N60478.AR.001478
NWS EARLE
5090.3a

TRANSMITTAL LETTER FOR THE RESULTS OF SOIL SAMPLE ANALYSIS PERFORMED IN ACCORDANCE WITH CONDITIONS OF APPROVED TANK CLOSURE PLAN NWS EARLE NJ
9/21/1988
NWS EARLE

000000066

DEPARTMENT OF THE NAVY

NAVAL WEAPONS STATION EARLE
COLTS NECK, NEW JERSEY 07722-5000

IN REPLY REFER TO

092

21 SEP 1988

Ms. Sunila Agrawal
New Jersey Department of Environmental Protection
Bureau of Hazardous Waste Management
Division of Hazardous Waste Engineering
401 East State Street
CN028
Trenton, NJ 08625

Dear Ms. Agrawal:

Enclosed are the results of the soil sample analyses performed in accordance with the conditions of the approved tank closure plan for the underground used oil storage tank (enclosure (1)).

The closure plan originally called for five soil samples, but due to the small size of the tank the NJDEP onsite representative approved of the reduction of the number of soil samples to four.

Should you have any questions concerning this submission, please contact Mr. William T. Matthaey, Environmental Engineer at 201-577-2146.

Sincerely,

J. TUBELLO
Lieutenant Commander, U.S. Navy
Public Works Officer

Encl.:
(1) Soil Sample Analyses

JACA® CORP.

Environmental Consultants • Engineers

July 22, 1988

Mr. William Matthaey
Naval Weapons Station, Earle
Colts Neck, NJ 07722

Dear Mr. Matthaey:

Enclosed please find a copy of the laboratory analyses of the four soil samples (along with field and trip blanks) that were taken on May 23, 1988 from underneath the location of the removed waste oil tank. The closure plan had originally called for five soil samples, however due to the small size of the tank, Denise Bear from NJDEP Bureau of Environmental Measurements and Quality Assurances, who was present when the tank was removed and the soil sampled, agreed that four soil samples would be adequate.

The soil samples were taken approximately as shown on the attached diagram.

Also enclosed is a copy of the laboratory analysis of the contents of the waste oil tank.

It should be noted that methylene chloride, which shows up as a soil contaminant, was not detected in the waste oil analysis. Petroleum hydrocarbons and toluene show up as soil contaminants and were present in the waste oil. However, other compounds in the waste oil do not show up as soil contaminants. JACA feels this indicates that the contaminants in the soil came from a source other than the waste oil tank.

The laboratory analyses were performed by QC, inc. in accordance with their quality control procedures. These analyses (both for the soil and the waste oil) should be submitted to:

Sunila Agrawal
Bureau of Hazardous Waste Management
Division of Hazardous Waste Engineering
401 E. State Street
CN028
Trenton, NJ 08625

for determination by the DEP of whether the soil has been contaminated by tank leakage.

550 Pinetown Road, Fort Washington, PA. 19034 • (215) 643-5466 • Telex 846570

Should you have any questions regarding this information please feel free to contact me.

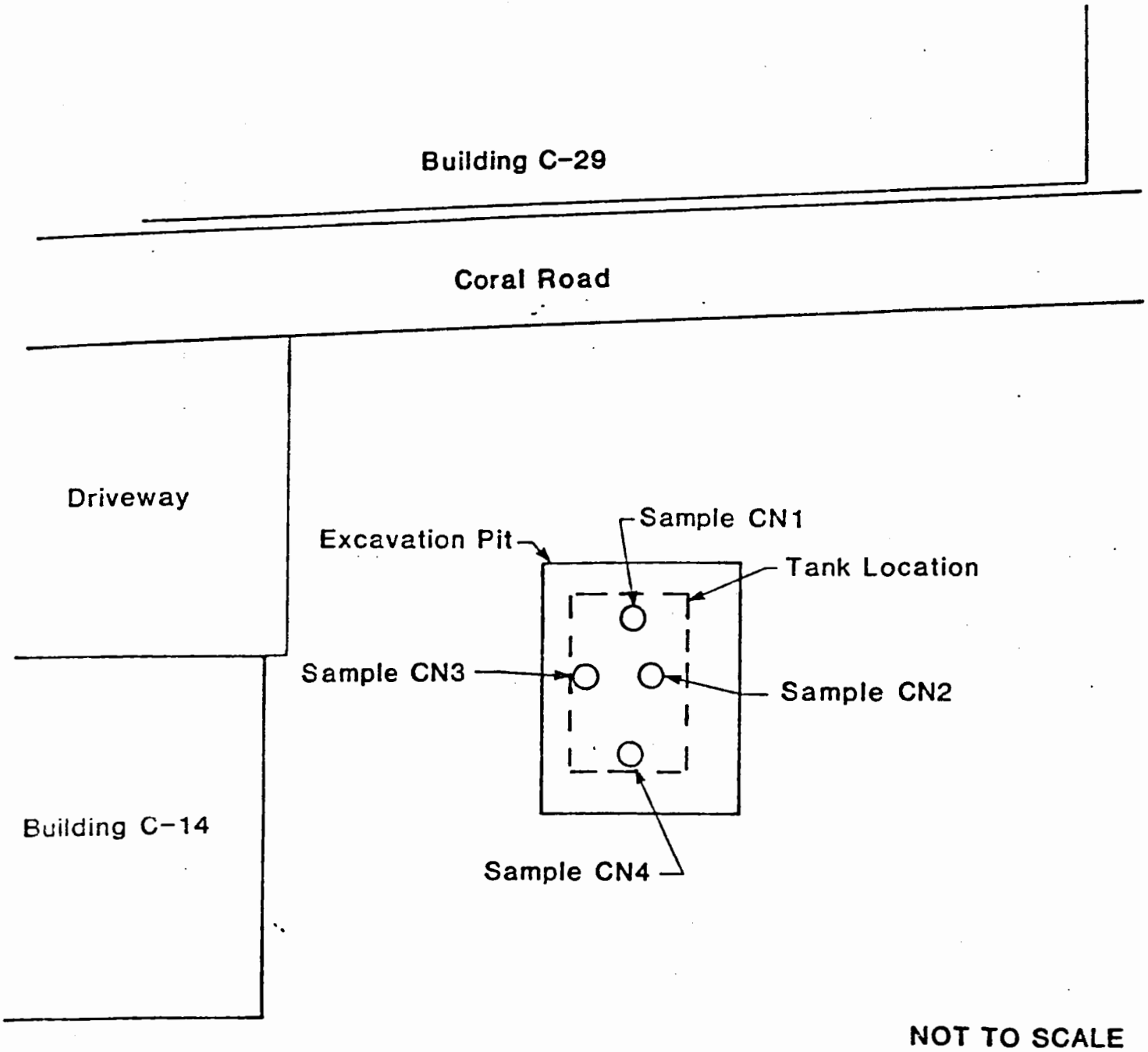
Very truly yours,

Eileen Kelble

EILEEN KELBLE
Environmental Engineer

609-292-5279
TRENTON

EK:kad
Enclosure



SOIL SAMPLING LOCATIONS

ENCL (1)

ANALYSES

QC Inc

1205 INDUSTRIAL HIGHWAY • P.O. BOX 514
SOUTHAMPTON, PA. 18966 • 215/355-3900

JACA CORP.
550 PINETOWN RD.
FORT WASHINGTON, PA.
19034
ATTN:NANCY LYONS

REPORT DATE : 07/08/88

SAMPLE DATE : 05/23/88
SAMPLE TIME : NA
SAMPLE TEMP : NA F
SAMPLED BY : CU
COLLECTED BY : CU
ANALYSIS DATE : 05/23/88
P.O. NUMBER :
PWS-ID NUMBER :

TEST NUMBER →	W0150-MGK	W0151-MGK	W0209-MGK	W0214-MGK	W0219-MGK	W0227-MGK	W0228-MGK	W0610-UGK	W0610-UGL	W0647-UGK	W0668-I
TEST NAME →	PET HYDRO*	TOT SOLID*	CHROMIUM	LEAD	NICKEL	VANADIUM	ZINC	V.O. SCAN	V.O. SCAN	PCBS	BASE-S
PLE/CONTAINER UNIT MEASURE →	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	UG/K	UG/L	U/KG	UG/KG
LIQUID									SEE ATTACH		
633652 QC SUPPLIED CONTAINER											
-1 SOIL	62.	870000.	32.	3.4	0.46	7.0	3.1	SEE ATTACH		<0.01	EE ATT
633653 QC SUPPLIED CONTAINER											
-2 SOIL	950.	890000.	0.65	0.94	0.50	<0.15	2.2	SEE ATTACH		<0.01	EE ATT
633654 QC SUPPLIED CONTAINER											
-3 SOIL	67.	922000.	16.	4.6	0.51	<0.15	4.0	SEE ATTACH		<0.01	EE ATT
633655 QC SUPPLIED CONTAINER											
-4 SOIL	68.	882000.	19.	8.2	0.76	3.9	4.8	SEE ATTACH		<0.01	EE ATT
633656 QC SUPPLIED CONTAINER											
F LIQUID									SEE ATTACH		
633657 QC SUPPLIED CONTAINER											

* PET HYDRO = PETROLEUM HYDROCARBONS
* TOT SOLID = TOTAL SOLIDS

LE/ COMMENT NOTE: EACH SAMPLE ABOVE IS GIVEN A UNIQUE ID# (PRINTED JUST BELOW THE SAMPLE)
SAMPLED BY CUSTOMER
3652 ALL TESTING IS CONDUCTED IN ACCORDANCE WITH E.P.A. METHODOLOGY.
3653 ALL TESTING IS CONDUCTED IN ACCORDANCE WITH E.P.A. METHODOLOGY.
3654 ALL TESTING IS CONDUCTED IN ACCORDANCE WITH E.P.A. METHODOLOGY.
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3656 ALL TESTING IS CONDUCTED IN ACCORDANCE WITH E.P.A. METHODOLOGY.
3657 ALL TESTING IS CONDUCTED IN ACCORDANCE WITH E.P.A. METHODOLOGY.

RECEIVED
JUL 11 1988
JACA CORP.

Allen D. Schopflocher
Allen D. Schopflocher, President

QC Inc
1205 INDUSTRIAL HIGHWAY • P.O. BOX 514
SOUTHAMPTON, PA. 18966 • 215/355-3900

JACA CORP.
550 PINETOWN RD.
FORT WASHINGTON, PA.
19034
ATTN:NANCY LYONS

REPORT NUMBER : 0002
REPORT DATE : 07/08/88

SAMPLE DATE : 05/23/88
SAMPLE TIME : NA
SAMPLE TEMP : NA F
SAMPLED BY : CJ
COLLECTED BY : CJ
ANALYSIS DATE : 05/23/88
P.O. NUMBER :
PWS-ID NUMBER :

TEST NUMBER →	W0209-MGL	W0214-MGL	W0219-MGL	W0227-MGL	W0228-MGL	W0647-UGL
TEST NAME →	CHROMIUM	LEAD	NICKEL	VANADIUM	ZINC	PCBS
UNIT MEASURE →	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L
PLE/CONTAINER						
LIQUID						
633652 QC SUPPLIED CONTAINER						
-1 SOIL						
633653 QC SUPPLIED CONTAINER						
-2 SOIL						
633654 QC SUPPLIED CONTAINER						
-3 SOIL						
633655 QC SUPPLIED CONTAINER						
-4 SOIL						
633656 QC SUPPLIED CONTAINER						
F LIQUID	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
633657 QC SUPPLIED CONTAINER						

MPLE# COMMENT NOTE: EACH SAMPLE ABOVE IS GIVEN A UNIQUE ID# (PRINTED JUST BELOW THE SAMPLE)
SAMPLED BY CUSTOMER
52 ALL TESTING IS CONDUCTED IN ACCORDANCE WITH E.P.A. METHODOLOGY.
653 ALL TESTING IS CONDUCTED IN ACCORDANCE WITH E.P.A. METHODOLOGY.
3654 ALL TESTING IS CONDUCTED IN ACCORDANCE WITH E.P.A. METHODOLOGY.
3655 ALL TESTING IS CONDUCTED IN ACCORDANCE WITH E.P.A. METHODOLOGY.
3656 ALL TESTING IS CONDUCTED IN ACCORDANCE WITH E.P.A. METHODOLOGY.
3657 ALL TESTING IS CONDUCTED IN ACCORDANCE WITH E.P.A. METHODOLOGY.

Allen D. Schopbach

Allen D. Schopbach, President

QC Inc

1205 INDUSTRIAL HIGHWAY • P.O. BOX 514 • SOUTHAMPTON, PA 18966-0514 • (215) 355-3900

VOLATILE ORGANICS ANALYSIS DATA SHEET
Method 624

Lab ID : 633652
Sample ID : CNT Liquid
Analysis Date: 5/31/88

Client: Jaca
Matrix: Water
Lab File: 633652V

CAS NO.	COMPOUND	RESULTS(UG/L)	COMMENT
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U

SURROGATE RECOVERY DATA	% RECOVERY
D4-1,2-Dichloroethane	96
D8-Toluene	98
Bromoflurobenzene	82

COMMENT
U= Not Detected
J= Detected But Below Method Detection Limit
B= Compound in Blank

Signature

Name/Title Howard Whaley
GC/MS Project Manager

QC Inc

1205 INDUSTRIAL HIGHWAY • P.O. BOX 514 • SOUTHAMPTON, PA 18966-0514 • (215) 355-3900

VOLATILE ORGANICS ANALYSIS DATA SHEET
Method 624

Lab ID : 633653
Sample ID : CN-1 Soil
Analysis Date: 5/25/88

Client: Jaca
Matrix: Soil
Lab File: 633653V

CAS NO.	COMPOUND	RESULTS(UG/KG)	COMMENT
74-87-3	Chloromethane	1000	U
74-83-9	Bromomethane	1000	U
75-01-4	Vinyl Chloride	1000	U
75-00-3	Chloroethane	1000	U
75-09-2	Methylene Chloride	25000	
75-35-4	1,1-Dichloroethene	500	U
75-34-3	1,1-Dichloroethane	500	U
540-59-0	1,2-Dichloroethene (total)	500	U
67-66-3	Chloroform	500	U
107-06-2	1,2-Dichloroethane	500	U
71-55-6	1,1,1-Trichloroethane	500	U
56-23-5	Carbon Tetrachloride	500	U
75-27-4	Bromodichloromethane	500	U
78-87-5	1,2-Dichloropropane	500	U
10061-01-5	cis-1,3-Dichloropropene	500	U
79-01-6	Trichloroethene	500	U
124-48-1	Dibromochloromethane	500	U
79-00-5	1,1,2-Trichloroethane	500	U
71-43-2	Benzene	500	U
10061-02-6	trans-1,3-Dichloropropene	500	U
75-25-2	Bromoform	500	U
127-18-4	Tetrachloroethene	500	U
79-34-5	1,1,2,2-Tetrachloroethane	500	U
108-88-3	Toluene	1400	
108-90-7	Chlorobenzene	500	U
100-41-4	Ethylbenzene	500	U

SURROGATE RECOVERY DATA	% RECOVERY
D4-1,2-Dichloroethane	98
D8-Toluene	114
Bromoflurobenzene	76

COMMENT
U= Not Detected
J= Detected But Below Method Detection Limit
B= Compound in Blank

Signature

Name/Title Howard Whaley
GC/MS Project Manager

QC Inc

1205 INDUSTRIAL HIGHWAY • P.O. BOX 514 • SOUTHAMPTON, PA 18966-0514 • (215) 355-3900

EPA Method 625 Base/Neutral Extractables by GC/MS

Lab ID :633653
Sample ID :CN-1 SOIL
Date Analyzed :6/28/88

Client :JACA
Prep Factor :30 gms/1.0 ml
Comments :1:10 dilution

NO.	NAME	RESULTS PPB	COMMENTS
33	Benzidine	1600	U
34	Pyrene	330	U
35	Butylbenzyl Phthalate	330	U
36	3,3-Dichlorobenzidine	330	U
37	Benzo(A)Anthracene	330	U
38	Chrysene	330	U
39	Bis(2-ethylhexyl) Phthalate	330	U
40	Dioctyl-Phthalate	330	U
41	Benzo(K)Fluoranthene	330	U
42	Benzo(B)Fluoranthene	330	U
43	Benzo(A)Pyrene	330	U
44	Indeno(1,2,3-CD)Pyrene	330	U
45	Dibenzo(A,H)Anthracene	330	U
46	Benzo(GHI)Perylene	330	U

SURROGATE RECOVERY DATA

No.	Name	Amt. Added	% Recovery
1	D5-Nitrobenzene	100	36
2	2-Fluorobiphenyl	100	53
3	D14-Terphenyl	100	52

Comments:
U= Not Detected
J= Detected but below Method Detection Limit
B= Compound found in Blank

Signature

Name/Title: Howard Whaley
GC/MS Project Leader

QC Inc

1205 INDUSTRIAL HIGHWAY • P.O. BOX 514 • SOUTHAMPTON, PA 18966-0514 • (215) 355-3900

EPA METHOD 625 BASE/NEUTRAL EXTRACTABLES BY GC/MS

Lab ID :BLK628
Sample ID :SOLID BLANK 6/28
Date Analyzed :6/28/88
Client :JACA
Prep Factor :30 gms/1.0 ml
Comments :

NO.	NAME	RESULTS PPB	COMMENTS
1	Bis(2-chloroethyl)Ether	330	U
2	1,2-Dichlorobenzene	330	U
3	1,4-Dichlorobenzene	330	U
4	1,3-Dichlorobenzene	330	U
5	Bis(2-chloroisopropyl)Ether	330	U
6	N-Nitrosodipropyl Amine	330	U
7	Hexachloroethane	330	U
8	Nitrobenzene	330	U
9	Isophorone	330	U
10	Bis(2-chloroethoxy)Methane	330	U
11	1,2,4-Trichlorobenzene	330	U
12	Naphthalene	330	U
13	Hexachlorobutadiene	330	U
14	Hexachlorocyclopentadiene	330	U
15	2-Chloronaphthalene	330	U
16	Dimethyl Phthalate	330	U
17	2,6-Dinitrotoluene	330	U
18	Acenaphthylene	330	U
19	Acenaphthene	330	U
20	2,4-Dinitrotoluene	330	U
21	Diethyl Phthalate	330	U
22	N-Nitrosodimethyl Amine	330	U
23	4-Chlorophenylphenyl Ether	330	U
24	Fluorene	330	U
25	Azobenzene	330	U
26	N-Nitrosodiphenyl Amine	330	U
27	4-Bromophenylphenyl Ether	330	U
28	Hexachlorobenzene	330	U
29	Phenanthrene	330	U
30	Anthracene	330	U
31	Dibutyl Phthalate	330	U
32	Fluoranthene	330	U

Comments:
U= Not detected
J= Detected but below Method Detection limit
B= Compound found in Blank

Signature

Name/Title: Howard Whaley
GC/MS Project Leader

QC Inc

1205 INDUSTRIAL HIGHWAY • P.O. BOX 514 • SOUTHAMPTON, PA 18966-0514 • (215) 355-3900

VOLATILE ORGANICS ANALYSIS DATA SHEET
Method 624

Lab ID : 633653
Sample ID : CN-1 Soil
Analysis Date: 5/25/88

Client: Jaca
Matrix: Soil
Lab File: 633653V

CAS NO.	COMPOUND	RESULTS(UG/KG)	COMMENT
74-87-3	Chloromethane	1000	U
74-83-9	Bromomethane	1000	U
75-01-4	Vinyl Chloride	1000	U
75-00-3	Chloroethane	1000	U
75-09-2	Methylene Chloride	25000	
75-35-4	1,1-Dichloroethene	500	U
75-34-3	1,1-Dichloroethane	500	U
540-59-0	1,2-Dichloroethene (total)	500	U
67-66-3	Chloroform	500	U
107-06-2	1,2-Dichloroethane	500	U
71-55-6	1,1,1-Trichloroethane	500	U
56-23-5	Carbon Tetrachloride	500	U
75-27-4	Bromodichloromethane	500	U
78-87-5	1,2-Dichloropropane	500	U
10061-01-5	cis-1,3-Dichloropropene	500	U
79-01-6	Trichloroethene	500	U
124-48-1	Dibromochloromethane	500	U
79-00-5	1,1,2-Trichloroethane	500	U
71-43-2	Benzene	500	U
10061-02-6	trans-1,3-Dichloropropene	500	U
75-25-2	Bromoform	500	U
127-18-4	Tetrachloroethene	500	U
79-34-5	1,1,2,2-Tetrachloroethane	500	U
108-88-3	Toluene	1400	
108-90-7	Chlorobenzene	500	U
100-41-4	Ethylbenzene	500	U

SURROGATE RECOVERY DATA	% RECOVERY
D4-1,2-Dichloroethane	98
D8-Toluene	114
Bromoflurobenzene	76

COMMENT
U= Not Detected
J= Detected But Below Method Detection Limit
B= Compound in Blank

Signature

Name/Title Howard Whaley
GC/MS Project Manager

QC Inc

1205 INDUSTRIAL HIGHWAY • P.O. BOX 514 • SOUTHAMPTON, PA 18966-0514 • (215) 355-3900

EPA METHOD 625 BASE/NEUTRAL EXTRACTABLES BY GC/MS

Lab ID :633653
Sample ID :CN-1 SOIL
Date Analyzed :6/28/88

Client :JACA
Prep Factor :30 gms/1.0 ml
Comments :1:10 dilution

NO.	NAME	RESULTS PPB	COMMENTS
1	Bis(2-chloroethyl)Ether	330	U
2	1,2-Dichlorobenzene	330	U
3	1,4-Dichlorobenzene	330	U
4	1,3-Dichlorobenzene	330	U
5	Bis(2-chloroisopropyl)Ether	330	U
6	N-Nitrosodipropyl Amine	330	U
7	Hexachloroethane	330	U
8	Nitrobenzene	330	U
9	Isophorone	330	U
10	Bis(2-chloroethoxy)Methane	330	U
11	1,2,4-Trichlorobenzene	330	U
12	Naphthalene	330	U
13	Hexachlorobutadiene	330	U
14	Hexachlorocyclopentadiene	330	U
15	2-Chloronaphthalene	330	U
16	Dimethyl Phthalate	330	U
17	2,6-Dinitrotoluene	330	U
18	Acenaphthylene	330	U
19	Acenaphthene	330	U
20	2,4-Dinitrotoluene	330	U
21	Diethyl Phthalate	330	U
22	N-Nitrosodimethyl Amine	330	U
23	4-Chlorophenylphenyl Ether	330	U
24	Fluorene	330	U
25	Azobenzene	330	U
26	N-Nitrosodiphenyl Amine	330	U
27	4-Bromophenylphenyl Ether	330	U
28	Hexachlorobenzene	330	U
29	Phenanthrene	330	U
30	Anthracene	330	U
31	Dibutyl Phthalate	330	U
32	Fluoranthene	330	U

Comments:
U= Not detected
J= Detected but below Method Detection limit
B= Compound found in Blank

Signature

Name/Title: Howard Whaley
GC/MS Project Leader

QC Inc

1205 INDUSTRIAL HIGHWAY • P.O. BOX 514 • SOUTHAMPTON, PA 18966-0514 • (215) 355-3900

EPA METHOD 625 BASE/NEUTRAL EXTRACTABLES BY GC/MS

Lab ID :633654
Sample ID :CN-2 SOIL
Date Analyzed :6/29/88

Client :JACA
Prep Factor :30 gms/1.0 ml
Comments :1:10 dilution

NO.	NAME	RESULTS PPB	COMMENTS
1	Bis(2-chloroethyl)Ether	330	U
2	1,2-Dichlorobenzene	330	U
3	1,4-Dichlorobenzene	330	U
4	1,3-Dichlorobenzene	330	U
5	Bis(2-chloroisopropyl)Ether	330	U
6	N-Nitrosodipropyl Amine	330	U
7	Hexachloroethane	330	U
8	Nitrobenzene	330	U
9	Isophorone	330	U
10	Bis(2-chloroethoxy)Methane	330	U
11	1,2,4-Trichlorobenzene	330	U
12	Naphthalene	330	U
13	Hexachlorobutadiene	330	U
14	Hexachlorocyclopentadiene	330	U
15	2-Chloronaphthalene	330	U
16	Dimethyl Phthalate	330	U
17	2,6-Dinitrotoluene	330	U
18	Acenaphthylene	330	U
19	Acenaphthene	330	U
20	2,4-Dinitrotoluene	330	U
21	Diethyl Phthalate	330	U
22	N-Nitrosodimethyl Amine	330	U
23	4-Chlorophenylphenyl Ether	330	U
24	Fluorene	330	U
25	Azobenzene	330	U
26	N-Nitrosodiphenyl Amine	330	U
27	4-Bromophenylphenyl Ether	330	U
28	Hexachlorobenzene	330	U
29	Phenanthrene	330	U
30	Anthracene	330	U
31	Dibutyl Phthalate	330	U
32	Fluoranthene	330	U

Comments:
U= Not detected
J= Detected but below Method Detection limit
B= Compound found in Blank

Signature

Name/Title: Howard Whaley
GC/MS Project Leader

QC Inc

1205 INDUSTRIAL HIGHWAY • P.O. BOX 514 • SOUTHAMPTON, PA 18966-0514 • (215) 355-3900

EPA Method 625 Base/Neutral Extractables by GC/MS

Lab ID	:633654	Client	:JACA
Sample ID	:CN-2 SOIL	Prep Factor	:30 gms/1.0 ml
Date Analyzed	:6/29/88	Comments	:1:10 dilution

NO.	NAME	RESULTS PPB	COMMENTS
33	Benzidine	1600	U
34	Pyrene	330	U
35	Butylbenzyl Phthalate	330	U
36	3,3-Dichlorobenzidine	330	U
37	Benzo(A)Anthracene	330	U
38	Chrysene	330	U
39	Bis(2-ethylhexyl) Phthalate	330	U
40	Dioctyl-Phthalate	330	U
41	Benzo(K)Fluoranthene	330	U
42	Benzo(B)Fluoranthene	330	U
43	Benzo(A)Pyrene	330	U
44	Indeno(1,2,3-CD)Pyrene	330	U
45	Dibenzo(A,H)Anthracene	330	U
46	Benzo(GHI)Perylene	330	U

SURROGATE RECOVERY DATA

No.	Name	Amt. Added	% Recovery
1	D5-Nitrobenzene	100	59
2	2-Fluorobiphenyl	100	84
3	D14-Terphenyl	100	99

Comments:
U= Not Detected
J= Detected but below Method Detection Limit
B= Compound found in Blank

Signature

Name/Title: Howard Whaley
GC/MS Project Leader

QC Inc

1205 INDUSTRIAL HIGHWAY • P.O. BOX 514 • SOUTHAMPTON, PA 18966-0514 • (215) 355-3900

VOLATILE ORGANICS ANALYSIS DATA SHEET
Method 624

Lab ID : 633655
Sample ID : CN-3 Soil
Analysis Date: 5/25/88

Client: Jaca
Matrix: Soil
Lab File: 633655V

CAS NO.	COMPOUND	RESULTS(UG/KG)	COMMENT
74-87-3	Chloromethane	1000	U
74-83-9	Bromomethane	1000	U
75-01-4	Vinyl Chloride	1000	U
75-00-3	Chloroethane	1000	U
75-09-2	Methylene Chloride	10000	
75-35-4	1,1-Dichloroethene	500	U
75-34-3	1,1-Dichloroethane	500	U
540-59-0	1,2-Dichloroethene (total)	500	U
67-66-3	Chloroform	500	U
107-06-2	1,2-Dichloroethane	500	U
71-55-6	1,1,1-Trichloroethane	500	U
56-23-5	Carbon Tetrachloride	500	U
75-27-4	Bromodichloromethane	500	U
78-87-5	1,2-Dichloropropane	500	U
10061-01-5	cis-1,3-Dichloropropene	500	U
79-01-6	Trichloroethene	500	U
124-48-1	Dibromochloromethane	500	U
79-00-5	1,1,2-Trichloroethane	500	U
71-43-2	Benzene	500	U
10061-02-6	trans-1,3-Dichloropropene	500	U
75-25-2	Bromoform	500	U
127-18-4	Tetrachloroethene	500	U
79-34-5	1,1,2,2-Tetrachloroethane	500	U
108-88-3	Toluene	2800	
108-90-7	Chlorobenzene	500	U
100-41-4	Ethylbenzene	500	U

SURROGATE RECOVERY DATA	% RECOVERY
D4-1,2-Dichloroethane	98
D8-Toluene	114
Bromoflurobenzene	72

COMMENT
U= Not Detected
J= Detected But Below Method Detection Limit
B= Compound in Blank

Signature

Name/Title Howard Whaley
GC/MS Project Manager

QC Inc

1205 INDUSTRIAL HIGHWAY • P.O. BOX 514 • SOUTHAMPTON, PA 18966-0514 • (215) 355-3900

EPA METHOD 625 BASE/NEUTRAL EXTRACTABLES BY GC/MS

Lab ID :633655
Sample ID :CN-3 SOIL
Date Analyzed :6/29/88

Client :JACA
Prep Factor :30 gms/1.0 ml
Comments :1:10 dilution

NO.	NAME	RESULTS PPB	COMMENTS
1	Bis(2-chloroethyl)Ether	330	U
2	1,2-Dichlorobenzene	330	U
3	1,4-Dichlorobenzene	330	U
4	1,3-Dichlorobenzene	330	U
5	Bis(2-chloroisopropyl)Ether	330	U
6	N-Nitrosodipropyl Amine	330	U
7	Hexachloroethane	330	U
8	Nitrobenzene	330	U
9	Isophorone	330	U
10	Bis(2-chloroethoxy)Methane	330	U
11	1,2,4-Trichlorobenzene	330	U
12	Naphthalene	330	U
13	Hexachlorobutadiene	330	U
14	Hexachlorocyclopentadiene	330	U
15	2-Chloronaphthalene	330	U
16	Dimethyl Phthalate	330	U
17	2,6-Dinitrotoluene	330	U
18	Acenaphthylene	330	U
19	Acenaphthene	330	U
20	2,4-Dinitrotoluene	330	U
21	Diethyl Phthalate	330	U
22	N-Nitrosodimethyl Amine	330	U
23	4-Chlorophenylphenyl Ether	330	U
24	Fluorene	330	U
25	Azobenzene	330	U
26	N-Nitrosodiphenyl Amine	330	U
27	4-Bromophenylphenyl Ether	330	U
28	Hexachlorobenzene	330	U
29	Phenanthrene	330	U
30	Anthracene	330	U
31	Dibutyl Phthalate	330	U
32	Fluoranthene	330	U

Comments:
U= Not detected
J= Detected but below Method Detection limit
B= Compound found in Blank

Signature

Name/Title: Howard Whaley
GC/MS Project Leader

QC Inc

1205 INDUSTRIAL HIGHWAY • P.O. BOX 514 • SOUTHAMPTON, PA 18966-0514 • (215) 355-3900

EPA Method 625 Base/Neutral Extractables by GC/MS

Lab ID	:633655	Client	:JACA
Sample ID	:CN-3 SOIL	Prep Factor	:30 gms/1.0 ml
Date Analyzed	:6/29/88	Comments	:1:10 dilution

NO.	NAME	RESULTS PPB	COMMENTS
33	Benzidine	1600	U
34	Pyrene	330	U
35	Butylbenzyl Phthalate	330	U
36	3,3-Dichlorobenzidine	330	U
37	Benzo(A)Anthracene	330	U
38	Chrysene	330	U
39	Bis(2-ethylhexyl) Phthalate	330	U
40	Dioctyl-Phthalate	330	U
41	Benzo(K)Fluoranthene	330	U
42	Benzo(B)Fluoranthene	330	U
43	Benzo(A)Pyrene	330	U
44	Indeno(1,2,3-CD)Pyrene	330	U
45	Dibenzo(A,H)Anthracene	330	U
46	Benzo(GHI)Perylene	330	U

SURROGATE RECOVERY DATA

No.	Name	Amt. Added	% Recovery
1	D5-Nitrobenzene	100	57
2	2-Fluorobiphenyl	100	84
3	D14-Terphenyl	100	77

Comments:
U= Not Detected
J= Detected but below Method Detection Limit
B= Compound found in Blank

Signature

Name/Title: Howard Whaley
GC/MS Project Leader

QC Inc

1205 INDUSTRIAL HIGHWAY • P.O. BOX 514 • SOUTHAMPTON, PA 18966-0514 • (215) 355-3900

EPA METHOD 625 BASE/NEUTRAL EXTRACTABLES BY GC/MS

Lab ID :633656
Sample ID :CN-4 SOIL
Date Analyzed :6/29/88

Client :JACA
Prep Factor :30 gms/1.0 ml
Comments :1:10 dilution

NO.	NAME	RESULTS PPB	COMMENTS
1	Bis(2-chloroethyl)Ether	330	U
2	1,2-Dichlorobenzene	330	U
3	1,4-Dichlorobenzene	330	U
4	1,3-Dichlorobenzene	330	U
5	Bis(2-chloroisopropyl)Ether	330	U
6	N-Nitrosodipropyl Amine	330	U
7	Hexachloroethane	330	U
8	Nitrobenzene	330	U
9	Isophorone	330	U
10	Bis(2-chloroethoxy)Methane	330	U
11	1,2,4-Trichlorobenzene	330	U
12	Naphthalene	330	U
13	Hexachlorobutadiene	330	U
14	Hexachlorocyclopentadiene	330	U
15	2-Chloronaphthalene	330	U
16	Dimethyl Phthalate	330	U
17	2,6-Dinitrotoluene	330	U
18	Acenaphthylene	330	U
19	Acenaphthene	330	U
20	2,4-Dinitrotoluene	330	U
21	Diethyl Phthalate	330	U
22	N-Nitrosodimethyl Amine	330	U
23	4-Chlorophenylphenyl Ether	330	U
24	Fluorene	330	U
25	Azobenzene	330	U
26	N-Nitrosodiphenyl Amine	330	U
27	4-Bromophenylphenyl Ether	330	U
28	Hexachlorobenzene	330	U
29	Phenanthrene	330	U
30	Anthracene	330	U
31	Dibutyl Phthalate	330	U
32	Fluoranthene	330	U

Comments:
U= Not detected
J= Detected but below Method Detection limit
B= Compound found in Blank

Signature

Name/Title: Howard Whaley
GC/MS Project Leader

QC Inc

1205 INDUSTRIAL HIGHWAY • P.O. BOX 514 • SOUTHAMPTON, PA 18966-0514 • (215) 355-3900

VOLATILE ORGANICS ANALYSIS DATA SHEET
Method 624

Lab ID : 633656
Sample ID : CN-4 Soil
Analysis Date: 5/25/88

Client: Jaca
Matrix: Soil
Lab File: 633656V

CAS NO.	COMPOUND	RESULTS(UG/KG)	COMMENT
74-87-3	Chloromethane	1000	U
74-83-9	Bromomethane	1000	U
75-01-4	Vinyl Chloride	1000	U
75-00-3	Chloroethane	1000	U
75-09-2	Methylene Chloride	20000	
75-35-4	1,1-Dichloroethene	500	U
75-34-3	1,1-Dichloroethane	500	U
540-59-0	1,2-Dichloroethene (total)	500	U
67-66-3	Chloroform	500	U
107-06-2	1,2-Dichloroethane	500	U
71-55-6	1,1,1-Trichloroethane	500	U
56-23-5	Carbon Tetrachloride	500	U
75-27-4	Bromodichloromethane	500	U
78-87-5	1,2-Dichloropropane	500	U
10061-01-5	cis-1,3-Dichloropropene	500	U
79-01-6	Trichloroethene	500	U
124-48-1	Dibromochloromethane	500	U
79-00-5	1,1,2-Trichloroethane	500	U
71-43-2	Benzene	500	U
10061-02-6	trans-1,3-Dichloropropene	500	U
75-25-2	Bromoform	500	U
127-18-4	Tetrachloroethene	500	U
79-34-5	1,1,2,2-Tetrachloroethane	500	U
108-88-3	Toluene	1600	
108-90-7	Chlorobenzene	500	U
100-41-4	Ethylbenzene	500	U

SURROGATE RECOVERY DATA	% RECOVERY
D4-1,2-Dichloroethane	96
D8-Toluene	124
Bromoflurobenzene	66

COMMENT
U= Not Detected
J= Detected But Below Method Detection Limit
B= Compound in Blank

Signature

Name/Title Howard Whaley
GC/MS Project Manager

QC Inc

1205 INDUSTRIAL HIGHWAY • P.O. BOX 514 • SOUTHAMPTON, PA 18966-0514 • (215) 355-3900

EPA Method 625 Base/Neutral Extractables by GC/MS

Lab ID	:633656	Client	:JACA
Sample ID	:CN-4 SOIL	Prep Factor	:30 gms/1.0 ml
Date Analyzed	:6/29/88	Comments	:1:10 dilution

NO.	NAME	RESULTS PPB	COMMENTS
33	Benzidine	1600	U
34	Pyrene	330	U
35	Butylbenzyl Phthalate	330	U
36	3,3-Dichlorobenzidine	330	U
37	Benzo(A)Anthracene	330	U
38	Chrysene	330	U
39	Bis(2-ethylhexyl) Phthalate	370	
40	Dioctyl-Phthalate	330	U
41	Benzo(K)Fluoranthene	330	U
42	Benzo(B)Fluoranthene	330	U
43	Benzo(A)Pyrene	330	U
44	Indeno(1,2,3-CD)Pyrene	330	U
45	Dibenzo(A,H)Anthracene	330	U
46	Benzo(GHI)Perylene	330	U

SURROGATE RECOVERY DATA

No.	Name	Amt. Added	% Recovery
1	D5-Nitrobenzene	100	66
2	2-Fluorobiphenyl	100	93
3	D14-Terphenyl	100	90

Comments:
U= Not Detected
J= Detected but below Method Detection Limit
B= Compound found in Blank

Signature

Name/Title: Howard Whaley
GC/MS Project Leader

QC Inc

1205 INDUSTRIAL HIGHWAY • P.O. BOX 514 • SOUTHAMPTON, PA 18966-0514 • (215) 355-3900

VOLATILE ORGANICS ANALYSIS DATA SHEET
Method 624

Lab ID : 633656
Sample ID : CN-4 Soil
Analysis Date: 5/25/88

Client: Jaca
Matrix: Soil
Lab File: 633656V

CAS NO.	COMPOUND	RESULTS(UG/KG)	COMMENT
74-87-3	Chloromethane	1000	U
74-83-9	Bromomethane	1000	U
75-01-4	Vinyl Chloride	1000	U
75-00-3	Chloroethane	1000	U
75-09-2	Methylene Chloride	20000	
75-35-4	1,1-Dichloroethene	500	U
75-34-3	1,1-Dichloroethane	500	U
540-59-0	1,2-Dichloroethene (total)	500	U
67-66-3	Chloroform	500	U
107-06-2	1,2-Dichloroethane	500	U
71-55-6	1,1,1-Trichloroethane	500	U
56-23-5	Carbon Tetrachloride	500	U
75-27-4	Bromodichloromethane	500	U
78-87-5	1,2-Dichloropropane	500	U
10061-01-5	cis-1,3-Dichloropropene	500	U
79-01-6	Trichloroethene	500	U
124-48-1	Dibromochloromethane	500	U
79-00-5	1,1,2-Trichloroethane	500	U
71-43-2	Benzene	500	U
10061-02-6	trans-1,3-Dichloropropene	500	U
75-25-2	Bromoform	500	U
127-18-4	Tetrachloroethene	500	U
79-34-5	1,1,2,2-Tetrachloroethane	500	U
108-88-3	Toluene	1600	
108-90-7	Chlorobenzene	500	U
100-41-4	Ethylbenzene	500	U

SURROGATE RECOVERY DATA	% RECOVERY
D4-1,2-Dichloroethane	96
D8-Toluene	124
Bromoflurobenzene	66

COMMENT
U= Not Detected
J= Detected But Below Method Detection Limit
B= Compound in Blank

Signature

Name/Title Howard Whaley
GC/MS Project Manager

QC Inc

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VOLATILE ORGANICS ANALYSIS DATA SHEET
Method 624

Lab ID : 633657
Sample ID : CNF Liquid
Analysis Date: 5/31/88

Client: Jaca
Matrix: Water
Lab File: 633657V

CAS NO.	COMPOUND	RESULTS(UG/L)	COMMENT
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	8.9	
107-06-2	1,2-Dichloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U

SURROGATE RECOVERY DATA	% RECOVERY
D4-1,2-Dichloroethane	94
D8-Toluene	96
Bromoflurobenzene	82

COMMENT
U= Not Detected
J= Detected But Below Method Detection Limit
B= Compound in Blank

Signature

Name/Title Howard Whaley
GC/MS Project Manager

QC Inc

1205 INDUSTRIAL HIGHWAY • P.O. BOX 514 • SOUTHAMPTON, PA 18966-0514 • (215) 355-3900

VOLATILE ORGANICS ANALYSIS DATA SHEET
Method 624

Lab ID : BLK525
Sample ID : Water Blank
Analysis Date: 5/25/88

Client: Jaca
Matrix: Water
Lab File: BLK525

CAS NO.	COMPOUND	RESULTS(UG/L)	COMMENT
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	11	
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U

SURROGATE RECOVERY DATA	% RECOVERY
D4-1,2-Dichloroethane	96
D8-Toluene	118
Bromoflurobenzene	74

COMMENT
U= Not Detected
J= Detected But Below Method Detection Limit
B= Compound in Blank

Signature

Name/Title Howard Whaley
GC/MS Project Manager

QC Inc

1205 INDUSTRIAL HIGHWAY • P.O. BOX 514 • SOUTHAMPTON, PA 18966-0514 • (215) 355-3900

EPA Method 625 Base/Neutral Extractables by GC/MS

Lab ID :BLK628
Sample ID :SOLID BLANK 6/28
Date Analyzed :6/28/88
Client :JACA
Prep Factor :30 gms/1.0 ml
Comments :

NO.	NAME	RESULTS PPB	COMMENTS
33	Benzidine	1600	U
34	Pyrene	330	U
35	Butylbenzyl Phthalate	330	U
36	3,3-Dichlorobenzidine	330	U
37	Benzo(A)Anthracene	330	U
38	Chrysene	330	U
39	Bis(2-ethylhexyl) Phthalate	330	U
40	Dioctyl-Phthalate	330	U
41	Benzo(K)Fluoranthene	330	U
42	Benzo(B)Fluoranthene	330	U
43	Benzo(A)Pyrene	330	U
44	Indeno(1,2,3-CD)Pyrene	330	U
45	Dibenzo(A,H)Anthracene	330	U
46	Benzo(GHI)Perylene	330	U

SURROGATE RECOVERY DATA

No.	Name	Amt. Added	% Recovery
1	D5-Nitrobenzene	100	91
2	2-Fluorobiphenyl	100	90
3	D14-Terphenyl	100	103

Comments:
U= Not Detected
J= Detected but below Method Detection Limit
B= Compound found in Blank

Signature

Name/Title: Howard Whaley
GC/MS Project Leader

QC Inc

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VOLATILE ORGANICS ANALYSIS DATA SHEET
Method 624

Lab ID : 633654
Sample ID : CN-2 Soil
Analysis Date: 6/06/88

Client: Jaca
Matrix: Soil
Lab File: 633654VR

CAS NO.	COMPOUND	RESULTS(UG/KG)	COMMENT
74-87-3	Chloromethane	1000	U
74-83-9	Bromomethane	1000	U
75-01-4	Vinyl Chloride	1000	U
75-00-3	Chloroethane	1000	U
75-09-2	Methylene Chloride	18000	
75-35-4	1,1-Dichloroethene	500	U
75-34-3	1,1-Dichloroethane	500	U
540-59-0	1,2-Dichloroethene (total)	500	U
67-66-3	Chloroform	500	U
107-06-2	1,2-Dichloroethane	500	U
71-55-6	1,1,1-Trichloroethane	500	U
56-23-5	Carbon Tetrachloride	500	U
75-27-4	Bromodichloromethane	500	U
78-87-5	1,2-Dichloropropane	500	U
10061-01-5	cis-1,3-Dichloropropene	500	U
79-01-6	Trichloroethene	500	U
124-48-1	Dibromochloromethane	500	U
79-00-5	1,1,2-Trichloroethane	500	U
71-43-2	Benzene	500	U
10061-02-6	trans-1,3-Dichloropropene	500	U
75-25-2	Bromoform	500	U
127-18-4	Tetrachloroethene	500	U
79-34-5	1,1,2,2-Tetrachloroethane	500	U
108-88-3	Toluene	500	U
108-90-7	Chlorobenzene	500	U
100-41-4	Ethylbenzene	500	U

SURROGATE RECOVERY DATA	% RECOVERY
D4-1,2-Dichloroethane	94
D8-Toluene	104
Bromoflurobenzene	94

COMMENT
U= Not Detected
J= Detected But Below Method Detection Limit
B= Compound in Blank

Signature

Name/Title Howard Whaley
GC/MS Project Manager

QC Inc

1205 INDUSTRIAL HIGHWAY • P.O. BOX 514 • SOUTHAMPTON, PA 18966-0514 • (215) 355-3900

EPA METHOD 625 BASE/NEUTRAL EXTRACTABLES BY GC/MS

Lab ID :BLK628
Sample ID :SOLID BLANK 6/28
Date Analyzed :6/28/88
Client :JACA
Prep Factor :30 gms/1.0 ml
Comments :

NO.	NAME	RESULTS PPB	COMMENTS
1	Bis(2-chloroethyl)Ether	330	U
2	1,2-Dichlorobenzene	330	U
3	1,4-Dichlorobenzene	330	U
4	1,3-Dichlorobenzene	330	U
5	Bis(2-chloroisopropyl)Ether	330	U
6	N-Nitrosodipropyl Amine	330	U
7	Hexachloroethane	330	U
8	Nitrobenzene	330	U
9	Isophorone	330	U
10	Bis(2-chloroethoxy)Methane	330	U
11	1,2,4-Trichlorobenzene	330	U
12	Naphthalene	330	U
13	Hexachlorobutadiene	330	U
14	Hexachlorocyclopentadiene	330	U
15	2-Chloronaphthalene	330	U
16	Dimethyl Phthalate	330	U
17	2,6-Dinitrotoluene	330	U
18	Acenaphthylene	330	U
19	Acenaphthene	330	U
20	2,4-Dinitrotoluene	330	U
21	Diethyl Phthalate	330	U
22	N-Nitrosodimethyl Amine	330	U
23	4-Chlorophenylphenyl Ether	330	U
24	Fluorene	330	U
25	Azobenzene	330	U
26	N-Nitrosodiphenyl Amine	330	U
27	4-Bromophenylphenyl Ether	330	U
28	Hexachlorobenzene	330	U
29	Phenanthrene	330	U
30	Anthracene	330	U
31	Dibutyl Phthalate	330	U
32	Fluoranthene	330	U

Comments:
U= Not detected
J= Detected but below Method Detection limit
B= Compound found in Blank

Signature

Name/Title: Howard Whaley
GC/MS Project Leader

OIL TANK CONTENTS

QC Inc
1205 INDUSTRIAL HIGHWAY • P.O. BOX 514
SOUTHAMPTON, PA. 18966 • 215/355-3900

JACA CORP.
550 PINETOWN RD.
FORT WASHINGTON, PA.
19034
ATTN: PHIL GETTY/NANCY LYONS

REPORT DATE : 12/02/87

SAMPLE DATE : 11/09/87
SAMPLE TIME : 02:30PM
SAMPLE TEMP : NA F
SAMPLED BY : CU
COLLECTED BY : CU
ANALYSIS DATE : 11/23/87
P.O. NUMBER :
PWS-ID NUMBER :

	TEST NUMBER →	WD150-UGL	WD609-UGL	WD647-UGL	WD660-UGL	WD666-UGL	WD668-UGL	WD669-UGL	WD703-UGL	WD750-UGL	WD751-UGL	WD752-UGL
	TEST NAME →	PET HYDRO*	METHYLENE*	PCBS	VINYLCHLO*	1,1 DICHL*	BASE-SCAN	ACID-SCAN	DICHL ETHA	CHLOROMET*	BROMETHAN*	CHLOROETH
LE/CONTAINER	UNIT MEASURE →	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
UID SAMPLE(OILS) NWSE	°	33300.	<25.0	<50.	<25.0	<25.0	SEE ATTCHD	SEE ATTCHD	<25.0	<25.0	<25.	<25.
5294 QC SUPPLIED CONTAINER												

* PET HYDRO = PETROLEUM HYDROCARBONS
* METHYLENE = METHYLENE CHLORIDE
* VINYLCHLO = VINYL CHLORIDE
* 1,1 DICHL = 1,1 DICHLOROETHYLENE
* CHLOROMET = CHLOROMETHANE
* BROMETHAN = BROMETHANE
* CHLOROETH = CHLOROETHANE

E# COMMENT NOTE: EACH SAMPLE ABOVE IS GIVEN A UNIQUE ID# (PRINTED JUST BELOW THE SAMPLE)
SAMPLED BY CUSTOMER
4 ALL TESTING IS CONDUCTED IN ACCORDANCE WITH E.P.A. METHODOLOGY.

Allen D Schopbach
Allen D. Schopbach, President

> - Greater Than < - Less Than

QC Inc
1205 INDUSTRIAL HIGHWAY • P.O. BOX 514
SOUTHAMPTON, PA. 18966 • 215/355-3900

JACA CORP.
550 PINETOWN RD.
FORT WASHINGTON, PA.
19034
ATTN: PHIL GETTY/NANCY LYONS

REPORT DATE : 12/02/87

SAMPLE DATE : 11/09/87
SAMPLE TIME : 02:30PM
SAMPLE TEMP : NA F
SAMPLED BY : CJ
COLLECTED BY : CJ
ANALYSIS DATE : 11/23/87
P.O. NUMBER :
PWS-ID NUMBER :

	TEST NUMBER →	W0601-UGL	W0602-UGL	W0604-UGL	W0605-UGL	W0606-UGL	W0653-UGL	W0658-UGL	W0659-UGL	W0704-UGL	W0706-UGL	W0709-UGL
	TEST NAME →	111-TRI *	TCE *	CHLOROFORM	DICHLBROM*	DIBROMCHL*	1,2 DCE *	CARB-TETR*	1,2DICHLO*	1,2DICH P*	TRICHLOROE	DICHLOROP
LE/CONTAINER	UNIT MEASURE →	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
QUID SAMPLE(OILS) NWSE 5294 QC SUPPLIED CONTAINER		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0

* 111-TRI = 1,1,1-TRICHLOROETHANE
* TCE = TRICHLOROETHYLENE
* DICHLBROM = DICHLOROBROMOMETHANE
* DIBROMCHL = DIBROMOCHLOROMETHANE
* 1,2 DCE = TRANS 1,2 DICHLOROETHYLENE
* CARB-TETR = CARBON TETRACHLORIDE
* 1,2DICHLO = 1,2 DICHLOROETHANE
* 1,2DICH P = 1,2-DICHLOROPROPANE
* DICHLOROP = TRANS 1,3 DICHLOROPROPENE

.E/ COMMENT NOTE: EACH SAMPLE ABOVE IS GIVEN A UNIQUE ID# (PRINTED JUST BELOW THE SAMPLE)
SAMPLED BY CUSTOMER
'4 ALL TESTING IS CONDUCTED IN ACCORDANCE WITH E.P.A. METHODOLOGY.

Allen D. Schopbach
Allen D. Schopbach, President

> - Greater Than < - Less Than

QC Inc
1205 INDUSTRIAL HIGHWAY • P.O. BOX 514
SOUTHAMPTON, PA. 18966 • 215/355-3900

JACA CORP.
550 PINETOWN RD.
FORT WASHINGTON, PA.
19034
ATTN: PHIL GETTY/NANCY LYONS

REPORT DATE : 12/02/87

SAMPLE DATE : 11/09/87
SAMPLE TIME : 02:30PM
SAMPLE TEMP : NA F
SAMPLED BY : CU
COLLECTED BY : CU
ANALYSIS DATE : 11/23/87
P.O. NUMBER :
PWS-ID NUMBER :

LE/CONTAINER	WD214-MGL	WD219-MGL	WD603-UGL	WD607-UGL	WD661-UGL	WD700-UGL	WD701-UGL	WD707-UGL	WD708-UGL	WD722-UGL	WD753-UGI
TEST NUMBER →	WD214-MGL	WD219-MGL	WD603-UGL	WD607-UGL	WD661-UGL	WD700-UGL	WD701-UGL	WD707-UGL	WD708-UGL	WD722-UGL	WD753-UGI
TEST NAME →	LEAD	NICKEL	PCE *	BROMOFORM	CHLORBENZ*	BENZENE	TOLUENE	DICHLOROP*	TETRACHLO*	ETHYL BEN*	2 CHLORO
UNIT MEASURE →	MG/L	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
QUID SAMPLE(OILS) NWSE	°	6.2	0.33	<25.0	<25.0	<25.0	60.0	360.	<25.0	<25.0	133.	<25.(
5294 QC SUPPLIED CONTAINER												

* PCE = TETRACHLOROETHYLENE
* CHLORBENZ = CHLOROBENZENE
* DICHLOROP = CIS 1,3 DICHLOROPROPENE
* TETRACHLO = 1,1,2,2 TETRACHLOROETHANE
* ETHYL BEN = ETHYL BENZENE
* 2 CHLOROE = 2 CHLOROETHYLVINYL ETHER

E/ COMMENT NOTE: EACH SAMPLE ABOVE IS GIVEN A UNIQUE ID# (PRINTED JUST BELOW THE SAMPLE)
SAMPLED BY CUSTOMER
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JACA CORP.
550 PINETOWN RD.
FORT WASHINGTON, PA.
19034
ATTN:PHIL GETTY/NANCY LYONS

REPORT DATE : 12/02/87

SAMPLE DATE : 11/09/87
SAMPLE TIME : 02:30PM
SAMPLE TEMP : NA F
SAMPLED BY : CJ
COLLECTED BY : CJ
ANALYSIS DATE : 11/23/87
P.O. NUMBER :
PWS-ID NUMBER :

	TEST NUMBER →	WD209-MGL	WD227-MGL	WD228-MGL
	TEST NAME →	CHROMIUM	VANADIUM	ZINC
LE/CONTAINER	UNIT MEASURE →	MG/L	MG/L	MG/L
QUID SAMPLE(OILS) NWSE		1.0	0.19	90.0
5294 QC SUPPLIED CONTAINER				

LE# COMMENT NOTE: EACH SAMPLE ABOVE IS GIVEN A UNIQUE ID# (PRINTED JUST BELOW THE SAMPLE)
SAMPLED BY CUSTOMER
)4 ALL TESTING IS CONDUCTED IN ACCORDANCE WITH E.P.A. METHODOLOGY.

Allen D Schopbach
Allen D. Schopbach, President

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PRIORITY POLLUTANTS
ACID EXTRACTABLES
PER EPA METHOD 625
(CONCENTRATION IN PPB)

CUSTOMER: Jaca
SAMPLE DATE: 11-9-87
SAMPLE IDENTIFICATION: NWSE liquid/oil
SAMPLE NUMBER: 545294

		DETECTION LIMIT PPB
PHENOL	4,660	< 3,000.
2-NITROPHENOL	ND	< 3,000.
4-NITROPHENOL	4,430	< 3,000.
2,4-DINITROPHENOL	ND	< 3,000.
4,6-DINITRO-O-CRESOL	ND	< 3,000.
PENTACHLOROPHENOL	ND	< 3,000.
P-CHLORO-M-CRESOL	ND	< 3,000.
2-CHLOROPHENOL	ND	< 3,000.
2,4-DICHLOROPHENOL	ND	< 3,000.
2,4,6-TRICHLOROPHENOL	ND	< 3,000.
2,4-DIMETHYLPHENOL	ND	< 3,000.

J. Morton
QC, INC.

All testing done in accordance with EPA methodology
ND = not detected

QC Inc

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PRIORITY POLLUTANTS
BASE/NEUTRAL EXTRACTABLES PER EPA METHOD 625
(CONCENTRATION IN PPB)

CUSTOMER: Jaca
SAMPLE DATE: 11-9-87
SAMPLE IDENTIFICATION: NWSE Liquid/oil
SAMPLE NUMBER: 545294

		DETECTION LIMITS PPB
ACENAPHTHYLENE	ND	< 3,000.
ACENAPHTHENE	13,200	< 3,000.
BUTYL BENZYL PHTHALATE	ND	< 3,000.
1,2-DICHLOROBENZENE	ND	< 3,000.
1,3-DICHLOROBENZENE	ND	< 3,000.
1,4-DICHLOROBENZENE	ND	< 3,000.
HEXACHLOROETHANE	ND	< 3,000.
HEXACHLOROBUTADIENE	ND	< 3,000.
HEXACHLOROBENZENE	ND	< 3,000.
1,2,4-TRICHLOROBENZENE	ND	< 3,000.
BIS(2-CHLOROETHOXY) METHANE	ND	< 3,000.
NAPHTHALENE	64,500	< 3,000.
2-CHLORONAPHTHALENE	ND	< 3,000.
ISOPHORONE	ND	< 3,000.
NITROBENZENE	17.100	< 3,000.
2,4-DINITROTOLUENE	ND	< 3,000.
2,6-DINITROTOLUENE	4,090	< 3,000.
4-BROMOPHENYL PHENYL ETHER	ND	< 3,000.
BIS (2-ETHYLHEXYL) PHTHALATE	ND	< 3,000.
DI-N-OCTYL PHTHALATE	ND	< 3,000.
DIMETHYL PHTHALATE	ND	< 3,000.
DIETHYL PHTHALATE	ND	< 3,000.
DI-NBUTYL PHTHALATE	ND	< 3,000.
FLUORENE	10,100	< 3,000.
FLUORANTHENE	ND	< 3,000.
CHRYSENE	ND	< 3,000.
PYRENE	4,070	< 3,000.
PHENANTHRENE	20,300	< 3,000.
ANTHRACENE	ND	< 3,000.

J. Morton

QC, INC.

All testing done in accordance with EPA methodology.
ND = not detected.