741	16542	ND	NA	4166.7	16541	UG/KG
HEXACHLOROBUTADIENE	87683	16541	ND	NA	4166.7	16542	UG/KG
HEXACHLOROBUTADIENE	87683	16542	ND	NA	4166.7	16541	UG/KG
HEXACHLOROCYCLOPENTADIENE	77474	16541	ND	NA	4166.7	16542	UG/KG
HEXACHLOROCYCLOPENTADIENE	77474	16542	ND	NA	4166.7	16541	UG/KG
HEXACHLOROETHANE	67721	16541	ND	NA	4166.7	16542	UG/KG
HEXACHLOROETHANE	67721	16542	ND	NA	4166.7	16541	UG/KG
HEXACHLOROPROPENE	1888717	16541	ND	NA	8333.3	16542	UG/KG
HEXACHLOROPROPENE	1888717	16542	ND	NA	8333.3	16541	UG/KG
HEXANOIC ACID	142621	16541	ND	NA	4166.7	16542	UG/KG
HEXANOIC ACID	142621	16542	ND	NA	4166.7	16541	UG/KG
INDENO(1,2,3-CD)PYRENE	193395	16541	ND	NA	8333.3	16542	UG/KG
INDENO(1,2,3-CD)PYRENE	193395	16542	ND	NA	8333.3	16541	UG/KG
ISOPHORONE	78591	16541	ND	NA	4166.7	16542	UG/KG
ISOPHORONE	78591	16542	ND	NA	4166.7	16541	UG/KG

Analyte	CAS No.	Sample No.	Conc.	TEF Conc.	Minimum Level	DUP No.	Unit
ISOSAFROLE	120581	16541	ND	NA	4166.7	16542	UG/KG
ISOSAFROLE	120581	16542	ND	NA	4166.7	16541	UG/KG
LONGIFOLENE	475207	16541	ND	NA	20833.3	16542	UG/KG
LONGIFOLENE	475207	16542	ND	NA	20833.3	16541	UG/KG
MALACHITE GREEN	569642	16541	ND	NA	4166.7	16542	UG/KG
MALACHITE GREEN	569642	16542	ND	NA	4166.7	16541	UG/KG
MESTRANOL	72333	16541	ND	NA	8333.3	16542	UG/KG
MESTRANOL	72333	16542	ND	NA	8333.3	16541	UG/KG
METHAPYRILENE	91805	16541	ND	NA	4166.7	16542	UG/KG
METHAPYRILENE	91805	16542	ND	NA	4166.7	16541	UG/KG
METHYL METHANESULFONATE	66273	16541	ND	NA	8333.3	16542	UG/KG
METHYL METHANESULFONATE	66273	16542	ND	NA	8333.3	16541	UG/KG
N-DECANE	124185	16541	ND	NA	4166.7	16542	UG/KG
N-DECANE	124185	16542	ND	NA	4166.7	16541	UG/KG
N-DOCOSANE	629970	16541	ND	NA	4166.7	16542	UG/KG
N-DOCOSANE	629970	16542	ND	NA	4166.7	16541	UG/KG
N-DODECANE	112403	16541	ND	NA	4166.7	16542	UG/KG
N-DODECANE	112403	16542	ND	NA	4166.7	16541	UG/KG
N-EICOSANE	112958	16541	ND	NA	4166.7	16542	UG/KG
N-EICOSANE	112958	16542	ND	NA	4166.7	16541	UG/KG
N-HEXACOSANE	630013	16541	ND	NA	4166.7	16542	UG/KG
N-HEXACOSANE	630013	16542	ND	NA	4166.7	16541	UG/KG
N-HEXADECANE	544763	16541	ND	NA	4166.7	16542	UG/KG
N-HEXADECANE	544763	16542	ND	NA	4166.7	16541	UG/KG
N-NITROSODI-N-BUTYLAMINE	924163	16541	ND	NA	4166.7	16542	UG/KG
N-NITROSODI-N-BUTYLAMINE	924163	16542	ND	NA	4166.7	16541	UG/KG
N-NITROSODIETHYLAMINE	55185	16541	ND	NA	4166.7	16542	UG/KG
N-NITROSODIETHYLAMINE	55185	16542	ND	NA	4166.7	16541	UG/KG
N-NITROSODIMETHYLAMINE	62759	16541	ND	NA	20833.3	16542	UG/KG
N-NITROSODIMETHYLAMINE	62759	16542	ND	NA	20833.3	16541	UG/KG
N-NITROSODIPHENYLAMINE	86306	16541	ND	NA	8333.3	16542	UG/KG
N-NITROSODIPHENYLAMINE	86306	16542	ND	NA	8333.3	16541	UG/KG
N-NITROSOMETHYLETHYLAMINE	10595956	16541	ND	NA	4166.7	16542	UG/KG
N-NITROSOMETHYLETHYLAMINE	10595956	16542	ND	NA	4166.7	16541	UG/KG
N-NITROSOMETHYLPHENYLAMINE	614006	16541	ND	NA	41250.0	16542	UG/KG
N-NITROSOMETHYLPHENYLAMINE	614006	16542	ND	NA	41250.0	16541	UG/KG
N-NITROSOMORPHOLINE	59892	16541	ND	NA	4166.7	16542	UG/KG
N-NITROSOMORPHOLINE	59892	16542	ND	NA	4166.7	16541	UG/KG
N-NITROSOPIPERIDINE	100754	16541	ND	NA	4166.7	16542	UG/KG
N-NITROSOPIPERIDINE	100754	16542	ND	NA	4166.7	16541	UG/KG

Analyte	CAS No.	Sample No.	Conc.	TEF Conc.	Minimum Level	DUP No.	Unit
N-OCTACOSANE	630024	16541	ND	NA	4166.7	16542	UG/KG
N-OCTACOSANE	630024	16542	ND	NA	4166.7	16541	UG/KG
N-OCTADECANE	593453	16541	ND	NA	4166.7	16542	UG/KG
N-OCTADECANE	593453	16542	ND	NA	4166.7	16541	UG/KG
N-TETRACOSANE	646311	16541	ND	NA	4166.7	16542	UG/KG
N-TETRACOSANE	646311	16542	ND	NA	4166.7	16541	UG/KG
N-TETRADECANE	629594	16541	ND	NA	4166.7	16542	UG/KG
N-TETRADECANE	629594	16542	ND	NA	4166.7	16541	UG/KG
N-TRIACONTANE	638686	16541	ND	NA	4166.7	16542	UG/KG
N-TRIACONTANE	638686	16542	ND	NA	4166.7	16541	UG/KG
N,N-DIMETHYLFORMAMIDE	68122	16541	ND	NA	4166.7	16542	UG/KG
N,N-DIMETHYLFORMAMIDE	68122	16542	ND	NA	4166.7	16541	UG/KG
NAPHTHALENE	91203	16541	ND	NA	4166.7	16542	UG/KG
NAPHTHALENE	91203	16542	ND	NA	4166.7	16541	UG/KG
NITROBENZENE	98953	16541	ND	NA	4166.7	16542	UG/KG
NITROBENZENE	98953	16542	ND	NA	4166.7	16541	UG/KG
O-ANISIDINE	90040	16541	ND	NA	4166.7	16542	UG/KG
O-ANISIDINE	90040	16542	ND	NA	4166.7	16541	UG/KG
O-CRESOL	95487	16541	ND	NA	4166.7	16542	UG/KG
O-CRESOL	95487	16542	ND	NA	4166.7	16541	UG/KG
O-TOLUIDINE	95534	16541	ND	NA	4166.7	16542	UG/KG
O-TOLUIDINE	95534	16542	ND	NA	4166.7	16541	UG/KG
O-TOLUIDINE, 5-CHLORO-	95794	16541	ND	NA	4166.7	16542	UG/KG
O-TOLUIDINE, 5-CHLORO-	95794	16542	ND	NA	4166.7	16541	UG/KG
P-CHLOROANILINE	106478	16541	ND	NA	4166.7	16542	UG/KG
P-CHLOROANILINE	106478	16542	ND	NA	4166.7	16541	UG/KG
P-CRESOL	106445	16541	ND	NA	4166.7	16542	UG/KG
P-CRESOL	106445	16542	ND	NA	4166.7	16541	UG/KG
P-CYMENE	99876	16541	ND	NA	4166.7	16542	UG/KG
P-CYMENE	99876	16542	ND	NA	4166.7	16541	UG/KG
P-DIMETHYLAMINOAZOBENZENE	60117	16541	ND	NA	8333.3	16542	UG/KG
P-DIMETHYLAMINOAZOBENZENE	60117	16542	ND	NA	8333.3	16541	UG/KG
P-NITROANILINE	100016	16541	ND	NA	20833.3	16542	UG/KG
P-NITROANILINE	100016	16542	ND	NA	20833.3	16541	UG/KG
PENTACHLOROBENZENE	608935	16541	ND	NA	8333.3	16542	UG/KG
PENTACHLOROBENZENE	608935	16542	ND	NA	8333.3	16541	UG/KG
PENTACHLOROPHENOL	87865	16541	ND	NA	20833.3	16542	UG/KG
PENTACHLOROPHENOL	87865	16542	ND	NA	20833.3	16541	UG/KG
PENTAMETHYLBENZENE	700129	16541	ND	NA	4166.7	16542	UG/KG

Analyte	CAS No.	Sample No.	Conc.	TEF	Minimum Conc. Level	DUP No.	Unit
PENTAMETHYLBENZENE	700129	16542	ND	NA	4166.7	16541	UG/KG
PERYLENE	198550	16541	ND	NA	4166.7	16542	UG/KG
PERYLENE	198550	16542	ND	NA	4166.7	16541	UG/KG
PHENACETIN	62442	16541	ND	NA	4166.7	16542	UG/KG
PHENACETIN	62442	16542	ND	NA	4166.7	16541	UG/KG
PHENANTHRENE	85018	16541	ND	NA	4166.7	16542	UG/KG
PHENANTHRENE	85018	16542	ND	NA	4166.7	16541	UG/KG
PHENOL	108952	16541	ND	NA	4166.7	16542	UG/KG
PHENOL	108952	16542	ND	NA	4166.7	16541	UG/KG
PHENOL, 2-METHYL-4,6-DINITRO-	534521	16541	ND	NA	8333.3	16542	UG/KG
PHENOL, 2-METHYL-4,6-DINITRO-	534521	16542	ND	NA	8333.3	16541	UG/KG
PHENOTHIAZINE	92842	16541	ND	NA	20833.3	16542	UG/KG
PHENOTHIAZINE	92842	16542	ND	NA	20833.3	16541	UG/KG
PRONAMIDE	23950585	16541	ND	NA	4166.7	16542	UG/KG
PRONAMIDE	23950585	16542	ND	NA	4166.7	16541	UG/KG
PYRENE	129000	16541	ND	NA	4166.7	16542	UG/KG
PYRENE	129000	16542	ND	NA	4166.7	16541	UG/KG
PYRIDINE	110861	16541	ND	NA	4166.7	16542	UG/KG
PYRIDINE	110861	16542	ND	NA	4166.7	16541	UG/KG
RESORCINOL	108463	16541	ND	NA	20833.3	16542	UG/KG
RESORCINOL	108463	16542	ND	NA	20833.3	16541	UG/KG
SAFROLE	94597	16541	ND	NA	4166.7	16542	UG/KG
SAFROLE	94597	16542	ND	NA	4166.7	16541	UG/KG
SQUALENE	7683649	16541	ND	NA	41250.0	16542	UG/KG
SQUALENE	7683649	16542	ND	NA	41250.0	16541	UG/KG
STYRENE	100425	16541	ND	NA	4166.7	16542	UG/KG
STYRENE	100425	16542	ND	NA	4166.7	16541	UG/KG
THIANAPHTHENE	95158	16541	ND	NA	4166.7	16542	UG/KG
THIANAPHTHENE	95158	16542	ND	NA	4166.7	16541	UG/KG
THIOACETAMIDE	62555	16541	ND	NA	8333.3	16542	UG/KG
THIOACETAMIDE	62555	16542	ND	NA	8333.3	16541	UG/KG
THIOXANTHE-9-ONE	492228	16541	ND	NA	8333.3	16542	UG/KG
THIOXANTHE-9-ONE	492228	16542	ND	NA	8333.3	16541	UG/KG
TOLUENE, 2,4-DIAMINO-	95807	16541	ND	NA	41250.0	16542	UG/KG
TOLUENE, 2,4-DIAMINO-	95807	16542	ND	NA	41250.0	16541	UG/KG
TRIPHENYLENF	217594	16541	ND	NA	4166.7	16542	UG/KG
TRIPHENYLENE	217594	16542	ND	NA	4166.7	16541	UG/KG
TRIPROPYLENEGLYCOL METHYL ETHER	20324338	16541	ND	NA	41250.0	16542	UG/KG
TRIPROPYLENEGLYCOL METHYL ETHER	20324338	16542	ND	NA	41250.0	16541	UG/KG

Analyte	CAS No.	Sample No.	Conc.	TEF Conc.	Minimum Level	DUP No.	Unit
1-BROMO-2-CHLOROBENZENE	694804	16541	ND	NA	4166.7	16542	UG/KG
1-BROMO-2-CHLOROBENZENE	694804	16542	ND	NA	4166.7	16541	UG/KG
1-BROMO-3-CHLOROBENZENE	108372	16541	ND	NA	4166.7	16542	UG/KG
1-BROMO-3-CHLOROBENZENE	108372	16542	ND	NA	4166.7	16541	UG/KG
1-CHLORO-3-NITROBENZENE	121733	16541	ND	NA	20833.3	16542	UG/KG
1-CHLORO-3-NITROBENZENE	121733	16542	ND	NA	20833.3	16541	UG/KG
1-METHYLFLUORENE	1730376	16541	ND	NA	4166.7	16542	UG/KG
1-METHYLFLUORENE	1730376	16542	ND	NA	4166.7	16541	UG/KG
1-METHYLPHENANTHRENE	832699	16541	ND	NA	4166.7	16542	UG/KG
1-METHYLPHENANTHRENE	832699	16542	ND	NA	4166.7	16541	UG/KG
1-NAPHTHYLAMINE	134327	16541	ND	NA	4166.7	16542	UG/KG
1-NAPHTHYLAMINE	134327	16542	ND	NA	4166.7	16541	UG/KG
1-PHENYLNAPHTHALENE	605027	16541	ND	NA	4166.7	16542	UG/KG
1-PHENYLNAPHTHALENE	605027	16542	ND	NA	4166.7	16541	UG/KG
1,2-DIBROMO-3-CHLOROPROPANE	96128	16541	ND	NA	8333.3	16542	UG/KG
1,2-DIBROMO-3-CHLOROPROPANE	96128	16542	ND	NA	8333.3	16541	UG/KG
1,2-DICHLOROBENZENE	95501	16541	ND	NA	4166.7	16542	UG/KG
1,2-DICHLOROBENZENE	95501	16542	ND	NA	4166.7	16541	UG/KG
1,2-DIPHENYLHYDRAZINE	122667	16541	ND	NA	8333.3	16542	UG/KG
1,2-DIPHENYLHYDRAZINE	122667	16542	ND	NA	8333.3	16541	UG/KG
1,2,3-TRICHLOROBENZENE	87616	16541	ND	NA	4166.7	16542	UG/KG
1,2,3-TRICHLOROBENZENE	87616	16542	ND	NA	4166.7	16541	UG/KG
1,2,3-TRIMETHOXYBENZENE	634366	16541	ND	NA	4166.7	16542	UG/KG
1,2,3-TRIMETHOXYBENZENE	634366	16542	ND	NA	4166.7	16541	UG/KG
1,2,4-TRICHLOROBENZENE	120821	16541	ND	NA	4166.7	16542	UG/KG
1,2,4-TRICHLOROBENZENE	120821	16542	ND	NA	4166.7	16541	UG/KG
1,2,4,5-TETRACHLOROBENZENE	95943	16541	ND	NA	4166.7	16542	UG/KG
1,2,4,5-TETRACHLOROBENZENE	95943	16542	ND	NA	4166.7	16541	UG/KG
1,2:3,4-DIEPOXYBUTANE	1464535	16541	ND	NA	8333.3	16542	UG/KG
1,2:3,4-DIEPOXYBUTANE	1464535	16542	ND	NA	8333.3	16541	UG/KG
1,3-DICHLORO-2-PROPANOL	96231	16541	ND	NA	4166.7	16542	UG/KG
1,3-DICHLORO-2-PROPANOL	96231	16542	ND	NA	4166.7	16541	UG/KG
1,3-DICHLOROBENZENE	541731	16541	ND	NA	4166.7	16542	UG/KG
1,3-DICHLOROBENZENE	541731	16542	ND	NA	4166.7	16541	UG/KG
1,3,5-TRITHIANE	291214	16541	ND	NA	20833.3	16542	UG/KG
1,3,5-TRITHIANE	291214	16542	ND	NA	20833.3	16541	UG/KG
1,4-DICHLOROBENZENE	106467	16541	ND	NA	4166.7	16542	UG/KG
1,4-DICHLOROBENZENE	106467	16542	ND	NA	4166.7	16541	UG/KG
1,4-DINITROBENZENE	100254	16541	ND	NA	8333.3	16542	UG/KG
1,4-DINITROBENZENE	100254	16542	ND	NA	8333.3	16541	UG/KG

Analyte	CAS No.	Sample No.	Conc.	TEF Conc.	Minimum Level	DUP No.	Unit
1,4-NAPHTHOQUINONE	130154	16541	ND	NA	41250.0	16542	UG/KG
1,4-NAPHTHOQUINONE	130154	16542	ND	NA	41250.0	16541	UG/KG
1,5-NAPHTHALENEDIAMINE	2243621	16541	ND	NA	41250.0	16542	UG/KG
1,5-NAPHTHALENEDIAMINE	2243621	16542	ND	NA	41250.0	16541	UG/KG
2-(METHYLTHIO)BENZOTHAZOLE	615225	16541	ND	NA	4166.7	16542	UG/KG
2-(METHYLTHIO)BENZOTHAZOLE	615225	16542	ND	NA	4166.7	16541	UG/KG
2-CHLORONAPHTHALENE	91587	16541	ND	NA	4166.7	16542	UG/KG
2-CHLORONAPHTHALENE	91587	16542	ND	NA	4166.7	16541	UG/KG
2-CHLOROPHENOL	95578	16541	ND	NA	4166.7	16542	UG/KG
2-CHLOROPHENOL	95578	16542	ND	NA	4166.7	16541	UG/KG
2-ISOPROPYLNAPHTHALENE	2027170	16541	ND	NA	4166.7	16542	UG/KG
2-ISOPROPYLNAPHTHALENE	2027170	16542	ND	NA	4166.7	16541	UG/KG
2-METHYLBENZOTHAZOLE	120752	16541	ND	NA	4166.7	16542	UG/KG
2-METHYLBENZOTHAZOLE	120752	16542	ND	NA	4166.7	16541	UG/KG
2-METHYLNAPHTHALENE	91576	16541	ND	NA	4166.7	16542	UG/KG
2-METHYLNAPHTHALENE	91576	16542	ND	NA	4166.7	16541	UG/KG
2-NITROANILINE	88744	16541	ND	NA	4166.7	16542	UG/KG
2-NITROANILINE	88744	16542	ND	NA	4166.7	16541	UG/KG
2-NITROPHENOL	88755	16541	ND	NA	8333.3	16542	UG/KG
2-NITROPHENOL	88755	16542	ND	NA	8333.3	16541	UG/KG
2-PHENYLNAPHTHALENE	612942	16541	ND	NA	4166.7	16542	UG/KG
2-PHENYLNAPHTHALENE	612942	16542	ND	NA	4166.7	16541	UG/KG
2-PICOLINE	109068	16541	ND	NA	20833.3	16542	UG/KG
2-PICOLINE	109068	16542	ND	NA	20833.3	16541	UG/KG
2,3-BENZOFLUORENE	243174	16541	ND	NA	4166.7	16542	UG/KG
2,3-BENZOFLUORENE	243174	16542	ND	NA	4166.7	16541	UG/KG
2,3-DICHLOROANILINE	608275	16541	ND	NA	4166.7	16542	UG/KG
2,3-DICHLOROANILINE	608275	16542	ND	NA	4166.7	16541	UG/KG
2,3-DICHLORONITROBENZENE	3209221	16541	ND	NA	20833.3	16542	UG/KG
2,3-DICHLORONITROBENZENE	3209221	16542	ND	NA	20833.3	16541	UG/KG
2,3,4,6-TETRACHLOROPHENOL	58902	16541	ND	NA	8333.3	16542	UG/KG
2,3,4,6-TETRACHLOROPHENOL	58902	16542	ND	NA	8333.3	16541	UG/KG
2,3,6-TRICHLOROPHENOL	933755	16541	ND	NA	4166.7	16542	UG/KG
2,3,6-TRICHLOROPHENOL	933755	16542	ND	NA	4166.7	16541	UG/KG
2,4-DICHLOROPHENOL	120832	16541	ND	NA	4166.7	16542	UG/KG
2,4-DICHLOROPHENOL	120832	16542	ND	NA	4166.7	16541	UG/KG
2,4-DIMETHYLPHENOL	105679	16541	ND	NA	4166.7	16542	UG/KG
2,4-DIMETHYLPHENOL	105679	16542	ND	NA	4166.7	16541	UG/KG
2,4-DINITROPHENOL	51285	16541	ND	NA	20833.3	16542	UG/KG

Analyte	CAS No.	Sample No.	Conc.	TEF Conc.	Minimum Level	DUP No.	Unit
2,4-DINITROPHENOL	51285	16542	ND	NA	20833.3	16541	UG/KG
2,4-DINITROTOLUENE	121142	16541	ND	NA	4166.7	16542	UG/KG
2,4-DINITROTOLUENE	121142	16542	ND	NA	4166.7	16541	UG/KG
2,4,5-TRICHLOROPHENOL	95954	16541	ND	NA	4166.7	16542	UG/KG
2,4,5-TRICHLOROPHENOL	95954	16542	ND	NA	4166.7	16541	UG/KG
2,4,6-TRICHLOROPHENOL	88062	16541	ND	NA	4166.7	16542	UG/KG
2,4,6-TRICHLOROPHENOL	88062	16542	ND	NA	4166.7	16541	UG/KG
2,6-DI-TERT-BUTYL-P-BENZOQUINONE	719222	16541	ND	NA	41250.0	16542	UG/KG
2,6-DI-TERT-BUTYL-P-BENZOQUINONE	719222	16542	ND	NA	41250.0	16541	UG/KG
2,6-DICHLORO-4-NITROANILINE	99309	16541	ND	NA	41250.0	16542	UG/KG
2,6-DICHLORO-4-NITROANILINE	99309	16542	ND	NA	41250.0	16541	UG/KG
2,6-DICHLOROPHENOL	87650	16541	ND	NA	4166.7	16542	UG/KG
2,6-DICHLOROPHENOL	87650	16542	ND	NA	4166.7	16541	UG/KG
2,6-DINITROTOLUENE	606202	16541	ND	NA	4166.7	16542	UG/KG
2,6-DINITROTOLUENE	606202	16542	ND	NA	4166.7	16541	UG/KG
3-METHYLCHOLANTHRENE	56495	16541	ND	NA	4166.7	16542	UG/KG
3-METHYLCHOLANTHRENE	56495	16542	ND	NA	4166.7	16541	UG/KG
3-NITROANILINE	99092	16541	ND	NA	8333.3	16542	UG/KG
3-NITROANILINE	99092	16542	ND	NA	8333.3	16541	UG/KG
3,3'-DICHLOROBENZIDINE	91941	16541	ND	NA	20833.3	16542	UG/KG
3,3'-DICHLOROBENZIDINE	91941	16542	ND	NA	20833.3	16541	UG/KG
3,3'-DIMETHOXYBENZIDINE	119904	16541	ND	NA	20833.3	16542	UG/KG
3,3'-DIMETHOXYBENZIDINE	119904	16542	ND	NA	20833.3	16541	UG/KG
3,6-DIMETHYLPHENANTHRENE	1576676	16541	ND	NA	4166.7	16542	UG/KG
3,6-DIMETHYLPHENANTHRENE	1576676	16542	ND	NA	4166.7	16541	UG/KG
4-AMINOBIIPHENYL	92671	16541	ND	NA	4166.7	16542	UG/KG
4-AMINOBIIPHENYL	92671	16542	ND	NA	4166.7	16541	UG/KG
4-BROMOPHENYL PHENYL ETHER	101553	16541	ND	NA	4166.7	16542	UG/KG
4-BROMOPHENYL PHENYL ETHER	101553	16542	ND	NA	4166.7	16541	UG/KG
4-CHLORO-2-NITROANILINE	89634	16541	ND	NA	8333.3	16542	UG/KG
4-CHLORO-2-NITROANILINE	89634	16542	ND	NA	8333.3	16541	UG/KG
4-CHLORO-3-METHYLPHENOL	59507	16541	ND	NA	4166.7	16542	UG/KG
4-CHLORO-3-METHYLPHENOL	59507	16542	ND	NA	4166.7	16541	UG/KG
4-CHLOROPHENYLPHENYL ETHER	7005723	16541	ND	NA	4166.7	16542	UG/KG
4-CHLOROPHENYLPHENYL ETHER	7005723	16542	ND	NA	4166.7	16541	UG/KG
4-NITROPHENOL	100027	16541	ND	NA	20833.3	16542	UG/KG
4-NITROPHENOL	100027	16542	ND	NA	20833.3	16541	UG/KG
4,4'-METHYLENEBIS(2-CHLOROANILINE)	101144	16541	ND	NA	8333.3	16542	UG/KG
4,4'-METHYLENEBIS(2-CHLOROANILINE)	101144	16542	ND	NA	8333.3	16541	UG/KG

Analyte	CAS No.	Sample No.	Conc.	TEF Conc.	Minimum Level	DUP No.	Unit
4,5-METHYLENE PHENANTHRENE	203645	16541	ND	NA	4166.7	16542	UG/KG
4,5-METHYLENE PHENANTHRENE	203645	16542	ND	NA	4166.7	16541	UG/KG
5-NITRO-O-TOLUIDINE	99558	16541	ND	NA	4166.7	16542	UG/KG
5-NITRO-O-TOLUIDINE	99558	16542	ND	NA	4166.7	16541	UG/KG
7,12-DIMETHYLBENZ(A)ANTHRACENE	57976	16541	ND	NA	4166.7	16542	UG/KG
7,12-DIMETHYLBENZ(A)ANTHRACENE	57976	16542	ND	NA	4166.7	16541	UG/KG

**USEPA
OFFICE OF WATER REGULATIONS AND STANDARDS
NATIONAL SEWAGE SLUDGE SURVEY
FACILITY ANALYTICAL RESULTS**

**EPISODE : 1493
SURVEY ID: 22-17-135**

**AUTHORITY:
CITY OF TOPEKA
FACILITY :
OAKLAND WWTP
1001 N E POPLAR
TOPEKA**

**ANALYSIS TYPE :
VOLATILE ORGANICS**

KS 66616

Analyte	CAS No.	Sample No.	Conc.	TEF Conc.	Minimum Level	DUP No.	Unit
ACRYLONITRILE	107131	16541	ND	NA	609.8	16542	UG/KG
ACRYLONITRILE	107131	16542	ND	NA	61.0	16541	UG/KG
BENZENE	71432	16541	ND	NA	122.0	16542	UG/KG
BENZENE	71432	16542	ND	NA	12.2	16541	UG/KG
BROMODICHLOROMETHANE	75274	16541	ND	NA	122.0	16542	UG/KG
BROMODICHLOROMETHANE	75274	16542	ND	NA	12.2	16541	UG/KG
BROMOMETHANE	74839	16541	ND	NA	609.8	16542	UG/KG
BROMOMETHANE	74839	16542	ND	NA	61.0	16541	UG/KG
CARBON DISULFIDE	75150	16541	ND	NA	122.0	16542	UG/KG
CARBON DISULFIDE	75150	16542	ND	NA	12.2	16541	UG/KG
CHLOROACETONITRILE	107142	16541	ND	NA	122.0	16542	UG/KG
CHLOROACETONITRILE	107142	16542	ND	NA	12.2	16541	UG/KG
CHLOROBENZENE	108907	16541	ND	NA	122.0	16542	UG/KG
CHLOROBENZENE	108907	16542	ND	NA	12.2	16541	UG/KG
CHLOROETHANE	75003	16541	ND	NA	609.8	16542	UG/KG
CHLOROETHANE	75003	16542	ND	NA	61.0	16541	UG/KG
CHLOROFORM	67663	16541	ND	NA	122.0	16542	UG/KG
CHLOROFORM	67663	16542	ND	NA	12.2	16541	UG/KG
CHLOROMETHANE	74873	16541	ND	NA	609.8	16542	UG/KG
CHLOROMETHANE	74873	16542	ND	NA	61.0	16541	UG/KG
CIS-1,3-DICHLOROPROPENE	10061015	16541	ND	NA	122.0	16542	UG/KG
CIS-1,3-DICHLOROPROPENE	10061015	16542	ND	NA	12.2	16541	UG/KG
CROTONALDEHYDE	4170303	16541	ND	NA	609.8	16542	UG/KG
CROTONALDEHYDE	4170303	16542	ND	NA	61.0	16541	UG/KG
DIBROMOCHLOROMETHANE	124481	16541	ND	NA	122.0	16542	UG/KG
DIBROMOCHLOROMETHANE	124481	16542	ND	NA	12.2	16541	UG/KG
DIBROMOMETHANE	74953	16541	ND	NA	122.0	16542	UG/KG
DIBROMOMETHANE	74953	16542	ND	NA	12.2	16541	UG/KG
DIETHYL ETHER	60297	16541	ND	NA	609.8	16542	UG/KG
DIETHYL ETHER	60297	16542	ND	NA	61.0	16541	UG/KG
ETHYL CYANIDE	107120	16541	ND	NA	122.0	16542	UG/KG
ETHYL CYANIDE	107120	16542	ND	NA	12.2	16541	UG/KG

EPISODE: 1493

ANALYSIS TYPE: VOLATILE ORGANICS

Analyte	CAS No.	Sample No.	Conc.	TEF Conc.	Minimum Level	DUP No.	Unit
ETHYL METHACRYLATE	97632	16541	ND	NA	122.0	16542	UG/KG
ETHYL METHACRYLATE	97632	16542	ND	NA	12.2	16541	UG/KG
ETHYLBENZENE	100414	16541	ND	NA	122.0	16542	UG/KG
ETHYLBENZENE	100414	16542	ND	NA	12.2	16541	UG/KG
IODOMETHANE	74884	16541	ND	NA	122.0	16542	UG/KG
IODOMETHANE	74884	16542	ND	NA	12.2	16541	UG/KG
ISOBUTYL ALCOHOL	78831	16541	ND	NA	122.0	16542	UG/KG
ISOBUTYL ALCOHOL	78831	16542	ND	NA	12.2	16541	UG/KG
M-XYLENE	108383	16541	ND	NA	122.0	16542	UG/KG
M-XYLENE	108383	16542	ND	NA	12.2	16541	UG/KG
METHYL METHACRYLATE	80626	16541	ND	NA	122.0	16542	UG/KG
METHYL METHACRYLATE	80626	16542	ND	NA	12.2	16541	UG/KG
METHYLENE CHLORIDE	75092	16541	ND	NA	122.0	16542	UG/KG
METHYLENE CHLORIDE	75092	16542	24.0	NA	NA	16541	UG/KG
O+P XYLENE	1-952	16541	ND	NA	122.0	16542	UG/KG
O+P XYLENE	1-952	16542	ND	NA	12.2	16541	UG/KG
TETRACHLOROETHENE	127184	16541	ND	NA	122.0	16542	UG/KG
TETRACHLOROETHENE	127184	16542	ND	NA	12.2	16541	UG/KG
TETRACHLOROMETHANE	56235	16541	ND	NA	122.0	16542	UG/KG
TETRACHLOROMETHANE	56235	16542	ND	NA	12.2	16541	UG/KG
TOLUENE	108883	16541	ND	NA	122.0	16542	UG/KG
TOLUENE	108883	16542	19.6	NA	NA	16541	UG/KG
TRANS-1,2-DICHLOROETHENE	156605	16541	ND	NA	122.0	16542	UG/KG
TRANS-1,2-DICHLOROETHENE	156605	16542	ND	NA	12.2	16541	UG/KG
TRANS-1,3-DICHLOROPROPENE	10061026	16541	ND	NA	122.0	16542	UG/KG
TRANS-1,3-DICHLOROPROPENE	10061026	16542	ND	NA	12.2	16541	UG/KG
TRANS-1,4-DICHLORO-2-BUTENE	110576	16541	ND	NA	609.8	16542	UG/KG
TRANS-1,4-DICHLORO-2-BUTENE	110576	16542	ND	NA	61.0	16541	UG/KG
TRIBROMOMETHANE	75252	16541	ND	NA	122.0	16542	UG/KG
TRIBROMOMETHANE	75252	16542	ND	NA	12.2	16541	UG/KG
TRICHLOROETHENE	79016	16541	ND	NA	122.0	16542	UG/KG
TRICHLOROETHENE	79016	16542	ND	NA	12.2	16541	UG/KG
TRICHLOROFLUOROMETHANE	75694	16541	ND	NA	122.0	16542	UG/KG
TRICHLOROFLUOROMETHANE	75694	16542	ND	NA	12.2	16541	UG/KG
VINYL ACETATE	108054	16541	ND	NA	609.8	16542	UG/KG
VINYL ACETATE	108054	16542	ND	NA	61.0	16541	UG/KG
VINYL CHLORIDE	75014	16541	ND	NA	122.0	16542	UG/KG
VINYL CHLORIDE	75014	16542	ND	NA	12.2	16541	UG/KG
1,1-DICHLOROETHANE	75343	16541	ND	NA	122.0	16542	UG/KG

Analyte	CAS No.	Sample No.	Conc.	TEF Conc.	Minimum Level	DUP No.	Unit
1,1-DICHLOROETHANE	75343	16542	ND	NA	12.2	16541	UG/KG
1,1-DICHLOROETHENE	75354	16541	ND	NA	122.0	16542	UG/KG
1,1-DICHLOROETHENE	75354	16542	ND	NA	12.2	16541	UG/KG
1,1,1-TRICHLOROETHANE	71556	16541	ND	NA	122.0	16542	UG/KG
1,1,1-TRICHLOROETHANE	71556	16542	ND	NA	12.2	16541	UG/KG
1,1,1,2-TETRACHLOROETHANE	630206	16541	ND	NA	122.0	16542	UG/KG
1,1,1,2-TETRACHLOROETHANE	630206	16542	ND	NA	12.2	16541	UG/KG
1,1,2-TRICHLOROETHANE	79005	16541	ND	NA	122.0	16542	UG/KG
1,1,2-TRICHLOROETHANE	79005	16542	ND	NA	12.2	16541	UG/KG
1,1,2,2-TETRACHLOROETHANE	79345	16541	ND	NA	122.0	16542	UG/KG
1,1,2,2-TETRACHLOROETHANE	79345	16542	ND	NA	12.2	16541	UG/KG
1,2-DIBROMOETHANE	106934	16541	ND	NA	122.0	16542	UG/KG
1,2-DIBROMOETHANE	106934	16542	ND	NA	12.2	16541	UG/KG
1,2-DICHLOROETHANE	107062	16541	ND	NA	122.0	16542	UG/KG
1,2-DICHLOROETHANE	107062	16542	ND	NA	12.2	16541	UG/KG
1,2-DICHLOROPROPANE	78875	16541	ND	NA	122.0	16542	UG/KG
1,2-DICHLOROPROPANE	78875	16542	ND	NA	12.2	16541	UG/KG
1,2,3-TRICHLOROPROPANE	96184	16541	ND	NA	122.0	16542	UG/KG
1,2,3-TRICHLOROPROPANE	96184	16542	ND	NA	12.2	16541	UG/KG
1,3-BUTADIENE, 2-CHLORO	126998	16541	ND	NA	122.0	16542	UG/KG
1,3-BUTADIENE, 2-CHLORO	126998	16542	ND	NA	12.2	16541	UG/KG
1,3-DICHLOROPROPANE	142289	16541	ND	NA	122.0	16542	UG/KG
1,3-DICHLOROPROPANE	142289	16542	ND	NA	12.2	16541	UG/KG
1,4-DIOXANE	123911	16541	ND	NA	122.0	16542	UG/KG
1,4-DIOXANE	123911	16542	ND	NA	12.2	16541	UG/KG
2-BUTANONE	78933	16541	ND	NA	609.8	16542	UG/KG
2-BUTANONE	78933	16542	ND	NA	61.0	16541	UG/KG
2-CHLOROETHYLVINYL ETHER	110758	16541	ND	NA	122.0	16542	UG/KG
2-CHLOROETHYLVINYL ETHER	110758	16542	ND	NA	12.2	16541	UG/KG
2-HEXANONE	591786	16541	ND	NA	609.8	16542	UG/KG
2-HEXANONE	591786	16542	ND	NA	61.0	16541	UG/KG
2-PROPANONE	67641	16541	2444.8	NA	NA	16542	UG/KG
2-PROPANONE	67641	16542	442.8	NA	NA	16541	UG/KG
2-PROPEN-1-OL	107186	16541	ND	NA	122.0	16542	UG/KG
2-PROPEN-1-OL	107186	16542	ND	NA	12.2	16541	UG/KG
2-PROPENAL	107028	16541	ND	NA	609.8	16542	UG/KG
2-PROPENAL	107028	16542	ND	NA	61.0	16541	UG/KG
2-PROPENENITRILE, 2-METHYL-	126987	16541	ND	NA	122.0	16542	UG/KG
2-PROPENENITRILE, 2-METHYL-	126987	16542	ND	NA	12.2	16541	UG/KG

Analyte	CAS No.	Sample No.	Conc.	TEF Conc.	Minimum Level	DUP No.	Unit
3-CHLOROPROPENE	107051	16541	ND	NA	122.0	16542	UG/KG
3-CHLOROPROPENE	107051	16542	ND	NA	12.2	16541	UG/KG
4-METHYL-2-PENTANONE	108101	16541	ND	NA	609.8	16542	UG/KG
4-METHYL-2-PENTANONE	108101	16542	ND	NA	61.0	16541	UG/KG