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TO: Edward F. Neuhauser National Grid 300 Erie Boulevard West Syracuse, NY 13202 315-428-3355	RE: Rennselaer Site	DATE: 2/27/06 JOB NO.: 128531.004

WE ARE SENDING YOU [X] ENCLOSED [ ] UNDER SEPARATE COVER VIA _____ THE FOLLOWING

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	3	Site Characterization Data Summary Report, Rennselaer Non-Owned Former MGP Site, 89 Washington Street, Rennselaer, New York, February 2006	

FROM: **Frank Williams** BY: **FedEx - Priority**

Brown and Caldwell Associates

Site Characterization
Data Summary Report
Rensselaer Non-Owned
Former MGP Site
89 Washington Street
Rensselaer, New York

February 2006

SITE CHARACTERIZATION
DATA SUMMARY REPORT
RENSSELAER NON-OWNED FORMER MGP SITE
89 WASHINGTON STREET
RENSSELAER, NEW YORK

Prepared for:

National Grid
300 Erie Boulevard West
Syracuse, New York 13202

Prepared by:

Brown and Caldwell Associates
110 Commerce Drive
Allendale, New Jersey 07401

February 2006

128531.004

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Rensselaer, New York

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Volatile Organic Compounds					
BTEX					
Benzene	0.06	1.6 U	0.83 U	0.18 J	0.75 U
Ethylbenzene	5.5	1.6 U	5.6	8.4	2.8
Toluene	1.5	1.6 U	0.83 U	0.8 U	0.75 U
o-Xylene	1.2	0.5 J	1.4	3.8	1.6
m&p-Xylenes	1.2	0.29 J	0.23 J	1.2 J	0.65 J
Total BTEX		0.8	7.2	13.6	5.1
Other VOCs					
Acetone	0.2	8.1 U	NA	NA	NA
Bromodichloromethane	NE	1.6 U	NA	NA	NA
Bromoform	NE	1.6 U	NA	NA	NA
Bromomethane	NE	1.6 U	NA	NA	NA
2-Butanone (MEK)	0.3	8.1 U	NA	NA	NA
Carbon disulfide	2.7	0.17 J	NA	NA	NA
Carbon tetrachloride	0.6	1.6 U	NA	NA	NA
Chlorobenzene	1.7	1.6 U	NA	NA	NA
Chloroethane	1.9	1.6 U	NA	NA	NA
Chloroform	0.3	1.6 U	NA	NA	NA
Chloromethane	NE	1.6 U	NA	NA	NA
Cyclohexane	NE	1.6 U	NA	NA	NA
1,2-Dibromo-3-chloropropane	NE	1.6 U	NA	NA	NA
Dibromochloromethane	NE	1.6 U	NA	NA	NA
1,2-Dibromoethane	NE	1.6 U	NA	NA	NA
1,2-Dichlorobenzene	7.9	1.6 U	NA	NA	NA
1,3-Dichlorobenzene	1.6	1.6 U	NA	NA	NA
1,4-Dichlorobenzene	8.5	1.6 U	NA	NA	NA
Dichlorodifluoromethane	NE	1.6 U	NA	NA	NA
1,1-Dichloroethane	0.2	1.6 U	NA	NA	NA
1,2-Dichloroethane	0.1	1.6 U	NA	NA	NA
1,1-Dichloroethene	0.4	1.6 U	NA	NA	NA
cis-1,2-Dichloroethene	0.3	1.6 U	NA	NA	NA
trans-1,2-Dichloroethene	0.3	1.6 U	NA	NA	NA
1,2-Dichloropropane	NE	1.6 U	NA	NA	NA
cis-1,3-Dichloropropene	0.3	1.6 U	NA	NA	NA
trans-1,3-Dichloropropene	0.3	1.6 U	NA	NA	NA
2-Hexanone	NE	8.1 U	NA	NA	NA
Isopropylbenzene	NE	0.66 J	NA	NA	NA
Methyl acetate	NE	1.6 U	NA	NA	NA
Methylcyclohexane	NE	1.3 J	NA	NA	NA
Methyl tert-butyl ether	NE	1.6 U	NA	NA	NA
4-Methyl-2-pentanone	1	8.1 U	NA	NA	NA
Methylene chloride	0.1	1.6 U	NA	NA	NA
Styrene	NE	1.6 U	NA	NA	NA

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ANALYTICAL RESULTS, TEST PIT SOILS
JUNE 2005
Rensselaer, New York

Chemical Name	Recommended Soil Cleanup Objective (TAGM 4046) mg/kg	TP-101-Fill 6/11/2005 mg/kg	TP-102-Fill 6/11/2005 mg/kg	TP-104-Native 6/11/2005 mg/kg	TP-104-Native DUP 6/11/2005 mg/kg
1,1,2,2-Tetrachloroethane	0.6	1.6 U	NA	NA	NA
Tetrachloroethene	1.4	1.6 U	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	6	1.6 U	NA	NA	NA
1,2,4-Trichlorobenzene	3.4	1.6 U	NA	NA	NA
1,1,1-Trichloroethane	0.8	1.6 U	NA	NA	NA
1,1,2-Trichloroethane	NE	1.6 U	NA	NA	NA
Trichloroethene	0.7	1.6 U	NA	NA	NA
Trichlorofluoromethane	NE	1.6 U	NA	NA	NA
Vinyl chloride	0.2	1.6 U	NA	NA	NA
Semivolatile Organic Compounds					
Noncarcinogenic PAHs					
Acenaphthene	50	NA	0.65	1.5	4.5 D
Acenaphthylene	41	NA	0.24 J	0.26 J	0.74
Anthracene	50	NA	0.55	0.96	2.3
Benzo(g,h,i)perylene	50	NA	0.14 J	0.34 J	0.56
Fluoranthene	50	NA	0.59	1.4	3.2
Fluorene	50	NA	0.44 U	0.42 U	0.39 U
Naphthalene	13	NA	0.16 J	4.6 D	12 D
Phenanthrene	50	NA	1.1	2.9	11 D
Pyrene	50	NA	0.85	1.8	5.7 D
Total Noncarcinogenic PAHs		NA	4.3	13.8	40
Carcinogenic PAHs					
Benzo(a)anthracene	0.224	NA	0.4 J	0.83	2.2
Benzo(a)pyrene	0.061	NA	0.37 J	0.86	2.4
Benzo(b)fluoranthene	1.1	NA	0.28 J	0.59	1.8
Benzo(k)fluoranthene	1.1	NA	0.12 J	0.3 J	0.85
Chrysene	0.4	NA	0.34 J	0.67	1.7
Dibenzo(a,h)anthracene	0.014	NA	0.44 U	0.42 U	0.076 J
Indeno(1,2,3-cd)pyrene	3.2	NA	0.44 U	0.42 U	0.23 J
Total Carcinogenic PAHs		NA	1.5	3.3	9.3
Total PAHs		NA	5.8	17.0	49
Pesticides					
Aldrin	0.041	0.0022 U	NA	NA	NA
alpha-BHC	0.11	0.0022 U	NA	NA	NA
beta-BHC	0.2	0.0022 U	NA	NA	NA
delta-BHC	0.3	0.0022 U	NA	NA	NA
gamma-BHC (Lindane)	0.06	0.0022 U	NA	NA	NA
alpha-Chlordane	0.54	0.0022 U	NA	NA	NA
gamma-Chlordane	0.54	0.0022 U	NA	NA	NA
4,4'-DDD	2.9	0.0043 U	NA	NA	NA
4,4'-DDE	2.1	0.0043 U	NA	NA	NA
4,4'-DDT	2.1	0.0043 U	NA	NA	NA
Dieldrin	0.044	0.0043 U	NA	NA	NA
Endosulfan I	0.9	0.0022 U	NA	NA	NA

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ANALYTICAL RESULTS, TEST PIT SOILS
JUNE 2005
Rensselaer, New York

Chemical Name	Recommended Soil Cleanup Objective (TAGM 4046) mg/kg	TP-101-Fill 6/11/2005 mg/kg	TP-102-Fill 6/11/2005 mg/kg	TP-104-Native 6/11/2005 mg/kg	TP-104-Native DUP 6/11/2005 mg/kg
Endosulfan II	0.9	0.0043 U	NA	NA	NA
Endosulfan sulfate	1	0.0043 U	NA	NA	NA
Endrin	0.1	0.0043 U	NA	NA	NA
Endrin aldehyde	NE	0.0043 U	NA	NA	NA
Endrin ketone	NE	0.0043 U	NA	NA	NA
Heptachlor	0.1	0.0022 U	NA	NA	NA
Heptachlor epoxide	0.02	0.0022 U	NA	NA	NA
Methoxychlor	10	0.022 U	NA	NA	NA
Toxaphene	NE	0.22 U	NA	NA	NA
PCBs					
Aroclor-1016	1	0.043 U	NA	NA	NA
Aroclor-1221	1	0.087 U	NA	NA	NA
Aroclor-1232	1	0.043 U	NA	NA	NA
Aroclor-1242	1	0.043 U	NA	NA	NA
Aroclor-1248	1	0.043 U	NA	NA	NA
Aroclor-1254	1	0.043 U	NA	NA	NA
Aroclor-1260	1	0.043 U	NA	NA	NA
Inorganic Constituents					
Aluminum	SB	13	NA	NA	NA
Antimony	SB	15.6 U	NA	NA	NA
Arsenic	7.5 or SB	3.4 J	NA	NA	NA
Barium	300 or SB	124	NA	NA	NA
Beryllium	0.16 or SB	0.52 J	NA	NA	NA
Cadmium	1 or SB	1.3 U	NA	NA	NA
Calcium	SB	2.66	NA	NA	NA
Chromium	10 or SB	16.1	NA	NA	NA
Cobalt	30 or SB	11.7 J	NA	NA	NA
Copper	25 or SB	21.1	NA	NA	NA
Iron	2000 or SB	25100	NA	NA	NA
Lead	SB	15.9	NA	NA	NA
Magnesium	SB	4680	NA	NA	NA
Manganese	SB	420	NA	NA	NA
Mercury	0.1 or SB	0.042 J	NA	NA	NA
Nickel	13 or SB	23.4	NA	NA	NA
Potassium	SB	995 J	NA	NA	NA
Selenium	2 or SB	9.1 U	NA	NA	NA
Silver	SB	2.6 U	NA	NA	NA
Sodium	SB	1300 U	NA	NA	NA
Thallium	SB	6.5 U	NA	NA	NA
Vanadium	150 or SB	19.8	NA	NA	NA
Zinc	20 or SB	82.4	NA	NA	NA
Cyanide, Total	NE	0.65 U	4.21	0.639 U	0.6 U
Total Organic Carbon	NE	NA	4700	5500	6300

TABLE 1
ANALYTICAL RESULTS, TEST PIT SOILS
JUNE 2005
Rensselaer, New York

Chemical Name	Recommended Soil Cleanup Objective (TAGM 4046) mg/kg	TP-101-Fill 6/11/2005 mg/kg	TP-102-Fill 6/11/2005 mg/kg	TP-104-Native 6/11/2005 mg/kg	TP-104-Native DUP 6/11/2005 mg/kg

Qualifier Notes:
U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.
D - Indicates secondary dilution factor.
NA - Not analyzed.

Boxed values are above the Recommended Soil Cleanup Objectives (TAGM 4046).
(a) - TAGM 4046 value of 1.2 mg/kg is based on the sum total of all Xylenes.
SB - Site background.
NE - Not established.

TABLE 2
ANALYTICAL RESULTS, SOIL BORINGS
JUNE 2005
Rensselaer, New York

Chemical Name	Recommended Soil Cleanup Objective (TAGM 4046)	SB-101 4-6' 6/19/2005	SB-101 10-12' 6/19/2005	SB-102 8-10' 6/18/2005	SB-102 20-22' 6/18/2005	SB-103 12-14' 6/19/2005	SB-103 18-20' 6/19/2005	SB-105 10-12' 6/18/2005	SB-106 8-10' 6/25/2005
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Volatile Organic Compounds									
BTEX									
Benzene	0.06	0.0061 U	0.0054 U	0.0061 UJ	0.67	0.0056 U	0.14 U	0.0053 U	0.0056 U
Ethylbenzene	5.5	0.0061 U	0.0054 U	0.0019 J	2.1	0.0056 U	0.21	0.0053 U	0.086
Toluene	1.5	0.0081	0.0019 J	0.0018 J	1.7	0.0065	0.14 U	0.0053 U	0.0056 U
o-Xylene	1.2[(a)]	0.0061 U	0.0054 U	0.0065	1.1	0.0056 U	0.088 J	0.0053 U	0.061
m&p-Xylenes	1.2[(a)]	0.0014 J	0.0054 U	0.0026 J	2.4	0.0056 U	0.041 J	0.0053 U	0.0044 J
Total BTEX		0.0095	0.0019	0.0128	8.0	0.0065	0.34	ND	0.151
Semivolatile Organic Compounds									
Noncarcinogenic PAHs									
Acenaphthene	50	4 U	0.36 U	6	3.4 D	0.19 J	0.71	1.5	0.35 J
Acenaphthylene	41	4 U	0.36 U	0.6 J	1.7	0.079 J	0.088 J	0.25 J	0.23 J
Anthracene	50	4 U	0.36 U	4.1	2.3	0.25 J	0.4	0.9	0.34 J
Benzo(g,h,i)perylene	50	4 U	0.36 U	0.58 J	0.55	0.37 U	0.075 J	0.24 J	0.37 U
Fluoranthene	50	4 U	0.36 U	4.4	3.2 D	0.45	0.45	1.3	0.43
Fluorene	50	4 U	0.36 U	2.7	2.3	0.11 J	0.35 J	0.71	0.37 U
Naphthalene	13	4 U	0.36 U	8.6 D	36 D	0.37 U	0.7	0.2 J	0.37 U
Phenanthrene	50	4 U	0.36 U	13 D	7.8 D	0.81	1.3	3.3 D	1.2
Pyrene	50	4 U	0.36 U	6.2	5.1 D	0.67	0.74	2	0.61
Total Noncarcinogenic PAHs		ND	ND	46	62	2.56	4.8	10	3.2
Carcinogenic PAHs									
Benzo(a)anthracene	0.224	4 U	0.36 U	2.3	1.8	0.21 J	0.22 J	0.68	0.23 J
Benzo(a)pyrene	0.061	4 U	0.36 U	1.9	1.5	0.13 J	0.16 J	0.63	0.15 J
Benzo(b)fluoranthene	1.1	4 U	0.36 U	1.5	1.2	0.099 J	0.12 J	0.53	0.14 J
Benzo(k)fluoranthene	1.1	4 U	0.36 U	0.4 J	0.29 J	0.37 U	0.36 U	0.15 J	0.37 U
Chrysene	0.4	4 U	0.36 U	2.2	1.6	0.19 J	0.2 J	0.66	0.25 J
Dibenzo(a,h)anthracene	0.014	4 U	0.36 U	0.8 U	0.058 J	0.37 U	0.36 U	0.35 U	0.37 U
Indeno(1,2,3-cd)pyrene	3.2	4 U	0.36 U	0.48 J	0.44	0.37 U	0.36 U	0.2 J	0.37 U

TABLE 2
ANALYTICAL RESULTS, SOIL BORINGS
JUNE 2005
Rensselaer, New York

Chemical Name	Recommended Soil Cleanup Objective (TAGM 4046) mg/kg	SB-101 4-6' 6/19/2005 mg/kg	SB-101 10-12' 6/19/2005 mg/kg	SB-102 8-10' 6/18/2005 mg/kg	SB-102 20-22' 6/18/2005 mg/kg	SB-103 12-14' 6/19/2005 mg/kg	SB-103 18-20' 6/19/2005 mg/kg	SB-105 10-12' 6/18/2005 mg/kg	SB-106 8-10' 6/25/2005 mg/kg
Total Carcinogenic PAHs		ND	ND	8.8	6.9	0.63	0.7	2.9	0.77
Total PAHs		ND	ND	55	69	3.19	5.5	13	3.9
Inorganic Constituents									
Cyanide, Total	NE	0.608 U	0.541 U	0.608 U	0.547 U	18.5	0.548 U	0.532 U	0.563 U
Total Organic Carbon	NE	6200	6100	3600	7000	1200	6000	17000 E	2700

Qualifier Notes:
U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.
D - Indicates secondary dilution factor.
ND - Non-detected.

Boxed values are above the Recommended Soil Cleanup Objectives (TAGM 4046).
(a) - TAGM 4046 value of 1.2 mg/kg is based on the sum total of all Xylenes.
NE - Not established.

TABLE 3
ANALYTICAL RESULTS, GROUNDWATER
JULY 2005
Rensselaer, New York

Chemical Name	NYS Part 703 Standards	T.O.G.S. 1.1.1.[1]	MW-101 7/6/2005	MW-101 DUP 7/6/2005	MW-103 7/6/2005
	ug/L	ug/L	ug/L	ug/L	ug/L
Volatile Organic Compounds					
BTEX					
Benzene	1	1	10 U	10 U	2 J
Ethylbenzene	5	5	10 U	10 U	91
Toluene	5	5	10 U	10 U	0.95 J
o-Xylene	5	5	10 U	10 U	36
m&p-Xylenes	5	5	10 U	10 U	11
Total BTEX			ND	ND	141
Other VOCs					
Acetone	NE	50	25 U	25 U	25 U
Bromodichloromethane	NE	50	10 U	10 U	10 U
Bromoform	NE	50	10 U	10 U	10 U
Bromomethane	5	5	10 U	10 U	10 U
2-Butanone	NE	50	25 U	25 U	25 U
Carbon disulfide	NE	NE	10 U	10 U	10 U
Carbon tetrachloride	5	5	10 U	10 U	10 U
Chlorobenzene	5	5	10 U	10 U	10 U
Chloroethane	5	5	10 U	10 U	10 U
Chloroform	7	7	10 U	10 U	10 U
Chloromethane	5	5	10 U	10 U	10 U
Cyclohexane	NE	NE	10 U	10 U	10 U
1,2-Dibromo-3-chloropropane	0.04	0.04	10 U	10 U	10 U
Dibromochloromethane	NE	50	10 U	10 U	10 U
1,2-Dibromoethane	NE	0.0006	10 U	10 U	10 U
1,2-Dichlorobenzene	NE	3	10 U	10 U	10 U
1,3-Dichlorobenzene	NE	3	10 U	10 U	10 U
1,4-Dichlorobenzene	NE	3	10 U	10 U	5 U
Dichlorodifluoromethane	NE	5	10 U	10 U	10 U
1,1-Dichloroethane	5	5	10 U	10 U	10 U
1,2-Dichloroethane	0.6	0.6	10 U	10 U	10 U
1,1-Dichloroethene	5	5	10 J	10 U	10 J
cis-1,2-Dichloroethene	5	5	10 U	10 U	10 U
trans-1,2-Dichloroethene	5	5	10 U	10 U	10 U
1,2-Dichloropropane	1	1	10 U	10 U	10 U
cis-1,3-Dichloropropene	5	0.4[b]	10 U	10 U	10 U
trans-1,3-Dichloropropene	5	0.4[b]	10 U	10 U	10 U
2-Hexanone	NE	50	25 U	25 U	25 U
Isopropylbenzene	5	5	10 U	10 U	14
Methyl acetate	NE	NE	10 U	10 U	10 U
Methyl cyclohexane	NE	NE	10 U	10 U	10 U
Methyl tert-butyl ether	NE	NE	10 U	10 U	10 U
4-Methyl-2-pentanone	NE	NE	25 U	25 U	25 U

TABLE 3
ANALYTICAL RESULTS, GROUNDWATER
JULY 2005
Rensselaer, New York

Chemical Name	NYS Part 703 Standards ug/L	T.O.G.S. 1.1.1.[1] ug/L	MW-101 7/6/2005 ug/L	MW-101 DUP 7/6/2005 ug/L	MW-103 7/6/2005 ug/L
Methylene chloride	NE	5	10 U	10 U	10 U
Styrene	5	5	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane	5	5	10 U	10 U	10 U
Tetrachloroethene	5	5	10 U	10 U	10 U
1,1,2-Trichloro-1,2,2-trifluoroethane	5	5	10 U	10 U	10 U
1,2,4-Trichlorobenzene	5	5	10 U	10 U	10 U
1,1,1-Trichloroethane	5	5	10 U	10 U	10 U
1,1,2-Trichloroethane	1	1	10 U	10 U	10 U
Trichloroethene	5	5	10 U	10 U	5 U
Trichlorofluoromethane	5	5	10 U	5 U	10 U
Vinyl chloride	2	2	10 U	10 U	10 U
Semivolatile Organic Compounds					
Noncarcinogenic PAHs					
Acenaphthene	NE	20	1.3 J	10 U	**210 D**
Acenaphthylene	NE	NE	10 U	10 U	23
Anthracene	NE	50	10 U	10 U	38
Benzo(g,h,i)perylene	NE	NE	10 U	10 U	2.2 J
Fluoranthene	NE	50	10 U	10 U	30
Fluorene	NE	50	10 U	10 U	**71**
Naphthalene	NE	10	10 U	10 U	10 U
Phenanthrene	NE	50	10 U	10 U	**160 D**
Pyrene	NE	50	10 U	10 U	41
Total Noncarcinogenic PAHs			1.3	ND	575
Carcinogenic PAHs					
Benzo(a)anthracene	NE	0.002	10 U	10 U	**12**
Benzo(a)pyrene	NE	ND[c]	10 U	10 U	**8.1 J**
Benzo(b)fluoranthene	NE	0.002	10 U	10 U	**7.1 J**
Benzo(k)fluoranthene	NE	0.002	10 U	10 U	**2.8 J**
Chrysene	NE	0.002	10 U	10 U	**12**
Dibenzo(a,h)anthracene	NE	NE	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	NE	0.002	10 U	10 U	**1.8 J**
Total Carcinogenic PAHs			ND	ND	44
Total PAHs			1.3	ND	619
Other SVOCs					
Acetophenone	NE	NE	10 U	10 U	10 U
Atrazine	7.5	7.5	10 U	10 U	10 U
Benzaldehyde	NE	NE	10 U	10 U	10 U
1,1'-Biphenyl	5	5	10 U	10 U	40
Bis(-2-chloroethoxy)methane	5	5	10 U	10 U	10 U
Bis(-2-chloroethyl)ether	1	1	10 U	10 U	10 U
Bis(2-ethylhexyl)phthalate	5	5	10 U	10 U	10 U
4-Bromophenyl-phenylether	NE	NE	10 U	10 U	10 U

TABLE 3
ANALYTICAL RESULTS, GROUNDWATER
JULY 2005
Rensselaer, New York

Chemical Name	NYS Part 703 Standards	T.O.G.S. 1.1.1.[1]	MW-101 7/6/2005	MW-101 DUP 7/6/2005	MW-103 7/6/2005
	ug/L	ug/L	ug/L	ug/L	ug/L
Butyl benzyl phthalate	NE	50	10 U	10 U	10 U
Caprolactam	NE	NE	10 U	10 U	10 U
Carbazole	NE	NE	10 U	10 U	9.4 J
4-Chloro-3-methylphenol	NE	1[d]	10 U	10 U	10 U
4-Chloroaniline	5	5	10 U	10 U	10 U
2-Chloronaphthalene	NE	10	10 U	10 U	10 U
2-Chlorophenol	NE	1[d]	10 U	10 U	10 U
4-Chlorophenyl-phenylether	NE	NE	10 U	10 U	10 U
3+4-Methylphenol	NE	1[d]	10 U	10 U	10 U
Dibenzofuran	NE	NE	10 U	10 U	15
3,3'-Dichlorobenzidine	5	5	21 U	21 U	21 U
2,4-Dichlorophenol	NE	1[d]	10 U	10 U	10 U
Diethylphthalate	NE	50	10 U	10 U	10 U
Dimethyl phthalate	NE	50	10 U	10 U	10 U
2,4-Dimethylphenol	NE	1[d]	10 U	10 U	10 U
Di-n-butylphthalate	NE	50	10 U	10 U	10 U
4,6-Dinitro-2-methylphenol	NE	1[d]	21 U	21 U	21 U
2,4-Dinitrophenol	NE	1[d]	**21 J**	**21 J**	**21 J**
2,4-Dinitrotoluene	5	5	10 U	10 U	10 U
2,6-Dinitrotoluene	5	5	10 U	10 U	10 U
Di-n-octyl phthalate	NE	50	10 U	10 U	10 U
Hexachlorobenzene	0.04	0.04	10 U	10 U	10 U
Hexachlorobutadiene	0.5	0.5	10 U	10 U	10 U
Hexachlorocyclopentadiene	5	5	10 J	10 J	10 U
Hexachloroethane	5	5	10 U	10 U	10 U
Isophorone	NE	50	10 U	10 U	10 U
2-Methylnaphthalene	NE	NE	10 U	10 U	270 D
2-Methylphenol	NE	1[d]	10 U	10 U	10 U
2-Nitroaniline	5	5	10 U	10 U	10 U
3-Nitroaniline	5	5	10 U	10 U	10 U
4-Nitroaniline	5	5	10 U	10 U	10 U
Nitrobenzene	0.4	0.4	10 U	10 U	10 U
2-Nitrophenol	NE	1[d]	10 U	10 U	10 U
4-Nitrophenol	NE	1[d]	21 U	21 U	21 U
N-Nitroso-di-n-propylamine	NE	NE	10 U	10 U	55
N-Nitrosodiphenylamine	NE	50	10 U	10 U	10 J
2,2'-Oxybis(1-Chloropropane)	NE	NE	10 U	10 U	10 U
Pentachlorophenol	NE	1[d]	21 U	21 U	21 U
Phenol	NE	1[d]	10 U	10 U	10 U
2,4,5-Trichlorophenol	NE	1[d]	10 U	10 U	10 U
2,4,6-Trichlorophenol	NE	1[d]	10 U	10 U	10 U

TABLE 3
ANALYTICAL RESULTS, GROUNDWATER
JULY 2005
Rensselaer, New York

Chemical Name	NYS Part 703 Standards	T.O.G.S. 1.1.1.[1]	MW-101 7/6/2005	MW-101 DUP 7/6/2005	MW-103 7/6/2005
	ug/L	ug/L	ug/L	ug/L	ug/L
Pesticides					
Aldrin	NE	0.002	0.053 U	0.052 U	0.052 U
alpha-BHC	NE	0.01	0.053 U	0.052 U	0.052 U
beta-BHC	NE	0.04	0.053 U	0.052 U	0.052 U
delta-BHC	NE	0.04	0.053 U	0.052 U	0.052 U
gamma-BHC (Lindane)	NE	0.05	0.053 U	0.052 U	**0.052 J**
alpha-Chlordane	0.05	1[e]	0.053 U	0.052 U	0.052 U
gamma-Chlordane	0.05	1[e]	0.053 U	0.052 U	0.052 U
4,4'-DDD	0.3	0.3	0.11 U	0.1 U	0.1 U
4,4'-DDE	0.2	0.2	0.11 U	0.1 U	0.1 U
4,4'-DDT	0.2	0.2	0.11 U	0.1 U	0.1 U
Dieldrin	0.004	0.004	0.11 U	0.1 U	0.1 U
Endosulfan I	NE	NE	0.053 U	0.052 U	0.052 U
Endosulfan II	NE	NE	0.11 U	0.1 U	0.1 U
Endosulfan sulfate	NE	NE	0.11 U	0.1 U	0.1 U
Endrin	NE	NE	0.11 U	0.1 U	0.1 U
Endrin aldehyde	5	5	0.11 U	0.1 U	0.1 U
Endrin ketone	5	5	0.11 U	0.1 U	0.1 U
Heptachlor	0.04	0.04	0.053 U	0.052 U	0.052 U
Heptachlor epoxide	0.03	0.03	0.053 U	0.052 U	0.052 U
Methoxychlor	35	35	0.53 U	0.52 U	0.52 U
Toxaphene	0.06	0.06	5.3 U	5.2 U	5.2 U
PCBs					
Aroclor-1016	NE	1[f]	1.1 U	1 U	1 U
Aroclor-1221	NE	1[f]	2.1 U	2.1 U	2.1 U
Aroclor-1232	NE	1[f]	1.1 U	1 U	1 U
Aroclor-1242	NE	1[f]	1.1 U	1 U	1 U
Aroclor-1248	NE	1[f]	1.1 U	1 U	1 U
Aroclor-1254	NE	1[f]	1.1 U	1 U	1 U
Aroclor-1260	NE	1[f]	1.1 U	1 U	1 U
Inorganic Constituents					
Aluminum	NE	NE	154 J	110 J	43200
Antimony	3	3	60 U	60 U	60 U
Arsenic	25	25	4 J	11 J	22
Barium	1000	1000	314	354	708
Beryllium	NE	NE	5 U	5 U	2 J
Cadmium	5	5	5 U	5 U	5 U
Calcium	NE	NE	266000	271000	270000
Chromium	50	50	10 U	10 U	63
Cobalt	5	5	6 J	7 J	53
Copper	200	200	25 U	25 U	180

TABLE 3
ANALYTICAL RESULTS, GROUNDWATER
JULY 2005
Rensselaer, New York

Chemical Name	NYS Part 703 Standards	T.O.G.S. 1.1.1.[(1)]	MW-101 7/6/2005	MW-101 DUP 7/6/2005	MW-103 7/6/2005
	ug/L	ug/L	ug/L	ug/L	ug/L
Iron	300	300	4780	5830	103000
Lead	25	25	10 U	4 J	92
Magnesium	NE	35000	**53400**	**53500**	**57400**
Manganese	300	300	5550	5500	14700
Mercury	0.7	0.7	0.2 U	0.2 U	0.2 U
Nickel	100	100	9 J	7 J	102
Potassium	NE	NE	39100 J	36800 J	12800 J
Selenium	10	10	7 J	5 J	35 U
Silver	50	50	10 U	10 U	10 U
Sodium	20000	20000	106000 J	102000 J	251000 J
Thallium	NE	0.5	**25 J**	**25 J**	**25 J**
Vanadium	14	14	50 U	50 U	65
Zinc	NE	2000	38 J	35 J	429
Cyanide, Total	200	200	195	158	274

Qualifier Notes:
U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.
D - Indicates secondary dilution factor.

Boxed values are above the NY Part 703 standards. Bolded values are above the TOGS 1.1.1 guidance values. Guidance values are only used when there is no Part 703 standard.

Standards Notes:
1 - Column includes TOGS 1.1.1 guidance values and Part 703 Standards. Guidance values are used when no standard exists.
(a) - The concentration of 5 ppb is based on the sum total of all Xylenes.
(b) - The concentration of 0.4 ppb is based on the sum total of 1,3-Dichloropropene.
(c) - Any detected concentration for Benzo(a)pyrene is above considered above the guidance.
(d) - The concentration of 1 ppb is based on the sum total of all Phenols.
(e) - The concentration of 1 ppb is based on the sum total of all Chlordanes.
(f) - the concentration of 1 ppb is based on the sum total of all polychlorinated biphenyls (Aroclors).

FIGURES

FIGURE 2-1

VOLATILE ORGANIC CHEMICALS IN SOIL EXCEEDANCES OF TAGM 4046

RENSSELAER NON-OWNED FORMER MGP SITE
RENSSELAER, NEW YORK

DATE	PROJECT NUMBER
02/06	128531.004

BROWN AND CALDWELL
ALLENDALE, NEW JERSEY

P:/GIS/National_Grid/Rensselaer/Rensselaer_Soil_VOCs.mxd

FIGURE 2-2

SEMIVOLATILE ORGANIC CHEMICALS IN SOIL EXCEEDANCES OF TAGM 4046

RENSSELAER NON-OWNED FORMER MGP SITE
RENSSELAER, NEW YORK

DATE	PROJECT NUMBER
02/06	128531.004

BROWN AND CALDWELL
ALLENDALE, NEW JERSEY

P:/GIS/National_Grid/Rensselaer/Rensselaer_Soil_SVOCs.mxd

FIGURE 2-3

METALS, PESTICIDES, AND PCBs IN SOIL
EXCEEDANCES OF TAGM 4046

RENSSELAER NON-OWNED
FORMER MGP SITE
RENSSELAER, NEW YORK

DATE	PROJECT NUMBER
02/06	128531.004

BROWN AND CALDWELL
ALLENDALE, NEW JERSEY

P:/GIS/National_Grid/Rensselaer/Rensselaer_Soil_Metals.mxd

FIGURE 2-4

VOLATILE ORGANIC CHEMICALS IN GROUNDWATER EXCEEDANCES OF TOGS

RENSSELAER NON-OWNED FORMER MGP SITE
RENSSELAER, NEW YORK

DATE 02/06

PROJECT NUMBER 128531.004

BROWN AND CALDWELL
ALLENDALE, NEW JERSEY

P:/GIS/National_Grid/Rensselaer/Rensselaer_GW_VOCs.mxd

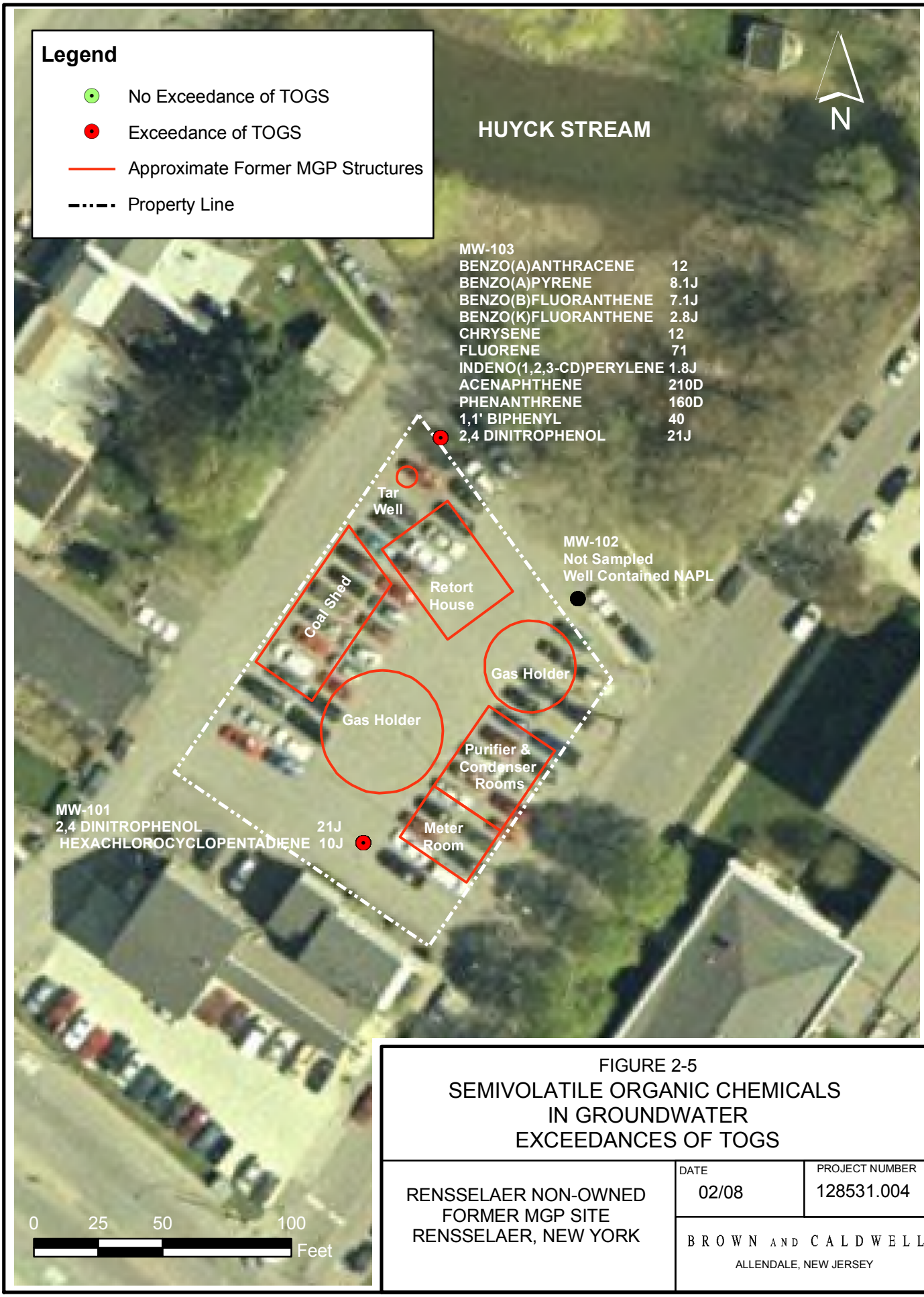

FIGURE 2-5

SEMIVOLATILE ORGANIC CHEMICALS
IN GROUNDWATER
EXCEEDANCES OF TOGS

RENSSELAER NON-OWNED
FORMER MGP SITE
RENSSELAER, NEW YORK

DATE
02/08

PROJECT NUMBER
128531.004

BROWN AND CALDWELL
ALLENDALE, NEW JERSEY

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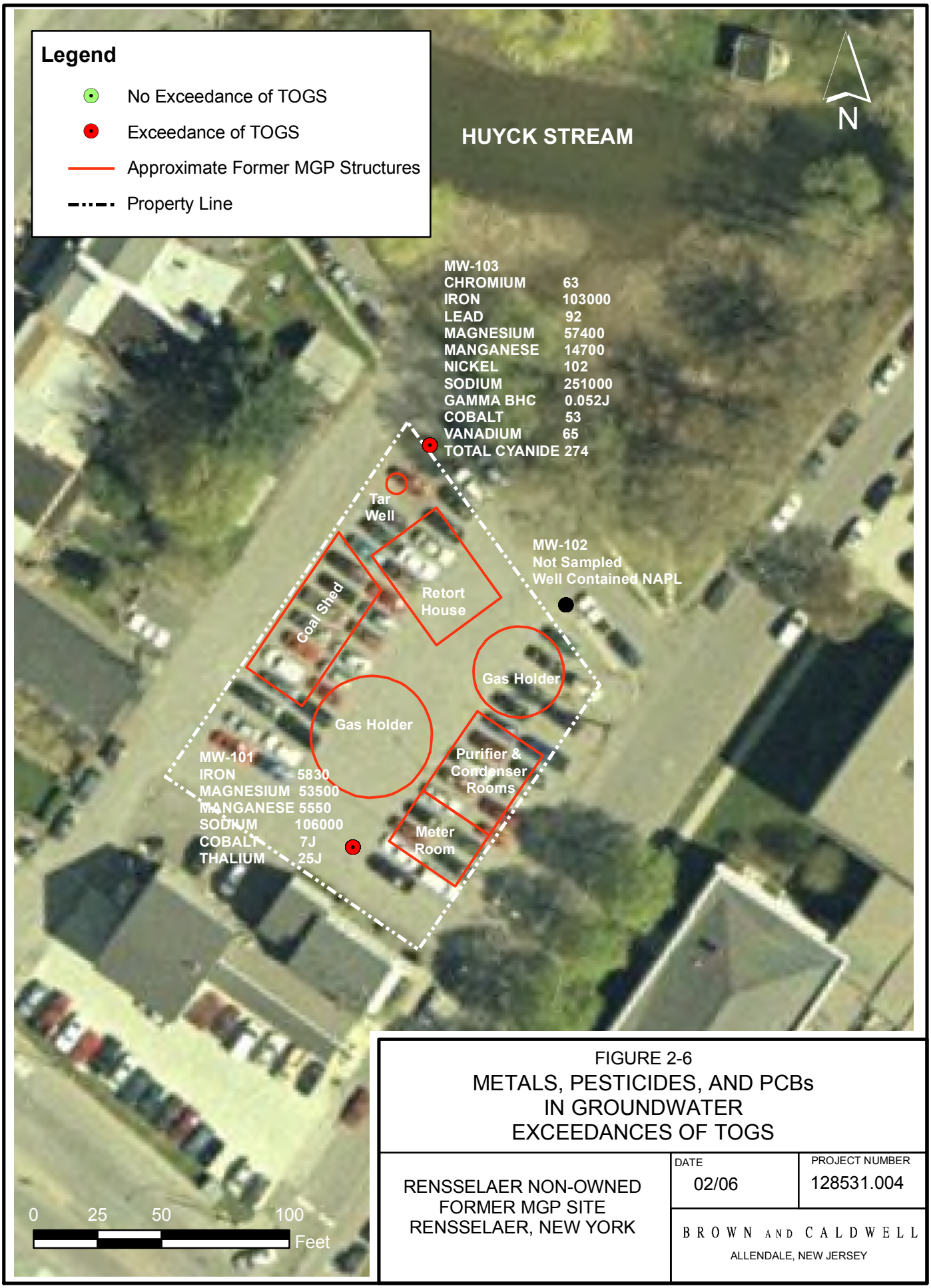

FIGURE 2-6

METALS, PESTICIDES, AND PCBs IN GROUNDWATER EXCEEDANCES OF TOGS

RENSSELAER NON-OWNED FORMER MGP SITE
RENSSELAER, NEW YORK

DATE
02/06

PROJECT NUMBER
128531.004

BROWN AND CALDWELL
ALLENDALE, NEW JERSEY

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WATER TABLE CONTOURS
JULY 6, 2005

RENSSELAER NON-OWNED
FORMER MGP SITE
RENSSELAER, NEW YORK

DATE	PROJECT NUMBER
02/06	128531.004

BROWN AND CALDWELL
ALLENDALE, NEW JERSEY

P:/GIS/National_Grid/Rensselaer/Rensselaer_GW.mxd

ATTACHMENT 1

TEST PIT LOGS

BROWN AND CALDWELL

PROJECT No.: 128531.002

TEST PIT LOG

PROJECT: Renesselaer former MGP SC/IRM **SHEET** 1 **OF** 1

CLIENT: National Grid

CONTRACTOR: ADT **EQUIPMENT:** John Deere 410 G

OPERATOR: Marty Harrington **INSPECTOR:** Matthew Cavas

LOG OF TEST PIT No.: TP-101

Date: 6-11-05 **Elevation:**

WELL CONSTRUCTION	DEPTH FT.	SAMPLE No. DEPTH	CLASSIFICATION	REMARKS
	0.0'-0.3'		Asphalt	
	0.3'-4.1'	TP-101-FILL	Brwn fmc SAND, some (-) Silt, little (+) fmc Gravel. Brick fragments and cinders. Fill.	Water w/in holder 3.4' b.g.s.
	4.1'-7.8'		Black CLAY, trace (+) Gravel and cmf Sand.	Petroleum odor.
	7.8'		Gray CLAY, some (-) cmf Sand and f Gravel.	No distinct MGP odors.
			END OF TEST PIT	

LOG OF TEST PIT No.: TP-102

Date: 6-11-05 **Elevation:**

WELL CONSTRUCTION	DEPTH FT.	SAMPLE No. DEPTH	CLASSIFICATION	REMARKS
	0.0'-0.3'		Asphalt	
	0.3'-2.4'		Brown fmc SAND, some (-) Silt, little (-) cmf Gravel. Brick fragments. Fill.	Slight odor.
	2.4'-4.2'	TP-102-FILL	At NW corner within holder Black Clayey SILT, some (-) fmc Sand, little (-) fm Gravel.	Strong MGP odor and sheen.
	4.2'-7.0'		Black to brown CLAY, little (-) fm Sand.	
	7.0'-7.1'		Gray CLAY, some (+) cmf Sand, little (+) fm Gravel.	NAPL blebs.

BROWN AND CALDWELL

PROJECT No.: 128531.002

TEST PIT LOG

PROJECT: Renesselaer former MGP SC/IRM **SHEET** 1 **OF** 1

CLIENT: National Grid

CONTRACTOR: ADT **EQUIPMENT:** John Deere 410 G

OPERATOR: Marty Harrington **INSPECTOR:** Matthew Cavas

LOG OF TEST PIT No.: TP-103-SE side

Date: 6-12-05 **Elevation:**

WELL CONSTRUCTION	DEPTH FT.	SAMPLE No. DEPTH	CLASSIFICATION	REMARKS
	0.0'-0.3'		Asphalt	
	0.3'-1.9'		Black fmc SAND, some (-) Silt & Clay. @ 1.1' have red Clayey SILT layer. Brick fragments, cinders	
	1.9'-4.9'		Brown Clayey SILT, some (-) fmc Sand, little (-) fm Gravel. Cinders, brick fragments. Fill	
	4.9'-10.4'		Brown Silty CLAY, little (+) fmc Gravel.	
	10.4'		Gray SILT & CLAY, some (+) fm Gravel, little (-) fmc Sand.	Did not find evidence of tar box.
			END OF LOG	

LOG OF TEST PIT No.: TP-103-NW side

Date: 6-12-05 **Elevation:**

WELL CONSTRUCTION	DEPTH FT.	SAMPLE No. DEPTH	CLASSIFICATION	REMARKS
	0.0'-0.3'		Asphalt	
	0.3'-2.8'		Black fmc SAND, some (-) Silt & Clay. @ 1.6' red Clayey SILT layer approx.2' thick. Cinders. Fill.	
	2.8'-4.9'		White Clayey SILT, little (+) to trace (+) fm Sand. Occasional layers (.1' to .3' thick) of Black fill from above interbedded. Purifier waste.	Slight sulfur odor.
	4.9'-10.4'		Brown Silty CLAY, little (+) fmc Sand.	
	10.4'		Gray SILT & CLAY, some (+) fm Gravel, little (-) fmc Sand.	NAPL blebs.

BROWN AND CALDWELL

PROJECT No.: 128531.002

TEST PIT LOG

PROJECT: Renesselaer former MGP SC/IRM **SHEET** 1 **OF** 1

CLIENT: National Grid

CONTRACTOR: ADT **EQUIPMENT:** John Deere 410 G

OPERATOR: Marty Harrington **INSPECTOR:** Matthew Cavas

LOG OF TEST PIT No.: TP-104

Date: 6-11-05 **Elevation:**

WELL CONSTRUCTION	DEPTH FT.	SAMPLE No. DEPTH	CLASSIFICATION	REMARKS
	0.0'-0.3'		Asphalt	
	0.3'-3.3'		Brown fmc SAND, some (+) Clayey Silt, little (-) fmc Gravel.	
	3.3'-7.0'	TP-104-NATIVE	Brown Silty CLAY, some (-) to little (+) fmc Sand, trace (+) fm Gravel.	
	7.0'-9.3'		Gray Silty CLAY, some (-) to little (-) fmc Sand, trace (+) fm Gravel.	NAPL blebs. NAPL seep 8.4' b.g.s.
			END OF LOG	

ATTACHMENT 2

MONITORING WELL AND BORING LOGS

MONITORING WELL LOG

BROWN AND CALDWELL	Project Name: Rensselaer SC/IRM Project Number: 128531.002 Project Location: 89 Washington St., Rensselaer, NY	Permit Number: NA	Well No. **MW-101** Page 1 of 1

Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
N. Krupinski/Allendale	FJW	6"	2" Slotted PVC	0.02"	14.0 ft.

Start/Finish Date	Drilling Contractor:	Sampling: Split Spoon	Development Method:
6/19/05 - 6/19/05	ADT	Hammer Type: Automatic	Surge & pump

Driller:	Drilling Method:	Drilling Equipment:	Horiz Datum/Proj: State Plane NAD 83	Easting: 695276.6 ft.
Ritchie Castro	4.25" Hollow-stem auger	CME-55	Vert Datum: NGVD 29	Northing: 1387532.5 ft.
			Ground Surface Elev: 17.2 ft.	TOC Elev: --

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int	Graphic Log: Recovery	Graphic Log: Lithology	Graphic Log: Well (Traffic Rated Vault Box)	OVM Readings (ppm)	Remarks
		SP GP	**FILL** Brown mcf SAND, some fm Gravel, trace Silt. @ 1.0' Black/red Cinders/Slag/Brick	/-5-6-6	1					0.0	0'-1' Concrete pad 1'-3' Bentonite seal
		SP GP	(cmf SAND and fm GRAVEL). Dry, loose. As above. @ 3.4' Brown-tan mfc SAND,	10-7-11-7	2					0.0	
		GP	little f Gravel (sub-rounded/sub-angular), trace (+) Silt & Clay. Damp, slightly dense.	5-2-3-3	3					0.0	4'-6' Soil sample sent for laboratory analysis.
5		SP CL	Brown-black fm Gravel, some cmf Sand, trace (+) Silt.								
		GC CL GC	**NATIVE SOILS** @ 4.8' Brown Silty CLAY, some (-) mf Gravel (sub-rounded). Loose, wet.	4-5-6-5	4					0.0	
		SM SC	Brown-tan Silt CLAY, some mf Gravel (sub-rounded), little (+) cmf Sand. Loose, wet.	1-3-5-18	5					0.0	
											3'-14' Filter Sand (#2)
10		SP GP	As above. @ 9.1' Gray-green. @ 9.5' grades to Gray-green mfc SAND, some Clay & Silt, some fm Gravel (angular, fractured pieces). Possible faint odor. Moist.	25-47-32-45	6					0.0	10'-12' Soil sample sent for laboratory analysis.
		SP GP	As above. @ 10.5' grades to dense Tan-gray mfc SAND, some mf Gravel, little (+) Silt & Clay. @ 11.2'-11.6' lense of dark Gray cmf SAND, trace Silt. Moist, dense.	34-100/0.4'	7					0.0	
			As above. Very dense. Piece of quartzite @ 12.3'. @ 12.6' Brown till.								14' End of Boring.

MONITORING WELL LOG

BROWN AND CALDWELL	**Project Name:** Rensselaer SC/IRM **Project Number:** 128531.002 **Project Location:** 89 Washington St., Rensselaer, NY	**Permit Number:** NA	**Well No.** **MW-102** **Page** 1 **of** 1

Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
N. Krupinski/Allendale	FJW	6"	2" Slotted PVC	0.02"	22.0 ft.

Start/Finish Date	Drilling Contractor:	Sampling: Split Spoon	Development Method:
6/18/05 - 6/18/05	ADT	Hammer Type: Automatic	Surge & pump

Driller:	Drilling Method:	Drilling Equipment:	Horiz Datum/Proj: State Plane NAD 83	Easting: 695359.9 ft.
Ritchie Castro	4.25" Hollow-stem auger	CME-55	Vert Datum: NGVD 29	Northing: 1387627.5 ft.
			Ground Surface Elev: 16.3 ft.	TOC Elev: --

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int / Recovery / Lithology / Well (Traffic Rated Vault Box)	OVM Readings (ppm)	Remarks
		SM	**FILL** Brown mfc SAND, little (-) Silt. Dry, loose.	/-2-2-2	1		3.2	0'-2' Concrete pad
		SM	As above. @ 3.8' Gray-black stained CLAY & SILT. Mottled, slight coal tar odor, loose, piece of Gravel (angular).	3-3-3-3	2		0.0	2'-4' Bentonite seal
5			No recovery - piece of asphalt in shoe. Spoon wet @ ~ 5.0'.	3-2-1-1	3		-	
		ML GM	**NATIVE SOILS** Gray SILT & CLAY. Wet/saturated.	2-1/12"-2	4		0.2	
		ML GM	Gray-green SILT & CLAY, some fm Gravel (angular, some Shale). Wet, loose. Blebs of light-colored NAPL, petroleum odor, few	2-2-3-3	5		12.1	8'-10' Soil sample sent for laboratory analysis.
10		ML GM	blebs of coal tar around Gravel. Intermittent sheen.	1-3-5-15	6		294	
		ML GM	Gray-green SILT & CLAY, some fm Gravel (sub-rounded/rounded). Blebs of brown-red coal tar, strong coal tar odor.	12-11-13-19	7		123	4'-20' Filter Sand (#2)
		SP GP	As above, slightly less coal tar. Coal tar around Gravel. @ 13.5' Brown-gray Clayey SILT, some fm Sand, some fm Gravel.	5-7-5-5	8		167	
15		SP GP	Denser. Gray-brown cmf SAND, some fm Gravel, little (+) Silt & Clay. Wet. Occasional coal tar on Gravel, moderate sheen, strong coal	4-4-6-7	9		468	
		SP GP	tar odor. Loose. As above. Loose, occasional coal tar throughout, sheen, strong coal tar odor.	3-1-6-9	10		573	
20		SP GP	As above, loose. Frequent brown-red coal tar throughout, strong sheen, very strong coal tar odor. Brown mcf SAND, little fm Gravel, little (-) Silt. @ 20.7' Gray fm SAND, little fm Gravel, trace Silt. Dense throughout, strong coal tar odor throughout. String of coal tar @ 21.4.	24-28-32-50	11		73.8	20'-22' Soil sample sent for laboratory analysis. 22' End of Boring.

MONITORING WELL LOG

BROWN AND CALDWELL	**Project Name:** Rensselaer SC/IRM **Project Number:** 128531.002 **Project Location:** 89 Washington St., Rensselaer, NY	**Permit Number:** NA	**Well No.** MW-103 **Page** 1 **of** 1

Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
N. Krupinski/Allendale	FJW	6"	2" Slotted PVC	0.02"	21.5 ft.

Start/Finish Date	Drilling Contractor:	Sampling: Split Spoon	Development Method:
6/19/05 - 6/19/05	ADT	Hammer Type: Automatic	Surge & pump

Driller:	Drilling Method:	Drilling Equipment:		
Ritchie Castro	4.25" Hollow-stem auger	CME-55	**Horiz Datum/Proj:** State Plane NAD 83 **Vert Datum:** NGVD 29 **Ground Surface Elev:** 17.6 ft.	**Easting:** 695306.2 ft. **Northing:** 1387689.7 ft. **TOC Elev:** --

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int	Graphic Log: Recovery	Graphic Log: Lithology	Graphic Log: Well (Traffic Rated Vault Box)	OVM Readings (ppm)	Remarks
		SM SC	**FILL** Dark Brown mcf SAND, some Silt & Clay, little f Gravel. @ 1.3' dark Brown SILT &	/-1-3-2	1					0.0	0'-1' Concrete pad 1'-4' Bentonite seal
		SM SC	CLAY, trace f Sand. @ 1.6' Cinders/Coal/Slag (Black cmf SAND, some (-) f Gravel, trace Silt). Dry, loose.	1-2-1-2	2					0.0	
		FILL	As above. @ 2.5' Brown-black Silty CLAY	1-1-1-1	3					0.0	
5		CL	and mcf SAND, some (-) fm Gravel. @ 3.2' grades to Brown. Black/white Cinders/Ash/Coal.	WOH/2'	4					0.0	
			NATIVE SOILS @ 5.0' dark Brown Silty CLAY, loose, wet. @ 5.3' grades to Brown. Saturated.								
		CL	No recovery. Saturated. As above @ 5.3'. Loose, saturated.	2-1-2-1	5					0.0	
10		SC SM	Light brown Silty CLAY, some (+) fmc Sand, little (+) fm Gravel (sub-rounded). Slightly denser. @ 11.3' Green-gray.	1-3-4-4	6					0.0	4'-20' Filter Sand (#2)
		SC SM	Green-gray Silty CLAY, some fmc Sand, little (+) fm Gravel (sub-rounded). Coal tar coats rocks, in veins throughout soil. Strong coal tar odor, sheen.	3-3-4-6	7					0.0	12'-14' Soil sample sent for laboratory analysis.
15		SC SM	As above. Saturated w/ water & coal tar, strong odor, sheen.	1-2-2-4	8					11.2	
		SC SM	As above.	9-15-9-7	9					2.2	
		SC SM	As above. @ 19.0' Brown-tan Silty CLAY and mfc SAND, some fm Gravel (sub-rounded). Dense. Pieces of broken	16-19-37-26	10					26.3	18'-20' Soil sample sent for laboratory analysis.
20		SC SM	Gray Shale intermittent, Brown Till @ 21.3. Occasional coal tar near Gravel, coal tar odor, sheen. As above, no broken Shale. No visible contamination in till, tar on outside likely from above (does not penetrate till). Piece of Gray Shale in shoe.	15-35-100/0.4'	11					0.0	21.5' End of Boring.

BORING LOG

BROWN AND CALDWELL	**Project Name:** Rensselaer SC/IRM **Project Number:** 128531.002 **Project Location:** 89 Washington St., Rensselaer, NY	**Permit Number:** NA	**Boring No.** B-104 **Page** 1 **of** 1

Geologist/Office	**Checked By:**	**Borehole Diameter:**	**Screen Diameter and Type:**	**Slot Size:**	**Total Boring Depth (ft)**
N. Krupinski/Allendale	FJW	6"			10.0 ft.

Start/Finish Date	**Drilling Contractor:**	**Sampling:** Split Spoon	**Development Method:**
6/18/05 - 6/18/05	ADT	**Hammer Type:** Automatic	NA

Driller:	**Drilling Method:**	**Drilling Equipment:**	**Horiz Datum/Proj:** State Plane NAD 83	**Easting:** 695344.7 ft.
Ritchie Castro	4.25" Hollow-stem auger	CME-55	**Vert Datum:** NGVD 29	**Northing:** 1387603.4 ft.
			Ground Surface Elev: 16.6 ft.	**TOC Elev:** --

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int	Graphic Log: Recovery	Graphic Log: Lithology	Graphic Log: Backfill	OVM Readings (ppm)	Remarks
		SP GP	**FILL** Asphalt. @ 0.5' light Brown fm SAND, little f Gravel, little Silt. @ 1.2' becomes	/-4-5-5	1					0.2	Grouted to surface
		SP GP	Black/white/brown Coke/Slag (cmf SAND, little f Gravel). Dry.	3-3-4-6	2					0.2	
		SP GP	Black/white Coke/Slag (cmf Sand, little fm Gravel), wet/saturated. Piece of red brick @ 4'.	3-3-2-1	3					0.0	Note: Boring is within area of gas holder as depicted in 1909 Sanborn Fire Insurance Map
5			As above, little brick. Coal tar odor.								
		SP GP	Black/white Coke/Slag/Brick (red) (cmf SAND and fm GRAVEl, trace (-) Silt. Saturated, strong coal tar odor.	1/12"-1/12"	4					4.4	
		SP GP	As above. Saturated w/ water and coal tar, strong coal tar odor, sheen.	2-2-3-12	5					64.3	
10		SP GP	As above saturated w/ water and coal tar, strong coal tar odor, sheen.	50/0.0'	6					127.3	10.0' End of boring.

BORING LOG

BROWN AND CALDWELL	Project Name: Rensselaer SC/IRM Project Number: 128531.002 Project Location: 89 Washington St., Rensselaer, NY	Permit Number: NA	Boring No. B-105 Page 1 of 1

Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
N. Krupinski/Allendale	FJW	6"			12.7 ft.

Start/Finish Date	Drilling Contractor:	Sampling: Split Spoon	Development Method:
6/18/05 - 6/18/05	ADT	Hammer Type: Automatic	NA

Driller:	Drilling Method:	Drilling Equipment:	Horiz Datum/Proj: State Plane NAD 83	Easting: 695294.8 ft.
Ritchie Castro	4.25" Hollow-stem auger	CME-55	Vert Datum: NGVD 29	Northing: 1387561.7 ft.
			Ground Surface Elev: 17.2 ft.	TOC Elev: --

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int	Graphic Log: Recovery	Graphic Log: Lithology	Graphic Log: Backfill	OVM Readings (ppm)	Remarks
		SM	**FILL** Asphalt. @ 0.5' Brown fmc SAND, little (-) Silt. Dry, loose, @ 1.5' becomes damp Black	/-5-6-5	1					0.0	Grouted to surface
		SM	fm SAND, some Clayey Silt.	4-4-2-2	2					0.0	
			Black cmf SAND, trace Silt & Clay, trace fm Gravel (cinders, slag). Dry, loose. @ 3.8' damp.	1-1-1-2	3					2.8	Note: Boring is within area of gas holder as depicted in 1909 Sanborn Fire Insurance?? Map
5		CL ML	**NATIVE SOILS** @ 4.3' dark Gray mottled Silty CLAY, occ. White mottling @ 4.3'-4.5'. Strong coal tar								
		SM SC	odor, loose. Moist. Brown-black cmf SAND, some Silt & Clay, some f Gravel. @ 6.4' Gray-green f SAND,	WOH-2-4-3	4					0.0	
		SM SC	some f Gravel, trace Silt. Slightly dense. Rock in tip of shoe.	2-6-9-15	5					0.0	
10		SM SC	Gray-green-blue fm SAND, some Clayey Silt, some fm Gravel (sub-rounded). Mottled, slighly dense to dense @ 10'. @ 9.6' Tan, dense. Moist. Piece of pink sandstone @ 10'.	24-31-35-52	6					2.8	10'-12' Soil sample sent for laboratory analysis.
		SM SC	As above, dense. Gray-tan fm SAND, some Clayey Silt, some fm Gravel (sub-angular). Dense, damp. Bits of broken gray shale @ 12.6'.	49-50/0.2'	7					4.1	12.7' End of boring.

BORING LOG

BROWN AND CALDWELL	Project Name: Rensselaer SC/IRM Project Number: 128531.002 Project Location: 89 Washington St., Rensselaer, NY	Permit Number: NA	Boring No. B-106 Page 1 of 1

Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
N. Krupinski/Allendale	FJW	6"			21.7 ft.

Start/Finish Date	Drilling Contractor:	Sampling: Split Spoon	Development Method:
6/25/05 - 6/25/05	ADT	Hammer Type: Automatic	NA

Driller:	Drilling Method:	Drilling Equipment:	Horiz Datum/Proj: State Plane NAD 83	Easting: 695248.8 ft.
Ritchie Castro	4.25" Hollow-stem auger	CME-55	Vert Datum: NGVD 29	Northing: 1387593.2 ft.
			Ground Surface Elev: 18.2 ft.	TOC Elev: --

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int	Graphic Log: Recovery	Graphic Log: Lithology	Graphic Log: Backfill	OVM Readings (ppm)	Remarks
		SM SC	**FILL** Brown fmc SAND, some Clayey Silt, little fm Gravel. Dry, loose.	/-6-12-10	1					6.4	Grouted to surface
		SM SC	As above. @ 3.9' Black-brown mcf SAND, some Silt & Clay, little f Gravel. Damp.	4-4-3-3	2					32.0	
		SM SC	As above. @ 4.3' lens of Black/white cinders/ash/coke/slag. Moist. @ 4.4' lens of Brown CLAY & SILT, some mfc Sand, little (+) fm Gravel. Moist.	2-2-1-1	3					32.7	
5		SC SM	**NATIVE SOILS** @ 6.2' Gray-black stained CLAY & SILT, some mcf Sand, trace f Gravel. Tar odor, very faint sheen. Moist, loose.	2-2-2-4	4					38.6	
		SC SM	Gray-green CLAY & SILT and mcf SAND, trace (+) f Gravel. Tar odor, pockets of sheen. Loose, wet.	2-2-4-7	5					19.7	8'-10' Soil sample sent for laboratory analysis.
10		SC SM	As above. @ 10.2' light Brown SILT & CLAY and mcf SAND, some (-) mf Gravel. Dense. Pockets of little Brown coal tar to 10.3', tar odor, sheen. Wet.	100/0.4'	6					36.8	
		SC SM	As above, no coal tar, no sheen. Faint coal tar odor. Dense, wet.	33-90-100/0.3'	7					15.3	
		SC SM	As above. @ 14.2' Gray mfc SAND, some Silt & Clay, some fm Gravel (sub-rounded). Very faint tar odor. Dense, moist.	35-50/0.1'	8					6.1	
15		SC SM	As above, very dense. Faint tar odor - likely from water from above and not from soil in this interval.	47-80-100/0.3'	9					3.5	
		SC SM	As above, very dense. Piece of sub-angular m Gravel (Shale) in shoe.	100/0.3'	10					0.0	Bentonite Plug.
		SC SM	As above, very dense.	20-36-100/0.4'	11					0.0	
20		SC SM	As above, very dense.	40-50/0.2'	12					0.0	21.7' End of boring.

ATTACHMENT 3

LABORATORY DATA PACKAGE

DATA PACKAGE FOR
GC SEMI-VOLATILES

PROJECT NAME: NIMO Site

BROWN AND CALDWELL
110 COMMERCE DRIVE
ALLENDALE, NJ 07401
2015744700

CHEMTECH PROJECT NO. **T3556**
ATTENTION: **Elyse Apicello**

CHEMTECH

CASE NARRATIVE

Brown and Caldwell
Project Name: NIMO Site
Project # 125831.002
Chemtech Project # T3556

A. Number of Samples and Date of Receipt:
8 Water samples were received on 7/7/05.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Cyanide, Fingerprint, Mercury, PCBs, SVOC-TCL BNA -20, TAL ICP Metals, TAL Metals, TCL Pesticide/PCBs, TCL Pesticides, and TCL Volatiles + 10. This data package contains results for Fingerprint.

C. Analytical Techniques:
Samples were analyzed for Fingerprint. according to Method 8015 on instrument NPD 1 using column HP-5 which is 30 meters, 0.32 mm ID, 0.25 um df, Catalog # 19091J-413.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature _____ Name: Krupa Dubey

Date: 7/28/05 Title: QA/QC

CHEMTECH
284 Sheffield Street, Mountainside NJ 07092
Tel: 908-789-8900 Fax 908-789-8922

COVER PAGE

ProjectID: NIMO Site

OrderID: T3556 **CustomerName:** Brown and Caldwell

LAB SAMPLE NO.	CLIENT SAMPLE NO
T3556-01	MW-101
T3556-02	MW-103
T3556-03	MW-103MS
T3556-04	MW-103MSD
T3556-05	MW-102
T3556-06	FB-070605
T3556-07	TB-070605
T3556-08	DUP-070605

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature: _____ Name: Anupa Dutt

Date: 7/28/05 Title: QA/QC

CHEMTECH

284 Sheffield Street Mountainside NJ 07092
Tel. 908-789-8900 Fax: 908-789-8922

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
J	Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.

GC DATA

CHEMTECH

GC QC DATA

TABULATED ANALYTICAL REPORT
QUALITATIVE GC FINGERPRINT

MATRIX: WATER
DATE EXTRACTED: 07/11/05
LAB FILE: 4617.D

ANALYSIS DATE : 07/20/05

LAB ID
THOD BLANK (PB06150)

FUEL TYPE
E

COMMENTS:
FT: FUEL TYPE
MDL= METHOD DETECTION LIMIT
A=GASOLINE
F=KEROSENE
C= #2 FUEL OIL
D= #4 FUEL OIL
G= #5 FUEL OIL
H= #6 FUEL OIL
E= NO CALIBRATED FUEL TYPE DETECTED
P= CLIENT KNOWN FUEL PRODUCT

< = LESS THAN
J= 10 W LUBRICATING OIL
K= 20 W LUBRICATING OIL
L= 30W LUBRICATING OIL
M= 40 W LUBRICATING OIL
CW= #2 FUEL OIL WEATHERED
DW= #4 FUEL OIL WEATHERED
GW= #5 FUEL OIL WEATHERED
HW= #6 FUEL OIL, WEATHERED
ND = NOT DETECTED (CONC)

GC SAMPLE DATA

TABULATED ANALYTICAL REPORT
QUALITATIVE GC FINGERPRINT 8015

CLIENT:	Brown and Caldwell
CLIENT PROJECT :	NIMO Site
REPORT DATE	07/25/05
PROJECT RECEIVED DATE :	07/07/05
ANALYSIS DATE	07/20/05
EXT. DATE:	07/11/05
MATRIX:	WATER
LAB PROJECT:	T3556

CLIENT ID	FILE ID	LAB ID	FUEL TYPE
MW-103	4619.D	T3556-01	C
MW-102	4620.D	T3556-02	A

COMMENTS:
FT: FUEL TYPE
MDL= METHOD DETECTION LIMIT
A=GASOLINE
B= KERSOENE WITH SOME UNKNOWN FUEL OIL
C= #2 FUEL OIL
D= #4 FUEL OIL
E= NO CALIBRATED FUEL TYPE DETECTED
F=KEROSENE
G=#5 FUEL OIL
H= #6 FUEL OIL
P= CLIENT KNOWN FUEL PRODUCT
KW KEROSENE WEATHERED
PI= PAINT THINNER
MS= MINERAL SPIRITS

< = LESS THAN
J= 10 W LUBRICATING OIL
K= 20 W LUBRICATING OIL
L= 30W LUBRICATING OIL
M= 40 W LUBRICATING OIL
CW= #2 FUEL OIL WEATHERED
DW= #4 FUEL OIL WEATHERED
GW= #5 FUEL OIL WEATHERED
HW= #6 FUEL OIL, WEATHERED
ND = NOT DETECTED (CONC)
CS = CLIENT STANDARD
N = JET FUEL STANDARD
S= DIESEL
CT=COAL TAR

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Instrument : Instrumen
Sample Name: T3556-02
Misc Info :
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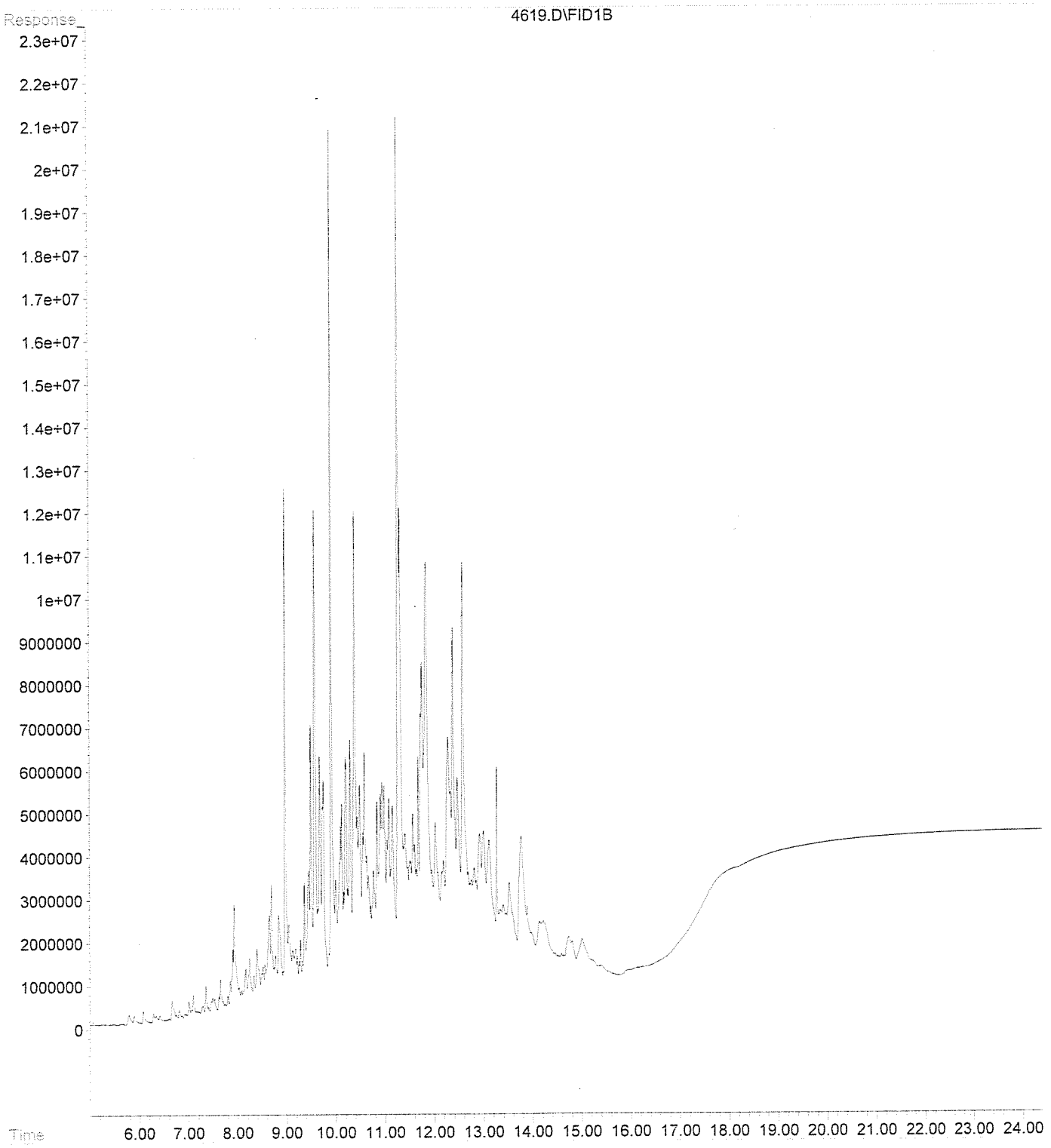

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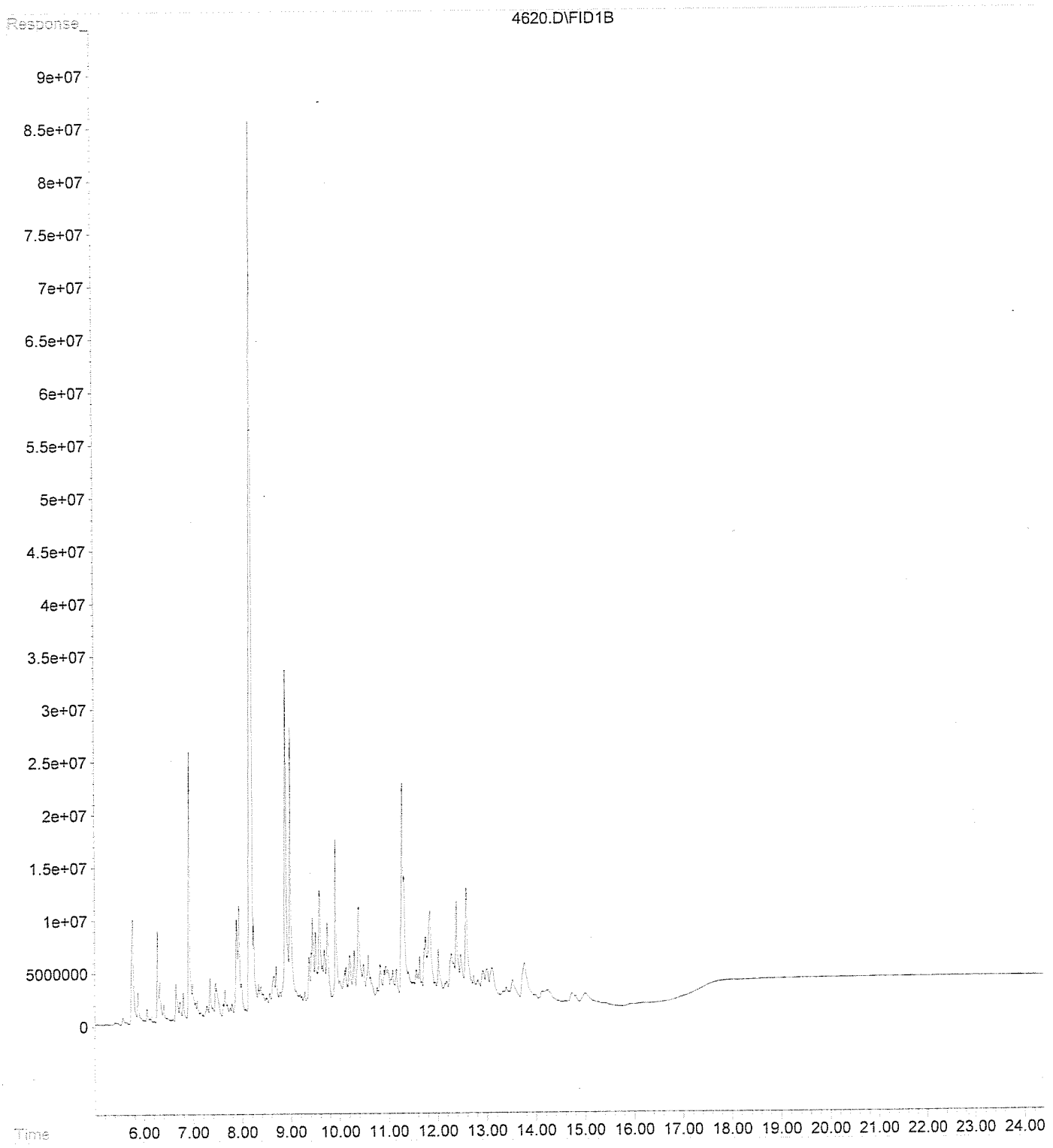
Vial Number: 8



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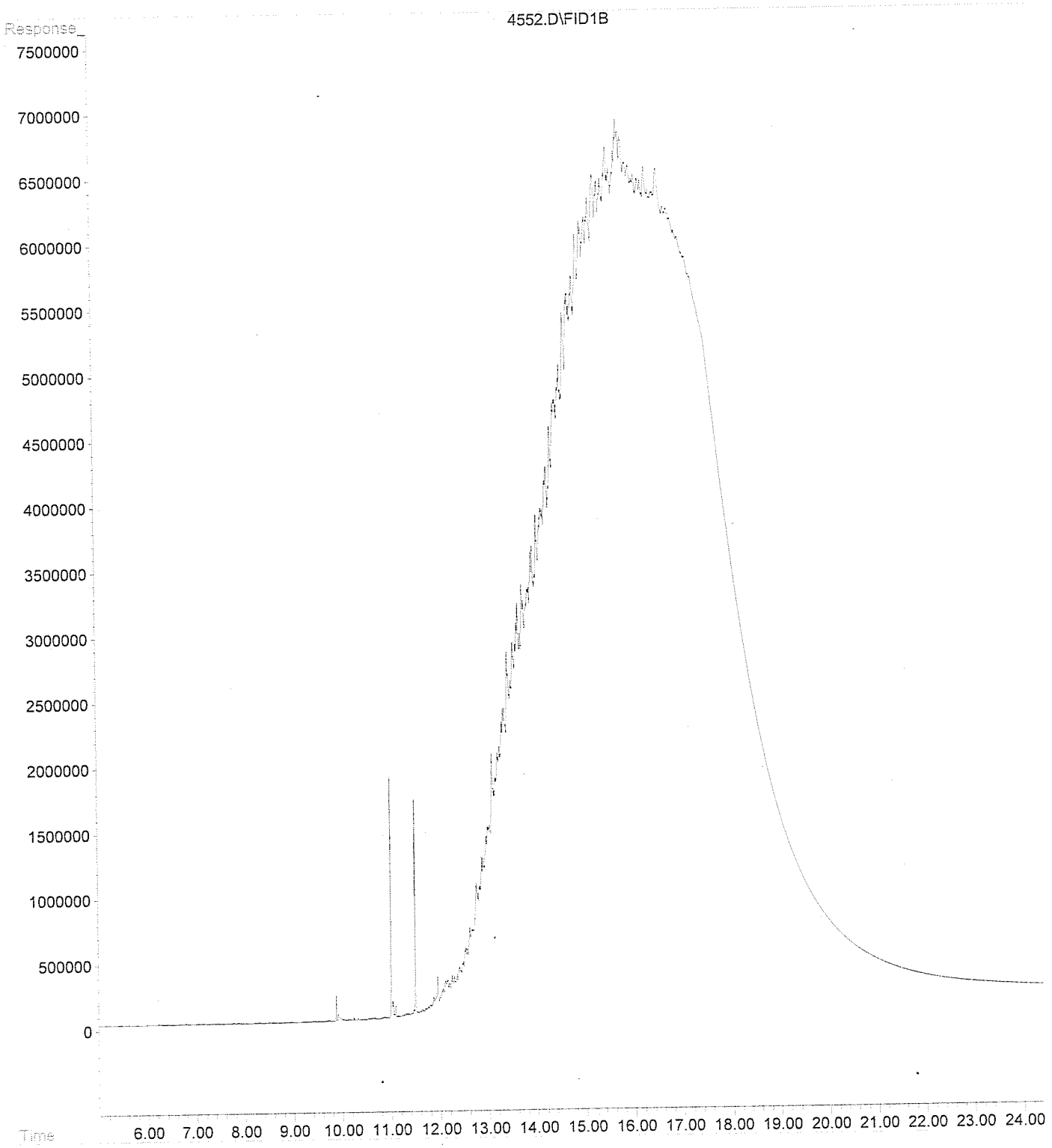
Instrument : Instrumen
Sample Name: MOTOR OIL 30W
Misc Info :
Vial Number: 16



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Sample Name: MOTOR OIL 40W
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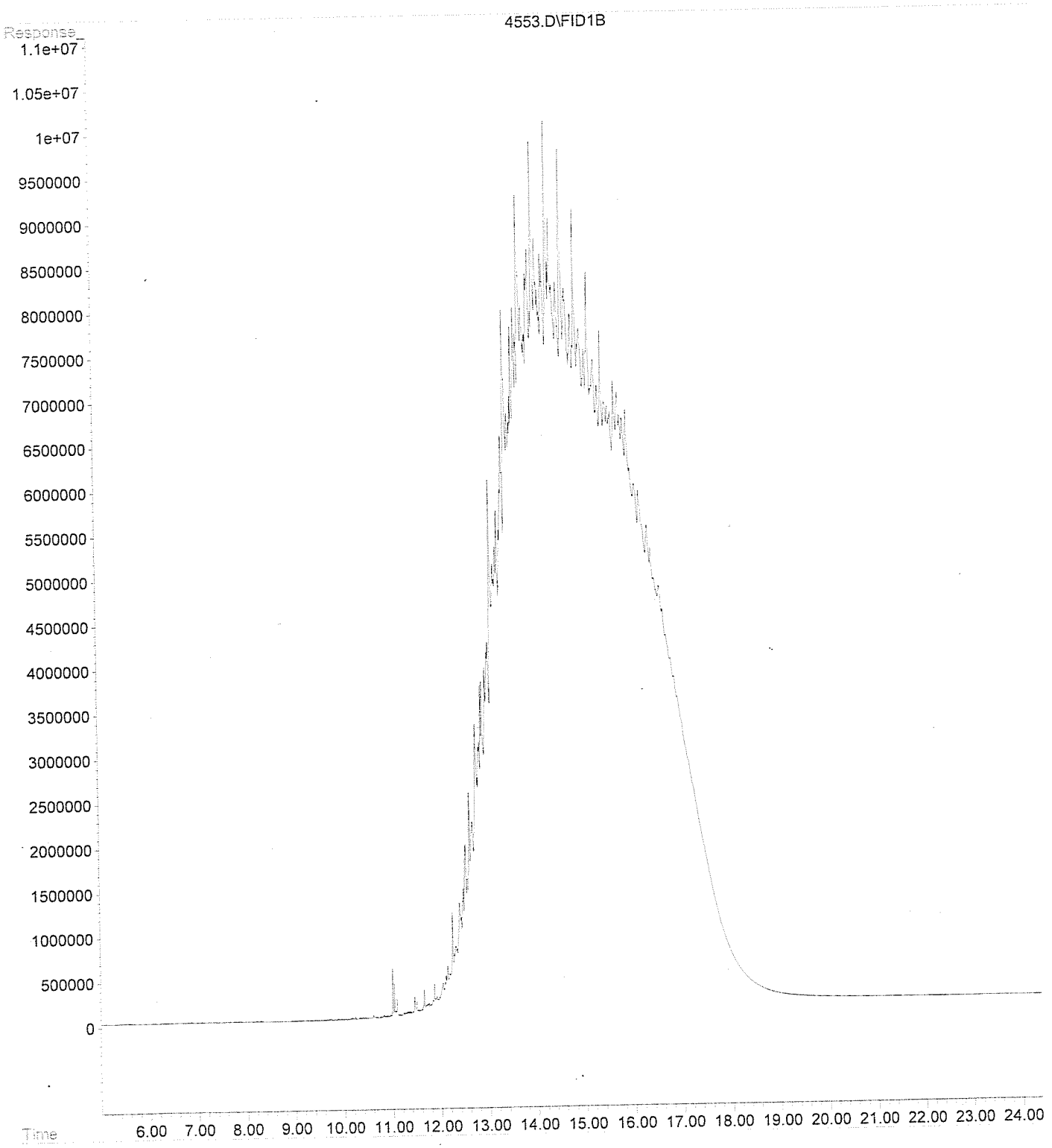
Vial Number: 17



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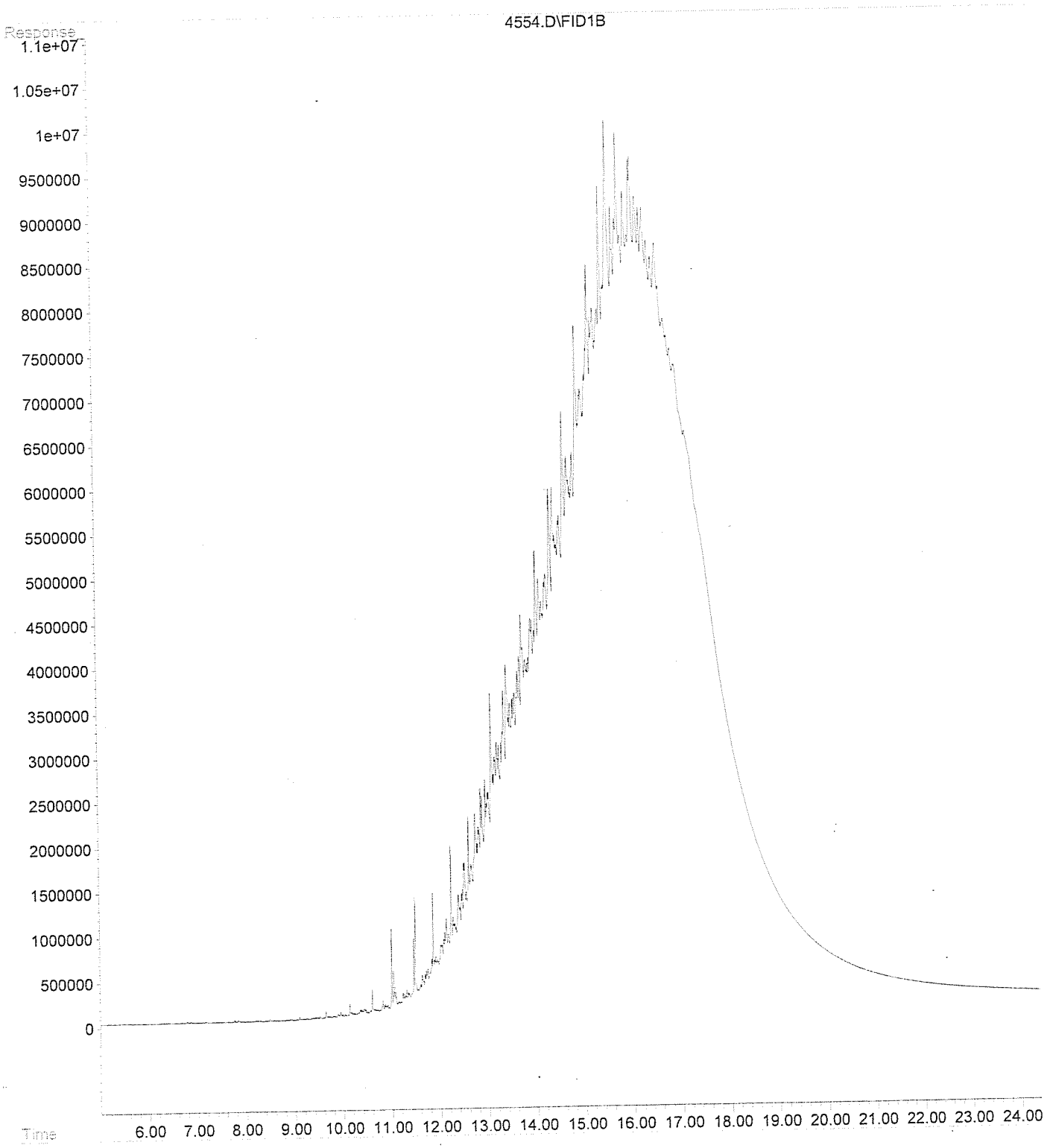

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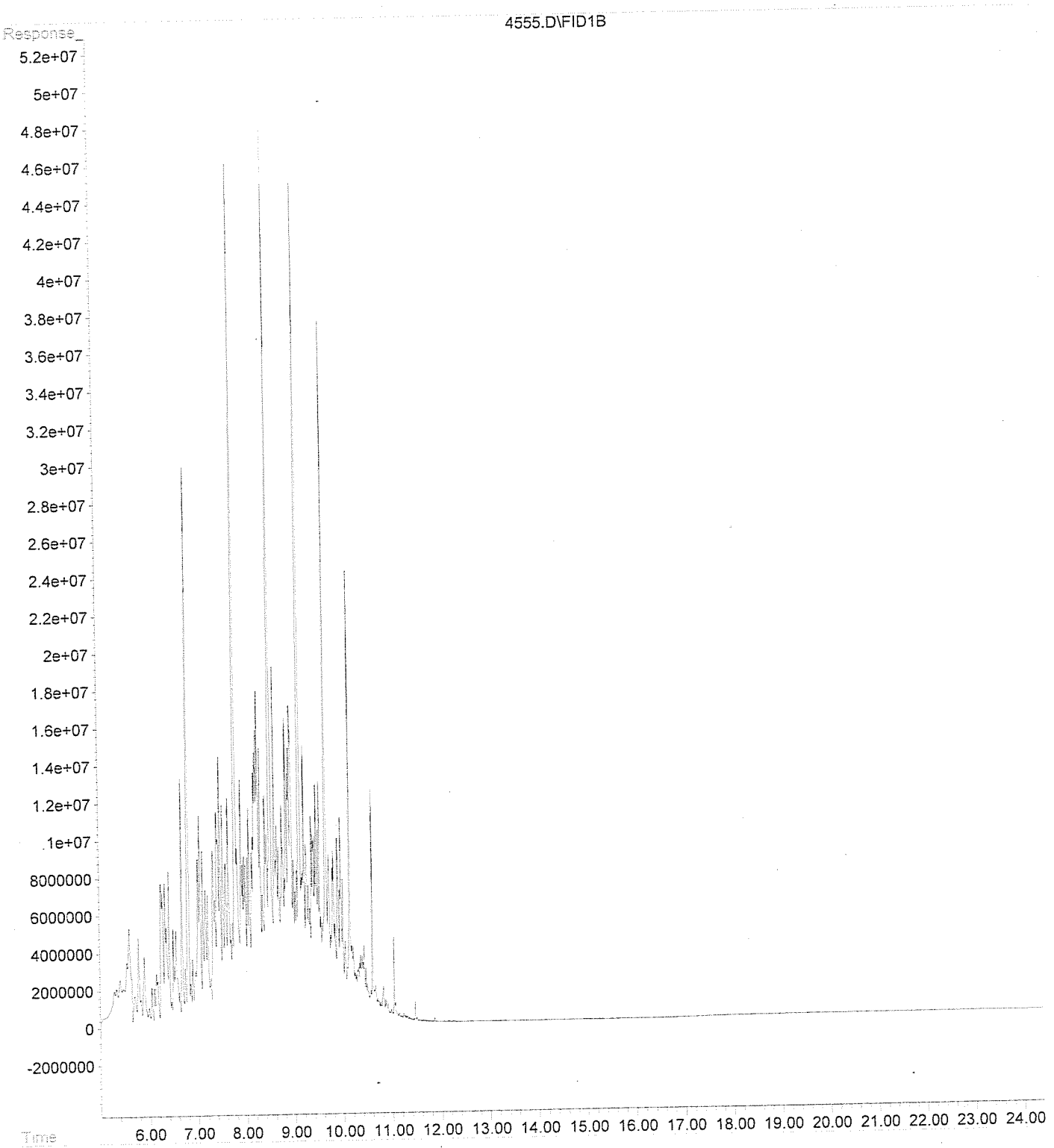
Vial Number: 19



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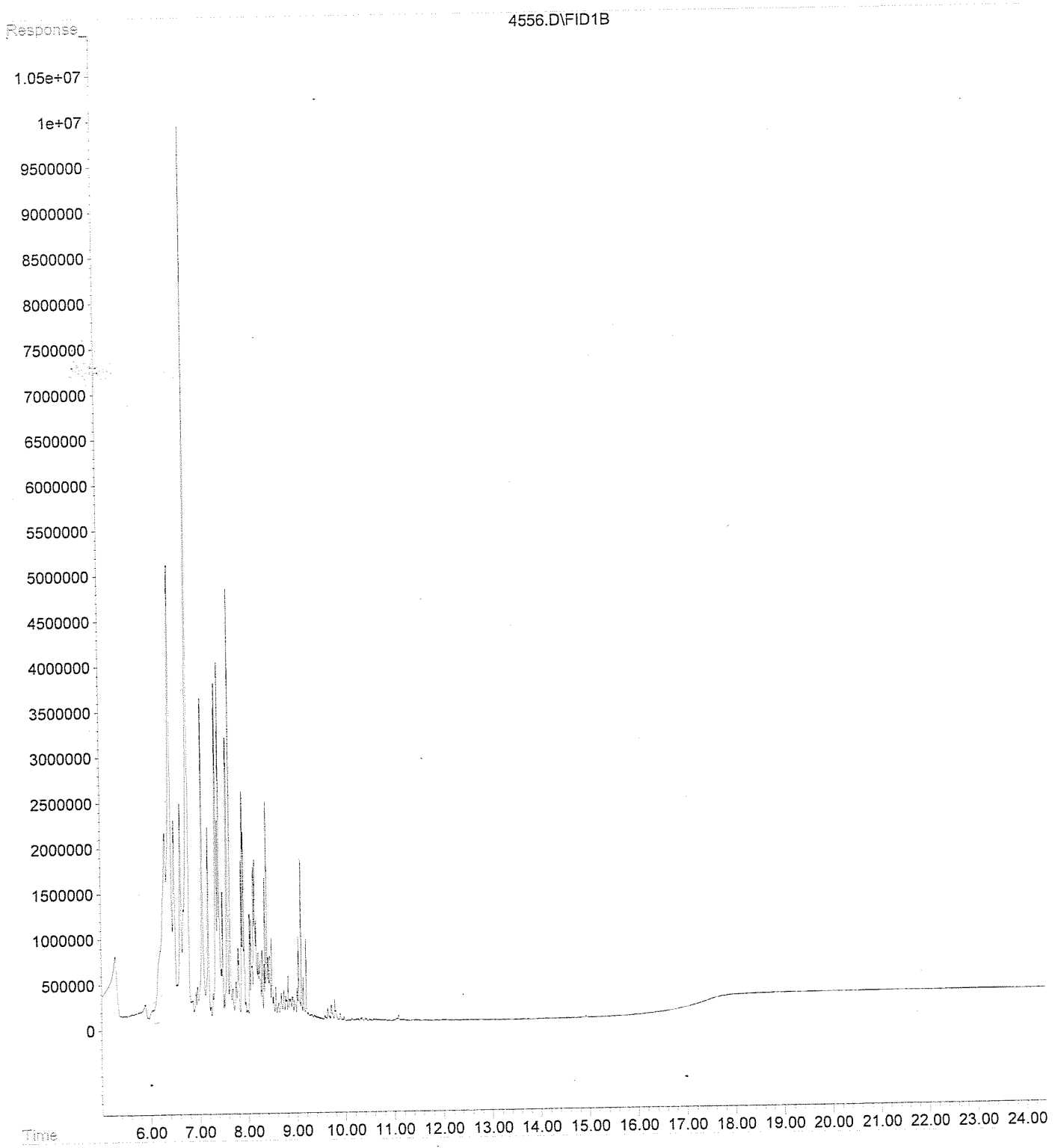
Instrument : Instrumen
Sample Name: UNLEADED GASOLINE
Misc Info :
Vial Number: 20



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Instrument : Instrumen
Sample Name: KEROSENE
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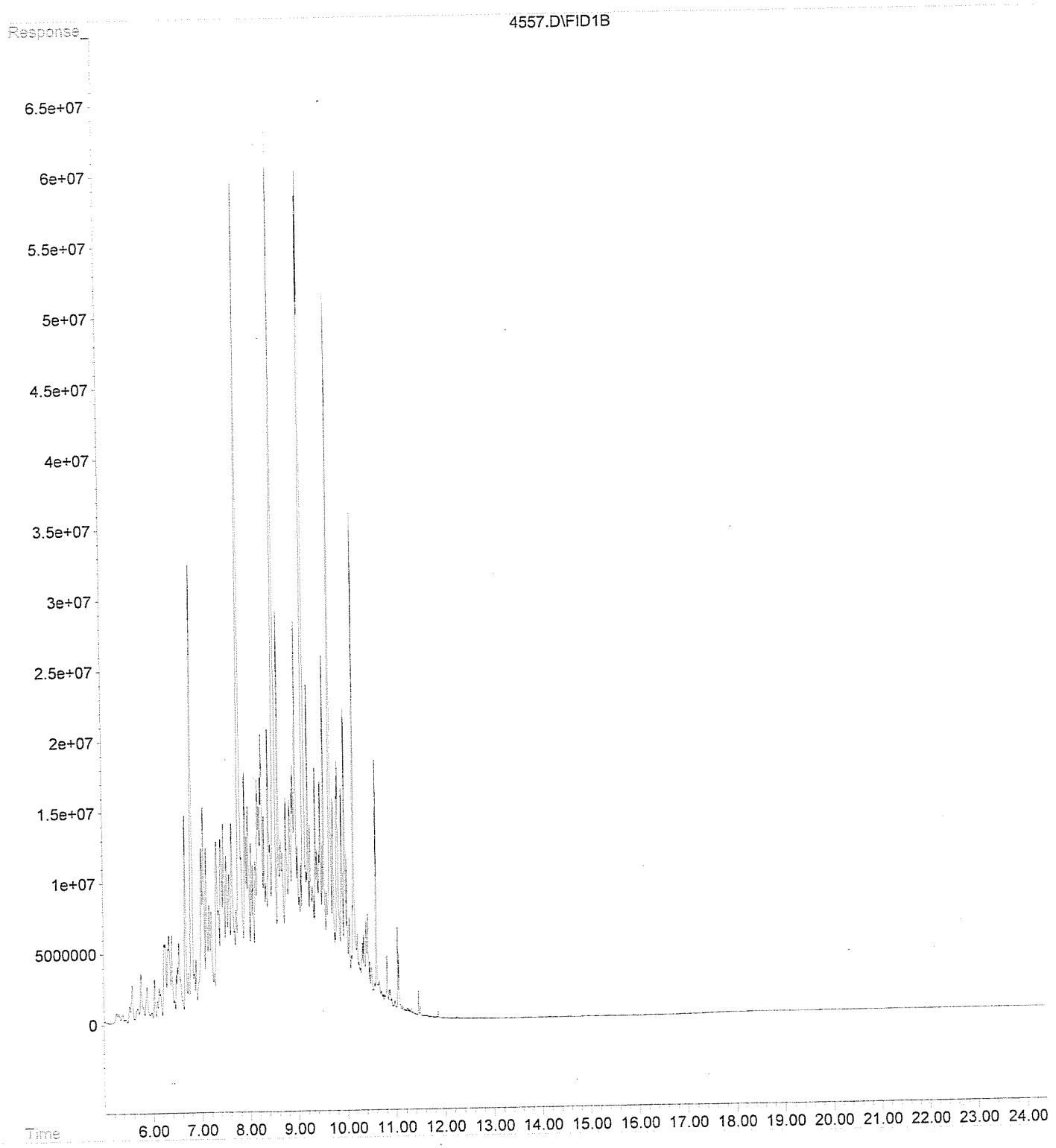
Vial Number: 21



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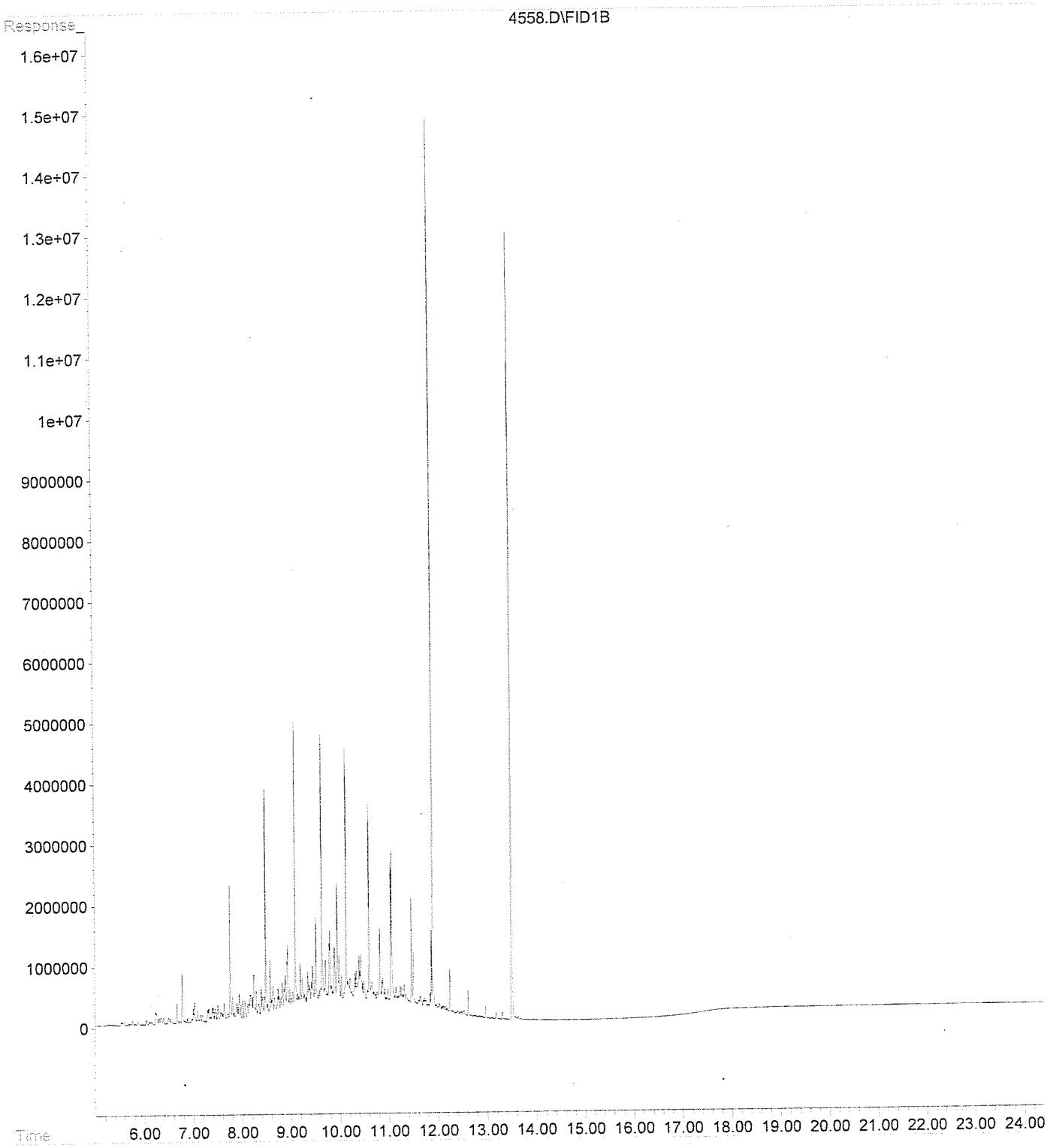
Sample Name: # 2 F.O.
Misc Info :
Vial Number: 22



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Instrument : Instrumen
Sample Name: # 4 F.O.
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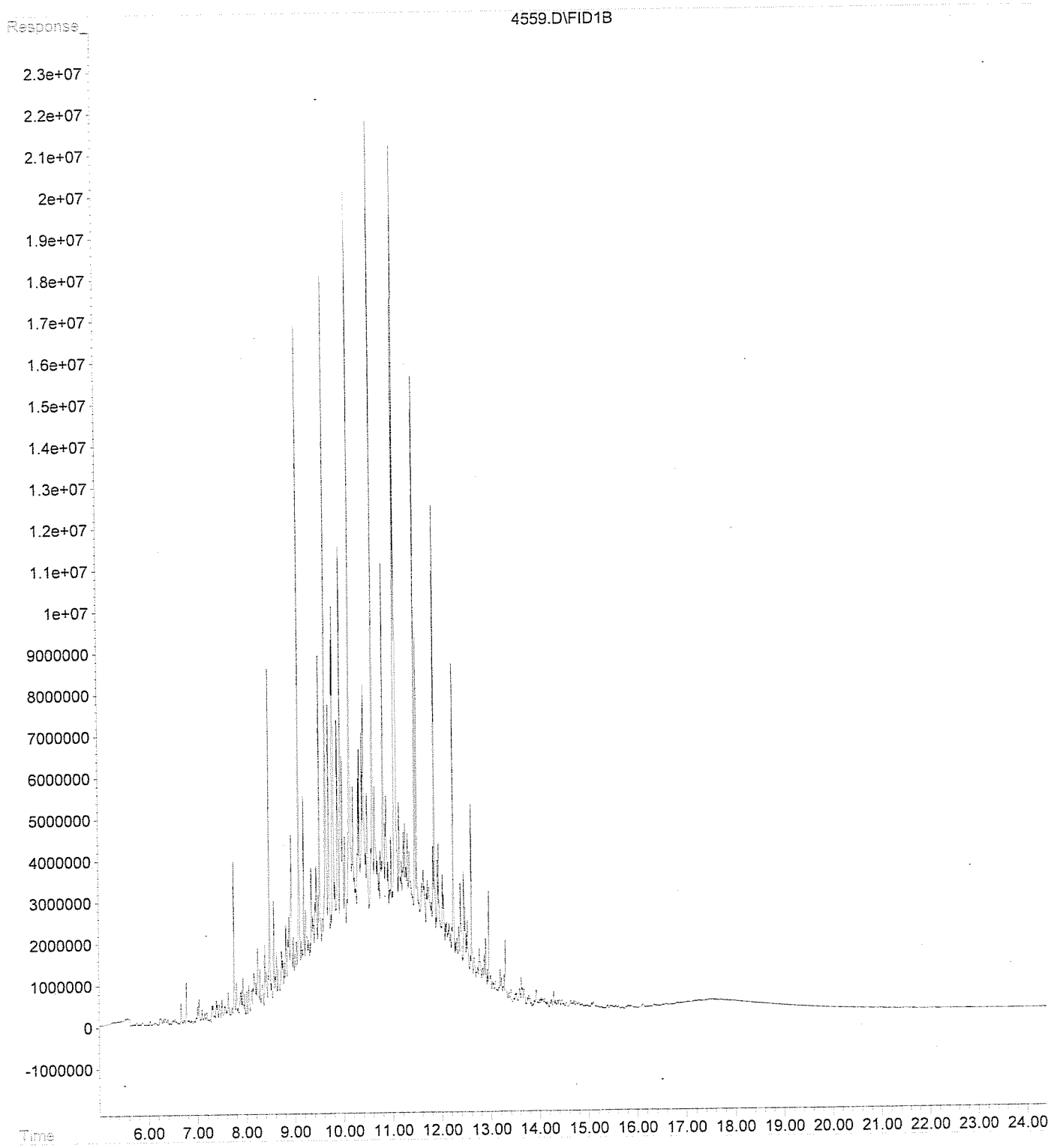
Vial Number: 23



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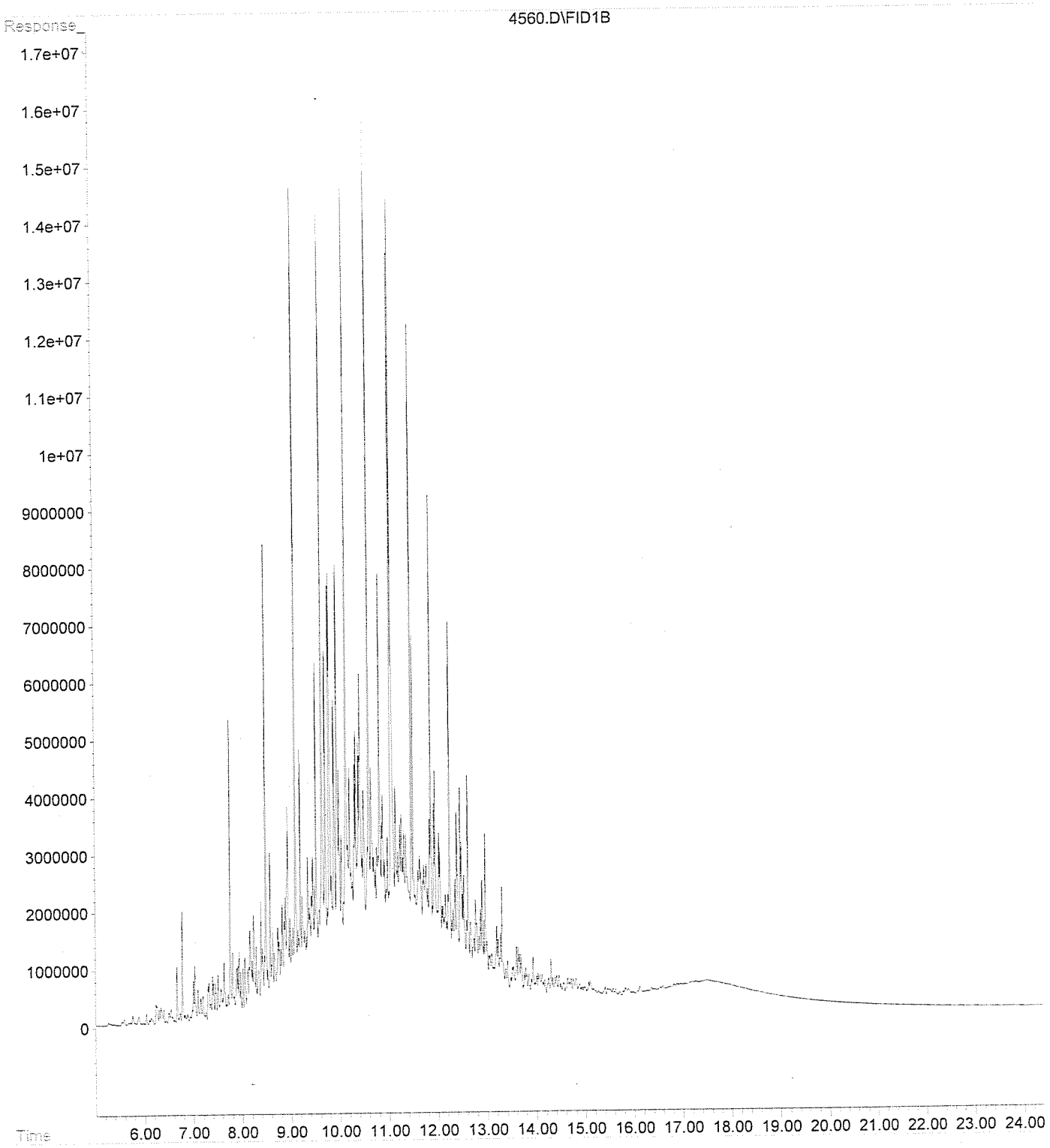
Instrument : Instrumen
Sample Name: # 5 F.O.
Misc Info :
Vial Number: 24



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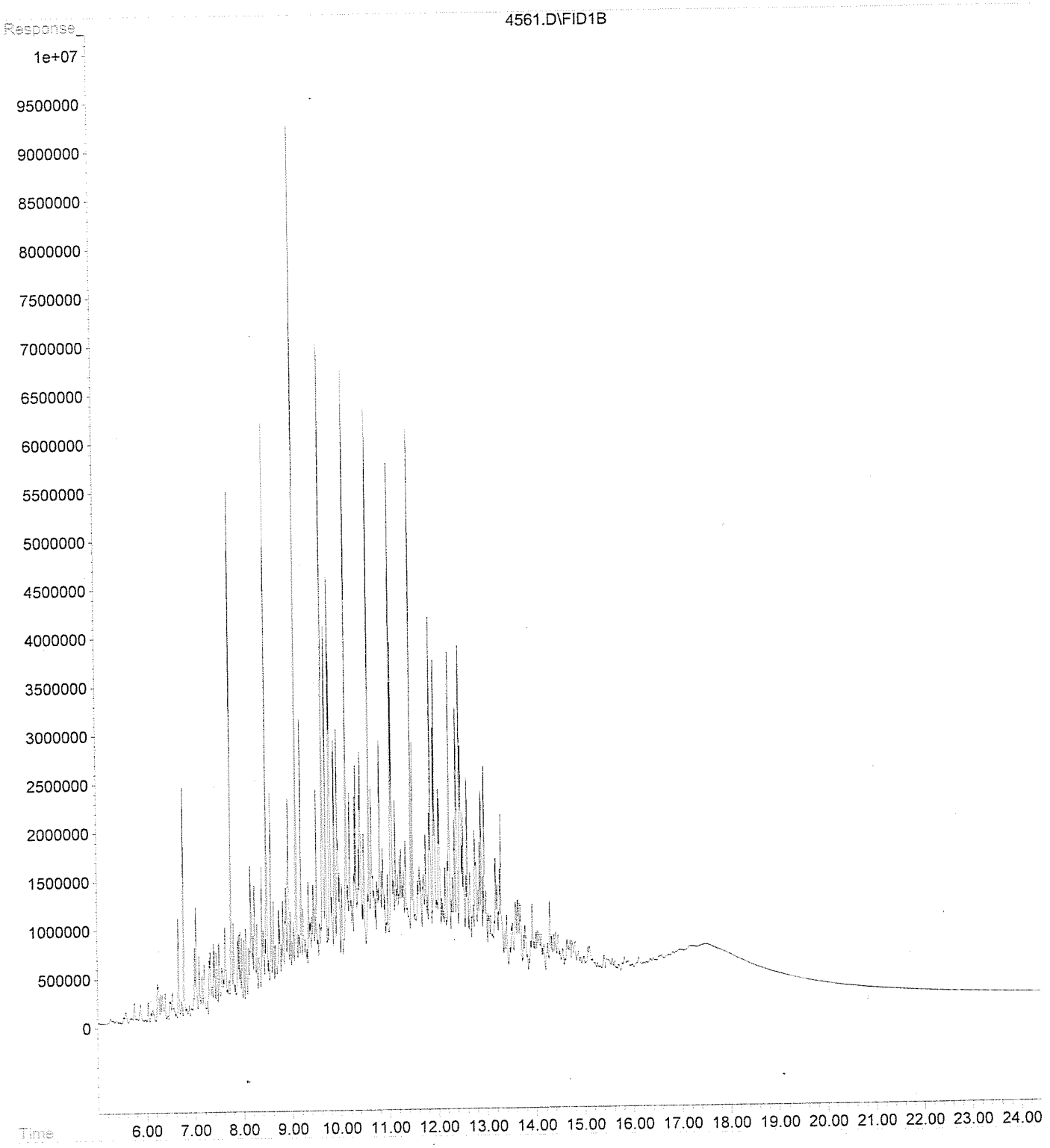
Instrument : Instrumen
Sample Name: # 6 F.O.
Misc Info :
Vial Number: 25



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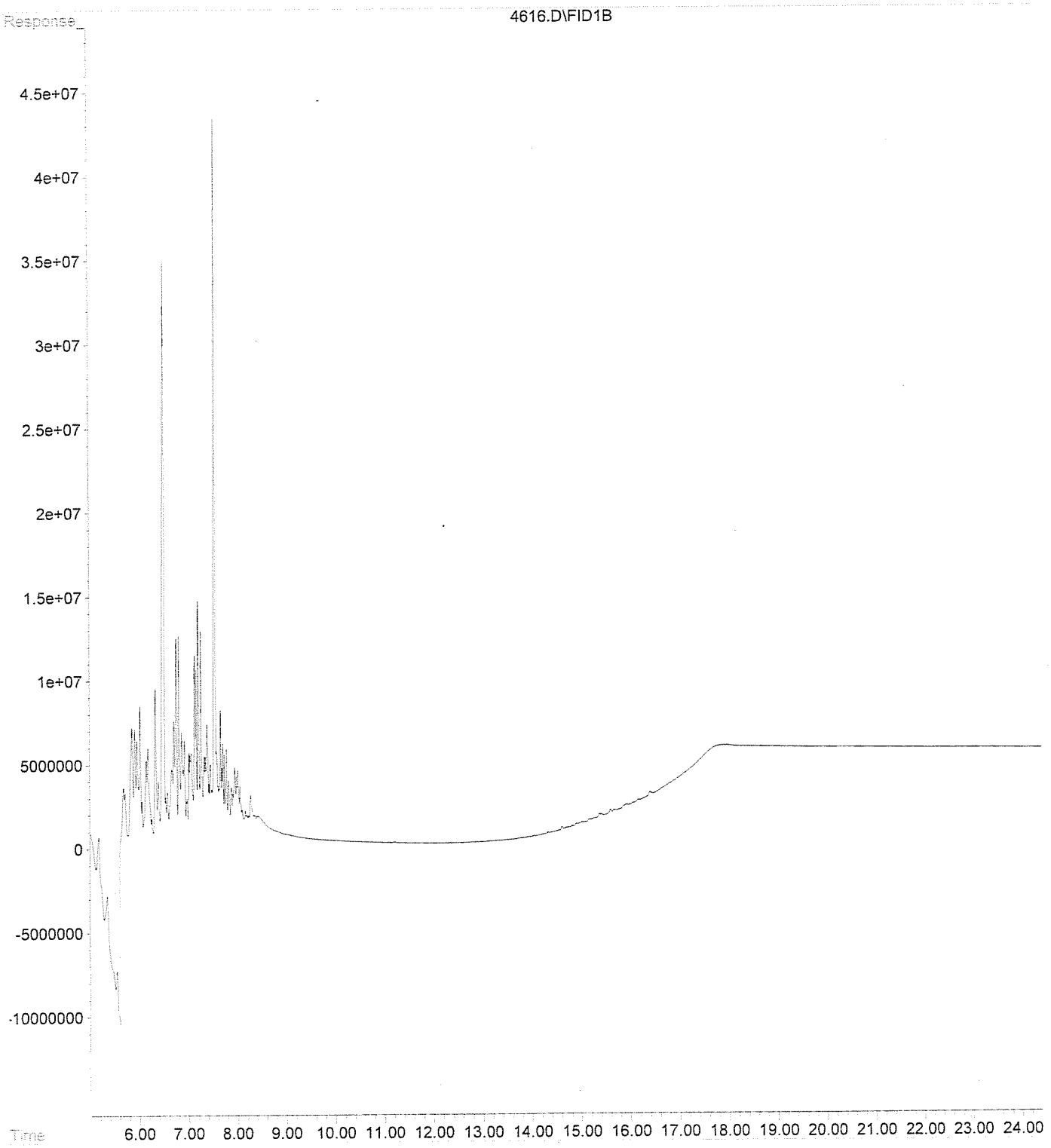
Instrument : Instrumen
Sample Name: COAL TAR STD
Misc Info :
Vial Number: 4



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GC RAW QC DATA

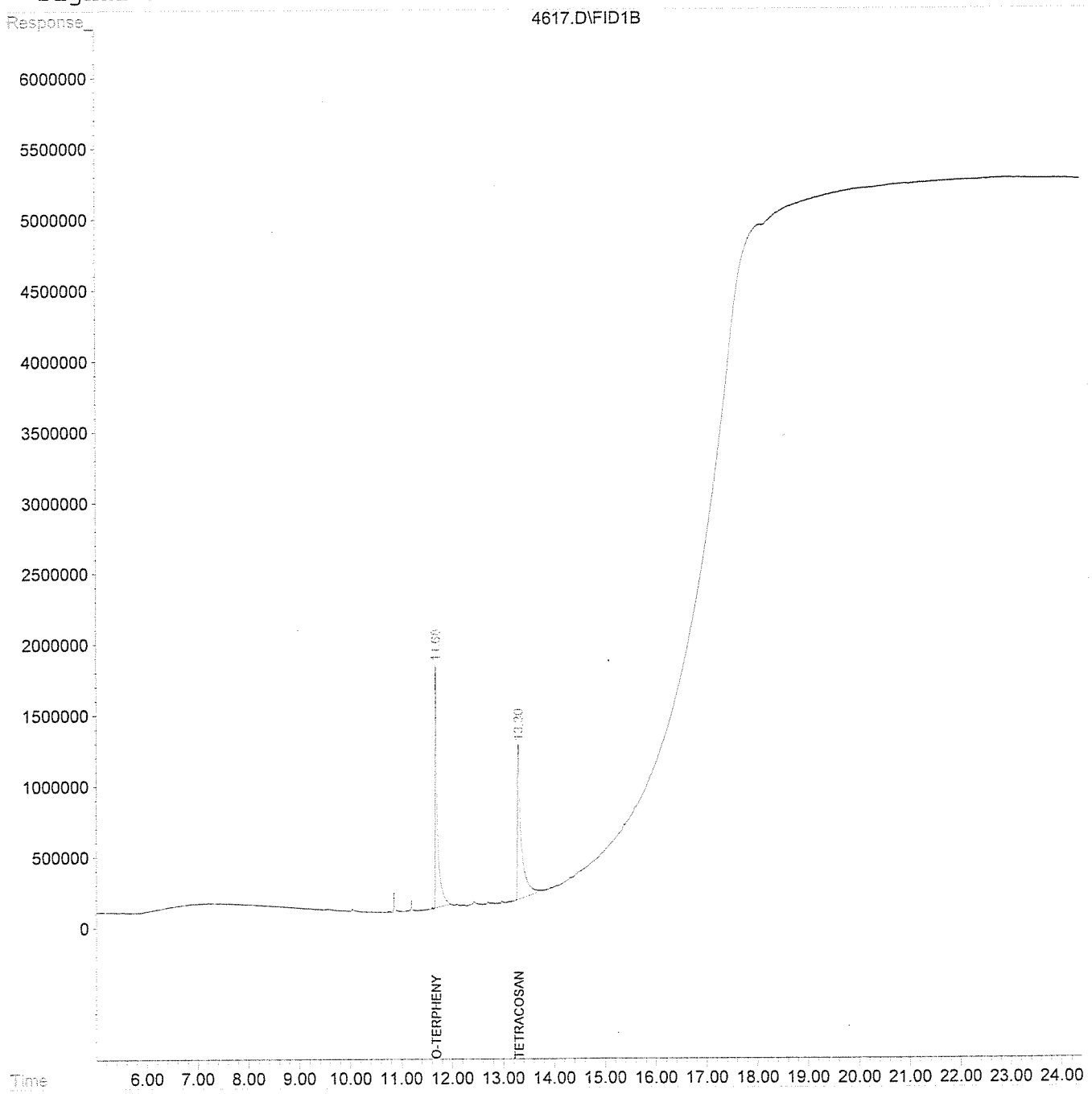
Quantitation Report

Data File : E:\NPD\2005\JULY\072005\4617.D
Acq On : 7-20-2005 11:55:56 AM
Sample : PB06150B
Misc :
IntFile : DRO.E
Quant Time: Jul 20 17:00 2005 Quant Results File: DRO0715.RES

Vial: 5
Operator: JJ
Inst : Instrumen
Multiplr: 1.00

Quant Method : E:\METHODS\NPD\DRO0715.M
Title : 8015
Last Update : Tue Jul 19 09:37:16 2005
Response via : Multiple Level Calibration
DataAcq Meth : 8015.M

Volume Inj. : 2uL
Signal Phase : HP-5
Signal Info : 30Mx0.32mx0.25um



CHEMTECH GC Quantitation Report (QT Reviewed)

Data File : E:\NPD\2005\JULY\072005\4617.D
Acq On : 7-20-2005 11:55:56 AM
Sample : PB06150B
Misc :
IntFile : DRO.E
Quant Time: Jul 20 17:00 2005 Quant Results File: DRO0715.RES

Vial: 5
Operator: JJ
Inst : Instrumen
Multiplr: 1.00

Quant Method : E:\METHODS\NPD\DRO0715.M
Title : 8015
Last Update : Tue Jul 19 09:37:16 2005
Response via : Initial Calibration
DataAcq Meth : 8015.M

Volume Inj. : 2uL
Signal Phase : HP-5
Signal Info : 30Mx0.32mx0.25um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9)	S O-TERPHENYL (SURROGATE)	11.68	53814907	11.328 ug/mlm
12)	S TETRACOSANE-d50 (SURROGATE	13.30	56495920	11.501 ug/mlm
	Target Compounds			

Analyst Signature: [signature] Analyst Name: Jonghun Jo Date: 7/23/05

----------REASONS FOR MANUAL INTEGRRATIONS----------

__ Poor resolution of peaks exhibited on chromatogram. Compound #: _____

✓ Peak Integrated by software incorrectly. Compound #: _____

__ OTHER: _____ Compound #: _____

(f)=RT Delta > 1/2 Window (m)=manual int.

GC MISCELLANEOU DATA

CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: T3556 MATRIX: Water

METHOD: 8015

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified.			✓
2.	Standard Summary Submitted.			✓
3.	Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis, 12 HOURS IF 8000 SERIES METHOD.			✓
4.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
5.	Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable ranges.	✓		
6.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range.	✓		
7.	Retention Time Shift Meet Criteria (if applicable) Comments:	✓		
8.	Extraction Holding Time Met If not met, list number of days exceeded for each sample:			✓
9.	Analysis Holding Time Met If not met, list those compounds and their recoveries which fall outside the acceptable range.			✓

ADDITIONAL COMMENTS:

Carole Collins
QA REVIEW

7/28/05
Date

CHEMTECH EXTRACTION LOGPAGE

SOP#: M 3510 Cleanup Method: N/A Batch #: PB06150

Matrix: Water Extraction Date: 7/11/2005

Review By: [signature] Extracted By: [signature]

Method of Extraction ☑ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet

QC	mL. Spike	Concentration ug/mL	STD REF. # FROM LOG
Blank Spike	1.0mL	200 ppm	GCP1691
Surrogate	1.0mL	20 ppm	GCP1813

CHEMICAL USED	LOT #
Methylene Chloride	ER1243
Sodium Sulfate	ER1244

Extraction Conformance/Non-Conformance Comments:

KD Bath Temperature: 65 C Envap Temperature: 40 C

Received Date: 7/12/05 Received By: [signature]

Delivered Date: 7/12/05 Delivered By: [signature]

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EXTRACTION LOGPAGE

Method: 8015 Supervisor Review: [signature] Date: 7/14/05 PREP Batch #: PB06150

Extraction Date: 7/11/2005 Initials: Rajeev Concentration Date: 7/12/05 Initials: BP

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST	Weight/ Volume mL	PH	Ver. Sur./Spike	Final Vol.(mL)	COMMENTS
PB06150BL		Fingerprint	1000	7.0	deepak	1.0	
PB06150BS		Fingerprint	1000		deepak	1.0	
T3556-02	MW-103	Fingerprint	300		deepak	1.0	[illegible]
T3556-05	MW-102	Fingerprint	300		deepak	50.0	7/12/05

* Extracts relinguished on the same date as received. Both person who concentrated and delivered the extracts and person accepting the extracts in Semi-Volatile lab, must sign.

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EXTRACTION LOGPAGE

Method: _____ Supervisor Review: _____ Date: / / PREP Batch #: PB06150

Extraction Date: 7/11/2005 Initials: ___ Concentration Date: / / Initials: ___

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST	Weight/ Volume mL	PH	Ver. Sur./Spike	Final Vol.(mL)	COMMENTS
PB06150BL		Fingerprint	1000		deepak		
PB06150BS		Fingerprint	1000		deepak		
T3556-02	MW-103	Fingerprint	300		deepak		
T3556-05	MW-102	Fingerprint	500		deepak		

* Extracts relinquished on the same date as received. Both person who concentrated and delivered the extracts and person accepting the extracts in Semi-Volatile lab, must sign.

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Daily Analysis Runlog For GC #: NPD 1

Start Date: 07/15/05 End Date: 07/15/05 Analyst JJ Review By:

STD. NAME	STD REF. #:	STD NAME	STD REF. #:
Initial Calibration Stds. (1 TRPH STD, #2 F.O.)	GCP1758, GCP 1772	Initial Calibration Stds.	GCS 521, 715, 482 491, 515, 712, 518, 1028, 1029, 1030
CCC standard (ICV)	GCP1759	I Blank	
HP Acquire Method:	8015	HP Process Method	DRO 0715 / #2 F.O.0715

SR. #:	Sample ID	Data File Name	Project #	Comment
1	100 TRPH STD	4537		~~Ok~~ NR JJ 7/19/05
2	100 TRPH STD	38		Ok
3	50 TRPH STD	39		↓
4	20 TRPH STD	40		↓
5	10 TRPH STD	41		↓
6	5 TRPH STD	42		NR
7	5 TRPH STD	43		Ok
8	1000PPM #2 F.O.	44		NR
9	1000PPM #2 F.O.	45		Ok
10	750PPM #2 F.O.	46		↓
11	500PPM #2 F.O.	47		↓
12	200PPM #2 F.O.	48		↓
13	100 PPM #2 F.O.	49		↓
14	100PPM #2 F.O	50		NR.
15	20 TRPH STD	51		ICV
16	MOTOR OIL 30W	52		Injection ok
17	MOTOR OIL 40W	53		↓
18	MOTOR OIL 50W	54		↓
19	JET FUEL A	55		↓
20	UNLEADED GASOLINE	56		↓

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Daily Analysis Runlog For GC #: NPD 1

Start Date: 07/15/05 End Date: 07/16/05 Analyst JJ Review By:

STD. NAME	STD REF. #:	STD NAME	STD REF. #:
Initial Calibration Stds.	GCS 521, 715, 482 491, 515, 712, 518	Initial Calibration Stds.	GCS 1028, 1029, 1030
CCC standard		I Blank	
HP Acquire Method:		HP Process Method	

SR. #:	Sample ID	Data File Name	Project #	Comment
1	KEROSENE	4557		Injection ok
2	#2 F.O	58		
3	#4 F.O	59		
4	#5 F.O	60		
5	#6 F.O	61		
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				JJ 7/23/05

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Daily Analysis Runlog For GC #: NPD 1

Start Date: 07/20/05 End Date: 07/22/05 Analyst TJ Review By:

STD. NAME	STD REF. #:	STD NAME	STD REF. #:
Initial Calibration Stds.		Initial Calibration Stds. (Coal Tar STD)	GCS 1070
CCC standard (TRPH STD, #2 F.O.)	GCP1758, GCP1772	I Blank	
HP Acquire Method:	8015	HP Process Method	DR00715/#2 F.O. ~~0715~~ TJ 7/22/05

SR. #:	Sample ID	Data File Name	Project #	Comment
1	20 TRPH STD	4613		OK
2	#2 F.O	14		
3	RT MARKER	15		
4	COAL TAR STD.	16		
5	PB06150 B	17		
6	PB06150 BS	18		
7	T3556-02	19	T3556	
8	T3556-05	20	11	
9	20 TRPH STD.	21 7-21-05		
10	#2 F.O	22		
11	MECL2	23		
12	MECL2 TJ 7/22/05	24		
13	~~20~~ 50 TRPH STD.	25		OK
14	#2 F.O	26		200 ppm
15	PB06367 B	27		OK
16	PB06367 BS	28		half spk.
17	T3750-02	29		
18	T3750-03	30	T3750	
19	T3762-01	31	T3762	OK
20	T3762-02	32	11	

Order ID:	T3556	Order Date:	7/7/2005 6:42:22 PM
Client:	Brown and Caldwell	Project:	NIMO Site
Contact:	Elyse Apicello		

Lab ID	Client ID	Matrix	Test	Method	Sample Date	PrepDate	AnalDate	Received
T3556-02	MW-103	**WATER**			**7/6/2005**			**7/7/2005**
			FINGERPRINT	8015		7/11/2005	7/20/2005	
T3556-05	MW-102	**SOIL**			**7/13/2005**			**7/7/2005**
			FINGERPRINT	8100		7/11/2005	7/20/2005	

SHIPPING AND RECEIVING DOCUMENTATION

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 : Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. T3556

COC Number 053042

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: Brown & Caldwell
ADDRESS: 110 Commerce Dr.
CITY: Allendale STATE: NJ ZIP: 07401
ATTENTION: Elyse Apicello
PHONE: (201) 236-1607 FAX: (201) 574-4700

CLIENT PROJECT INFORMATION

PROJECT NAME: Rensselaer SC/IRM
PROJECT NO.: 128531.002 LOCATION: Rensselaer, NY
PROJECT MANAGER: Frank Williams
e-mail: EAPICELLO@BRWNCALD.COM FWILLIAMS@BRWNCALD.COM
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: B&C PO#: 128531.002
ADDRESS:
CITY: STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX: DAYS *
HARD COPY: DAYS *
EDD: DAYS *
* TO BE APPROVED BY CHEMTECH
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ RESULTS ONLY ☐ USEPA CLP
☐ RESULTS + QC ☐ New York State ASP "B"
☐ New Jersey REDUCED ☐ New York State ASP "A"
☐ New Jersey CLP ☐ Other
☐ EDD FORMAT

ANALYSIS

1	2	3	4	5	6	7	8	9
TCL VOC	TCL SVOC	Pest.	PCB	Metals	Cyanide	Hydrocarbon Fingerpr.		

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1. 1	MW-101	Water		X	7/6/05	1000	3	2	1	1	1	1	1				
2. 2, 3, 4	MW-103 (And MS/MSD)	Water		X	7/6/05	1155	27	6	3	3	3	3	3	1			
3. 5	MW-102	Water		X	7/6/05	1305	2	~~0~~						2			
4. 6	~~FB~~ EB-070605 (FB)	Water		X	7/6/05	1135	7	2	1	1	1	1	1				
5. 7	TB-070605	Water		X	7/6/05	1020	2	2	1	1	1	1	1				
6. 8	DUP-070605	Water		X	7/6/05	99:99	7	2	1	1	1	1	1				
7.																	
8.																	
9.																	
10.																	

PRESERVATIVES: A E E E B D E

← Specify Preservatives
A – HCl B – HNO_3
C – H_2SO_4 D – NaOH
E – ICE F – Other

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

	DATE/TIME	RECEIVED BY
1. RELINQUISHED BY SAMPLER:	7/7/05 0730	1.
2. RELINQUISHED BY:	DATE/TIME:	2. RECEIVED BY:
3. RELINQUISHED BY: Carter	DATE/TIME: 7.7.05 15:10	3. RECEIVED FOR LAB BY:

Conditions of bottles or coolers at receipt: ☒ Compliant ☐ Non Compliant
Cooler Temp. 4°C
MeOH extraction requires an additional 4 oz jar for percent solid.
Comments:
Ice in Cooler?: YES

Page 1 of 1

SHIPPED VIA: CLIENT: ☐ HAND DELIVERED ☐ OVERNIGHT
CHEMTECH: ☒ PICKED UP ☐ OVERNIGHT

Shipment Complete: ☒ YES ☐ NO

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Revision 4/2005

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

CHEMTECH

284 Sheffield Street Mountainside NJ 07092
Tel: 908-789-8900

END OF ANALYTICAL RESULTS