ORIGINAL
(Red)

7.0 LABORATORY DATA

7.1 Sample Data Summary

The attached data summary contains only compounds which were identified as detected in at least one sample. The complete list of compounds analyzed for, their results, and the associated detection limits are located as an appendix. Results for tentatively identified compounds appear following the organic data section of this report.

The following codes are used in the data summary to indicate the confidence in the laboratory results:

CODES RELATING TO IDENTIFICATION
(confidence concerning presence or absence of compounds):

U = Not detected. The associated number indicates approximate sample concentration necessary to be detected.

(NO CODE) = Confirmed identification.

B = Not detected substantially above the level reported in laboratory or field blanks.

R = Unreliable result. Analyte may or may not be present in the sample. Supporting data necessary to confirm result.

N = Tentative identification. Consider present. Special methods may be needed to confirm its presence or absence in future sampling efforts.

CODES RELATED TO QUANTITATION
(can be used for both positive results and sample quantitation limits):

J = Analyte present. Reported value may not be accurate or precise.

K = Analyte present. Reported value may be biased high. Actual value is expected to be lower.

L = Analyte present. Reported value may be biased low. Actual value is expected to be higher.

UJ = Not detected, quantitation limit may be inaccurate or imprecise.

UL = Not detected, quantitation limit is probably higher.

OTHER CODES

Q = No analytical result.

SELECTED SAMPLE ORDER

SITE NAME: Crown Central Petroleum — SAMPLING DATE(s): 4/10/90 — STATE/COUNTY CODE: MD/510
TDD NUMBER: F3-9003 08 — CASE NUMBER: 13852 — EPA NUMBER: MD-113
LAB NAMES: Org:IT Cerritos/Inorg:Columbia Analytical Inc.

SAMPLE NUMBER:	CDR80	CDR81	CDR82	CDR83	CDR84	CDR86
SAMPLE ID:	AQ-1	AQ-2	AQ-10	AQ Blank	Sub-1	Sub-10
LOCATION:	Oil/water sep. dischg. No uses Clr, no odor	Oil/water Sep. St.pipe No uses Cloudy n odr	Duplicate of AQ-1	Blank	20'NW Tnk 11 6"deep v Dk sdy mst Diesel odor	Duplicate of Sub-1
PH:	6.5	4.1	6.5		8.4	8.5
FIELD MEASUREMENTS:	None>bkg OVA	None>bkg OVA	None>bkg OVA	None>bkg OVA	None>bkg OVA	None>bkg OVA
PERCENT SOLIDS:					83.0%	85.0%

TYPE OF DATA: ****** VOLATILES **********

DILUTION FACTOR:	1.0	33.0	1.0	1.0	1506.0	1470.6

DET. LIMIT CRQL (*=IDL)	SAMPLE NUMBER: / UNITS:	CDR80 ug/l	CDR81 ug/l	CDR82 ug/l	CDR83 ug/l	CDR84 ug/kg	CDR86 ug/kg
5.00	methylene chloride		510.00 B		1.00 J	9800.00 B	12000.00 B
10.00	acetone	15.00 B	610.00 B	20.00 B	6.00 J	40000.00 B	
5.00	1,1,1-trichloroethane						
5.00	benzene	23.00	2700.00	24.00		2700.00 J	3700.00 J
5.00	toluene	3.00 J	4600.00	3.00 J			
5.00	ethylbenzene	4.00 J	52.00 J	4.00 J			10000.00
5.00	total xylenes	62.00	1500.00	69.00		270000.00	340000.00

TYPE OF DATA: ****** SEMIVOLATILES **********

DILUTION FACTOR:	1.0	2.0	1.0	1.0	4016.0	3922.0

DET. LIMIT CRQL (*=IDL)	SAMPLE NUMBER: / UNITS:	CDR80 ug/l	CDR81 ug/l	CDR82 ug/l	CDR83 ug/l	CDR84 ug/kg	CDR86 ug/kg
10.00	phenol		440.00				
10.00	2-methylphenol		8.00 J				
50.00	benzoic acid	2.00 L	8.00 J				
10.00	naphthalene					24000.00 J	
10.00	2-methylnaphthalene					83000.00	52000.00
10.00	acenaphthylene						
10.00	acenaphthene						6900.00 N
10.00	dibenzofuran						
10.00	fluorene					20000.00 J	17000.00 J
10.00	phenanthrene					41000.00	36000.00 J
10.00	anthracene						
10.00	fluoranthene					5300.00 J	9800.00 J
10.00	pyrene					9500.00 J	8000.00 J
10.00	benzo(a)anthracene						
10.00	chrysene					4100.00 J	
10.00	bis(2-ethylhexyl) phthalate		10.00 B				
10.00	benzo(b)fluoranthene						
10.00	benzo(k)fluoranthene						
10.00	benzo(a)pyrene						
10.00	indeno(1,2,3-cd)pyrene						
10.00	dibenz(a,h)anthracene						
10.00	benzo(g,h,i)perylene						

TYPE OF DATA: ****** PESTICIDES **********

DILUTION FACTOR:	1.0	5.0	5.0	1.0	9639.0	9412.0

DET. LIMIT CRQL (*=IDL)	SAMPLE NUMBER: / UNITS:	CDR80 ug/l	CDR81 ug/l	CDR82 ug/l	CDR83 ug/l	CDR84 ug/kg	CDR86 ug/kg
1.00	aroclor-1.54						

Comments: **********

Dilution factors greater than DF listed: ' =2x, " =5x, t = 10x, ^ =25x, # =50x,
! =100x, I =500x

Only the bkgrnd soil was acss to public.

SELECTED SAMPLE ORDER

SITE NAME: Crown Central Petroleum
TDD NUMBER: F3-9003 08
LAB NAMES: Org:IT Cerritos/Inorg:Columbia Analytical Inc.

SAMPLING DATE(s): 4/10/90
CASE NUMBER: 13852

STATE/COUNTY CODE: MD/510
EPA NUMBER: MD-113

SAMPLE NUMBER:	CDR85	CDR87	CDR88	CDR89	CDR90	CDR91
SAMPLE ID:	Sub-2	Sub-3	Sub-4	Sub-5	Sub-6	Sub-7
LOCATION:	5'6"S M.Box 6" deep Br/Bk stains Gasoline odr	14'8"W dike 3" deep sdy.pbls.mst Oil soaked	29' E dike 6" deep Dk Br Cly mst. No odor	17'8"S Tk 1 valve.8"deep Bk/Br sdy mst. No odor	11'6" NE Tk1 Access door 6" deep Sdy. Lg pbls	6' E of dike 2"deep conc. base. Dk brn mst silt org
PH:	8.4	7.8	7.8	7.9	8.4	8.0
FIELD MEASUREMENTS:	None>bkg OVA	None>bkg OVA	None>bkg OVA	None>bkg OVA	None>bkg OVA	None>bkg OVA
PERCENT SOLIDS:	87.0%	74.0%	79.0%	90.0%	92.0%	62.0%

TYPE OF DATA: ****** VOLATILES ******

DILUTION FACTOR:	143.7	168.9	1.3	1.1	1.1	1.6

DET. LIMIT CRQL (*=IDL)	SAMPLE NUMBER: UNITS:	CDR85 ug/kg	CDR87 ug/kg	CDR88 ug/kg	CDR89 ug/kg	CDR90 ug/kg	CDR91 ug/kg
5.00	methylene chloride	1200.00 B	1800.00 B	8.00 B	5.00 B	5.00 B	10.00 B
10.00	acetone	2900.00 B	18000.00 R	14.00 B	7.00 B	7.00 B	12.00 B
5.00	1,1,1-trichloroethane			4.00 B		4.00 B	3.00 B
5.00	benzene	1700.00	390.00 J				
5.00	toluene	2300.00	300.00 J				
5.00	ethylbenzene	3200.00	1500.00				
5.00	total xylenes	20000.00	1500.00				

TYPE OF DATA: ****** SEMIVOLATILES ******

DILUTION FACTOR:	383.0	450.0	422.0	370.0	362.0	538.0

DET. LIMIT CRQL (*=IDL)	SAMPLE NUMBER: UNITS:	CDR85 ug/kg	CDR87 ug/kg	CDR88 ug/kg	CDR89 ug/kg	CDR90 ug/kg	CDR91 ug/kg
10.00	phenol						
10.00	2-methylphenol						
50.00	benzoic acid						
10.00	naphthalene	7300.00	2000.00 J				
10.00	2-methylnaphthalene	7800.00	4500.00				
10.00	acenaphthylene		3400.00 J				
10.00	acenaphthene						
10.00	dibenzofuran		3900.00 J				
10.00	fluorene	770.00 J	4600.00				
10.00	phenanthrene		28000.00				
10.00	anthracene		5200.00				
10.00	fluoranthene	730.00 J	28000.00			1100.00 J	1400.00 J
10.00	pyrene	570.00 J	19000.00			780.00 J	1100.00 J
10.00	benzo(a)anthracene		11000.00			470.00 J	740.00 J
10.00	chrysene		10000.00			510.00 J	880.00 J
10.00	bis(2-ethylhexyl) phthalate						1600.00 B
10.00	benzo(b)fluoranthene		7900.00			460.00 J	920.00 J
10.00	benzo(k)fluoranthene		7200.00			410.00 J	690.00 J
10.00	benzo(a)pyrene		7200.00			420.00 J	560.00 J
10.00	indeno(1,2,3-cd)pyrene		2900.00 J				
10.00	dibenz(a,h)anthracene		880.00 J				
10.00	benzo(g,h,i)perylene		2300.00 J				

TYPE OF DATA: ****** PESTICIDES ******

DILUTION FACTOR:	920.0	2162.0	5.0	1.0	1.0	5.0

DET. LIMIT CRQL (*=IDL)	SAMPLE NUMBER: UNITS:	CDR85 ug/kg	CDR87 ug/kg	CDR88 ug/kg	CDR89 ug/kg	CDR90 ug/kg	CDR91 ug/kg
1.00	aroclor-1254				120.00 N		

Comments: ******

Dilution factors greater than DF listed: ' =2x, " =5x, t = 10x, ^ =25x, # =50x, ! =100x, f = 500x

Only the bkgrnd soil was acss to public.

SELECTED SAMPLE ORDER

SITE NAME: Crown Central Petroleum
TDD NUMBER: F3-9003-08
LAB NAMES: Org:IT Cerritos/Inorg:Columbia Analytical Inc.

SAMPLING DATE(s): 4/10/90
CASE NUMBER:13852

STATE/COUNTY CODE: MD/510
EPA NUMBER: MD-113

SAMPLE NUMBER:	CDR92	CDR93	CDR94	CDR98	CDR95	CDR96
SAMPLE ID:	Sub-8	Sub-9	SD-1	SD-10	S-Back	Trip Blank
LOCATION:	10'4"S Tk 16 8" deep vry dk brn mst sdy slt	87' S of slag dike 8" deep Brn sd pbls	Dn strm of Oil/Water sp Matches AQ-1 Oil odor	Duplicate of SD-1	Off-site bkg ind-acss some veg sdy slt pbls	Trip Blank VOA only
PH:	8.1	8.0	8.0	8.0	8.0	
FIELD MEASUREMENTS:	None>bkg OVA	None>bkg OVA	None>bkg OVA	None>bkg OVA	None>bkg OVA	None>bkg OVA
PERCENT SOLIDS:	90.0%	88.0%	70.0%	67.0%	93.0%	

TYPE OF DATA: ****** VOLATILES ******

DILUTION FACTOR:	1.1	1.1	1.4	1.5	1.1	1.0

DET. LIMIT CRQL (*=IDL)	SAMPLE NUMBER: / UNITS:	CDR92 ug/kg	CDR93 ug/kg	CDR94 ug/kg	CDR98 ug/kg	CDR95 ug/kg	CDR96 ug/l
5.00	methylene chloride	5.00 B	4.00 B	11.00 B	11.00 B	6.00 B	
10.00	acetone	6.00 B	7.00 B	15.00 B		6.00 B	5.00 J
5.00	1,1,1-trichloroethane						
5.00	benzene						
5.00	toluene						
5.00	ethylbenzene						
5.00	total xylenes			4.00 J			

TYPE OF DATA: ****** SEMIVOLATILES ******

DILUTION FACTOR:	370.0	378.8	439.0	450.0	429.0	0.0

DET. LIMIT CRQL (*=IDL)	SAMPLE NUMBER: / UNITS:	CDR92 ug/kg	CDR93 ug/kg	CDR94 ug/kg	CDR98 ug/kg	CDR95 ug/kg	CDR96 n/a
10.00	phenol						
10.00	2-methylphenol						
50.00	benzoic acid						
10.00	naphthalene		550.00 J				
10.00	2-methylnaphthalene		570.00 J				
10.00	acenaphthylene		3200.00 J				
10.00	acenaphthene						
10.00	dibenzofuran		2100.00 J				
10.00	fluorene		3400.00 J				
10.00	phenanthrene		27000.00	1100.00 J			
10.00	anthracene		7100.00				
10.00	fluoranthene	2500.00 J	33000.00	2400.00 J			
10.00	pyrene	2000.00 J	23000.00	2100.00 J	1300.00 J		
10.00	benzo(a)anthracene	1000.00 J	16000.00	1300.00 J			
10.00	chrysene	1000.00 J	14000.00	1300.00 J			
10.00	bis(2-ethylhexyl) phthalate		4400.00				
10.00	benzo(b)fluoranthene	870.00 J	17000.00	1300.00 J			
10.00	benzo(k)fluoranthene	1000.00 J	10000.00	1100.00 J			
10.00	benzo(a)pyrene	890.00 J	12000.00	1100.00 J			
10.00	indeno(1,2,3 cd)pyrene	550.00 J	7400.00	790.00 J			
10.00	dibenz(a,h)anthracene		2000.00 J				
10.00	benzo(g,h,i)perylene	500.00 J	6200.00	680.00 J			

TYPE OF DATA: ****** PESTICIDES ******

DILUTION FACTOR:	1.0	5.0	5.0	20.0	5.0	0.0

DET. LIMIT CRQL (*=IDL)	SAMPLE NUMBER: / UNITS:	CDR92 ug/kg	CDR93 ug/kg	CDR94 ug/kg	CDR98 ug/kg	CDR95 ug/kg	CDR96 n/a
1.00	aroclor-1254			750.00 J	1500.00 J		

Comments: ******

Dilution factors greater than DF listed: ' =2x, " =5x, t = 10x, ^ =25x, # =50x,
! =100x, ! 500x

Only the bkgrnd soil was acss to public.

SELECTED SAMPLE ORDER

SITE NAME: Crown Central Petroleum
TDD NUMBER: F3-9003-08
LAB NAMES: Org:IT Cerritos/Inorg:Columbia Analytical Inc.

SAMPLING DATE(s): 4/10/90
CASE NUMBER: 13852

STATE/COUNTY CODE: MD/510
EPA NUMBER: MD-113

SAMPLE NUMBER:	MCCD00	MCCD02	MCCD01	MCCD03	MCCD04	MCCD06
SAMPLE ID:	AQ-1	AQ-10	AQ-2	AQ Blank	Sub-1	Sub-10
LOCATION:	Oil/Water sep. dischg. No uses Clr, no odor	Duplicate of AQ-1	Oil/Water Sep. St.pipe No uses Cloudy n odr	Blank	20'NW Tnk 11 6"deep V Dk sdy mst Diesel odor	Duplicate of Sub-1
PH.	6.5	6.5	4.1		8.4	8.5
FIELD MEASUREMENTS:	None>bkg OVA	None>bkg OVA	None>bkg OVA	None>bkg OVA	None>bkg OVA	None>bkg OVA
PERCENT SOLIDS:					88.6%	85.7%
TYPE OF DATA: ****** INORGANICS	**********	**********	**********	**********	**********	**********
DILUTION FACTOR: : GFAA	1.000	1.000	1.000	1.000	0.226	0.233
: ICP	1.000	1.000	1.000	1.000	0.226	0.233
: Hg	1.000	1.000	1.000	1.000	0.513	0.556
: CN	1.000	1.000	1.000	1.000	0.056	0.058

DET. LIMIT CRQL (*=IDL)		SAMPLE NUMBER: UNITS:	MCCD00 ug/l	MCCD02 ug/l	MCCD01 ug/l	MCCD03 ug/l	MCCD04 mg/kg	MCCD06 mg/kg
* 20.00	aluminum		999.00 J	1950.00 J	668.00 J		8970.00	8130.00
* 20.00	antimony							
* 1.00	arsenic		61.40'J	104.00"J	7.00 J		71.10^J	63.70tJ
*1200.00	barium		84.40	108.00	33.90		327.00	297.00
* 1.00	beryllium			1.00			0.93	0.91
* 2.00	cadmium							
* 10.00	calcium		122000.00	121000.00	26900.00	34.50	5840.00	5500.00
* 3.00	chromium		23.30	25.80	7.20 B		119.00	112.00
* 4.00	cobalt						9.30	8.70
* 2.00	copper		212.00	360.00	175.00		1270.00	1070.00
* 4.00	iron		3650.00	6180.00	1530.00	17.10	39400.00	38900.00
* 1.00	lead (anal. by GFAA)							
* 20.00	lead (anal. by ICP)		487.00	420.00	157.00		3500.00	3620.00
* 50.00	magnesium		15500.00	15600.00	5510.00		1020.00	896.00
* 1.00	manganese		367.00	434.00	249.00		194.00	196.00
* 0.20	mercury						0.33	0.38
* 10.00	nickel			15.60			21.40	21.00
* 700.00	potassium		33500.00	32500.00	3450.00		457.00 B	531.00 B
* 2.00	selenium						2.60 B	2.60 B
* 2.00	silver						3.90 J	4.00 J
* 60.00	sodium		67100.00	65100.00	36800.00		518.00	474.00
* 1.00	thallium		1.30 B	1.90 B			1.30 B	1.40 B
* 3.00	vanadium		14.80	20.20	8.50		62.60	53.80
* 2.00	zinc		290.00	371.00	319.00		406.00	375.00
* 10.00	cyanide			32.40 J	72.30 J		49.10	63.80

Comments: **********
Dilution factors greater than DF listed: ' =2x, " =5x, t = 10x, ^ =25x, # =50x,
! =100x, f =500x

Only the bkgrnd soil was acss to public.

SELECTED SAMPLE ORDER

SITE NAME: Crown Central Petroleum
TDD NUMBER: F3-9003 08
LAB NAMES: Org:IT Cerritos/Inorg:Columbia Analytical Inc.

SAMPLING DATE(s): 4/10/90
CASE NUMBER: 13852

STATE/COUNTY CODE: MD/510
EPA NUMBER: MD-113

SAMPLE NUMBER:	MCCD05	MCCD07	MCCD08	MCCD09	MCCD10	MCCD11
SAMPLE ID:	Sub-2	Sub-3	Sub-4	Sub-5	Sub-6	Sub-7
LOCATION:	5'6"S M.Box 6" deep Br/Bk stains Gasoline odr	14'8"W dike 3" deep sdy.pbls.mst Oil soaked	29' E dike 6" deep Dk Br Cly mst. No odor	17'8"S Tk 1 valve.8"deep Bk/Br sdy mst. No odor	11'6" NE Tk1 Access door 6" deep Sdy, Lg pbls	6' E of dike 2"deep conc. base. Dk brn mst silt org
PH:	8.4	7.8	7.8	7.9	8.4	8.0
FIELD MEASUREMENTS:	None>bkg OVA	None>bkg OVA	None>bkg OVA	None>bkg OVA	None>bkg OVA	None>bkg OVA
PERCENT SOLIDS:	87.4%	74.8%	77.5%	91.1%	92.4%	64.7%
TYPE OF DATA: ****** INORGANICS	**********					
DILUTION FACTOR: : GFAA	0.229	0.267	0.258	0.220	0.217	0.309
: ICP	0.229	0.267	0.258	0.220	0.217	! 0.309
: Hg	0.545	0.668	0.586	0.477	0.515	0.773
: CN	0.057	0.067	0.065	0.055	0.054	0.077

DET. LIMIT CRQL (*=IDL)		SAMPLE NUMBER: UNITS:	MCCD05 mg/kg	MCCD07 mg/kg	MCCD08 mg/kg	MCCD09 mg/kg	MCCD10 mg/kg	MCCD11 mg/kg
* 20.00	aluminum		3820.00	7570.00	5370.00	8130.00	4630.00	9360.00
* 20.00	antimony			14.80 L				21.60 L
* 1.00	arsenic		56.10tJ	759.00!J	54.70tJ	2.20 J	27.30tJ	45.10tJ
*1200.00	barium		50.40	236.00	108.00	26.90	77.30	164.00
* 1.00	beryllium		0.66	1.10	0.94	0.74	0.67	1.80
* 2.00	cadmium				0.77 J			
* 10.00	calcium		34300.00	26800.00	13200.00	1270.00	57000.00	22400.00
* 3.00	chromium		42.10	57.40	85.90	34.60	20.30	246.00
* 4.00	cobalt		3.40	9.90	6.70	15.70	4.30	21.90
* 2.00	copper		291.00	4440.00	4920.00	136.00	1280.00	813.00
* 4.00	iron		11000.00	36300.00	15500.00	24200.00	11500.00	87000.00
* 1.00	lead (anal. by GFAA)							3460.00f
* 20.00	lead (anal. by ICP)		263.00	499.00	323.00	19.00	165.00	
* 50.00	magnesium		9920.00	5910.00	4810.00	761.00	19700.00	16100.00
* 1.00	manganese		193.00	198.00	193.00	352.00	191.00	2220.00
* 0.20	mercury		0.13	2.00	0.33		0.16	0.56
* 10.00	nickel		14.10	70.70	35.80	9.10	26.10	115.00
* 700.00	potassium		690.00 B	1490.00	703.00 B	527.00 B	1150.00	1780.00
* 2.00	selenium		3.80 J	2.80 B	2.40 B		23.20"J	4.50 J
* 2.00	silver		1.10 J	4.10 J	5.60 J	1.50 J	4.40 J	6.40 J
* 60.00	sodium		112.00	450.00	375.00	44.90	84.40	1400.00
* 1.00	thallium		0.46 B	3.20	0.80 B	0.48 B	0.48 B	1.60 B
* 3.00	vanadium		28.50	39.20	89.10	32.40	22.80	151.00
* 2.00	zinc		332.00	974.00	1620.00	27.70	145.00	1510.00
* 10.00	cyanide		17.70	66.60	75.80	2.30	12.50	37.00

Comments: **********
Dilution factors greater than DF listed: ' =2x, " =5x, t = 10x, ^ =25x, # =50x,
! =100x, f =500x

Only the bkgrnd soil was acss to public.

SELECTED SAMPLE ORDER

SITE NAME: Crown Central Petroleum
TDD NUMBER: F3-9003-08
LAB NAMES: Org:IT Cerritos/Inorg:Columbia Analytical Inc.

SAMPLING DATE(s): 4/10/90
CASE NUMBER: 13852

STATE/COUNTY CODE: MD/510
EPA NUMBER: MD-113

SAMPLE NUMBER:	MCCD12	MCCD13	MCCD14	MCCD17	MCCD15
SAMPLE ID:	Sub-8	Sub-9	SD-1	SD-10	S-Back
LOCATION:	10'4"S Tk 16 8" deep Vry dk brn mst sdy slt	87' S of slag dike 8" deep Brn sd pbls	Dn strm of Oil/Water sp Matches AQ-1 Oil odor	Duplicate of SD-1	Off site bkg ind-acss some veg sdy slt pbls
pH:	8.1	8.0	8.0	8.0	8.0
FIELD MEASUREMENTS:	None>bkg OVA	None>bkg OVA	None>bkg OVA	None>bkg OVA	None>bkg OVA
PERCENT SOLIDS:	89.8%	88.8%	76.6%	75.0%	89.7%

TYPE OF DATA: ****** INORGANICS **********

DILUTION FACTOR:	MCCD12	MCCD13	MCCD14	MCCD17	MCCD15
: GFAA	0.223	0.225	0.261	0.267	0.223
: ICP	0.223	0.225	0.261	0.267	0.223
: Hg	0.557	0.536	0.622	0.667	0.531
: CN	0.056	0.056	0.065	0.067	0.056

DET. LIMIT CRQL (*=IDL)	SAMPLE NUMBER: / UNITS:	MCCD12 mg/kg	MCCD13 mg/kg	MCCD14 mg/kg	MCCD17 mg/kg	MCCD15 mg/kg
* 20.00	aluminum	6030.00	3990.00	5090.00	6130.00	4380.00
* 20.00	antimony		48.00 L			
* 1.00	arsenic	6.60'J	158.00#J	389.00#L	507.00#L	2.40'L
*1200.00	barium	81.10	289.00	319.00	295.00	44.90
* 1.00	beryllium	1.00	0.86	0.98	1.00	0.84
* 2.00	cadmium				0.59	
* 10.00	calcium	34500.00	12900.00	10100.00	7190.00	22100.00
* 3.00	chromium	31.80	55.40	72.30	308.00	26.00
* 4.00	cobalt	6.30	7.60	5.40	8.00	9.90
* 2.00	copper	391.00	11000.00	1340.00	862.00	192.00
* 4.00	iron	13300.00	25800.00	27700.00	26000.00	23700.00
* 1.00	lead (anal. by GFAA)					125.00#
* 20.00	lead (anal. by ICP)	125.00	657.00	831.00	2930.00	
* 50.00	magnesium	10700.00	3080.00	1810.00	1300.00	9220.00
* 1.00	manganese	200.00	249.00	234.00	164.00	328.00
* 0.20	mercury	0.52	0.83	0.28	0.31	0.12
* 10.00	nickel	32.30	179.00	23.60	26.40	57.50
* 700.00	potassium	646.00 B	342.00 B	953.00 B	1170.00	622.00 B
* 2.00	selenium	0.65 B	62.20tJ	4.20	5.60	0.69 B
* 2.00	silver	0.91 J	31.40 J	2.30	3.00	1.30
* 60.00	sodium	114.00	159.00	281.00	257.00	74.10 J
* 1.00	thallium	0.31 B	0.59 B	3.20	3.40	0.47 B
* 3.00	vanadium	20.90	60.40	76.40	61.70	28.30
* 2.00	zinc	859.00	498.00	894.00	1270.00	170.00
* 10.00	cyanide	16.40	62.10	49.20	61.20	17.80

Comments: **********
Dilution factors greater than DF listed: ' =2x, " =5x, t = 10x, ^ =25x, # =50x,
! =100x, f =500x

Only the bkgrnd soil was acss to public.

ORIGINAL (Red)

TDD NUMBER 9003-08

EPA NUMBER MD-113

5.3 SAMPLE LOG

SITE NAME Crown Central [illegible]

TRAFFIC REPORTS			SAMPLE IDENTIFIER	PHASE	SAMPLE DESCRIPTION	SAMPLE LOCATION	TARGET USE	pH	FIELD MEASUREMENTS
Organic	Inorganic	High Hazard							
CDR80	MCCD00		AQ-1	AQ	CLEAR, NO ODOR STANDING WATER	OIL/WATER SEPARATOR DISCHARGE, DOWNGRADIENT OF TANK #15	NO USES	6.5	NO OVA READINGS ABOVE BACKGROUND
CDR81	MCCD01		AQ-2	AQ	CLOUDY STANDING WATER NO ODOR	OIL/WATER SEPARATOR STAND PIPE, DOWNGRADIENT OF TANK #1	NO USES	4.1	
CDR82	MCCD02		AQ-10	AQ	DUPLICATE OF AQ-1		NO USES		
CDR83	MCCD03		AQ BLANK	AQ	AQUEOUS BLANK	BLANK	BLANK		
CDR84	MCCD04		SUB-1	SOL	VERY DARK, MOIST SANDY SOIL. DIESEL-LIKE ODOR	APPROX. 20 FEET NW OF TANK #11	ACCESS RESTRICTED		
CDR85	MCCD05		SUB-2	SOL	BROWN/BLACK, MOIST STAINED SOIL. SMALL PEBBLES. GASOLINE-LIKE ODOR.	5'6" SOUTH OF METER BOX	ACCESS RESTRICTED		
CDR86	MCCD06		SUB-10	SOL	DUPLICATE OF SUB-1		ACCESS RESTRICTED		
CDR87	MCCD07		SUB-3	SOL	SANDY, SMALL PEBBLES, MOIST DARK OILY STAINS OIL-LIKE ODOR	14'8" WEST OF DIKE WALL	ACCESS RESTRICTED		
CDR88	MCCD08		SUB-4	SOL	DARK BROWN MOIST, CLAY-LIKE NO ODOR	29' EAST OF DIKE WALL	ACCESS RESTRICTED		

ORIGINAL (Red)

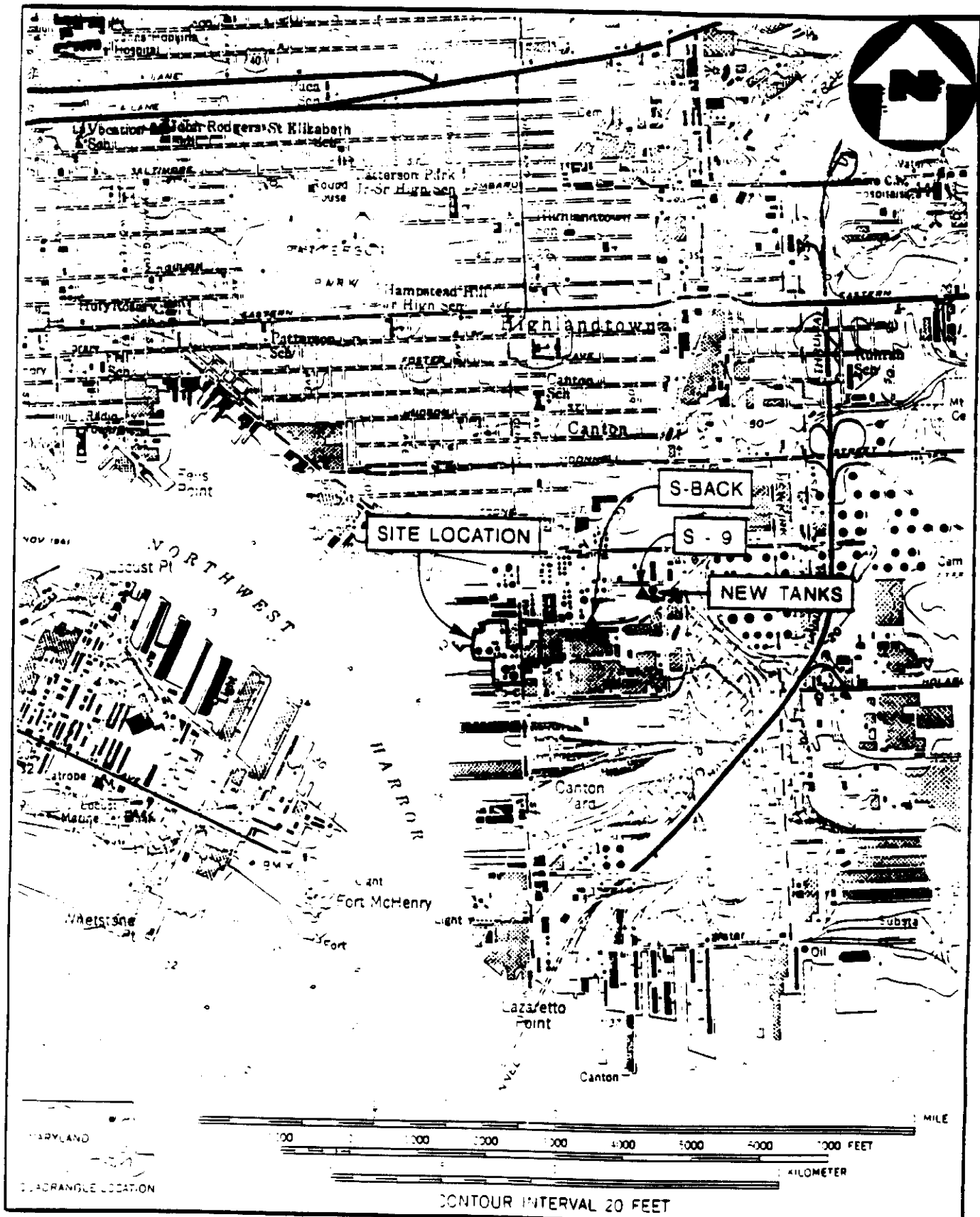
TDD NUMBER 9003-08

EPA NUMBER MD-113

5.3 SAMPLE LOG

SITE NAME Crown Central

TRAFFIC REPORTS Organic	Inorganic	High Hazard	SAMPLE IDENTIFIER	PHASE	SAMPLE DESCRIPTION	SAMPLE LOCATION	TARGET USE	pH	FIELD MEASUREMENTS
CDR89	MCCD09		SUB-5	SOL	BLACK/BROWN SANDY MOIST NO ODOR	17'8" SOUTH OF GATE VALVE TO TANK #1	ACCESS RESTRICTED		NO OVA READING ABOVE BACKGROUND
CDR90	MCCD10		SUB-6	SOL	SANDY, LARGE PEBBLES	11'6" NE OF ACCESS DOOR TO TANK #1	ACCESS RESTRICTED		
CDR91	MCCD11		SUB-7	SOL	DARK BROWN MOIST, SILTY WITH ORGANIC MATTER	6' EAST OF DIKE WALL	ACCESS RESTRICTED		
CDR92	MCCD12		SUB-8	SOL	VERY DARK BROWN, MOIST SANDY SILT	10'4" SOUTH OF TANK #16	ACCESS RESTRICTED		
CDR93	MCCD13		SUB-9	SOL	LIGHT TO DARK BROWN PEBBLES	87' SOUTH OF SLAG DIKE	ACCESS RESTRICTED		
CDR94	MCCD14		SD-1	SOL	BLACK, SANDY CLAY SMALL PEBBLES OIL-LIKE ODOR	OVERFLOW TRENCH DOWNSTREAM OF OIL/WATER SEPARATOR	NO USES		
CDR95	MCCD15		S-BACK	SOL	SANDY, SILTY PEBBLES WITH SOME ORGANIC MATTER	170' NORTH OF ABANDONED WAREHOUSE	OPEN ACCESS		
CDR96			TRIP BLANK	AQ	AQUEOUS BLANK FOR SOLID ANALYSIS	BLANK	BLANK		
CDR98	MCCD17		SD-10	SOL	DUPLICATE OF SD-1	SAME AS SD-1	SAME AS SD-1		



SOURCE: (7.5 MINUTE SERIES) U.S.G.S. BALTIMORE EAST, MD. QUAD.

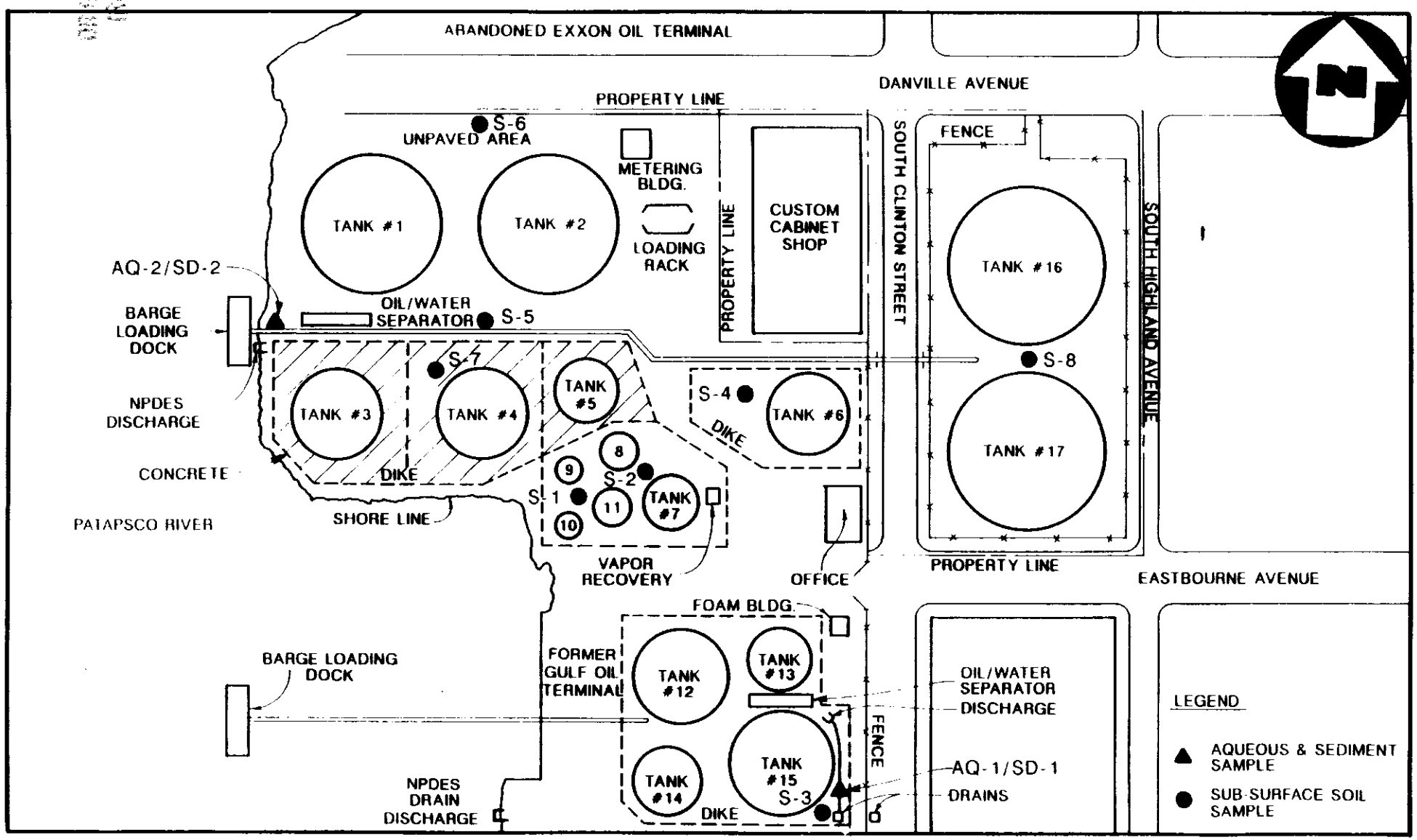
OFF-SITE SAMPLE LOCATIONS

CROWN CENTRAL PETROLEUM

SCALE 1: 24000

FIGURE 5.2

NUS CORPORATION



SAMPLE LOCATION MAP
CROWN CENTRAL PETROLEUM
(NO SCALE)

FIGURE 5.1

NUS CORPORATION