UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

DATE 8-9-84

Radium

SUBJECT Transmittal of Laboratory Data

FROM Charles P. Hensley CPH
Chief, Laboratory Branch, ENSV

TO Keffer
Attn: Rittaler

Analyses have been completed for the following activities and the data results are attached.

Activity No.	Description
AQ09	Radium Petroleum
	(complete transmital)
	Note: There is not an adequate method
	for tetraethyl Pb in soil,
	no tetraethyl Pb soil data
	reported.

Attachments

cc: Data Files

R00329652
RCRA RECORDS CENTER

EPA Form 1320-6 (Rev. 3-76)

FIELD SHEET

EN IRONMENTAL PROTECTION AGENCY REGION VII

SURVEILLANCE D ALYSIS DIVISION, 25 FUNSTOI OA.., KANSAS CITY, KANSAS 65115

STATION IDENTIFICATION

SURVEY NO _____ SURVEY LEADER Bill Ritthaler STORET NO _____

DESCRIPTION Radium Petroleum - Kansas City, Missouri

TANK #9

GRAB SAMPLE DATA

FLOW	TEMP °C		PH	DO	FECAL COLI	OIL & GREASE	OTHER	OTHER
☐ 00059 (GPM) ☐ 00061 (CFS)	AIR 00020	WATER 00010						

COLLECTION DATE YR 84 MO 04 DAY 24 TIME 1015 SAMPLER NAME CODE _____ LAB NO A00913

			00400					

COLLECTION DATE YR ____ MO ____ DAY ____ TIME ____ SAMPLER NAME CODE ____ LAB NO ____

COLLECTION DATE YR ____ MO ____ DAY ____ TIME ____ SAMPLER NAME CODE ____ LAB NO ____

COLLECTION DATE YR ____ MO ____ DAY ____ TIME ____ SAMPLER NAME CODE ____ LAB NO ____

COMPOSITE SAMPLE DATA

BEGIN DATE YR ____ MO ____ DAY ____ TIME ____ LAB NO ____

END DATE YR ____ MO ____ DAY ____ TIME ____ EQUIPMENT CODE ____

FLOW RATE ____ SCCSC MGD ____ SCCS2 1000 s OF GAL DURING COMPOSITE PERIOD SAMPLER NAME CODE ____

WATER CHEMISTRY

LAB NO A00913

SAMPLE CONTAINER	TAG COLOR	PRESERVATIVE	LABORATORY MOBILE	LABORATORY REGION	ANALYSES
1 - PINT JAR	PURPLE GREEN		X		EXTRACTABLE ORGANIC PESTICIDES ; VOLATILE ORGANIC
1 - PINT JAR	WHITE		X		METALS - ICP SCAN AND Hg + TETRA ETHYL LEAD

CONTACT _____ SAMPLE ☒ YES SPLIT ☐ NO _____

REMARKS MEDIUM HAZARD TANK SAMPLE

LOT # 53240061

EPA 9263.0-02 PS

FIELD SHEET

ENVIRONMENTAL PROTECTION AGENCY - REGION VII

SURVEILLANCE AND ANALYSIS DIVISION, 25 FUNSTON ROAD, KANSAS CITY, KANSAS 65115

STATION IDENTIFICATION

SURVEY NO _____ SURVEY LEADER Bill Ritthaler STORET NO _____

DESCRIPTION Radium Petroleum - Kansas City, Missouri

TANK #16

GRAB SAMPLE DATA

FLOW	TEMP °C AIR 00020	TEMP °C WATER 00010	PH	DO	FECAL COLI	OIL & GREASE	OTHER	OTHER
☐ 00059 (GPM) ☐ 00061 (CFS)								
COLLECTION DATE YR 84 MO 04 DAY 24 TIME 1030 SAMPLER NAME CODE _____ LAB NO AQ0914								
			00400					
COLLECTION DATE YR ____ MO ____ DAY ____ TIME ____ SAMPLER NAME CODE ____ LAB NO ____								
COLLECTION DATE YR ____ MO ____ DAY ____ TIME ____ SAMPLER NAME CODE ____ LAB NO ____								
COLLECTION DATE YR ____ MO ____ DAY ____ TIME ____ SAMPLER NAME CODE ____ LAB NO ____								

COMPOSITE SAMPLE DATA

BEGIN DATE YR ____ MO ____ DAY ____ TIME ____ LAB NO ____

END DATE YR ____ MO ____ DAY ____ TIME ____ EQUIPMENT CODE ____

FLOW RATE ____ 50050 MGD ____ 50057 100CC % OF GAL DURING COMPOSITE FES OD SAMPLER NAME CODE ____

WATER CHEMISTRY

LAB NO AQ0914

SAMPLE CONTAINER	TAG COLOR	PRESERVATIVE	LABORATORY MOBILE	LABORATORY REGION	ANALYSES
1 - PINT JAR	PURPLE GREEN		X		EXTRACTABLE ORGANIC PESTICIDES ; VOLATILE ORGANIC
1 - PINT JAR	WHITE		X		METALS - ICP SCAN AND Hg + TETRA ETHYL LEAD

CONTACT _____ SAMPLE ☒ YES SPLIT ☐ NO _____

REMARKS MEDIUM HAZARD TANK SAMPLE

LOT # 53249061

EPA 9262 16 75

GSA NC 75 265

FIELD SHEET

E 'RONMENTAL PROTECTION AG' CY REGION VII
SURVEILLANCE AND ANALYSIS DIVISION, 25 FUNSTO ROAD, KANSAS CITY, KANSAS 65115

STATION IDENTIFICATION

SURVEY NO _____ SURVEY LEADER Bill Ritthaler STORET NO _____

DESCRIPTION Radium Petroleum - Kansas City, Missouri
TANK #21

GRAB SAMPLE DATA

FLOW	TEMP °C AIR	TEMP °C WATER	PH	DO	FECAL COLI	OIL & GREASE	OTHER	OTHER
☐ 00059 (GPM) ☐ 00061 (CFS)	00020	00010						
COLLECTION DATE YR 84 MO 04 DAY 24 TIME 1045 SAMPLER NAME CODE _____ LAB NO AG0915								
			00400					
COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____ SAMPLER NAME CODE _____ LAB NO _____								
COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____ SAMPLER NAME CODE _____ LAB NO _____								
COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____ SAMPLER NAME CODE _____ LAB NO _____								

COMPOSITE SAMPLE DATA

BEGIN DATE YR _____ MO _____ DAY _____ TIME _____ LAB NO _____

END DATE YR _____ MO _____ DAY _____ TIME _____ EQUIPMENT CODE _____

FLOW RATE _____ (50050) MGD _____ (50053) 1000's OF GAL DURING COMPOSITE PERIOD SAMPLER NAME CODE _____

WATER CHEMISTRY

LAB NO AG0915

SAMPLE CONTAINER	TAG COLOR	PRESERVATIVE	LABORATORY MOBILE	LABORATORY REGION	ANALYSES
1 - PINT JAR	PURPLE GREEN		X		EXTRACTABLE ORGANIC PESTICIDES ; VOLATILE ORGANIC
1 - PINT JAR	WHITE		X		METALS - ICP SCAN AND Hg + TETRA ETHYL LEAD

CONTACT _____ SAMPLE ☒ YES SPLIT ☐ NO _____

REMARKS MEDIUM HAZARD TANK SAMPLE

LOT# 53249061

7 EPA 9263 -6 75 OSA-MS 78 32

FIELD SHEET

F IRONMENTAL PROTECTION AGENCY REGION VII

SURVEILLANC. ND ANALYSIS DIVISION, 25 FUNSTC ROAD, KANSAS CITY, KANSAS 65115

STATION IDENTIFICATION

SURVEY NO _____ SURVEY LEADER Bill Rittholer STORET NO _____

DESCRIPTION Radium Petroleum - Kansas City, Missouri

TANK # 27

GRAB SAMPLE DATA

FLOW	TEMP °C AIR 00020	TEMP °C WATER 00010	PH	DO	FECAL COLI	OIL & GREASE	OTHER	OTHER
☐ 00059 (GPM) ☐ 00061 (CFS)								
COLLECTION DATE YR 84 MO 04 DAY 24 TIME 1100 SAMPLER NAME CODE _____ LAB NO A00916								
			00400					
COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____ SAMPLER NAME CODE _____ LAB NO _____								
COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____ SAMPLER NAME CODE _____ LAB NO _____								
COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____ SAMPLER NAME CODE _____ LAB NO _____								

COMPOSITE SAMPLE DATA

BEGIN DATE YR _____ MO _____ DAY _____ TIME _____ LAB NO _____

END DATE YR _____ MO _____ DAY _____ TIME _____ EQUIPMENT CODE _____

FLOW RATE _____ (00056) MGD _____ (50050) 1000 x GAL DURING COMPOSITE PERIOD SAMPLER NAME CODE _____

WATER CHEMISTRY

LAB NO A00916

SAMPLE CONTAINER	TAG COLOR	PRESERVATIVE	LABORATORY MOBILE	LABORATORY REGION	ANALYSES
1 - PINT JAR	PURPLE GREEN		X		EXTRACTABLE ORGANI PESTICIDES ; VOLATILI ORGANI
1 - PINT JAR	WHITE		X		METALS - ICP SCAN AND Hg + TETRA ETHYL LEAD

CONTACT _____ SAMPLE ☒ YES SPLIT ☐ NO _____

REMARKS MEDIUM HAZARD TANK SAMPLE

LOT # 5324 9061

CHAIN OF CUSTODY RECORD
ENVIRONMENTAL PROTECTION AGENCY – REGION VII

WORK LEADER (PRINT)	NAME OF SURVEY OR ACTIVITY	DATE OF COLLECTION (DAY / MONTH / YEAR)	SHEET
BILL RITTHALER	RADIUM PETROLEUM – KC, MO,	24 / 04 / 84	1 of 1

DESCRIPTION OF SHIPMENT

1 PIECE(S) CONSISTING OF ____ ~~BOX(S)~~ Plastic Bag

1 ICE CHEST(S); OTHER ____

VOUCHER OR RECEIPT NO.

CONTENTS OF SHIPMENT

LABORATORY SAMPLE NO.	TYPES OF CONTAINERS: CUBITAINER	GLASS JAR	DO BOTTLE	BIO. BOTTLE	LABORATORY SAMPLE NO.	TYPES OF CONTAINERS: CUBITAINER	GLASS JAR	DO BOTTLE	BIO. BOTTLE
	NO. OF CONTAINERS PER LAB NO.					NO. OF CONTAINERS PER LAB NO.			
AQ0900		2 (PINT)			AQ0914		2 (PINT)		
AQ0901		2 (PINT)			AQ0915		2 (PINT)		
AQ0902		2 (PINT)			AQ0916		2 (PINT)		
AQ0903		2 (PINT)			~~[illegible]~~ wrk		~~[illegible]~~		
AQ0904		2 (PINT)			AQ0917		2 (PINT)		
AQ0905		2 (PINT)							
~~[illegible]~~ wrk		~~[illegible]~~							
AQ0907		2 (PINT)							
AQ0908		2 (PINT)							
AQ0909		2 (PINT)							
AQ0910		2 (PINT)							
AQ0911		2 (PINT)							
~~[illegible]~~ wrk		~~[illegible]~~							
AQ0913		2 (PINT)							

PERSONNEL CUSTODY RECORD

RELINQUISHED BY	RECEIVED BY	DATE	TIME	REASON FOR CHANGE OF CUSTODY
William E. Ritthaler (SEALED / UNSEALED ☒)	H.D. Cornet (SEALED / UNSEALED ☒)	4/25/84	8:45	Shipment
(SEALED / UNSEALED)	(SEALED / UNSEALED)			
(SEALED / UNSEALED)	(SEALED / UNSEALED)			
(SEALED / UNSEALED)	(SEALED / UNSEALED)			
(SEALED / UNSEALED)	(SEALED / UNSEALED)			
(SEALED / UNSEALED)	(SEALED / UNSEALED)			
(SEALED / UNSEALED)	(SEALED / UNSEALED)			

7-EPA-9262 (5/75)

QSA-KC-75-052

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
SURVEILLANCE AND ANALYSIS DIVISION
REGION VII
25 FUNSTON ROAD
KANSAS CITY, KANSAS 66115

GRAB ✓ COMP _____ BOTH _____

STATION DESCRIPTION: Radium Petroleum

STORET NUMBER _____

SAMPLED BY Ritthaler

DATE/TIME	4-84 →					
LAB NUMBER	AQ0913	AQ0914	AQ0915	AQ0916		
PARAMETERS	#9	#16	#21	#27		
	VALUES					
Mercury µg/l	23.8	10.1	2.9	2.2		

TITLE:RADIUM PETROLEUM
MATRIX: OIL
UNITS: GM/KG
parts per thousand

ANALYSIS TYPE: BASE/NEUTRALS
DATE: 7/9/84
METHOD #: 8041H70

SAMPLE PREP: BH
ANALYST: RLG REVIEWER: RG.
LAB: EPA 7

COMPOUND	STORET#	AQ0913	AQ0914	AQ0915	AQ0916
		SAMPLE NUMBERS			
BIS(2-CHLOROETHYL)ETHER	34276	1.6U	1.6U	1.6U	1.6U
BIS(2-CHLOROISOPROPYL)ETHER	34286	1.2U	1.2U	1.2U	1.2U
HEXACHLOROETHANE	34399	1.6U	1.6U	1.6U	1.6U
N-NITROSODI-N-PROPYLAMINE	34431	8. U	8. U	8. U	8. U
NITROBENZENE	34450	1.2U	1.2U	1.2U	1.2U
ISOPHORONE	34411	3.2U	3.2U	3.2U	3.2U
BIS(2-CHLOROETHOXY)METHANE	34281	1.2U	1.2U	1.2U	1.2U
,2,4-TRICHLOROBENZENE	34554	2.4U	2.4U	2.4U	2.4U
NAPHTHALENE	34445	1.2U	1.2U	1.2U	1.2U
HEXACHLOROBUTADIENE	39705	1.6U	1.6U	1.6U	1.6U
XACHLOROCYCLOPENTADIENE	34389	2.4U	2.4U	2.4U	2.4U
CHLORONAPHTHALENE	34584	1.2U	1.2U	1.2U	1.2U
ACENAPHTHYLENE	34203	.8 U	.8 U	.8 U	.8 U
DIMETHYL PHTHALATE	34344	.8 U	.8 U	.8 U	.8 U
2,6-DINITROTOLUENE	34629	3.2U	3.2U	3.2U	3.2U
ACENAPHTHENE	34208	1.2U	1.2U	1.2U	1.2U
2,4-DINITROTOLUENE	34614	3.2U	3.2U	3.2U	3.2U
FLUORENE	34384	1.2U	1.2U	1.2U	1.2U
4-CHLOROPHENYL PHENYL ETHER	34644	20. U	20. U	20. U	20. U
DIETHYL PHTHALATE	34339	1.2U	1.2U	1.2U	1.2U
1,2-DIPHENYLHYDRAZINE	34349	2. U	2. U	2. U	2. U
AND/OR AZOBENZENE	*****	2. U	2. U	2. U	2. U
N-NITROSODIPHENYLAMINE	34436	2. U	2. U	2. U	2. U
AND/OR DIPHENYLAMINE	*****	2. U	2. U	2. U	2. U
4-BROMOPHENYL PHENYL ETHER	34639	3.2U	3.2U	3.2U	3.2U
HEXACHLOROBENZENE	39701	3.2U	3.2U	3.2U	3.2U
PHENANTHRENE	34464	2.4U	2.4U	2.4U	2.4U
ANTHRACENE	34223	2.4U	2.4U	2.4U	2.4U
DI-N-BUTYL PHTHALATE	39112	2. U	2. U	2. U	2. U
LUORANTHENE	34379	1.6U	1.6U	1.6U	1.6U
PYRENE	34472	1.6U	1.6U	1.6U	1.6U
BENZIDINE	39121	16. U	16. U	16. U	16. U
TYLBENZYL PHTHALATE	34295	2.4U	2.4U	2.4U	2.4U
RYSENE AND/OR	34323	4.8U	4.8U	4.8U	4.8U
BENZO(A)ANTHRACENE	34529	4.8U	4.8U	4.8U	4.8U
3,3'-DICHLOROBENZIDINE	34634	16. U	16. U	16. U	16. U
BIS(2-ETHYLHEXYL)PHTHALATE	39102	3.2U	3.2U	3.2U	3.2U
DI-N-OCTYL PHTHALATE	34599	1.6U	1.6U	1.6U	1.6U
BENZO(B)FLUORANTHENE AND/OR	34233	8. U	8. U	8. U	8. U
BENZO(K)FLUORANTHENE	34245	8. U	8. U	8. U	8. U
BENZO(A)PYRENE	34250	4. U	4. U	4. U	4. U
INDENO(1,2,3,-CD) PYRENE	34406	3.2U	3.2U	3.2U	3.2U
DIBENZO(A,H) ANTHRACENE	34559	5.6U	5.6U	5.6U	5.6U
BENZO(G,H,I) PERYLENE	34524	3.2U	3.2U	3.2U	3.2U

TITLE:RADIUM PETROLEUM
MATRIX: OIL
UNITS: GM/KG
parts per thousand

ANALYSIS TYPE: ACIDS
DATE: 7/9/84
METHOD #: 8041H70

SAMPLE PREP: BH
ANALYST: RLG REVIEWER: AG
LAB: EPA 7

COMPOUND	STORET#	SAMPLE NUMBERS AQ0913	AQ0914	AQ0915	AQ0916
PHENOL	34695	1.6U	1.6U	1.6U	1.6U
2-CHLOROPHENOL	34589	1.6U	1.6U	1.6U	1.6U
2-NITROPHENOL	34594	4. U	4. U	4. U	4. U
2,4-DIMETHYLPHENOL	34609	2.4U	2.4U	2.4U	2.4U
2,4-DICHLOROPHENOL	34604	4. U	4. U	4. U	4. U
P-CHLORO-M-CRESOL	34455	4. U	4. U	4. U	4. U
2,4,6-TRICHLOROPHENOL	34624	4. U	4. U	4. U	4. U
2,4-DINITROPHENOL	34619	20. U	20. U	20. U	20. U
-NITROPHENOL	34649	16. U	16. U	16. U	16. U
,6-DINITRO-O-CRESOL	34660	12. U	12. U	12. U	12. U
PENTACHLOROPHENOL	39061	12. U	12. U	12. U	12. U

TITLE:RADIUM PETROLEUM
MATRIX: OIL
UNITS: GM/KG
parts per thousand

ANALYSIS TYPE: TETRAETHYL LEAD
DATE: 7/9/84
METHOD #: 8041H70

SAMPLE PREP: MT
ANALYST: RLG REVIEWER: AG
LAB:EPA 7

COMPOUND	STORET#	SAMPLE NUMBERS AQ0913	AQ0914	AQ0915	AQ0916
TETRAETHYL LEAD	*****	6.8U	6.8U	6.8U	6.8U

ANALYTICAL DATA REPORT

Tentatively Identified Compounds from GC/MS Scan

Fraction S.V. Method Number 9301M05

Matrix Soil Date/Analyst 7-6-84 / MEA

The GC/MS Scans were analyzed for the following samples and were found to contain no significant peaks:

AQ0900
AQ0901
AQ0902
AQ0905
AQ0908
AQ0909
AQ0911
AQ0917

ANALYTICAL DATA REPORT

Tentatively Identified Compounds from GC/MS Scan

Fraction Vol

Method Number 9301/MOS

Matrix Soil

Date/Analyst 7-6-84 / MEA

The GC/MS Scans were analyzed for the following samples and were found to contain no significant peaks:

AQ0900
AQ0903
AQ0905
AQ0909
AQ0911
AQ0917

May 30, 1984

MEMORANDUM

SUBJECT: Liquid Samples AQ09 From Radian

FROM: Diane M. Easley
Chemist, Analytical Section, LABO-ENSV

TO: Harold G. Brown, Ph.D.
Chief, Analytical Section, LABO-ENSV

Four liquid samples were collected from Radian Petroleum. Methanol dilutions were made on each of these liquids, to determine the presence of chlorinated solvents. The following results were obtained using direct injection VOA GC/MS techniques:

Sample # (Size)	Chlorinated Solvent Present
AQ0913 (37.4 ug)	0.6 ppt. Tetrachloroethene
AQ0914 (59.45ug)	0.5 ppt. Trichloroethene 0.2 Tetrachloroethene
AQ0915 (48.24 ug)	None detected
AQ0916 (70.2 ug)	None detected

DMEasley:bvb:5/29/84
LABO LABO

TITLE:RADIUM PETROLEUM
MATRIX: ~~SEDIMENT~~ OIL
UNITS: UG/KG

ANALYSIS TYPE: PESTICIDES
DATE: 6/29/84
METHOD #: 8041H70

SAMPLE PREP:
ANALYST: CMB
REVIEWER:
LAB:EPA 7

COMPOUND	STORET#	SAMPLE NUMBERS AQ0913	AQ0914	AQ0915	AQ0916
B ENDOSULFAN	34359	200. U	200. U	200. U	200. U
A BHC	39076	60. U	60. U	60. U	60. U
G BHC	39343	65. U	65. U	65. U	65. U
B BHC	34257	150. U	150. U	150. U	150. U
ALDRIN	39333	200. U	200. U	200. U	200. U
HEPTACHLOR	39413	65. U	65. U	65. U	65. U
HEPTACHLOR EPOXIDE	39423	55. U	55. U	55. U	55. U
A ENDOSULFAN	34364	150. U	150. U	150. U	150. U
DIELDRIN	39383	300. U	300. U	300. U	300. U
4,4'-DDE	39321	200. U	200. U	200. U	200. U
4,4'-DDD	39311	200. U	200. U	200. U	200. U
4,4'-DDT	39301	400. U	400. U	400. U	400. U
ENDRIN	39393	200. U	200. U	200. U	200. U
ENDOSULFAN SULFATE	34354	400. U	400. U	400. U	400. U
D BHC	34262	60. U	60. U	60. U	60. U
CHLORDANE	39351	1500. U	1500. U	1500. U	1500. U
TOXAPHENE	39403	2000. U	2000. U	2000. U	2000. U
PCB 1242	39499	3000. U	3000. U	3000. U	3000. U
PCB 1254	39507	3500. U	3500. U	3500. U	3500. U
PCB 1221	39491	2500. U	2500. U	2500. U	2500. U
PCB 1232	39495	1000. U	1000. U	1000. U	1000. U
PCB 1248	39503	3000. U	3000. U	3000. U	3000. U
PCB 1260	39511	1000. U	1000. U	1000. U	1000. U
PCB 1016	39514	3000. U	3000. U	3000. U	3000. U
2,3,7,8-TCDD	34678	1000. U	1000. U	1000. U	1000. U
ENDRIN ALDEHYDE	34369	350. U	350. U	350. U	350. U

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 7
25 FUNSTON ROAD
KANSAS CITY, KANSAS 66115

July 12, 1984

MEMORANDUM

SUBJECT: Organic Analysis of Radium Petroleum Samples, AQ0913 through AQ0916

FROM: Robert Greenall Robert L. Greenall
Chemist, Analytical Section, LABO-ENSV

TO: Charles P. Hensley CPH
Chief, Laboratory Branch, ENSV

THRU: Harold G. Brown, Ph.D. HG Brown
Chief, Analytical Section, LABO-ENSV

On June 26, 1984, I analyzed the Radium Petroleum samples AQ0913 through AQ0916 for base-neutrals, acids, and tetraethyl lead. The samples are oily liquids, which were prepared for analysis by weighing one gram of sample into a 10 ml volumetric flask and diluting to volume. The extracts were then diluted one ml to 10 ml to provide for adequate cleanup of the sample before injection into the Finnigan 1020 GC/MS. The analytical results were negative for all base-neutral and acid compounds, and for tetraethyl lead. All volumes are reported as less than the detection limits which, due to the method of sample preparation, are 5,000 times those for sediment or parts per thousand. The results are attached.

Attachment

TITLE:RADIUM PETROLEUM
MATRIX: OIL
UNITS: GM/KG
parts per thousand

ANALYSIS TYPE: BASE/NEUTRALS
DATE: 7/9/04
METHOD #: 8041H70

SAMPLE PREP: B#
ANALYST: RLG REVIEWER: RG.
LAB: EPA 7

COMPOUND	STORET#	SAMPLE NUMBERS AQ0913	AQ0914	AQ0915	AQ0916
BIS(2-CHLOROETHYL)ETHER	34276	1.6U	1.6U	1.6U	1.6U
BIS(2-CHLOROISOPROPYL)ETHER	34286	1.2U	1.2U	1.2U	1.2U
HEXACHLOROETHANE	34399	1.6U	1.6U	1.6U	1.6U
N-NITROSODI-N-PROPYLAMINE	34431	8. U	8. U	8. U	8. U
NITROBENZENE	34450	1.2U	1.2U	1.2U	1.2U
ISOPHORONE	34411	3.2U	3.2U	3.2U	3.2U
BIS(2-CHLOROETHOXY)METHANE	34281	1.2U	1.2U	1.2U	1.2U
1,2,4-TRICHLOROBENZENE	34554	2.4U	2.4U	2.4U	2.4U
NAPHTHALENE	34445	1.2U	1.2U	1.2U	1.2U
HEXACHLOROBUTADIENE	39705	1.6U	1.6U	1.6U	1.6U
HEXACHLOROCYCLOPENTADIENE	34389	2.4U	2.4U	2.4U	2.4U
2-CHLORONAPHTHALENE	34584	1.2U	1.2U	1.2U	1.2U
ACENAPHTHYLENE	34203	.8 U	.8 U	.8 U	.8 U
DIMETHYL PHTHALATE	34344	.8 U	.8 U	.8 U	.8 U
2,6-DINITROTOLUENE	34629	3.2U	3.2U	3.2U	3.2U
ACENAPHTHENE	34208	1.2U	1.2U	1.2U	1.2U
2,4-DINITROTOLUENE	34614	3.2U	3.2U	3.2U	3.2U
FLUORENE	34384	1.2U	1.2U	1.2U	1.2U
4-CHLOROPHENYL PHENYL ETHER	34644	20. U	20. U	20. U	20. U
DIETHYL PHTHALATE	34339	1.2U	1.2U	1.2U	1.2U
1,2-DIPHENYLHYDRAZINE	34349	2. U	2. U	2. U	2. U
AND/OR AZOBENZENE	*****	2. U	2. U	2. U	2. U
N-NITROSODIPHENYLAMINE	34436	2. U	2. U	2. U	2. U
AND/OR DIPHENYLAMINE	*****	2. U	2. U	2. U	2. U
4-BROMOPHENYL PHENYL ETHER	34639	3.2U	3.2U	3.2U	3.2U
HEXACHLOROBENZENE	39701	3.2U	3.2U	3.2U	3.2U
PHENANTHRENE	34464	2.4U	2.4U	2.4U	2.4U
ANTHRACENE	34223	2.4U	2.4U	2.4U	2.4U
DI-N-BUTYL PHTHALATE	39112	2. U	2. U	2. U	2. U
FLUORANTHENE	34379	1.6U	1.6U	1.6U	1.6U
PYRENE	34472	1.6U	1.6U	1.6U	1.6U
BENZIDINE	39121	16. U	16. U	16. U	16. U
BUTYLBENZYL PHTHALATE	34295	2.4U	2.4U	2.4U	2.4U
CHRYSENE AND/OR	34323	4.8U	4.8U	4.8U	4.8U
BENZO(A)ANTHRACENE	34529	4.8U	4.8U	4.8U	4.8U
3,3'-DICHLOROBENZIDINE	34634	16. U	16. U	16. U	16. U
BIS(2-ETHYLHEXYL)PHTHALATE	39102	3.2U	3.2U	3.2U	3.2U
DI-N-OCTYL PHTHALATE	34599	1.6U	1.6U	1.6U	1.6U
BENZO(B)FLUORANTHENE AND/OR	34233	8. U	8. U	8. U	8. U
BENZO(K)FLUORANTHENE	34245	8. U	8. U	8. U	8. U
BENZO(A)PYRENE	34250	4. U	4. U	4. U	4. U
INDENO(1,2,3,-CD) PYRENE	34406	3.2U	3.2U	3.2U	3.2U
DIBENZO(A,H) ANTHRACENE	34559	5.6U	5.6U	5.6U	5.6U
BENZO(G,H,I) PERYLENE	34524	3.2U	3.2U	3.2U	3.2U

TITLE:RADIUM PETROLEUM
MATRIX: OIL
UNITS: GM/KG
parts per thousand

ANALYSIS TYPE: ACIDS
DATE: 7/9/84
METHOD #: 8041H70

SAMPLE PREP: BH
ANALYST: RLG REVIEWER: AG
LAB: EPA 7

COMPOUND	STORET#	AQ0913	AQ0914	AQ0915	AQ0916
		SAMPLE NUMBERS			
HENOL	34695	1.6U	1.6U	1.6U	1.6U
CHLOROPHENOL	34589	1.6U	1.6U	1.6U	1.6U
-NITROPHENOL	34594	4. U	4. U	4. U	4. U
,4-DIMETHYLPHENOL	34609	2.4U	2.4U	2.4U	2.4U
,4-DICHLOROPHENOL	34604	4. U	4. U	4. U	4. U
-CHLORO-M-CRESOL	34455	4. U	4. U	4. U	4. U
,4,6-TRICHLOROPHENOL	34624	4. U	4. U	4. U	4. U
,4-DINITROPHENOL	34619	20. U	20. U	20. U	20. U
-NITROPHENOL	34649	16. U	16. U	16. U	16. U
,6-DINITRO-O-CRESOL	34660	12. U	12. U	12. U	12. U
ENTACHLOROPHENOL	39061	12. U	12. U	12. U	12. U

TITLE:RADIUM PETROLEUM
MATRIX: OIL
UNITS: GM/KG
parts per thousand

ANALYSIS TYPE: TETRAETHYL LEAD
DATE: 7/9/04
METHOD #: 00411170

SAMPLE PREP: BH
ANALYST: RLG
LAB:EPA 7
REVIEWER: RG

COMPOUND	STORET#	AQ0913	AQ0914	AQ0915	AQ0916
TRALTHYL LEAD	*****	6.0U	6.0U	6.0U	6.0U

SAMPLE NUMBERS

TITLE:RADIUM PETROLEUM
MATRIX: OIL
UNITS: GM/KG
parts per thousand

ANALYSIS TYPE: TETRAETHYL LEAD
DATE: 7/9/84
METHOD #: 8041H70

SAMPLE PREP: BH
ANALYST: RLG
LAB:EPA 7
REVIEWER: RG

COMPOUND	STORET#	SAMPLE NUMBERS			
		A00913	A00914	A00915	A00916
TETRAETHYL LEAD	*****	6.0U	6.0U	6.0U	6.0U

FIELD SHEET
ENVIRONMENTAL PROTECTION AGENCY — REGION VII
SURVEILLANCE AND ANALYSIS DIVISION, 25 FUNSTON ROAD, KANSAS CITY, KANSAS 65115

STATION IDENTIFICATION

SURVEY NO _____ SURVEY LEADER Bill Ritthaler STORET NO _____

DESCRIPTION Radium Petroleum - Kansas City, Missouri

BACKGROUND SOIL 0-6" DEPTH

GRAB SAMPLE DATA

FLOW	TEMP °C AIR	TEMP °C WATER	PH	DO	FECAL COLI	OIL & GREASE	OTHER	OTHER
☐ 00059 (GPM) ☐ 00061 (CFS)	00020	00010						
COLLECTION DATE YR 84 MO 04 DAY 24 TIME 1010						SAMPLER NAME CODE	LAB NO A00900	
			00400					
COLLECTION DATE YR MO DAY TIME						SAMPLER NAME CODE	LAB NO	
COLLECTION DATE YR MO DAY TIME						SAMPLER NAME CODE	LAB NO	
COLLECTION DATE YR MO DAY TIME						SAMPLER NAME CODE	LAB NO	

COMPOSITE SAMPLE DATA

BEGIN DATE YR _____ MO _____ DAY _____ TIME _____ LAB NO _____

END DATE YR _____ MO _____ DAY _____ TIME _____ EQUIPMENT CODE _____

FLOW RATE _____ (50050) MGD _____ (50052) 1000's OF GAL DURING COMPOSITE PERIOD SAMPLER NAME CODE _____

WATER CHEMISTRY

LAB NO A0 0900

SAMPLE CONTAINER	TAG COLOR	PRESERVATIVE	LABORATORY MOBILE	LABORATORY REGION	ANALYSES
1 - PINT JAR	WHITE		X		METALS - ICP SCAN AND Hg & TETRA ETHYL LEAD
1 - PINT JAR	PURPLE GREEN		X		EXTACTABLE ORGANICS, PESTICIDES, VOLATILE ORGANICS

CONTACT _____ SAMPLE ☒ YES SPLIT ☐ NO _____

REMARKS LOW HAZARD ENVIRONMENTAL SOIL SAMPLE

LCT 5 324 961

2-EPA 9263 10 75

GSA-KC 78 3295

FIELD SHEET

ENVIRONMENTAL PROTECTION AGENCY — REGION VII

SURVEILLANCE AND ANALYSIS DIVISION, 25 FUNSTON ROAD, KANSAS CITY, KANSAS 65115

STATION IDENTIFICATION

SURVEY NO _____ SURVEY LEADER Bill Rittaker STORET NO _____

DESCRIPTION Radium Petroleum - Kansas City, Missouri

BKG. SOIL 6-12" LOC. 50 FT. SE OF BUILDING

GRAB SAMPLE DATA

FLOW	TEMP °C AIR	TEMP °C WATER	PH	DO	FECAL COLI	OIL & GREASE	OTHER	OTHER
☐ 00059 (GPM) ☐ 00061 (CFS)	00020	00010						

COLLECTION DATE YR 84 MO 04 DAY 24 TIME 1110 SAMPLER NAME CODE _____ LAB NO A6C917

			00400					

COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____ SAMPLER NAME CODE _____ LAB NO _____

COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____ SAMPLER NAME CODE _____ LAB NO _____

COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____ SAMPLER NAME CODE _____ LAB NO _____

COMPOSITE SAMPLE DATA

BEGIN DATE YR _____ MO _____ DAY _____ TIME _____ LAB NO _____

END DATE YR _____ MO _____ DAY _____ TIME _____ EQUIPMENT CODE _____

FLOW RATE _____ 50050 MGD _____ 50052 1000 s OF GAL DURING COMPOSITE PERIOD SAMPLER NAME CODE _____

WATER CHEMISTRY LAB NO A6C917

SAMPLE CONTAINER	TAG COLOR	PRESERVATIVE	LABORATORY MOBILE	LABORATORY REGION	ANALYSES
1- PINT JAR	PURPLE GREEN		X		EXTRACTABLE ORGANICS PESTICIDES; VOLATILE ORGANICS
1- PINT JAR	WHITE		X		METALS - ICP SCAN AND Hg + TETRAETHYL, ETC

CONTACT _____ SAMPLE ☐ YES SPLIT ☐ NO _____

REMARKS _____

LOT # 5324906.1

7-EPA 9263 (6 75) GSA-KC-78-1095

FIELD SHEET

ENVIRONMENTAL PROTECTION AGENCY — REGION VII

SURVEILLANCE AND ANALYSIS DIVISION, 25 FUNSTON ROAD, KANSAS CITY, KANSAS 65115

STATION IDENTIFICATION

SURVEY NO _____ SURVEY LEADER Bill Ritthaler STORET NO _____

DESCRIPTION Radium Petroleum – Kansas City, Missouri

SOIL, 0-6" DEPTH A-SAMPLE LINE 0-6"

GRAB SAMPLE DATA

FLOW	TEMP °C AIR 00020	TEMP °C WATER 00010	PH	DO	FECAL COLI	OIL & GREASE	OTHER	OTHER
☐ 00059 (GPM) ☐ 00061 (CFS)								
COLLECTION DATE YR 84 MO 04 DAY 24 TIME 1120 SAMPLER NAME CODE _____ LAB NO AQ0901								
			00400					
COLLECTION DATE YR ___ MO ___ DAY ___ TIME ___ SAMPLER NAME CODE ___ LAB NO ___								
COLLECTION DATE YR ___ MO ___ DAY ___ TIME ___ SAMPLER NAME CODE ___ LAB NO ___								
COLLECTION DATE YR ___ MO ___ DAY ___ TIME ___ SAMPLER NAME CODE ___ LAB NO ___								

COMPOSITE SAMPLE DATA

BEGIN DATE YR ___ MO ___ DAY ___ TIME ___ LAB NO ___

END DATE YR ___ MO ___ DAY ___ TIME ___ EQUIPMENT CODE ___

FLOW RATE ___ (SCCSC) MGD ___ (SCCSC) 1000's OF GAL DURING COMPOSITE PERIOD SAMPLER NAME CODE ___

WATER CHEMISTRY

LAB NO AQ0901

SAMPLE CONTAINER	TAG COLOR	PRESERVATIVE	LABORATORY MOBILE	LABORATORY REGION	ANALYSES
1 - PINT JAR	WHITE		X		METALS - ICP SCAN AND Hg & TETRA ETHYL LEAD
1 - PINT JAR	PURPLE GREEN		X		EXTRACTABLE ORGANICS, PESTICIDES, VOLATILE ORGANICS

CONTACT _____ SAMPLE ☒ YES SPLIT ☐ NO

REMARKS LOW HAZARD ENVIRONMENTAL SOIL SAMPLE

LOT# 53249061

7 EPA 9262 16 75 GSA-KC-78 1695

FIELD SHEET

ENVIRONMENTAL PROTECTION AGENCY — REGION VII

SURVEILLANCE AND ANALYSIS DIVISION, 25 FUNSTON ROAD, KANSAS CITY, KANSAS 65115

STATION IDENTIFICATION

SURVEY NO _____ SURVEY LEADER Bill Ritthaler STORET NO _____

DESCRIPTION Radium Petroleum – Kansas City, Missouri

SOIL, 0-6" DEPTH B-SAMPLE LINE 0-6"

GRAB SAMPLE DATA

FLOW	TEMP °C		PH	DO	FECAL COLI	OIL & GREASE	OTHER	OTHER
☐ 00059 (GPM) ☐ 00061 (CFS)	AIR 00020	WATER 00010						

COLLECTION DATE YR 84 MO 04 DAY 24 TIME 1345 SAMPLER NAME CODE _____ LAB NO AQ0902

00400

COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____ SAMPLER NAME CODE _____ LAB NO _____

COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____ SAMPLER NAME CODE _____ LAB NO _____

COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____ SAMPLER NAME CODE _____ LAB NO _____

COMPOSITE SAMPLE DATA

BEGIN DATE YR _____ MO _____ DAY _____ TIME _____ LAB NO _____

END DATE YR _____ MO _____ DAY _____ TIME _____ EQUIPMENT CODE _____

FLOW RATE _____ (50030) MGD _____ (50052) 1000's OF GAL DURING COMPOSITE PERIOD SAMPLER NAME CODE _____

WATER CHEMISTRY

LAB NO AQ0902

SAMPLE CONTAINER	TAG COLOR	PRESERVATIVE	LABORATORY MOBILE	LABORATORY REGION	ANALYSES
1 - PINT JAR	WHITE		X		METALS-ICP SCAN AND Hg + TETRA ETHYL LEAD
1 - PINT JAR	PURPLE GREEN		X		EXTACTABLE ORGANICS, PESTICIDES, VOLATILE ORGANICS

CONTACT _____ SAMPLE ☒ YES SPLIT ☐ NO _____

REMARKS LOW HAZARD ENVIRONMENTAL SOIL SAMPLE

LIT # 53249041

EPA 9263.16 75

GSA-KC 78 1655

FIELD SHEET

EN' RONMENTAL PROTECTION AGENCY — GION VII

SURVEILLANCE , A LYSIS DIVISION, 25 FUNSTON AD, KANSAS CITY, KANSAS 65115

STATION IDENTIFICATION

SURVEY NO _____ SURVEY LEADER Bill Ritthaler STORET NO _____

DESCRIPTION Radium Petroleum – Kansas City, Missouri

SOIL 0-6" DEPTH C-SAMPLE LINE 0-6"

GRAB SAMPLE DATA

FLOW	TEMP °C		PH	DO	FECAL COLI	OIL & GREASE	OTHER	OTHER
☐ 00059 (GPM) ☐ 00061 (CFS)	AIR 00020	WATER 00010						

COLLECTION DATE YR 84 MO 04 DAY 24 TIME 1430 SAMPLER NAME CODE _____ LAB NO AQ0903

00400

COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____ SAMPLER NAME CODE _____ LAB NO _____

COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____ SAMPLER NAME CODE _____ LAB NO _____

COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____ SAMPLER NAME CODE _____ LAB NO _____

COMPOSITE SAMPLE DATA

BEGIN DATE YR _____ MO _____ DAY _____ TIME _____ LAB NO _____

END DATE YR _____ MO _____ DAY _____ TIME _____ EQUIPMENT CODE _____

FLOW RATE _____ SCCSC MGD _____ SCCST 1000's OF GAL DURING COMPOSITE PERIOD SAMPLER NAME CODE _____

WATER CHEMISTRY

LAB NO AQ0903

SAMPLE CONTAINER	TAG COLOR	PRESERVATIVE	LABORATORY MOBILE	LABORATORY REGION	ANALYSES
1 - PINT JAR	WHITE		X		METALS - ICP SCAN AND Hg + TETRA ETHYL LEAD
1 - PINT JAR	PURPLE GREEN		X		EXTRACTABLE ORGANICS, PESTICIDES, VOLATILE ORGANICS

CONTACT _____ SAMPLE ☒ YES SPLIT ☐ NO _____

REMARKS LOW HAZARD ENVIRONMENTAL SOIL SAMPLE

LOT II 523557

FIELD SHEET

EN RONMENTAL PROTECTION AGENCY - GION VII

SURVEILLANCE , J A. ALYSIS DIVISION, 25 FUNSTON AD, KANSAS CITY, KANSAS 65115

STATION IDENTIFICATION

SURVEY NO _____ SURVEY LEADER Bill Ritthaler STORET NO _____

DESCRIPTION Radium Petroleum - Kansas City, Missouri

[redacted] SOIL 0-6" DEPTH D-SAMPLE LINE

GRAB SAMPLE DATA

FLOW	TEMP °C		PH	DO	FECAL COLI	OIL & GREASE	OTHER	OTHER
☐ 00059 (GPM) ☐ 00061 (CFS)	AIR 00020	WATER 00010						

COLLECTION DATE YR 84 MO 04 DAY 24 TIME 1530 SAMPLER NAME CODE _____ LAB NO AQ0904

00400

COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____ SAMPLER NAME CODE _____ LAB NO _____

COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____ SAMPLER NAME CODE _____ LAB NO _____

COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____ SAMPLER NAME CODE _____ LAB NO _____

COMPOSITE SAMPLE DATA

BEGIN DATE YR _____ MO _____ DAY _____ TIME _____ LAB NO _____

END DATE YR _____ MO _____ DAY _____ TIME _____ EQUIPMENT CODE _____

FLOW RATE _____ 50050 MGD _____ 50052 1000's OF GAL DURING COMPOSITE PERIOD SAMPLER NAME CODE _____

WATER CHEMISTRY

LAB NO AQ0904

SAMPLE CONTAINER	TAG COLOR	PRESERVATIVE	LABORATORY MOBILE	LABORATORY REGION	ANALYSES
1 - PINT JAR	WHITE		X		METALS-ICP SCAN AND Hg + TETRAETHYL LEAD
1 - PINT JAR	PURPLE GREEN		X		EXTRACTABLE ORGANICS, PESTICIDES, VOLATILE ORGANICS

CONTACT _____ SAMPLE ☒ YES SPLIT ☐ NO _____

REMARKS LOW HAZARD ENVIRONMENTAL SOIL SAMPLE

LOT# 523353

7 EPA 9263 .4 75

GSA-MC-78-1695

FIELD SHEET

EN' RONMENTAL PROTECTION AGENCY — GION VII

SURVEILLANCE ,) A .LYSIS DIVISION, 25 FUNSTON AD, KANSAS CITY, KANSAS 65115

STATION IDENTIFICATION

SURVEY NO _____ SURVEY LEADER Bill Rithaler STORET NO _____

DESCRIPTION Radium Petroleum - Kansas City, Missouri

SOIL, 0-6" DEPTH E - SAMPLE LINE

GRAB SAMPLE DATA

FLOW	TEMP °C AIR	TEMP °C WATER	PH	DO	FECAL COLI	OIL & GREASE	OTHER	OTHER
☐ 00059 (GPM) ☐ 00061 (CFS)	00020	00010						

COLLECTION DATE YR 84 MO 04 DAY 24 TIME 1600 SAMPLER NAME CODE _____ LAB NO AQ0905

00400

COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____ SAMPLER NAME CODE _____ LAB NO _____

COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____ SAMPLER NAME CODE _____ LAB NO _____

COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____ SAMPLER NAME CODE _____ LAB NO _____

COMPOSITE SAMPLE DATA

BEGIN DATE YR _____ MO _____ DAY _____ TIME _____ LAB NO _____

END DATE YR _____ MO _____ DAY _____ TIME _____ EQUIPMENT CODE _____

FLOW RATE _____ SCCSC MGD _____ SCCSC 1000 s OF GAL DURING COMPOSITE PERIOD SAMPLER NAME CODE _____

WATER CHEMISTRY

LAB NO AQ0905

SAMPLE CONTAINER	TAG COLOR	PRESERVATIVE	LABORATORY MOBILE	LABORATORY RIG ON	ANALYSES
1 - PINT JAR	WHITE		X		METALS - ICP SCAN AND Hg & TETRA ETHYL LEAD
1 - PINT JAR	PURPLE GREEN		X		EXTACTABLE ORGANICS, PESTICIDES, VOLATILE ORGANICS

CONTACT _____ SAMPLE ☒ YES SPLIT ☐ NO _____

REMARKS LOW HAZARD ENVIRONMENTAL SOIL SAMPLE

LOT #S 23353

7 EPA 9263 -6 75

GSA-KC 78 3695

FIELD SHEET

EN''RONMENTAL PROTECTION AGENCY – GION VII

SURVEILLANCE .) A .LYSIS DIVISION, 25 FUNSTON AD, KANSAS CITY, KANSAS 65115

STATION IDENTIFICATION

SURVEY NO _____ SURVEY LEADER Bill Rittmaler STORET NO _____

DESCRIPTION Radium Petroleum – Kansas City, Missouri

SOIL, 6-12" DEPTH A = SAMPLE LINE

GRAB SAMPLE DATA

FLOW	TEMP °C AIR	TEMP °C WATER	PH	DO	FECAL COLI	OIL & GREASE	OTHER	OTHER
☐ 00059 (GPM) ☐ 00061 (CFS)	00020	00010						
COLLECTION DATE YR 84 MO 04 DAY 24 TIME 1120 SAMPLER NAME CODE _____ LAB NO A00907								
			00400					
COLLECTION DATE YR ___ MO ___ DAY ___ TIME ___ SAMPLER NAME CODE ___ LAB NO ___								
COLLECTION DATE YR ___ MO ___ DAY ___ TIME ___ SAMPLER NAME CODE ___ LAB NO ___								
COLLECTION DATE YR ___ MO ___ DAY ___ TIME ___ SAMPLER NAME CODE ___ LAB NO ___								

COMPOSITE SAMPLE DATA

BEGIN DATE YR ___ MO ___ DAY ___ TIME ___ LAB NO ___

END DATE YR ___ MO ___ DAY ___ TIME ___ EQUIPMENT CODE ___

FLOW RATE ___ SECOND MGD ___ SECOND 1000's OF GAL DURING COMPOSITE PERIOD SAMPLER NAME CODE ___

WATER CHEMISTRY

LAB NO AQ 0907

SAMPLE CONTAINER	TAG COLOR	PRESERVATIVE	LABORATORY MOBILE	LABORATORY REGION	ANALYSES
1 – PINT JAR	WHITE		X		METALS-ICP SCAN AND Hg + TETRA ETHYL LEAD
1 – PINT JAR	PURPLE GREEN		X		EXTACTABLE ORGANICS, PESTICIDES, VOLATILE ORGANICS

CONTACT _____ SAMPLE ☒ YES SPLIT ☐ NO _____

REMARKS LOW HAZARD ENVIRONMENTAL SOIL SAMPLE

LOT# 53249061

7 EPA 9263 -6 75 GSA-KC 78 1595

FIELD SHEET

EN' 'ONMENTAL PROTECTION AGENCY — GION VII

SURVEILLANCE ' ' A. .LYSIS DIVISION, 25 FUNSTON AD, KANSAS CITY, KANSAS 65115

STATION IDENTIFICATION

SURVEY NO _____ SURVEY LEADER Bill Ritthaler STORET NO _____

DESCRIPTION Radium Petroleum - Kansas City, Missouri

SOIL, 6-12" DEPTH B SAMPLE LINE 6-12"

GRAB SAMPLE DATA

FLOW	TEMP °C		PH	DO	FECAL COLI	OIL & GREASE	OTHER	OTHER
☐ 00059 (GPM) ☐ 00061 (CFS)	AIR 00020	WATER 00010						

COLLECTION DATE YR 84 MO 04 DAY 24 TIME 1415 SAMPLER NAME CODE _____ LAB NO AQ0908

00400

COLLECTION DATE YR ____ MO ____ DAY ____ TIME ____ SAMPLER NAME CODE ____ LAB NO ____

COLLECTION DATE YR ____ MO ____ DAY ____ TIME ____ SAMPLER NAME CODE ____ LAB NO ____

COLLECTION DATE YR ____ MO ____ DAY ____ TIME ____ SAMPLER NAME CODE ____ LAB NO ____

COMPOSITE SAMPLE DATA

BEGIN DATE YR ____ MO ____ DAY ____ TIME ____ LAB NO ____

END DATE YR ____ MO ____ DAY ____ TIME ____ EQUIPMENT CODE ____

FLOW RATE ____ 50050 MGD ____ 50052 1000's OF GAL DURING COMPOSITE PERIOD SAMPLER NAME CODE ____

WATER CHEMISTRY

LAB NO AQ0908

SAMPLE CONTAINER	TAG COLOR	PRESERVATIVE	LABORATORY MOBILE	LABORATORY REGION	ANALYSES
1 - PINT JAR	WHITE		X		METALS - ICP SCAN AND Hg + TETRA ETHYL LEAD
1 - PINT JAR	PURPLE GREEN		X		EXTACTABLE ORGANICS, PESTICIDES, VOLATILE ORGANICS

CONTACT _____ SAMPLE ☒ YES SPLIT ☐ NO _____

REMARKS LOW HAZARD ENVIRONMENTAL SOIL SAMPLE

LOT#532496.1

7 EPA 9263 (6 75) GSA-NC 72 3695

FIELD SHEET

NV. NMENTAL PROTECTION AGENC' -.R .ON VII

SURVEILLANCE AND ANALYSIS DIVISION, 25 FUNSTON R. .D, KANSAS CITY, KANSAS 65115

STATION IDENTIFICATION

SURVEY NO _____ SURVEY LEADER Bill Ritthaler STORET NO _____

DESCRIPTION Radium Petroleum - Kansas City, Missouri

SOIL 6-12" DEPTH C- SAMPLE LINE = 6-12"

GRAB SAMPLE DATA

FLOW	TEMP °C		PH	DO	FECAL COLI	OIL & GREASE	OTHER	OTHER
☐ 00059 (GPM) ☐ 00061 (CFS)	AIR 00020	WATER 00010						

COLLECTION DATE YR 84 MO 04 DAY 24 TIME 1500 SAMPLER NAME CODE _____ LAB NO AQ0909

00400

COLLECTION DATE YR ____ MO ____ DAY ____ TIME ____ SAMPLER NAME CODE ____ LAB NO ____

COLLECTION DATE YR ____ MO ____ DAY ____ TIME ____ SAMPLER NAME CODE ____ LAB NO ____

COLLECTION DATE YR ____ MO ____ DAY ____ TIME ____ SAMPLER NAME CODE ____ LAB NO ____

COMPOSITE SAMPLE DATA

BEGIN DATE YR ____ MO ____ DAY ____ TIME ____ LAB NO ____

END DATE YR ____ MO ____ DAY ____ TIME ____ EQUIPMENT CODE ____

FLOW RATE ____ (50050) MGD ____ (50052) 1000's OF GAL DURING COMPOSITE PERIOD SAMPLER NAME CODE ____

WATER CHEMISTRY LAB NO AQ0909

SAMPLE CONTAINER	TAG COLOR	PRESERVATIVE	LABORATORY MOBILE	LABORATORY REGION	ANALYSES
1 - PINT JAR	WHITE		X		METALS-ICP SCAN AND Hg + TETRA ETHYL LEAD
1 - PINT JAR	PURPLE GREEN		X		EXTRACTABLE ORGANICS, PESTICIDES, VOLATILE ORGANICS

SAMPLE ☒ YES SPLIT ☐ NO

CONTACT _____

REMARKS LOW HAZARD ENVIRONMENTAL SOIL SAMPLE

#523353

GSA-KC 78 3 X 95

7 EPA 9263 1A 75

FIELD SHEET

EN ONMENTAL PROTECTION AGENCY – GION VII

SURVEILLANCE A J A.ALYSIS DIVISION, 25 FUNSTON AD, KANSAS CITY, KANSAS 65115

STATION IDENTIFICATION

SURVEY NO _____ SURVEY LEADER Bill Ritthaler STORET NO _____

DESCRIPTION Radium Petroleum – Kansas City, Missouri

SOIL 6-12" DEPTH D-SAMPLE LINE

GRAB SAMPLE DATA

FLOW	TEMP °C AIR 00020	TEMP °C WATER 00010	PH	DO	FECAL COLI	OIL & GREASE	OTHER	OTHER
☐ 00059 (GPM) ☐ 00061 (CFS)								
COLLECTION DATE YR 84 MO 04 DAY 24 TIME 1545 SAMPLER NAME CODE _____ LAB NO AQ0910								
			00400					
COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____ SAMPLER NAME CODE _____ LAB NO _____								
COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____ SAMPLER NAME CODE _____ LAB NO _____								
COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____ SAMPLER NAME CODE _____ LAB NO _____								

COMPOSITE SAMPLE DATA

BEGIN DATE YR _____ MO _____ DAY _____ TIME _____ LAB NO _____

END DATE YR _____ MO _____ DAY _____ TIME _____ EQUIPMENT CODE _____

FLOW RATE _____ (50050) MGD _____ (50052) 1000's OF GAL DURING COMPOSITE PERIOD SAMPLER NAME CODE _____

WATER CHEMISTRY

LAB NO AQ 0910

SAMPLE CONTAINER	TAG COLOR	PRESERVATIVE	LABORATORY MOBILE	LABORATORY REGION	ANALYSES
1 - PINT JAR	WHITE		X		METALS-ICP SCAN AND Hg + TETRA ETHYL LEAD
1 - PINT JAR	PURPLE GREEN		X		EXTACTABLE ORGANICS, PESTICIDES, VOLATILE ORGANICS

CONTACT _____ SAMPLE ☒ YES SPLIT ☐ NO _____

REMARKS LOW HAZARD ENVIRONMENTAL SOIL SAMPLE

LOT #523153

FIELD SHEET

EN' ONMENTAL PROTECTION AGENCY — SION VII

SURVEILLANCE A AL..LYSIS DIVISION, 25 FUNSTON AD, KANSAS CITY, KANSAS 65115

STATION IDENTIFICATION

SURVEY NO ____ SURVEY LEADER Bill Ritthaler STORET NO ____

DESCRIPTION Radium Petroleum - Kansas City, Missouri

SOIL 6-12" DEPTH E - SAMPLE LINE

GRAB SAMPLE DATA

FLOW	TEMP °C		PH	DO	FECAL COLI	OIL & GREASE	OTHER	OTHER
☐ 00059 (GPM) ☐ 00061 (CFS)	AIR 00020	WATER 00010						
COLLECTION DATE YR 84 MO 04 DAY 24 TIME 1615					SAMPLER NAME CODE		LAB NO A00911	
			00400					
COLLECTION DATE YR ____ MO ____ DAY ____ TIME ____					SAMPLER NAME CODE		LAB NO	
COLLECTION DATE YR ____ MO ____ DAY ____ TIME ____					SAMPLER NAME CODE		LAB NO	
COLLECTION DATE YR ____ MO ____ DAY ____ TIME ____					SAMPLER NAME CODE		LAB NO	

COMPOSITE SAMPLE DATA

BEGIN DATE YR ____ MO ____ DAY ____ TIME ____ LAB NO ____

END DATE YR ____ MO ____ DAY ____ TIME ____ EQUIPMENT CODE ____

FLOW RATE ____ SCCSC MGD ____ SCCSC 1000 s OF GAL DURING COMPOSITE PERIOD SAMPLER NAME CODE ____

WATER CHEMISTRY

LAB NO A0 0911

SAMPLE CONTAINER	TAG COLOR	PRESERVATIVE	LABORATORY MOBILE	LABORATORY REGION	ANALYSES
1 - PINT JAR	WHITE		X		METALS - ICP SCAN AND Hg + TETRA ETHYL LEAD
1 - PINT JAR	PURPLE GREEN		X		EXTRACTABLE ORGANICS, PESTICIDES, VOLATILE ORGANICS

CONTACT ____ SAMPLE ☒ YES SPLIT ☐ NO ____

REMARKS LOW HAZARD ENVIRONMENTAL SOIL SAMPLE

LOT # 523353

7 EPA 9263 .4 75

GSA-HC 78 3 8 55

ANALYTICAL DATA REPORT

Tentatively Identified Compounds from GC/MS Scan

Fraction S. V.

Sample Number AQ0903

Matrix Soil

Method No. 9301M05

Date/Analyst 7-6-84 / MEA

Units ug/kg

Scan Number	Compound Name	*Estimated Value
1349	2,6,10,14-Tetramethylpentadecane	2600 J
1431	Octadecane	1400 J
1546	Hexadecanoic acid	1300 J
1729	Hexatriacontene	3600 J
1975	2,6,10,14-Tetramethylhexadecane	3000 J

* This is a crude estimation based on response relative to an internal standard An authentic standard has not been run.

ANALYTICAL DATA REPORT

Tentatively Identified Compounds from GC/MS Scan

Fraction S. V.

Sample Number AQ0904

Matrix Soil

Method No. 9301M05

Date/Analyst 7-6-84 / MEA

Units ug/kg

Scan Number	Compound Name	*Estimated Value
876	2,5-Dimethylundecane	720 J
927	7-Methyltridecane	950 J
950	Tridecane	1,500 J
1079	2,6,10,14-Tetramethylheptadecane	4000 J
1107	Pentadecane	3500 J
1251	2,6,10,14-Tetramethylpentadecane	7800 J
1431	Eicosane	1,800 J

* This is a crude estimation based on response relative to an internal standard An authentic standard has not been run.

ANALYTICAL DATA REPORT

Tentatively Identified Compounds from GC/MS Scan

Fraction S.V.

Sample Number AQ0907

Matrix Soil

Method No. 9301M05

Date/Analyst 7-6-84 / MEA

Units ug/kg

Scan Number	Compound Name	*Estimated Value
1127	Tridecane	8,100 J
1231	Undecane	14,000 J
1329	2,5-Dimethylnonane	14,000 J
1504	Octadecane	13,000 J
1514	2,6,10,14-Tetramethylpentadecane	14,000 J

* This is a crude estimation based on response relative to an internal standard An authentic standard has not been run.

ANALYTICAL DATA REPORT

Tentatively Identified Compounds from GC/MS Scan

Fraction S.V.

Sample Number A8-0910

Matrix Soil

Method No. 9301M05

Date/Analyst 7-6-84 / MEA

Units ug/kg

Scan Number	Compound Name	*Estimated Value
782	Undecane	6,100 J
894	Dodecane	12,000 J
1098	Hexadecane	11,000 J
1321	2,6-Dimethylundecane	7,300 J
1363	Octadecane	6,600 J
1368	2,6,10,14-Tetramethylpentadecane	7,600 J

* This is a crude estimation based on response relative to an internal standard. An authentic standard has not been run.

ANALYTICAL DATA REPORT

Tentatively Identified Compounds from GC/MS Scan

Fraction Vol.

Sample Number AQ0901

Matrix Soil

Method No. 9301M05

Date/Analyst 7-6-84

Units ug/kg

Scan Number	Compound Name	*Estimated Value
488	1-Ethyl-3-Methyl-cis-cyclopentane	5.8 J
565	1-Ethyl-1-Methyl-cyclohexane	7.0 J

* This is a crude estimation based on response relative to an internal standard An authentic standard has not been run.

ANALYTICAL DATA REPORT

Tentatively Identified Compounds from GC/MS Scan

Fraction Vol.

Sample Number AQ0902

Matrix Soil

Method No. 9301M05

Date/Analyst 7-6-84 / MEA

Units ug/kg

Scan Number	Compound Name	*Estimated Value
236	1,1,2-Trichloro-1,2,2-trifluoro ethane	32 J
392	cycloheptane	18 J
427	4-methyl-2-pentanol	33 J
564	1-Ethyl-1-methyl cyclohexane	58 J
585	(1-Methylethyl)-cyclohexane	100 J

* This is a crude estimation based on response relative to an internal standard. An authentic standard has not been run.

ANALYTICAL DATA REPORT

Tentatively Identified Compounds from GC/MS Scan

Fraction Vol

Sample Number AQ0904

Matrix Soil

Method No. 9301M05

Date/Analyst 7-6-84 / MEA

Units ug/kg

Scan Number	Compound Name	*Estimated Value
392	Methylcyclohexane	7.0 J
434	2-Propyl-1-heptanol	4.6 J
459	2,2,4,6,6-Pentamethylheptane	12 J
536	Cis-octahydro-1H-Indene	60 J
567	1-Ethyl-1-methylcyclohexane	39 J
588	(1-Methylethyl)-cyclohexane	49 J

* This is a crude estimation based on response relative to an internal standard. An authentic standard has not been run.

ANALYTICAL DATA REPORT

Tentatively Identified Compounds from GC/MS Scan

Fraction: Vol.

Sample Number: AQ0907

Matrix: Soil

Method No.: 9.301M05

Date/Analyst: 7-6-84 / MEA

Units: ug/kg

Scan Number	Compound Name	*Estimated Value
422	2,2,3,4-Tetramethyl pentane	11 J
489	1,1,3-Trimethyl cyclohexane	61 J

* This is a crude estimation based on response relative to an internal standard. An authentic standard has not been run.

ANALYTICAL DATA REPORT

Tentatively Identified Compounds from GC/MS Scan

Fraction Vol.

Sample Number AQ0908

Matrix Soil

Method No. 9301M05

Date/Analyst 7-6-84 / MEA

Units ug/kg

Scan Number	Compound Name	*Estimated Value
391	Methylcyclohexane	5.2 J
489	Cis-1-ethyl-3-Methylcyclopentane	6.2 J

* This is a crude estimation based on response relative to an internal standard An authentic standard has not been run.

ANALYTICAL DATA REPORT

Tentatively Identified Compounds from GC/MS Scan

Fraction Vol.

Sample Number AQ0910

Matrix Soil

Method No. 9301M05

Date/Analyst 7-6-84 /MEA

Units

Scan Number	Compound Name	*Estimated Value
276	Methylcyclopentane	4.0 J
325	2-Methylpentane	2.0 J
378	Methylcyclohexane	5.0 J
422	3,4-Dimethylheptane	4.0 J
446	2,5-Dimethylheptane	8.0 J
516	1,1,3-Trimethylcyclohexane	16 J

* This is a crude estimation based on response relative to an internal standard An authentic standard has not been run.

TITLE:RADIUM PETROLEUM K.C. MO.
MATRIX: SEDIMENT
UNITS: UG/KG

ANALYSIS TYPE: CONTRACT BASE-NEU ORGANICS
DATE: 7/5/84
METHOD #: 9301M05

SAMPLE PREP:
ANALYST: COB
LAB:MEA

REVIEWER: GCS

SAMPLE NUMBERS

COMPOUND	STORET#	AQ0900	AQ0901	AQ0902	AQ0903	AQ0904	AQ0905	AQ0907	AQ0908
ACENAPHTHENE	34208	500. U	4700. U	4900. U	9400. U	3900. U	460. U	5100. U	41000. U
BENZIDINE	39121	2000. U	19000. U	20000. U	37000. U	16000. U	1800. U	20000. U	64000. U
1,2,4 TRICHLOROBENZENE	34554	500. U	4700. U	4900. U	9400. U	3900. U	460. U	5100. U	41000. U
HEXACHLOROBENZENE	39701	500. U	4700. U	4900. U	9400. U	3900. U	460. U	5100. U	41000. U
HEXACHLOROETHANE	34399	500. U	4700. U	4900. U	9400. U	3900. U	460. U	5100. U	41000. U
BIS(2-CHLOROETHYL)ETHER	34276	500. U	4700. U	4900. U	9400. U	3900. U	460. U	5100. U	41000. U
2-CHLORONAPHTHALENE	34584	500. U	4700. U	4900. U	9400. U	3900. U	460. U	5100. U	41000. U
1,2 DICHLOROBENZENE	34539	500. U	4700. U	4900. U	9400. U	3900. U	460. U	5100. U	41000. U
1,3 DICHLOROBENZENE	34569	500. U	4700. U	4900. U	9400. U	3900. U	460. U	5100. U	41000. U
1,4 DICHLOROBENZENE	34574	500. U	4700. U	4900. U	9400. U	3900. U	460. U	5100. U	41000. U
3,3' DICHLOROBENZIDINE	34634	1000. U	9400. U	9800. U	19000. U	7800. U	920. U	10000. U	82000. U
2,4 DINITROTOLUENE	34614	1000. U	9400. U	9800. U	19000. U	7800. U	920. U	10000. U	82000. U
2,6 DINITROTOLUENE	34629	500. U	4700. U	4900. U	9400. U	3900. U	460. U	5100. U	41000. U
1,2 DIPHENYLHYDRAZINE	34349	1000. U	9400. U	9800. U	19000. U	7800. U	920. U	10000. U	82000. U
FLUORANTHENE	34379	500. U	4700. U	4900. U	9400. U	3900. U	460. U	5100. U	41000. U
4-CHLOROPHENYL PHENYL ETHER	34644	500. U	4700. U	4900. U	9400. U	3900. U	460. U	5100. U	41000. U
4-BROMOPHENYL PHENYL ETHER	34639	500. U	4700. U	4900. U	9400. U	3900. U	460. U	5100. U	41000. U
BIS(2-CHLOROISOPROPYL)ETHER	34286	1000. U	9400. U	9800. U	19000. U	7800. U	920. U	10000. U	82000. U
BIS(2-CHLOROETHOXY)METHANE	34281	1000. U	9400. U	9800. U	19000. U	7800. U	920. U	10000. U	82000. U
HEXACHLOROBUTADIENE	39705	500. U	4700. U	4900. U	9400. U	3900. U	460. U	5100. U	41000. U
HEXACHLOROCYCLOPENTADIENE	34389	500. U	4700. U	4900. U	9400. U	3900. U	460. U	5100. U	41000. U
ISOPHORONE	34411	500. U	4700. U	4900. U	9400. U	3900. U	460. U	5100. U	41000. U
NAPHTHALENE	34411	500. U	4700. U	4900. U	9400. U	3900. U	460. U	5100. U	41000. U
NITROBENZENE	34450	500. U	4700. U	4900. U	9400. U	3900. U	460. U	5100. U	41000. U
N-NITROSODIPHENYLAMINE	34436	500. U	4700. U	4900. U	480. M	3900. U	460. U	5100. U	41000. U
N-NITROSODI-N-PROPYLAMINE	34431	500. U	4700. U	4900. U	9400. U	3900. U	460. U	5100. U	41000. U
BIS(2-ETHYLHEXYL) PHTHALATE	39102	500. U	4700. U	4900. U	630. M	380. M	460. U	5100. U	41000. U
BENZYL BUTYL PHTHALATE	34295	500. U	4700. U	4900. U	9400. U	3900. U	460. U	5100. U	41000. U
DI-N-BUTYL PHTHALATE	39112	500. U	4700. U	4900. U	9400. U	3900. U	460. U	5100. U	41000. U
DI-N-OCTYL PHTHALATE	34599	500. U	4700. U	4900. U	9400. U	270. M	460. U	5100. U	41000. U
DIETHYL PHTHALATE	34339	500. U	4700. U	4900. U	9400. U	3900. U	460. U	5100. U	41000. U
DIMETHYL PHTHALATE	34344	500. U	4700. U	4900. U	9400. U	3900. U	460. U	5100. U	41000. U
BENZO(A)ANTHRACENE	34529	500. U	4700. U	4900. U	9400. U	3900. U	460. U	5100. U	41000. U
BENZO(A)PYRENE	34250	1000. U	9400. U	9800. U	19000. U	7800. U	920. U	10000. U	82000. U
BENZO(B)FLUORANTHENE	34233	1000. U	9400. U	9800. U	19000. U	7800. U	920. U	10000. U	82000. U
BENZO(K)FLUORANTHENE	34245	1000. U	9400. U	9800. U	19000. U	7800. U	920. U	10000. U	82000. U
CHRYSENE	34323	500. U	4700. U	4900. U	540. M	3900. U	460. U	5100. U	41000. U
ACENAPHTHYLENE	34203	500. U	4700. U	4900. U	9400. U	3900. U	460. U	5100. U	41000. U
ANTHRACENE	34223	500. U	4700. U	4900. U	9400. U	3900. U	460. U	5100. U	41000. U
BENZO(GHI)PERYLENE	34524	1000. U	9400. U	9800. U	19000. U	7800. U	920. U	10000. U	82000. U
FLUORENE	34384	500. U	4700. U	4900. U	9400. U	3900. U	460. U	5100. U	41000. U
PHENANTHRENE	34464	500. U	4700. U	4900. U	9400. U	3900. U	460. U	5100. U	41000. U
DIBENZO(A,H)ANTHRACENE	34559	1000. U	9400. U	9800. U	19000. U	7800. U	920. U	10000. U	82000. U
INDENO(1,2,3,CD)PYRENE	34406	1000. U	9400. U	9800. U	19000. U	7800. U	920. U	10000. U	82000. U
PYRENE	34472	500. U	4700. U	4900. U	9400. U	3900. U	460. U	5100. U	41000. U

TITLE:RADIUM PETROLEUM K.C. MO.
MATRIX: SEDIMENT
UNITS: UG/KG

ANALYSIS TYPE: CONTRACT BASE-NEU ORGANICS
DATE: 7/5/84
METHOD #: 9301M05

SAMPLE PREP:
ANALYST: COB
LAB:MEA

REVIEWER: [illegible] KCS [illegible]

COMPOUND	STORET#	SAMPLE NUMBERS AQ0909	AQ0910	AQ0911	AQ0917
ACENAPHTHENE	34208	4300. U	4000. U	500. U	500. U
BENZIDINE	39121	17000. U	16000. U	2000. U	2000. U
1,2,4 TRICHLOROBENZENE	34554	4300. U	4000. U	500. U	500. U
HEXACHLOROBENZENE	39701	4300. U	4000. U	500. U	500. U
HEXACHLOROETHANE	34399	4300. U	4000. U	500. U	500. U
BIS(2-CHLOROETHYL)ETHER	34276	4300. U	4000. U	500. U	500. U
2-CHLORONAPHTHALENE	34584	4300. U	4000. U	500. U	500. U
1,2 DICHLOROBENZENE	34539	4300. U	4000. U	500. U	500. U
1,3 DICHLOROBENZENE	34569	4300. U	4000. U	500. U	500. U
1,4 DICHLOROBENZENE	34574	4300. U	4000. U	500. U	500. U
3,3' DICHLOROBENZIDINE	34634	8600. U	8000. U	1000. U	1000. U
2,4 DINITROTOLUENE	34614	8600. U	8000. U	1000. U	1000. U
,6 DINITROTOLUENE	34629	4300. U	4000. U	500. U	500. U
1,2 DIPHENYLHYDRAZINE	34349	8600. U	8000. U	1000. U	1000. U
FLUORANTHENE	34379	4300. U	4000. U	500. U	500. U
4-CHLOROPHENYL PHENYL ETHER	34644	4300. U	4000. U	500. U	500. U
4-BROMOPHENYL PHENYL ETHER	34639	4300. U	4000. U	500. U	500. U
BIS(2-CHLOROISOPROPYL)ETHER	34286	8600. U	8000. U	1000. U	1000. U
BIS(2-CHLOROETHOXY)METHANE	34281	8600. U	8000. U	1000. U	1000. U
HEXACHLOROBUTADIENE	39705	4300. U	4000. U	500. U	500. U
HEXACHLOROCYCLOPENTADIENE	34389	4300. U	4000. U	500. U	500. U
ISOPHORONE	34411	4300. U	4000. U	500. U	500. U
NAPHTHALENE	34411	4300. U	4000. U	500. U	500. U
NITROBENZENE	34450	4300. U	4000. U	500. U	500. U
N-NITROSODIPHENYLAMINE	34436	4300. U	4000. U	500. U	500. U
N-NITROSODI-N-PROPYLAMINE	34431	4300. U	4000. U	500. U	500. U
BIS(2-ETHYLHEXYL) PHTHALATE	39102	4300. U	2400. M	500. U	500. U
BENZYL BUTYL PHTHALATE	34295	4300. U	4000. U	500. U	500. U
DI-N-BUTYL PHTHALATE	39112	4300. U	4000. U	500. U	500. U
DI-N-OCTYL PHTHALATE	34599	4300. U	4000. U	500. U	500. U
DIETHYL PHTHALATE	34339	4300. U	4000. U	500. U	500. U
DIMETHYL PHTHALATE	34344	4300. U	4000. U	500. U	500. U
BENZO(A)ANTHRACENE	34529	4300. U	4000. U	500. U	500. U
BENZO(A)PYRENE	34250	8600. U	8000. U	1000. U	1000. U
BENZO(B)FLUORANTHENE	34233	8600. U	8000. U	1000. U	1000. U
BENZO(K)FLUORANTHENE	34245	8600. U	8000. U	1000. U	1000. U
CHRYSENE	34323	4300. U	4000. U	500. U	500. U
ACENAPHTHYLENE	34203	4300. U	4000. U	500. U	500. U
ANTHRACENE	34223	4300. U	4000. U	500. U	500. U
BENZO(GHI)PERYLENE	34524	8600. U	8000. U	1000. U	1000. U
FLUORENE	34384	4300. U	4000. U	500. U	500. U
PHENANTHRENE	34464	4300. U	4000. U	500. U	500. U
DIBENZO(A,H)ANTHRACENE	34559	8600. U	8000. U	1000. U	1000. U
INDENO(1,2,3,CD)PYRENE	34406	8600. U	8000. U	1000. U	1000. U
PYRENE	34472	4300. U	4000. U	500. U	500. U

TITLE:RADIUM PETROLEUM K.C.MO.
MATRIX: SEDIMENT
UNITS: UG/KG

DATE: 7-5-04
METHOD #: 9301M05

ANALYST: COA REVIEWER:
LAB: MEA

SAMPLE NUMBERS

COMPOUND	STORET#	AQ0900	AQ0901	AQ0902	AQ0903	AQ0904	AQ0905	AQ0907	AQ0908
2,4,6 TRICHLOROPHENOL	34624	500. U	4700. U	4900. U	4700. U	3900. U	460. U	5100. U	4100. U
P-CHLORO-M-CRESOL	34455	1000. U	9400. U	9800. U	9400. U	7800. U	920. U	10000. U	8200. U
2-CHLOROPHENOL	34589	500. U	4700. U	4900. U	4700. U	3900. U	460. U	5100. U	4100. U
2,4 DICHLOROPHENOL	34604	500. U	4700. U	4900. U	4700. U	3900. U	460. U	5100. U	4100. U
2,4 DIMETHYLPHENOL	34609	500. U	4700. U	4900. U	4700. U	3900. U	460. U	5100. U	4100. U
2-NITROPHENOL	34594	1000. U	9400. U	9800. U	9400. U	7800. U	920. U	10000. U	8200. U
4-NITROPHENOL	34649	5000. U	47000. U	49000. U	47000. U	39000. U	4600. U	51000. U	41000. U
2,4-DINITROPHENOL	34619	2500. U	24000. U	24000. U	23000. U	19000. U	2300. U	25000. U	21000. U
4,6 DINITRO-2-METHYLPHENOL	34660	1000. U	9400. U	9800. U	9400. U	7800. U	920. U	10000. U	8200. U
PENTACHLOROPHENOL	39061	1000. U	9400. U	9800. U	9400. U	7800. U	920. U	10000. U	8200. U
PHENOL	34695	500. U	4700. U	4900. U	4700. U	3900. U	460. U	5100. U	4100. U

TITLE:RADIUM PETROLEUM K.C.MO.
MATRIX: SEDIMENT
UNITS: UG/KG

ANALYSIS TYPE: CONTRACT ACID ORGANICS
DATE: 7-5-84
METHOD #: 9301M05

SAMPLE PREP:
ANALYST: COA
LAB:MEA

REVIEWER: GCS AMC

COMPOUND	STORET#	SAMPLE NUMBERS AQ0909	AQ0910	AQ0911	AQ0917
2,4,6 TRICHLOROPHENOL	34624	2100. U	4000. U	500. U	500. U
P-CHLORO-M-CRESOL	34455	4300. U	8000. U	1000. U	1000. U
2-CHLOROPHENOL	34589	2100. U	4000. U	500. U	500. U
2,4 DICHLOROPHENOL	34604	2100. U	4000. U	500. U	500. U
2,4 DIMETHYLPHENOL	34609	2100. U	4000. U	500. U	500. U
2-NITROPHENOL	34594	4300. U	8000. U	1000. U	1000. U
4-NITROPHENOL	34649	21000. U	40000. U	5000. U	5000. U
2,4-DINITROPHENOL	34619	11000. U	20000. U	2500. U	2500. U
4,6 DINITRO-2-METHYLPHENOL	34660	4300. U	8000. U	1000. U	1000. U
PENTACHLOROPHENOL	39061	4300. U	8000. U	1000. U	1000. U
PHENOL	34695	2100. U	4000. U	500. U	500. U

TITLE:RADIUM PET
MATRIX: SEDIMENT
UNITS: ~~UG/KG~~ mg/kg dry wt

ANALYSIS TYPE: CONTRACT INORGANICS(68-01-6809
DATE: 6/6/84
METHOD #: 9001M01

SAMPLE PREP:
ANALYST: TLB
LAB:JTC

REVIEWER: [illegible]

SAMPLE NUMBERS

COMPOUND	STORET#	AQ0900	AQ0901	AQ0902	AQ0903	AQ0904	AQ0905	AQ0907	AQ0908
ALUMINUM	01108	10000.	7300.	6900.	4100.	9800.	5200.	8800.	6100.
CHROMIUM	01029	16.	26.	110.	10.	21.	19.	37.	22.
BARIUM	01008	150.	130.	.502	110.	150.	120.	160.	140.
BERYLLIUM	01013	.7	.6	.5	.3	.5	.3	7.	.4
COBALT	01038	9.	12.	12.	7.	7.	6.	9.	12.
COPPER	01043	26.	38.	370.	30.	33.	260.	30.	130.
IRON	01170	16000.	17000.	16000.	6700.	14000.	8100.	15000.	6900.
NICKEL	01068	24.	52.	40.	16.	29.	20.	40.	21.
MANGANESE	01053	910.	510.	410.	300.	340.	260.	420.	270.
ZINC	01093	94.	450.	5900.	99.	570.	550.	500.	500.
~~BORON~~	~~01023~~	~~. U~~	~~. U~~	~~. U~~	~~. U~~	~~. U~~	~~. U~~	~~. U~~	~~. U~~
VANADIUM	01088	17.	130.	23.	14.	24.	27.	30.	18.
SILVER	01078	.7	2.	1.	2.	1.	1.	.6	3.
ARSENIC	01003	28.	49.	39.	13.	25.	14.	37.	12.
ANTIMONY	01098	3.	3.	6.	2.	4.	2.	4.	2.
SELENIUM	01148	2.	2.	2.	.5	2.	1.	2.	.3
THALLIUM	34480	.5 U	.5 U	.5 U	.5 U	.5 U	.5 U	.5 U	.5 U
MERCURY	71921	.01 U	.01 U	.01 U	.01 U	.01 U	.01 U	.01 U	.01 U
TIN	01103	1. U	1. U	16. U	1. U	1. U	1. U	4. U	1. U
CADMIUM	01028	1.2	1.9	12.	.6	1.5	1.2	2.	1.2
LEAD	01052	26.	200.	8800.	72.	160.	170.	900.	300.

TITLE:RADIUM PET
MATRIX: SEDIMENT
UNITS: UG/KG

mg/kg DLL per AC

ANALYSIS TYPE: CONTRACT INORGANICS(68-01-6809
DATE: 6/6/84
METHOD #: 9001M01

SAMPLE PREP:
ANALYST: TLD
LAB:JTC

REVIEWER: JD

SAMPLE NUMBERS

COMPOUND	STORET#	AQ0909	AQ0910	AQ0911	AQ0917
ALUMINUM	01108	16000.	12000.	6300.	12000.
CHROMIUM	01029	18.	19.	16.	15.
BARIUM	01008	140.	150.	220.	160.
BERYLLIUM	01013	.7	.5	.4	.6
COBALT	01038	11.	9.	10.	11.
COPPER	01043	50.	26.	64.	26.
IRON	01170	14000.	11000.	9000.	15000.
NICKEL	01068	24.	24.	18.	24.
MANGANESE	01053	550.	480.	420.	840.
ZINC	01093	170.	260.	270.	120.
~~BORON~~	~~01023~~	~~. U~~	~~. U~~	~~. U~~	~~. U~~
VANADIUM	01088	33.	32.	10.	21.
SILVER	01078	1.	2.	.8	.5 U
ARSENIC	01003	25.	25.	15.	23.
ANTIMONY	01098	3.	4.	2.	3.
SELENIUM	01148	2.	2.	.5	1.
THALLIUM	34480	.5 U	.5 U	.5 U	.5 U
MERCURY	71921	.01 U	.01 U	.01 U	.01 U
TIN	01103	1. U	1. U	1. U	1. U
CADMIUM	01028	.6	.64	.98	1.3
LEAD	01052	250.	120.	150.	32.

TITLE:RADIUM PETRILEUM K.C. MO.
MATRIX: SEDIMENT
UNITS: UG/KG

ANALYSIS TYPE: HSL VOLATILES
DATE: 7/5/84
METHOD #: 9301M05

SAMPLE PREP:
ANALYST: JMW
LAB:MEA

REVIEWER: GCS AMC

SAMPLE NUMBERS

COMPOUND	STORET#	AQ0900	AQ0901	AQ0902	AQ0903	AQ0904	AQ0905	AQ0907	AQ0908
ACETONE	75059	50. U	50. U	190.	50. U	50. U	50. U	60. U	50. U
2-BUTANONE	75078	100. U	100. U	100. U	100. U	100. U	100. U	120. U	100. U
CARBON DISULFIDE	78544	5. U	5. U	5. U	5. U	5. U	5. U	6. U	5. U
2-HEXANONE	75166	50. U	50. U	50. U	50. U	50. U	50. U	60. U	50. U
4-METHYL-2-PENTANONE	75169	50. U	50. U	80.	50. U	50. U	50. U	60. U	50. U
STYRENE	75129	2.5U	2.5U	2.5U	2.5U	2.5U	2.5U	3. U	2.5U
VINYL ACETATE	*****	5. U	5. U	5. U	5. U	5. U	5. U	6. U	5. U
O XYLENE	45510	2.5U	13.	72.	2.5U	31.	2.5U	3. U	110.

TITLE:RADIUM PETRILEUM K.C. MO.
MATRIX: SEDIMENT
UNITS: UG/KG

ANALYSIS TYPE: MSL VOLATILES
DATE: 7/5/84
METHOD #: 9301M05

SAMPLE PREP:
ANALYST: JMW
LAB:MEA

REVIEWER: GCS

SAMPLE NUMBERS

COMPOUND	STORET#	AQ0909	AQ0910	AQ0911	AQ0917
ACETONE	75059	50. U	60. U	60. U	60. U
2-BUTANONE	75078	100. U	120. U	120. U	120. U
CARBON DISULFIDE	78544	5. U	6. U	6. U	6. U
2-HEXANONE	75166	50. U	60. U	60. U	60. U
4-METHYL-2-PENTANONE	75169	50. U	60. U	60. U	60. U
STYRENE	75129	2.5U	3. U	3. U	3. U
VINYL ACETATE	*****	5. U	6. U	6. U	6. U
O XYLENE	45510	2.5U	13.	3. U	3. U

TITLE:RADIUM PETROLEUM K.C.MO.
MATRIX: SEDIMENT
UNITS: UG/KG

ANALYSIS TYPE: CONTRACT VOLATILE ORGANICS
DATE: 7/5/04
METHOD #: 9301M05

SAMPLE PREP:
ANALYST: COV
LAB:MCA

REVIEWER: [illegible] KCS. AMC

SAMPLE NUMBERS

COMPOUND	STORET#	AQ0900	AQ0901	AQ0902	AQ0903	AQ0904	AQ0905	AQ0907	AQ0808
ACROLEIN	34213	50. U	50. U	50. U	50. U	50. U	50. U	60. U	50. U
ACRYLONITRILE	34218	50. U	50. U	50. U	50. U	50. U	50. U	60. U	50. U
BENZENE	34237	2.5U	2.5U	6.	2.5U	2.5U	2.5U	3. U	5.6
CARBON TETRACHLORIDE	34299	2.5U	2.5U	2.5U	2.5U	2.5U	2.5U	3. U	2.5U
CHLOROBENZENE	34304	2.5U	1.9M	2.5U	2.5U	2.5U	2.5U	3. U	2.5U
1,2 DICHLOROETHANE	34534	2.5U	6.1	5.4	2.5U	2.5U	2.5U	3. U	4.1
1,1,1 TRICHLOROETHANE	34509	2.5U	110.	65.	2.5U	460.	2.5U	100.	28.
1,1 DICHLOROETHANE	34499	2.5U	19.	4.1	2.5U	10.	2.5U	3.4	10.
1,1,2 TRICHLOROETHANE	34514	2.5U	2.5U	2.5U	2.5U	2.5U	2.5U	3. U	2.5U
1,1,2,2 TETRACHLOROETHANE	34519	5. U	5. U	5. U	5. U	5. U	5. U	6. U	5. U
CHLOROETHANE	34314	5. U	5. U	5. U	5. U	5. U	5. U	6. U	5. U
2-CHLOROETHYLVINYL ETHER	34579	5. U	5. U	5. U	5. U	5. U	5. U	6. U	5. U
CHLOROFORM	34318	2.5U	2.5U	2.5U	2.5U	6.9	2.5U	3. U	2.5U
1,1 DICHLOROETHYLENE	34504	2.5U	2.5U	2.5U	2.5U	3.1	2.5U	3.5	2.5U
TRANS 1,2 DICHLOROETHENE	34549	5. U	5. U	33.	5. U	5. U	5. U	6. U	20.
1,2 DICHLOROPROPANE	34544	5. U	5. U	5. U	5. U	5. U	5. U	6. U	5. U
TRANS 1,3 DICHLOROPROPENE	34697	2.5U	2.5U	2.5U	2.5U	2.5U	2.5U	3. U	2.5U
CIS 1,3 DICHLOROPROPENE	34702	5. U	5. U	5. U	5. U	5. U	5. U	6. U	5. U
ETHYLBENZENE	34374	2.5U	2.5U	35.	2.5U	2.5U	2.5U	3. U	36.
METHYLENE CHLORIDE	34426	2.5U	56.	33.	2.5U	14.	2.6	18.	4.8
CHLOROMETHANE	34421	5. U	5. U	5. U	5. U	5. U	5. U	6. U	5. U
BROMOMETHANE	34416	5. U	5. U	5. U	5. U	5. U	5. U	6. U	5. U
BROMOFORM	34290	5. U	5. U	5. U	5. U	5. U	5. U	6. U	5. U
BROMODICHLOROMETHANE	34330	2.5U	2.5U	2.5U	2.5U	2.5U	2.5U	3. U	2.5U
CHLORODIBROMOMETHANE	34309	2.5U	2.5U	2.5U	2.5U	2.5U	2.5U	3. U	2.5U
TETRACHLOROETHENE	34478	2.5U	40.	47.	2.5U	170.	2.5U	62. J	74.
TOLUENE	34483	2.5U	2.5U	140.	2.5U	5.9	2.5U	3. U	160.
TRICHLOROETHENE	34487	2.5U	10.	31.	2.5U	8.2	2.5U	5.4	53.
VINYL CHLORIDE	34495	5. U	5. U	5. U	5. U	5. U	5. U	6. U	5. U

TITLE:RADIUM PETROLEUM K.C.MO.
MATRIX: SEDIMENT
UNITS: UG/KG

ANALYSIS TYPE: CONTRACT VOLATILE ORGANICS
DATE: 7/5/84
METHOD #: 9301M05

SAMPLE PREP:
ANALYST: COV
LAB:MEA

REVIEWER: GW GLS AMC

SAMPLE NUMBERS

COMPOUND	STORET#	AQ0909	AQ0910	AQ0911	AQ0917
ACROLEIN	34213	50. U	60. U	60. U	60. U
ACRYLONITRILE	34218	50. U	60. U	60. U	60. U
BENZENE	34237	2.5U	3. U	3. U	3. U
CARBON TETRACHLORIDE	34299	2.5U	3. U	3. U	3. U
CHLOROBENZENE	34304	2.5U	3. U	3. U	3. U
1,2 DICHLOROETHANE	34534	2.5U	3. U	3. U	3. U
1,1,1 TRICHLOROETHANE	34509	2.5U	300.	6.3	3. U
DICHLOROETHANE	34499	2.5U	4.	3. U	3. U
1,1,2 TRICHLOROETHANE	34514	2.5U	3. U	3. U	3. U
1,1,2,2 TETRACHLOROETHANE	34519	5. U	6. U	6. U	6. U
OROETHANE	34314	5. U	6. U	6. U	6. U
CHLOROETHYLVINYL ETHER	34579	5. U	6. U	6. U	6. U
CHLOROFORM	34318	2.5U	3.1	3. U	3. U
1,1 DICHLOROETHYLENE	34504	2.5U	9.6	3. U	3. U
TRANS 1,2 DICHLOROETHENE	34549	5. U	6. U	6. U	6. U
1,2 DICHLOROPROPANE	34544	5. U	6. U	6. U	6. U
TRANS 1,3 DICHLOROPROPENE	34697	2.5U	3. U	3. U	3. U
CIS 1,3 DICHLOROPROPENE	34702	5. U	6. U	6. U	6. U
ETHYLBENZENE	34374	2.5U	3. U	3. U	3. U
METHYLENE CHLORIDE	34426	14.	52.	2.6M	1.8M
CHLOROMETHANE	34421	5. U	6. U	6. U	6. U
BROMOMETHANE	34416	5. U	6. U	6. U	6. U
BROMOFORM	34290	5. U	6. U	6. U	6. U
BROMODICHLOROMETHANE	34330	2.5U	3. U	3. U	3. U
CHLORODIBROMOMETHANE	34309	2.5U	3. U	3. U	3. U
TETRACHLOROETHENE	34478	2.5U	77.	3. U	3. U
TOLUENE	34483	2.5U	3. U	3. U	3. U
TRICHLOROETHENE	34487	2.5U	5.2	3. U	3. U
NYL CHLORIDE	34495	5. U	6. U	6. U	6. U

TITLE:RADIUM PETROLEUM K.C. MO.
MATRIX: SEDIMENT
UNITS: UG/KG

ANALYSIS TYPE: CONTRACT PESTICIDE ORGANICS
DATE: 7/5/84
METHOD #: 9301M05

SAMPLE PREP:
ANALYST: COP
LAB:MEA

REVIEWER: KLS AM

SAMPLE NUMBERS

COMPOUND	STORET#	AQ0900	AQ0901	AQ0902	AQ0903	AQ0904	AQ0905	AQ0907	AQ0908
ALDRIN	39333	5.2U	240. U	24. U	48. U	4.8U	4.8U	52. U	40. U
DIELDRIN	39383	5.2U	240. U	24. U	48. U	4.8U	4.8U	52. U	40. U
CHLORDANE	39351	52. U	2400. U	240. U	790.	48. U	48. U	520. U	400. U
4,4,DDT	39301	5.2U	240. U	24. U	48. U	4.8U	4.8U	52. U	40. U
4,4, DDE	39321	5.2U	240. U	24. U	48. U	4.8U	4.8U	52. U	40. U
4,4 DDD	39311	5.2U	240. U	24. U	48. U	4.8U	4.8U	52. U	40. U
ALPHA ENDOSULFAN	34364	5.2U	240. U	24. U	48. U	4.8U	4.8U	52. U	40. U
BETA ENDOSULFAN	34359	5.2U	240. U	24. U	48. U	4.8U	4.8U	52. U	40. U
ENDOSULFAN SULFATE	34354	5.2U	240. U	24. U	48. U	4.8U	4.8U	52. U	40. U
ENDRIN	39393	5.2U	240. U	24. U	48. U	4.8U	4.8U	52. U	40. U
ENDRIN ALDEHYDE	34369	5.2U	240. U	24. U	48. U	4.8U	4.8U	52. U	40. U
HEPTACHLOR	39413	5.2U	240. U	24. U	48. U	4.8U	4.8U	52. U	40. U
HEPTACHLOR EPOXIDE	39423	5.2U	240. U	24. U	48. U	4.8U	4.8U	52. U	40. U
ALPHA BHC	39076	5.2U	240. U	24. U	48. U	4.8U	4.8U	52. U	40. U
BETA BHC	34257	5.2U	240. U	24. U	48. U	4.8U	4.8U	52. U	40. U
DELTA BHC	34262	5.2U	240. U	24. U	48. U	4.8U	4.8U	52. U	40. U
GAMMA BHC (LINDANE)	39343	5.2U	240. U	24. U	48. U	4.8U	4.8U	52. U	40. U
PCB 1242	39499	52. U	2400. U	240. U	480. U	48. U	48. U	520. U	400. U
PCB 1254	39507	52. U	2400. U	240. U	480. U	48. U	48. U	520. U	400. U
PCB 1221	39491	52. U	2400. U	240. U	480. U	48. U	48. U	520. U	400. U
PCB 1232	39495	52. U	2400. U	240. U	480. U	48. U	48. U	520. U	400. U
PCB 1248	39503	52. U	2400. U	240. U	480. U	48. U	48. U	520. U	400. U
PCB 1260	39511	52. U	2400. U	240. U	480. U	270.	66.	720.	400. U
PCB 1016	39514	52. U	2400. U	240. U	480. U	48. U	48. U	520. U	400. U
TOXAPHENE	39403	52. U	2400. U	240. U	480. U	48. U	48. U	520. U	400. U
2,3,7,8 TCDD	34678	5.2U	240. U	24. U	48. U	4.8U	4.8U	52. U	40. U

TITLE:RADIUM PETROLEUM K.C. MO.
MATRIX: SEDIMENT
UNITS: UG/KG

ANALYSIS TYPE: CONTRACT PESTICIDE ORGANICS
DATE: 7/5/84
METHOD #: 9301MOS

SAMPLE PREP:
ANALYST: COP
LAB:MEA

REVIEWER: GCS

SAMPLE NUMBERS

COMPOUND	STORET#	AQ0909	AQ0910	AQ0911	AQ0917
ALDRIN	39333	4. U	4.8U	4.8U	5. U
DIELDRIN	39383	4. U	4.8U	31.	5. U
CHLORDANE	39351	220.	48. U	48. U	50. U
4,4,DDT	39301	4. U	4.8U	4.8U	5. U
4,4, DDE	39321	4. U	4.8U	4.8U	5. U
4,4 DDD	39311	4. U	4.8U	4.8U	5. U
ALPHA ENDOSULFAN	34364	4. U	4.8U	4.8U	5. U
BETA ENDOSULFAN	34359	4. U	4.8U	4.8U	5. U
ENDOSULFAN SULFATE	34354	4. U	4.8U	4.8U	5. U
ENDRIN	39393	4. U	4.8U	4.8U	5. U
ENDRIN ALDEHYDE	34369	4. U	4.8U	4.8U	5. U
HEPTACHLOR	39413	4. U	4.8U	4.8U	5. U
HEPTACHLOR EPOXIDE	39423	4. U	4.8U	4.8U	5. U
ALPHA BHC	39076	4. U	4.8U	4.8U	5. U
BETA BHC	34257	4. U	4.8U	4.8U	5. U
DELTA BHC	34262	4. U	4.8U	4.8U	5. U
GAMMA BHC (LINDANE)	39343	4. U	4.8U	4.8U	5. U
PCB 1242	39499	40. U	48. U	48. U	50. U
PCB 1254	39507	40. U	48. U	48. U	50. U
PCB 1221	39491	40. U	48. U	48. U	50. U
PCB 1232	39495	40. U	48. U	48. U	50. U
PCB 1248	39503	40. U	48. U	48. U	50. U
PCB 1260	39511	40.	26. M	28. M	50. U
PCB 1016	39514	40. U	48. U	48. U	50. U
TOXAPHENE	39403	40. U	48. U	48. U	50. U
2,3,7,8 TCDD	34678	4. U	4.8U	4.8U	5. U

TITLE:RADIUM PETROLEUM K.C.MO
MATRIX: SEDIMENT
UNITS: UG/KG

ANALYSIS TYPE: HSL EXTRACTABLES
DATE: 7/5/04
METHOD #: 9301M05

SAMPLE PREP:
ANALYST: COW
LAB:MEA

REVIEWER: [illegible] GCS A.N

SAMPLE NUMBERS

COMPOUND	STORET#	AQ0900	AQ0901	AQ0902	AQ0903	AQ0904	AQ0905	AQ0907	AQ0908
ANILINE	*****	500. U	4700. U	4900. U	9400. U	3900. U	460. U	200. U	41000. U
BENZYL ALCOHOL	75212	1000. U	9400. U	9800. U	19000. U	7800. U	920. U	400. U	82000. U
4-CHLOROANILINE	*****	2500. U	24000. U	24000. U	47000. U	19000. U	2300. U	1000. U	5000. U
DIBENZOFURAN	75647	500. U	4700. U	4900. U	9400. U	3900. U	460. U	200. U	41000. U
2 METHYLNAPHTHALENE	*****	1000. U	9400. U	9800. U	19000. U	7800. U	920. U	400. U	82000. U
2-NITROANILINE	*****	5000. U	47000. U	49000. U	94000. U	39000. U	4600. U	2000. U	10000. U
3-NITROANILINE	*****	5000. U	47000. U	49000. U	94000. U	39000. U	4600. U	2000. U	10000. U
4-NITROANILINE	*****	5000. U	47000. U	49000. U	94000. U	39000. U	4600. U	2000. U	10000. U
BENZOIC ACID	75315	5000. U	47000. U	49000. U	94000. U	39000. U	4600. U	2000. U	10000. U
2-METHYLPHENOL	*****	500. U	4700. U	4900. U	9400. U	3900. U	460. U	200. U	41000. U
4-METHYLPHENOL	*****	500. U	4700. U	4900. U	9400. U	3900. U	460. U	200. U	41000. U
2,4,5 TRICHLOROPHENOL	*****	5000. U	47000. U	49000. U	94000. U	39000. U	4600. U	2000. U	10000. U

TITLE:RADIUM PETROLEUM K.C.MO
MATRIX: SEDIMENT
UNITS: UG/KG

ANALYSIS TYPE: HSL EXTRACTABLES
DATE: 7/5/84
METHOD #: 9301M05

SAMPLE PREP:
ANALYST: COH
LAB:MEA

REVIEWER: gw GCS AMC

SAMPLE NUMBERS

COMPOUND	STORET#	AQ0909	AQ0910	AQ0911	AQ0917
ANILINE	*****	4300. U	4000. U	500. U	500. U
BENZYL ALCOHOL	75212	8600. U	8000. U	1000. U	1000. U
4-CHLOROANILINE	*****	21000. U	20000. U	2500. U	2500. U
DIBENZOFURAN	75647	4300. U	4000. U	500. U	500. U
2 METHYLNAPHTHALENE	*****	8600. U	8000. U	1000. U	1000. U
2-NITROANILINE	*****	43000. U	40000. U	5000. U	5000. U
3-NITROANILINE	*****	43000. U	40000. U	5000. U	5000. U
4-NITROANILINE	*****	43000. U	40000. U	5000. U	5000. U
BENZOIC ACID	75315	43000. U	40000. U	5000. U	5000. U
2-METHYLPHENOL	*****	4300. U	4000. U	500. U	500. U
4-METHYLPHENOL	*****	4300. U	4000. U	500. U	500. U
2,4,5 TRICHLOROPHENOL	*****	43000. U	40000. U	5000. U	5000. U