MONTGOMERY WATSON
Analytical Testing Services

University Research Park
One Science Court
Madison, Wisconsin 53711
Tel: 608 231 4747 • Fax: 608 231 4777

INORGANIC REPORT
ACS
GRIFFITH IN
Project Number: 4077.0040

Sample #	Description	Test	Result	Reporting Limit	Matrix	Units	Sample Date	Analysis Date
L10364-001	ACS-PUMPTEST-1,000 MIN	Biochemical Oxygen Demand	17	1	GroundH2O	mg/L	21-MAR-95	22-MAR-95
L10364-002	ACS-PUMPTEST-1,200 MIN	Biochemical Oxygen Demand	16	1	GroundH2O	mg/L	21-MAR-95	22-MAR-95
L10364-003	ACS-PUMPTEST-1,440 MIN	Biochemical Oxygen Demand	16	1	GroundH2O	mg/L	21-MAR-95	22-MAR-95

US EPA RECORDS CENTER REGION 5
464567

Chk'd: PSK App'd: CAW
Date App'd: 4.7.95

WI Lab Certification ID#: 113138300

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VOLATILE ORGANIC REPORT WITH ACROLEIN, ACRYLONITRE
ACS
GRIFFITH IN
Project Number: 4077.0040

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L10364-001	ACS-PUMPTEST-1,000 MIN	Benzene	500	1.0	GroundH2O	ug/L	
		Bromodichloromethane	< 100	1.0	GroundH2O	ug/L	A2
		Bromoform	< 100	1.0	GroundH2O	ug/L	A2
		Bromomethane	< 200	2.0	GroundH2O	ug/L	A2
		Carbon tetrachloride	< 100	1.0	GroundH2O	ug/L	A2
		Chlorobenzene	< 100	1.0	GroundH2O	ug/L	A2
		Chlorodibromomethane	< 100	1.0	GroundH2O	ug/L	A2, A17
		Chloroethane	1300	2.0	GroundH2O	ug/L	
		2-Chloroethyl vinyl ether	< 1000	10	GroundH2O	ug/L	A2, A17
		Chloroform	< 100	1.0	GroundH2O	ug/L	A2, A17
		Chloromethane	< 200	2.0	GroundH2O	ug/L	A2, A17
		1,2-Dichlorobenzene	< 100	1.0	GroundH2O	ug/L	A2, A17
		1,3-Dichlorobenzene	< 100	1.0	GroundH2O	ug/L	A2, A17
		1,4-Dichlorobenzene	< 100	1.0	GroundH2O	ug/L	A2, A17
		1,1-Dichloroethane	820	1.0	GroundH2O	ug/L	
		1,2-Dichloroethane	< 100	1.0	GroundH2O	ug/L	A2
		1,1-Dichloroethene	< 100	1.0	GroundH2O	ug/L	A2
		cis-1,2-Dichloroethene	1100	1.0	GroundH2O	ug/L	
		trans-1,2-Dichloroethene	100	1.0	GroundH2O	ug/L	
		1,2-Dichloropropane	< 100	1.0	GroundH2O	ug/L	A2
		cis-1,3-Dichloropropene	< 100	1.0	GroundH2O	ug/L	A2
		trans-1,3-Dichloropropene	< 100	1.0	GroundH2O	ug/L	A2
		Ethylbenzene	< 100	1.0	GroundH2O	ug/L	A2
		Methylene chloride	280	3.0	GroundH2O	ug/L	
		1,1,2,2-Tetrachloroethane	< 100	1.0	GroundH2O	ug/L	A2
		Tetrachloroethene	< 100	1.0	GroundH2O	ug/L	A2
		Toluene	1100	1.0	GroundH2O	ug/L	
		1,1,1-Trichloroethane	< 100	1.0	GroundH2O	ug/L	A2
		1,1,2-Trichloroethane	< 100	1.0	GroundH2O	ug/L	A2
		Trichloroethene	< 100	1.0	GroundH2O	ug/L	A2
		Trichlorofluoromethane	< 100	1.0	GroundH2O	ug/L	A2
		Vinyl chloride	790	1.0	GroundH2O	ug/L	
		m + p-Xylene	< 200	2.0	GroundH2O	ug/L	A2
		o-Xylene	< 100	1.0	GroundH2O	ug/L	A2
		Acrolein	< 10000	100	GroundH2O	ug/L	A2, G12
		Acrylonitrile	< 10000	100	GroundH2O	ug/L	A2, G12

Sample Date: 21-MAR-95
Analysis Date: 28, 29-MAR-95

Chk'd: RSK App'd: CAW
Date App'd: 4.7.95

WI Lab Certification ID#: 113138300

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VOLATILE ORGANIC REPORT WITH ACROLEIN, ACRYLONITRE
ACS
GRIFFITH IN
Project Number: 4077.0040

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L10364-002	ACS-PUMPTEST-1,200 MIN	Benzene	370	1.0	GroundH20	ug/L	
		Bromodichloromethane	< 1.0	1.0	GroundH20	ug/L	
		Bromoform	< 1.0	1.0	GroundH20	ug/L	
		Bromomethane	< 2.0	2.0	GroundH20	ug/L	
		Carbon tetrachloride	< 1.0	1.0	GroundH20	ug/L	
		Chlorobenzene	< 1.0	1.0	GroundH20	ug/L	
		Chlorodibromomethane	< 1.0	1.0	GroundH20	ug/L	A17
		Chloroethane	54	2.0	GroundH20	ug/L	
		2-Chloroethyl vinyl ether	< 10	10	GroundH20	ug/L	A17
		Chloroform	< 1.0	1.0	GroundH20	ug/L	
		Chloromethane	< 2.0	2.0	GroundH20	ug/L	
		1,2-Dichlorobenzene	< 1.0	1.0	GroundH20	ug/L	
		1,3-Dichlorobenzene	< 1.0	1.0	GroundH20	ug/L	
		1,4-Dichlorobenzene	< 1.0	1.0	GroundH20	ug/L	
		1,1-Dichloroethane	170	1.0	GroundH20	ug/L	
		1,2-Dichloroethane	< 1.0	1.0	GroundH20	ug/L	
		1,1-Dichloroethene	< 1.0	1.0	GroundH20	ug/L	
		cis-1,2-Dichloroethene	280	1.0	GroundH20	ug/L	
		trans-1,2-Dichloroethene	5.6	1.0	GroundH20	ug/L	
		1,2-Dichloropropane	< 1.0	1.0	GroundH20	ug/L	
		cis-1,3-Dichloropropene	< 1.0	1.0	GroundH20	ug/L	
		trans-1,3-Dichloropropene	< 1.0	1.0	GroundH20	ug/L	
		Ethylbenzene	3.2	1.0	GroundH20	ug/L	
		Methylene chloride	6.2	3.0	GroundH20	ug/L	
		1,1,2,2-Tetrachloroethane	< 1.0	1.0	GroundH20	ug/L	
		Tetrachloroethene	< 1.0	1.0	GroundH20	ug/L	
		Toluene	460	1.0	GroundH20	ug/L	
		1,1,1-Trichloroethane	1.5	1.0	GroundH20	ug/L	
		1,1,2-Trichloroethane	< 1.0	1.0	GroundH20	ug/L	
		Trichloroethene	< 1.0	1.0	GroundH20	ug/L	
		Trichlorofluoromethane	< 1.0	1.0	GroundH20	ug/L	
		Vinyl chloride	34	1.0	GroundH20	ug/L	
		m + p-Xylene	3.8	2.0	GroundH20	ug/L	
		o-Xylene	1.3	1.0	GroundH20	ug/L	
		Acrolein	< 100	100	GroundH20	ug/L	G12
		Acrylonitrile	< 100	100	GroundH20	ug/L	G12

Sample Date: 21-MAR-95
Analysis Date: 28, 29-MAR-95, 04-APR-95

Chk'd: RSK App'd: CPW
Date App'd: 4-17-95

WI Lab Certification ID#: 113138300

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ACS
GRIFFITH IN
Project Number: 4077.0040

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L10364-003	ACS-PUMPTEST-1,440 MIN	Benzene	280	1.0	GroundH2O	ug/L	
		Bromodichloromethane	< 1.0	1.0	GroundH2O	ug/L	
		Bromoform	< 1.0	1.0	GroundH2O	ug/L	
		Bromomethane	< 2.0	2.0	GroundH2O	ug/L	
		Carbon tetrachloride	< 1.0	1.0	GroundH2O	ug/L	
		Chlorobenzene	< 1.0	1.0	GroundH2O	ug/L	
		Chlorodibromomethane	< 1.0	1.0	GroundH2O	ug/L	A17
		Chloroethane	1100	2.0	GroundH2O	ug/L	
		2-Chloroethyl vinyl ether	< 10	10	GroundH2O	ug/L	A17
		Chloroform	< 50	1.0	GroundH2O	ug/L	A2, A4
		Chloromethane	< 2.0	2.0	GroundH2O	ug/L	
		1,2-Dichlorobenzene	< 1.0	1.0	GroundH2O	ug/L	
		1,3-Dichlorobenzene	< 1.0	1.0	GroundH2O	ug/L	
		1,4-Dichlorobenzene	< 1.0	1.0	GroundH2O	ug/L	
		1,1-Dichloroethane	820	1.0	GroundH2O	ug/L	
		1,2-Dichloroethane	7.8	1.0	GroundH2O	ug/L	
		1,1-Dichloroethene	2.5	1.0	GroundH2O	ug/L	
		cis-1,2-Dichloroethene	1200	1.0	GroundH2O	ug/L	
		trans-1,2-Dichloroethene	49	1.0	GroundH2O	ug/L	
		1,2-Dichloropropane	1.0	1.0	GroundH2O	ug/L	
		cis-1,3-Dichloropropene	< 1.0	1.0	GroundH2O	ug/L	
		trans-1,3-Dichloropropene	< 1.0	1.0	GroundH2O	ug/L	
		Ethylbenzene	6.3	1.0	GroundH2O	ug/L	
		Methylene chloride	140	3.0	GroundH2O	ug/L	
		1,1,2,2-Tetrachloroethane	< 1.0	1.0	GroundH2O	ug/L	
		Tetrachloroethene	< 1.0	1.0	GroundH2O	ug/L	
		Toluene	1100	1.0	GroundH2O	ug/L	
		1,1,1-Trichloroethane	3.7	1.0	GroundH2O	ug/L	
		1,1,2-Trichloroethane	< 1.0	1.0	GroundH2O	ug/L	
		Trichloroethene	1.0	1.0	GroundH2O	ug/L	
		Trichlorofluoromethane	8.4	1.0	GroundH2O	ug/L	
		Vinyl chloride	470	1.0	GroundH2O	ug/L	
		m + p-Xylene	7.9	2.0	GroundH2O	ug/L	
		o-Xylene	2.2	1.0	GroundH2O	ug/L	
		Acrolein	< 5000	100	GroundH2O	ug/L	A2, G12
		Acrylonitrile	< 5000	100	GroundH2O	ug/L	A2, G12

Sample Date: 21-MAR-95
Analysis Date: 29, 30-MAR-95

Chk'd: RSK App'd: CMW
Date App'd: 4.07.95

WI Lab Certification ID#: 113138300

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VOLATILE ORGANIC REPORT WITH ACROLEIN, ACRYLONITRE
ACS
GRIFFITH IN
Project Number: 4077.0040

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L10364-004	ACS-PUMPTEST- 0 MIN (START)	Benzene	210	1.0	GroundH2O	ug/L	
		Bromodichloromethane	< 1.0	1.0	GroundH2O	ug/L	
		Bromoform	< 1.0	1.0	GroundH2O	ug/L	
		Bromomethane	< 2.0	2.0	GroundH2O	ug/L	
		Carbon tetrachloride	< 1.0	1.0	GroundH2O	ug/L	
		Chlorobenzene	< 1.0	1.0	GroundH2O	ug/L	
		Chlorodibromomethane	< 1.0	1.0	GroundH2O	ug/L	A17
		Chloroethane	650	2.0	GroundH2O	ug/L	
		2-Chloroethyl vinyl ether	< 10	10	GroundH2O	ug/L	A17
		Chloroform	< 50	1.0	GroundH2O	ug/L	A2, A4
		Chloromethane	< 2.0	2.0	GroundH2O	ug/L	
		1,2-Dichlorobenzene	< 1.0	1.0	GroundH2O	ug/L	
		1,3-Dichlorobenzene	< 1.0	1.0	GroundH2O	ug/L	
		1,4-Dichlorobenzene	< 1.0	1.0	GroundH2O	ug/L	
		1,1-Dichloroethane	1100	1.0	GroundH2O	ug/L	
		1,2-Dichloroethane	11	1.0	GroundH2O	ug/L	
		1,1-Dichloroethene	2.3	1.0	GroundH2O	ug/L	
		cis-1,2-Dichloroethene	1600	1.0	GroundH2O	ug/L	
		trans-1,2-Dichloroethene	< 1.0	1.0	GroundH2O	ug/L	
		1,2-Dichloropropane	1.5	1.0	GroundH2O	ug/L	
		cis-1,3-Dichloropropene	< 1.0	1.0	GroundH2O	ug/L	
		trans-1,3-Dichloropropene	< 1.0	1.0	GroundH2O	ug/L	
		Ethylbenzene	< 1.0	1.0	GroundH2O	ug/L	
		Methylene chloride	190	3.0	GroundH2O	ug/L	
		1,1,2,2-Tetrachloroethane	< 1.0	1.0	GroundH2O	ug/L	
		Tetrachloroethene	2.1	1.0	GroundH2O	ug/L	
		Toluene	1100	1.0	GroundH2O	ug/L	
		1,1,1-Trichloroethane	11	1.0	GroundH2O	ug/L	
		1,1,2-Trichloroethane	< 1.0	1.0	GroundH2O	ug/L	
		Trichloroethene	1.6	1.0	GroundH2O	ug/L	
		Trichlorofluoromethane	3.9	1.0	GroundH2O	ug/L	
		Vinyl chloride	370	1.0	GroundH2O	ug/L	
		m + p-Xylene	2.9	2.0	GroundH2O	ug/L	
		o-Xylene	< 1.0	1.0	GroundH2O	ug/L	
		Acrolein	< 5000	100	GroundH2O	ug/L	A2, G12
		Acrylonitrile	< 5000	100	GroundH2O	ug/L	A2, G12

Sample Date: 20-MAR-95
Analysis Date: 29, 30, 31-MAR-95

Chk'd: BSK App'd: CAW
Date App'd: 4-7-95

WI Lab Certification ID#: 113138300

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VOLATILE ORGANIC REPORT WITH ACROLEIN, ACRYLONITRE
ACS
GRIFFITH IN
Project Number: 4077.0040

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L10364-005	ACS-PUMPTEST-10 MIN	Benzene	< 1.0	1.0	GroundH2O	ug/L	
		Bromodichloromethane	< 1.0	1.0	GroundH2O	ug/L	
		Bromoform	< 1.0	1.0	GroundH2O	ug/L	
		Bromomethane	< 2.0	2.0	GroundH2O	ug/L	
		Carbon tetrachloride	< 1.0	1.0	GroundH2O	ug/L	
		Chlorobenzene	< 1.0	1.0	GroundH2O	ug/L	
		Chlorodibromomethane	< 1.0	1.0	GroundH2O	ug/L	A17
		Chloroethane	33	2.0	GroundH2O	ug/L	
		2-Chloroethyl vinyl ether	< 10	10	GroundH2O	ug/L	A17
		Chloroform	< 1.0	1.0	GroundH2O	ug/L	
		Chloromethane	3.1	2.0	GroundH2O	ug/L	A17
		1,2-Dichlorobenzene	< 1.0	1.0	GroundH2O	ug/L	
		1,3-Dichlorobenzene	< 1.0	1.0	GroundH2O	ug/L	
		1,4-Dichlorobenzene	< 1.0	1.0	GroundH2O	ug/L	
		1,1-Dichloroethane	50	1.0	GroundH2O	ug/L	
		1,2-Dichloroethane	< 1.0	1.0	GroundH2O	ug/L	
		1,1-Dichloroethene	< 1.0	1.0	GroundH2O	ug/L	
		cis-1,2-Dichloroethene	71	1.0	GroundH2O	ug/L	
		trans-1,2-Dichloroethene	2.6	1.0	GroundH2O	ug/L	
		1,2-Dichloropropane	< 1.0	1.0	GroundH2O	ug/L	
		cis-1,3-Dichloropropene	< 1.0	1.0	GroundH2O	ug/L	
		trans-1,3-Dichloropropene	< 1.0	1.0	GroundH2O	ug/L	
		Ethylbenzene	3.0	1.0	GroundH2O	ug/L	
		Methylene chloride	4.4	3.0	GroundH2O	ug/L	
		1,1,2,2-Tetrachloroethane	< 1.0	1.0	GroundH2O	ug/L	
		Tetrachloroethene	< 1.0	1.0	GroundH2O	ug/L	
		Toluene	190	1.0	GroundH2O	ug/L	
		1,1,1-Trichloroethane	< 1.0	1.0	GroundH2O	ug/L	
		1,1,2-Trichloroethane	< 1.0	1.0	GroundH2O	ug/L	
		Trichloroethene	< 1.0	1.0	GroundH2O	ug/L	
		Trichlorofluoromethane	< 1.0	1.0	GroundH2O	ug/L	
		Vinyl chloride	16	1.0	GroundH2O	ug/L	
		m + p-Xylene	3.4	2.0	GroundH2O	ug/L	
		o-Xylene	< 1.0	1.0	GroundH2O	ug/L	
		Acrolein	< 100	100	GroundH2O	ug/L	G12
		Acrylonitrile	< 100	100	GroundH2O	ug/L	G12

Sample Date: 20-MAR-95
Analysis Date: 29, 31-MAR-95

Chk'd: RSIC App'd: CAW
Date App'd: 4-7-95

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ACS
GRIFFITH IN
Project Number: 4077.0040

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L10364-006	ACS-PUMPTEST-TB	Benzene	< 1.0	1.0	GroundH2O	ug/L	
		Bromodichloromethane	< 1.0	1.0	GroundH2O	ug/L	
		Bromoform	< 1.0	1.0	GroundH2O	ug/L	
		Bromomethane	< 2.0	2.0	GroundH2O	ug/L	
		Carbon tetrachloride	< 1.0	1.0	GroundH2O	ug/L	
		Chlorobenzene	< 1.0	1.0	GroundH2O	ug/L	
		Chlorodibromomethane	< 1.0	1.0	GroundH2O	ug/L	A17
		Chloroethane	< 2.0	2.0	GroundH2O	ug/L	
		2-Chloroethyl vinyl ether	< 10	10	GroundH2O	ug/L	A17
		Chloroform	< 1.0	1.0	GroundH2O	ug/L	
		Chloromethane	< 2.0	2.0	GroundH2O	ug/L	
		1,2-Dichlorobenzene	< 1.0	1.0	GroundH2O	ug/L	
		1,3-Dichlorobenzene	< 1.0	1.0	GroundH2O	ug/L	
		1,4-Dichlorobenzene	< 1.0	1.0	GroundH2O	ug/L	
		1,1-Dichloroethane	< 1.0	1.0	GroundH2O	ug/L	
		1,2-Dichloroethane	< 1.0	1.0	GroundH2O	ug/L	
		1,1-Dichloroethene	< 1.0	1.0	GroundH2O	ug/L	
		cis-1,2-Dichloroethene	< 1.0	1.0	GroundH2O	ug/L	
		trans-1,2-Dichloroethene	< 1.0	1.0	GroundH2O	ug/L	
		1,2-Dichloropropane	< 1.0	1.0	GroundH2O	ug/L	
		cis-1,3-Dichloropropene	< 1.0	1.0	GroundH2O	ug/L	
		trans-1,3-Dichloropropene	< 1.0	1.0	GroundH2O	ug/L	
		Ethylbenzene	< 1.0	1.0	GroundH2O	ug/L	
		Methylene chloride	< 3.0	3.0	GroundH2O	ug/L	
		1,1,2,2-Tetrachloroethane	< 1.0	1.0	GroundH2O	ug/L	
		Tetrachloroethene	< 1.0	1.0	GroundH2O	ug/L	
		Toluene	< 1.0	1.0	GroundH2O	ug/L	
		1,1,1-Trichloroethane	< 1.0	1.0	GroundH2O	ug/L	
		1,1,2-Trichloroethane	< 1.0	1.0	GroundH2O	ug/L	
		Trichloroethene	< 1.0	1.0	GroundH2O	ug/L	
		Trichlorofluoromethane	< 1.0	1.0	GroundH2O	ug/L	
		Vinyl chloride	< 1.0	1.0	GroundH2O	ug/L	
		m + p-Xylene	< 2.0	2.0	GroundH2O	ug/L	
		o-Xylene	< 1.0	1.0	GroundH2O	ug/L	
		Acrolein	< 100	100	GroundH2O	ug/L	G12
		Acrylonitrile	< 100	100	GroundH2O	ug/L	G12

Sample Date: 20-MAR-95
Analysis Date: 29, 31-MAR-95

Chk'd: DSK App'd: CAW
Date App'd: 4.7.95

WI Lab Certification ID#: 113138300

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METHOD REFERENCES

Analytes	Aqueous	Non-Aqueous
Acidity	305.2	-
Alkalinity, Total	310.1 / 310.2	-
Alkalinity, Phenolphthalein	SM2320	-
Alkalinity, Bicarbonate	SM2320	-
Alkalinity, Carbonate	SM2320	-
BOD-5 day	SM5210,4500-0	-
Carbon, Percent Organic	-	29-3.5.3
Carbon, Total Organic (TOC)	415.1	-
Chloride	325.2	-
Chlorine, Residual	330.3	-
Chromium, Hexavalent	SM3500D	-
COD	410.4	-
Cyanide, Total	335.3	9012
Cyanide, Amenable	335.1	9012
Cyanide, Reactive	SW7.3	SW7.3
Density	SM2710F	SM2710F
Flashpoint, Closed Cup	SW1010	SW1010
Flashpoint, Open Cup	ASTMD4206	ASTMD4206
Fluoride	340.2	-
Hardness, Total	130.1	-
Nitrogen, Ammonia	350.2	350.2
Nitrogen, Nitrate	353.2	-
Nitrogen, Nitrite	353.2	-
Nitrogen, Nitrate + Nitrite	353.2	-
Nitrogen, Total Kjeldahl (TKN)	351.3	351.3
Nitrogen, Total Organic (TON)	350.2 & 351.3	350.2 & 351.3
Oil & grease	413.1	9071
Oil & grease (Non-polar)	5520F	-
Paint Filter Test	9095	9095
pH	150.1	9045
Phenol, Total	420.2	9066
Phosphorus, Total	365.1	365.1
Phosphorus, Ortho	365.2	-
Solids, Total	160.3	160.3
Solids, Total Dissolved	160.1	-
Solids, Total Suspended	160.2	-
Solids, Total Volatile	160.4	-
Solids, Total Volatile Suspended	160.4	-
Specific Conductance	120.1	-
Specific Weight	SM2710F	SM2710F
Sulfate	375.2	-
Sulfide, Total	376.1	9030
Sulfide, Reactive	SW7.3	SW7.3
Sulfite	377.1	-
Turbidity	180.1	-
TRPH	418.1 & 9073	418.1 & 9073

SW846, "Test Methods for Evaluating Solid Waste", 3rd Ed., December 1987.
EPA-600, "Methods for Chemical Analysis of Water and Wastes", March 1984.
Standard Methods for the Examination of Water and Wastewater", 17th Edition, 1989.
ASTM, Annual Book of American Society for Testing and Materials Standards, 1983, Volume 6.01.
Methods for Soil Analysis, 2nd Ed.

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METHOD REFERENCES

Compounds	Soil/Groundwater	Wastewater
Alcohol	8015*	8015*
BEXT	8020***	602
DRO	Modified DRO	Modified DRO
GRO	Modified GRO***	Modified GRO
Herbicides	8150	8150
Pesticides	8080	608
Pesticide/PCBs	8080	608
PCBs	8080**	608
PCBs	8080****	608
PCP Screen	8040****	8040****
PNA (GC/MS)	8270	8270
PNA (HPLC)	8310	8310
PVOCs	8020***	8020
SVOCs	8270	8270
TPH	D-3328-78*	D-3328-78*
TRPH	418.1 & 9073	418.1 & 9073
VOCs	8021	8021
VOCs	8010/8020***	601/602
Solids, Total	160.3	160.3

SW846, "Test Methods for Evaluating Solid Waste", 3rd Ed., December 1987.

EPA-600, "Methods for Organic Chemical Analysis of Water and Wastes", March, 1984.

ASTM, "Annual Book of ASTM Standards", 1990.

Wisconsin DNR Modified 9073 TRPH, PUBL-SW-140, Wisconsin DNR, April 1992.

Wisconsin DNR Modified DRO, PUBL-SW-141, Wisconsin DNR, July 1993.

Wisconsin DNR Modified GRO, PUBL-SW-140, Wisconsin DNR, July 1993.

* With Modifications
** With Modfications for Oil Matrix
*** With Modfications for Soil Gas Matrix
**** With Modifications for Wipe Matrix

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Project Number: 4077.0040

Sample #	Description	Test	Result	Reporting Limit	Matrix	Units	Sample Date	Analysis Date
L10376-001	ACS-PUMPTEST-10 MIN	Alkalinity, Total	474	10	GroundH2O	mg/L	20-MAR-95	29-MAR-95
		Antimony	< 0.002	0.002	GroundH2O	mg/L	20-MAR-95	04-APR-95
		Arsenic	0.007	0.001	GroundH2O	mg/L	20-MAR-95	30-MAR-95
		Beryllium	< 0.005	0.005	GroundH2O	mg/L	20-MAR-95	30-MAR-95
		Cadmium	0.010	0.005	GroundH2O	mg/L	20-MAR-95	30-MAR-95
		Calcium	204	1.00	GroundH2O	mg/L	20-MAR-95	30-MAR-95
		Chemical Oxygen Demand	125	20	GroundH2O	mg/L	20-MAR-95	31-MAR-95
		Chloride	13	2	GroundH2O	mg/L	20-MAR-95	28-MAR-95
		Chromium, Total	< 0.01	0.01	GroundH2O	mg/L	20-MAR-95	30-MAR-95
		Copper	0.04	0.01	GroundH2O	mg/L	20-MAR-95	30-MAR-95
		Hardness, Total	720	10	GroundH2O	mg/L	20-MAR-95	25-MAR-95
		Iron	19.0	0.02	GroundH2O	mg/L	20-MAR-95	30-MAR-95
		Lead	0.0161	0.0015	GroundH2O	mg/L	20-MAR-95	30-MAR-95
		Magnesium	42.0	1.00	GroundH2O	mg/L	20-MAR-95	30-MAR-95
		Manganese	1.13	0.01	GroundH2O	mg/L	20-MAR-95	30-MAR-95
		Mercury	< 0.0002	0.0002	GroundH2O	mg/L	20-MAR-95	29-MAR-95
		Nickel	< 0.02	0.02	GroundH2O	mg/L	20-MAR-95	30-MAR-95
		Nitrogen, Total Kjeldahl	8.29	0.10	GroundH2O	mg/L	20-MAR-95	31-MAR-95
		Oil and Grease	1	1	GroundH2O	mg/L	20-MAR-95	30-MAR-95
		Phosphorus, Total	0.23	0.02	GroundH2O	mg/L	20-MAR-95	31-MAR-95
		Potassium	5.65	0.10	GroundH2O	mg/L	20-MAR-95	06-APR-95
		Selenium	< 0.002	0.002	GroundH2O	mg/L	20-MAR-95	30-MAR-95
		Silver	0.01	0.01	GroundH2O	mg/L	20-MAR-95	30-MAR-95
		Solids, Total Dissolved	874	20	GroundH2O	mg/L	20-MAR-95	27-MAR-95
		Solids, Total Suspended	284	2	GroundH2O	mg/L	20-MAR-95	24-MAR-95
		Sulfate	284	10	GroundH2O	mg/L	20-MAR-95	27-MAR-95
		Thallium	< 0.001	0.001	GroundH2O	mg/L	20-MAR-95	03-APR-95
		Zinc	0.12	0.01	GroundH2O	mg/L	20-MAR-95	30-MAR-95

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Sample #	Description	Test	Result	Reporting Limit	Matrix	Units	Sample Date	Analysis Date
L10376-002	ACS-PUMPTEST-100 MIN	Alkalinity, Total	431	10	GroundH2O	mg/L	20-MAR-95	29-MAR-95
		Antimony	< 0.002	0.002	GroundH2O	mg/L	20-MAR-95	04-APR-95
		Arsenic	0.004	0.001	GroundH2O	mg/L	20-MAR-95	30-MAR-95
		Beryllium	< 0.005	0.005	GroundH2O	mg/L	20-MAR-95	30-MAR-95
		Cadmium	< 0.005	0.005	GroundH2O	mg/L	20-MAR-95	30-MAR-95
		Calcium	187	1.00	GroundH2O	mg/L	20-MAR-95	30-MAR-95
		Chemical Oxygen Demand	97	20	GroundH2O	mg/L	20-MAR-95	31-MAR-95
		Chloride	15	2	GroundH2O	mg/L	20-MAR-95	28-MAR-95
		Chromium, Total	< 0.01	0.01	GroundH2O	mg/L	20-MAR-95	30-MAR-95
		Copper	< 0.01	0.01	GroundH2O	mg/L	20-MAR-95	30-MAR-95
		Hardness, Total	673	10	GroundH2O	mg/L	20-MAR-95	25-MAR-95
		Iron	8.08	0.02	GroundH2O	mg/L	20-MAR-95	30-MAR-95
		Lead	0.0041	0.0015	GroundH2O	mg/L	20-MAR-95	30-MAR-95
		Magnesium	32.3	1.00	GroundH2O	mg/L	20-MAR-95	30-MAR-95
		Manganese	0.86	0.01	GroundH2O	mg/L	20-MAR-95	30-MAR-95
		Mercury	< 0.0002	0.0002	GroundH2O	mg/L	20-MAR-95	29-MAR-95
		Nickel	< 0.02	0.02	GroundH2O	mg/L	20-MAR-95	30-MAR-95
		Nitrogen, Total Kjeldahl	8.56	0.10	GroundH2O	mg/L	20-MAR-95	31-MAR-95
		Oil and Grease	1	1	GroundH2O	mg/L	20-MAR-95	30-MAR-95
		Phosphorus, Total	0.06	0.02	GroundH2O	mg/L	20-MAR-95	31-MAR-95
		Potassium	4.91	0.10	GroundH2O	mg/L	20-MAR-95	06-APR-95
		Selenium	< 0.002	0.002	GroundH2O	mg/L	20-MAR-95	30-MAR-95
		Silver	0.01	0.01	GroundH2O	mg/L	20-MAR-95	30-MAR-95
		Solids, Total Dissolved	884	20	GroundH2O	mg/L	20-MAR-95	27-MAR-95
		Solids, Total Suspended	54	2	GroundH2O	mg/L	20-MAR-95	24-MAR-95
		Sulfate	322	10	GroundH2O	mg/L	20-MAR-95	27-MAR-95
		Thallium	< 0.001	0.001	GroundH2O	mg/L	20-MAR-95	03-APR-95
		Zinc	0.05	0.01	GroundH2O	mg/L	20-MAR-95	30-MAR-95

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Sample #	Description	Test	Result	Reporting Limit	Matrix	Units	Sample Date	Analysis Date
L10376-003	ACS-PUMPTEST-1440 MIN	Alkalinity, Total	461	10	GroundH20	mg/L	21-MAR-95	29-MAR-95
		Antimony	< 0.002	0.002	GroundH20	mg/L	21-MAR-95	04-APR-95
		Arsenic	0.004	0.001	GroundH20	mg/L	21-MAR-95	30-MAR-95
		Beryllium	< 0.005	0.005	GroundH20	mg/L	21-MAR-95	30-MAR-95
		Cadmium	< 0.005	0.005	GroundH20	mg/L	21-MAR-95	30-MAR-95
		Calcium	172	1.00	GroundH20	mg/L	21-MAR-95	30-MAR-95
		Chemical Oxygen Demand	111	20	GroundH20	mg/L	21-MAR-95	31-MAR-95
		Chloride	56	2	GroundH20	mg/L	21-MAR-95	28-MAR-95
		Chromium, Total	< 0.01	0.01	GroundH20	mg/L	21-MAR-95	30-MAR-95
		Copper	< 0.01	0.01	GroundH20	mg/L	21-MAR-95	30-MAR-95
		Hardness, Total	617	10	GroundH20	mg/L	21-MAR-95	25-MAR-95
		Iron	13.8	0.02	GroundH20	mg/L	21-MAR-95	30-MAR-95
		Lead	0.0018	0.0015	GroundH20	mg/L	21-MAR-95	30-MAR-95
		Magnesium	30.6	1.00	GroundH20	mg/L	21-MAR-95	30-MAR-95
		Manganese	0.64	0.01	GroundH20	mg/L	21-MAR-95	30-MAR-95
		Mercury	< 0.0002	0.0002	GroundH20	mg/L	21-MAR-95	29-MAR-95
		Nickel	< 0.02	0.02	GroundH20	mg/L	21-MAR-95	30-MAR-95
		Nitrogen, Total Kjeldahl	10.7	0.10	GroundH20	mg/L	21-MAR-95	31-MAR-95
		Oil and Grease	< 1	1	GroundH20	mg/L	21-MAR-95	30-MAR-95
		Phosphorus, Total	0.10	0.02	GroundH20	mg/L	21-MAR-95	31-MAR-95
		Potassium	8.06	0.10	GroundH20	mg/L	21-MAR-95	06-APR-95
		Selenium	< 0.002	0.002	GroundH20	mg/L	21-MAR-95	30-MAR-95
		Silver	< 0.01	0.01	GroundH20	mg/L	21-MAR-95	30-MAR-95
		Solids, Total Dissolved	792	20	GroundH20	mg/L	21-MAR-95	27-MAR-95
		Solids, Total Suspended	34	2	GroundH20	mg/L	21-MAR-95	24-MAR-95
		Sulfate	197	10	GroundH20	mg/L	21-MAR-95	27-MAR-95
		Thallium	< 0.001	0.001	GroundH20	mg/L	21-MAR-95	03-APR-95
		Zinc	0.02	0.01	GroundH20	mg/L	21-MAR-95	30-MAR-95
L10376-004	ACS-PUMPTEST-0 MIN	Solids, Total Dissolved	862	20	GroundH20	mg/L	20-MAR-95	27-MAR-95
		Solids, Total Suspended	224	2	GroundH20	mg/L	20-MAR-95	24-MAR-95
L10376-005	ACS-PUMPTEST-1000 MIN	Solids, Total Suspended	29	2	GroundH20	mg/L	21-MAR-95	24-MAR-95

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Footnotes

Sample #	Test	Footnote
L10376-005	Solids, Total Dissolved	Analysis not performed due to insufficient volume.

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Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L10376-001	ACS-PUMPTEST-10 MIN	n-Nitrosodimethylamine	< 56	50	GroundH20	ug/L	A1
		Phenol	< 11	10	GroundH20	ug/L	A1
		Bis(2-Chloroethyl)ether	< 11	10	GroundH20	ug/L	A1
		2-Chlorophenol	< 11	10	GroundH20	ug/L	A1
		1,3-Dichlorobenzene	< 11	10	GroundH20	ug/L	A1
		1,4-Dichlorobenzene	< 11	10	GroundH20	ug/L	A1
		1,2-Dichlorobenzene	< 11	10	GroundH20	ug/L	A1
		Bis(2-chloroisopropyl)ether	< 11	10	GroundH20	ug/L	A1
		n-Nitroso-di-n-propylamine	< 11	10	GroundH20	ug/L	A1
		Hexachloroethane	< 11	10	GroundH20	ug/L	A1
		Nitrobenzene	< 11	10	GroundH20	ug/L	A1
		Isophorone	< 11	10	GroundH20	ug/L	A1
		2-Nitrophenol	< 11	10	GroundH20	ug/L	A1
		2,4-Dimethylphenol	< 11	10	GroundH20	ug/L	A1
		Bis(2-chloroethoxy)methane	< 11	10	GroundH20	ug/L	A1
		2,4-Dichlorophenol	< 11	10	GroundH20	ug/L	A1
		1,2,4-Trichlorobenzene	< 11	10	GroundH20	ug/L	A1
		Naphthalene	< 11	10	GroundH20	ug/L	A1
		Hexachlorobutadiene	< 11	10	GroundH20	ug/L	A1
		4-Chloro-3-methylphenol	< 22	20	GroundH20	ug/L	A1
		Hexachlorocyclopentadiene	< 22	20	GroundH20	ug/L	A1
		2,4,6-Trichlorophenol	< 11	10	GroundH20	ug/L	A1
		2-Chloronaphthalene	< 11	10	GroundH20	ug/L	A1
		Dimethyl phthalate	< 11	10	GroundH20	ug/L	A1
		2,6-Dinitrotoluene	< 11	10	GroundH20	ug/L	A1
		Acenaphthylene	< 11	10	GroundH20	ug/L	A1
		Acenaphthene	< 11	10	GroundH20	ug/L	A1
		2,4-Dinitrophenol	< 56	50	GroundH20	ug/L	A1
		4-Nitrophenol	< 56	50	GroundH20	ug/L	A1
		2,4-Dinitrotoluene	< 11	10	GroundH20	ug/L	A1
		Diethyl phthalate	< 11	10	GroundH20	ug/L	A1
		4-Chlorophenyl phenyl ether	< 11	10	GroundH20	ug/L	A1
		Fluorene	< 11	10	GroundH20	ug/L	A1
		4,6-Dinitro-2-methylphenol	< 56	50	GroundH20	ug/L	A1
		1,2-Diphenylhydrazine	< 11	10	GroundH20	ug/L	A1
		n-Nitrosodiphenylamine	< 11	10	GroundH20	ug/L	A1, G15
		Hexachlorobenzene	< 11	10	GroundH20	ug/L	A1
		4-Bromophenyl phenyl ether	< 11	10	GroundH20	ug/L	A1
		Pentachlorophenol	< 56	50	GroundH20	ug/L	A1
		Phenanthrene	< 11	10	GroundH20	ug/L	A1

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ACS
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Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L10376-001	ACS-PUMPTEST-10 MIN	Anthracene	< 11	10	GroundH2O	ug/L	A1
		Di-n-butylphthalate	< 11	10	GroundH2O	ug/L	A1
		Fluoranthene	< 11	10	GroundH2O	ug/L	A1
		Benzidine	< 56	50	GroundH2O	ug/L	A1
		Pyrene	< 11	10	GroundH2O	ug/L	A1
		Butylbenzylphthalate	< 11	10	GroundH2O	ug/L	A1
		3,3-Dichlorobenzidine	< 22	20	GroundH2O	ug/L	A1
		Chrysene	< 11	10	GroundH2O	ug/L	A1
		Benzo(a)anthracene	< 11	10	GroundH2O	ug/L	A1
		Bis(2-ethylhexyl)phthalate	< 11	10	GroundH2O	ug/L	A1
		Di-n-octyl phthalate	< 11	10	GroundH2O	ug/L	A1
		Benzo(b)fluoranthene	< 11	10	GroundH2O	ug/L	A1
		Benzo(k)fluoranthene	< 11	10	GroundH2O	ug/L	A1
		Benzo(a)pyrene	< 11	10	GroundH2O	ug/L	A1
		Indeno(1,2,3-cd)pyrene	< 11	10	GroundH2O	ug/L	A1
		Dibenzo(a,h)anthracene	< 11	10	GroundH2O	ug/L	A1
		Benzo(g,h,i)perylene	< 11	10	GroundH2O	ug/L	A1

Sample Date: 20-MAR-95
Extract Date: 27-MAR-95
Analysis Date: 31-MAR-95

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SEMIVOLATILE ORGANIC REPORT
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Project Number: 4077.0040

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L10376-002	ACS-PUMPTEST-100 MIN	n-Nitrosodimethylamine	< 56	50	GroundH2O	ug/L	A1
		Phenol	< 11	10	GroundH2O	ug/L	A1
		Bis(2-Chloroethyl)ether	< 11	10	GroundH2O	ug/L	A1
		2-Chlorophenol	< 11	10	GroundH2O	ug/L	A1
		1,3-Dichlorobenzene	< 11	10	GroundH2O	ug/L	A1
		1,4-Dichlorobenzene	< 11	10	GroundH2O	ug/L	A1
		1,2-Dichlorobenzene	< 11	10	GroundH2O	ug/L	A1
		Bis(2-chloroisopropyl)ether	< 11	10	GroundH2O	ug/L	A1
		n-Nitroso-di-n-propylamine	< 11	10	GroundH2O	ug/L	A1
		Hexachloroethane	< 11	10	GroundH2O	ug/L	A1
		Nitrobenzene	< 11	10	GroundH2O	ug/L	A1
		Isophorone	< 11	10	GroundH2O	ug/L	A1
		2-Nitrophenol	< 11	10	GroundH2O	ug/L	A1
		2,4-Dimethylphenol	12	10	GroundH2O	ug/L	
		Bis(2-chloroethoxy)methane	< 11	10	GroundH2O	ug/L	A1
		2,4-Dichlorophenol	< 11	10	GroundH2O	ug/L	A1
		1,2,4-Trichlorobenzene	< 11	10	GroundH2O	ug/L	A1
		Naphthalene	< 11	10	GroundH2O	ug/L	A1
		Hexachlorobutadiene	< 11	10	GroundH2O	ug/L	A1
		4-Chloro-3-methylphenol	< 22	20	GroundH2O	ug/L	A1
		Hexachlorocyclopentadiene	< 22	20	GroundH2O	ug/L	A1
		2,4,6-Trichlorophenol	< 11	10	GroundH2O	ug/L	A1
		2-Chloronaphthalene	< 11	10	GroundH2O	ug/L	A1
		Dimethyl phthalate	< 11	10	GroundH2O	ug/L	A1
		2,6-Dinitrotoluene	< 11	10	GroundH2O	ug/L	A1
		Acenaphthylene	< 11	10	GroundH2O	ug/L	A1
		Acenaphthene	< 11	10	GroundH2O	ug/L	A1
		2,4-Dinitrophenol	< 56	50	GroundH2O	ug/L	A1
		4-Nitrophenol	< 56	50	GroundH2O	ug/L	A1
		2,4-Dinitrotoluene	< 11	10	GroundH2O	ug/L	A1
		Diethyl phthalate	< 11	10	GroundH2O	ug/L	A1
		4-Chlorophenyl phenyl ether	< 11	10	GroundH2O	ug/L	A1
		Fluorene	< 11	10	GroundH2O	ug/L	A1
		4,6-Dinitro-2-methylphenol	< 56	50	GroundH2O	ug/L	A1
		1,2-Diphenylhydrazine	< 11	10	GroundH2O	ug/L	A1
		n-Nitrosodiphenylamine	< 11	10	GroundH2O	ug/L	A1, G15
		Hexachlorobenzene	< 11	10	GroundH2O	ug/L	A1
		4-Bromophenyl phenyl ether	< 11	10	GroundH2O	ug/L	A1
		Pentachlorophenol	< 56	50	GroundH2O	ug/L	A1
		Phenanthrene	< 11	10	GroundH2O	ug/L	A1

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Date App'd 4/10/95

WI Lab Certification ID#: 113138300

MONTGOMERY WATSON
Analytical Testing Services

University Research Park
One Science Court
Madison, Wisconsin 53711
Tel: 608 231 4747 • Fax: 608 231 4777

SEMIVOLATILE ORGANIC REPORT
ACS
GRIFFITH IN
Project Number: 4077.0040

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L10376-002	ACS-PUMPTEST-100 MIN	Anthracene	< 11	10	GroundH2O	ug/L	A1
		Di-n-butylphthalate	< 11	10	GroundH2O	ug/L	A1
		Fluoranthene	< 11	10	GroundH2O	ug/L	A1
		Benzidine	< 56	50	GroundH2O	ug/L	A1
		Pyrene	< 11	10	GroundH2O	ug/L	A1
		Butylbenzylphthalate	< 11	10	GroundH2O	ug/L	A1
		3,3-Dichlorobenzidine	< 22	20	GroundH2O	ug/L	A1
		Chrysene	< 11	10	GroundH2O	ug/L	A1
		Benzo(a)anthracene	< 11	10	GroundH2O	ug/L	A1
		Bis(2-ethylhexyl)phthalate	< 11	10	GroundH2O	ug/L	A1
		Di-n-octyl phthalate	< 11	10	GroundH2O	ug/L	A1
		Benzo(b)fluoranthene	< 11	10	GroundH2O	ug/L	A1
		Benzo(k)fluoranthene	< 11	10	GroundH2O	ug/L	A1
		Benzo(a)pyrene	< 11	10	GroundH2O	ug/L	A1
		Indeno(1,2,3-cd)pyrene	< 11	10	GroundH2O	ug/L	A1
		Dibenzo(a,h)anthracene	< 11	10	GroundH2O	ug/L	A1
		Benzo(g,h,i)perylene	< 11	10	GroundH2O	ug/L	A1

Sample Date: 20-MAR-95
Extract Date: 27-MAR-95
Analysis Date: 31-MAR-95

Chk'd: App'd:
Date App'd: 4/10/95

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ACS
GRIFFITH IN
Project Number: 4077.0040

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L10376-003	ACS-PUMPTEST-1440 MIN	n-Nitrosodimethylamine	< 53	50	GroundH20	ug/L	A1
		Phenol	< 11	10	GroundH20	ug/L	A1
		Bis(2-Chloroethyl)ether	< 11	10	GroundH20	ug/L	A1
		2-Chlorophenol	< 11	10	GroundH20	ug/L	A1
		1,3-Dichlorobenzene	< 11	10	GroundH20	ug/L	A1
		1,4-Dichlorobenzene	< 11	10	GroundH20	ug/L	A1
		1,2-Dichlorobenzene	< 11	10	GroundH20	ug/L	A1
		Bis(2-chloroisopropyl)ether	< 11	10	GroundH20	ug/L	A1
		n-Nitroso-di-n-propylamine	< 11	10	GroundH20	ug/L	A1
		Hexachloroethane	< 11	10	GroundH20	ug/L	A1
		Nitrobenzene	< 11	10	GroundH20	ug/L	A1
		Isophorone	< 11	10	GroundH20	ug/L	A1
		2-Nitrophenol	< 11	10	GroundH20	ug/L	A1
		2,4-Dimethylphenol	32	10	GroundH20	ug/L	
		Bis(2-chloroethoxy)methane	< 11	10	GroundH20	ug/L	A1
		2,4-Dichlorophenol	< 11	10	GroundH20	ug/L	A1
		1,2,4-Trichlorobenzene	< 11	10	GroundH20	ug/L	A1
		Naphthalene	< 11	10	GroundH20	ug/L	A1
		Hexachlorobutadiene	< 11	10	GroundH20	ug/L	A1
		4-Chloro-3-methylphenol	< 21	20	GroundH20	ug/L	A1
		Hexachlorocyclopentadiene	< 21	20	GroundH20	ug/L	A1
		2,4,6-Trichlorophenol	< 11	10	GroundH20	ug/L	A1
		2-Chloronaphthalene	< 11	10	GroundH20	ug/L	A1
		Dimethyl phthalate	< 11	10	GroundH20	ug/L	A1
		2,6-Dinitrotoluene	< 11	10	GroundH20	ug/L	A1
		Acenaphthylene	< 11	10	GroundH20	ug/L	A1
		Acenaphthene	< 11	10	GroundH20	ug/L	A1
		2,4-Dinitrophenol	< 53	50	GroundH20	ug/L	A1
		4-Nitrophenol	< 53	50	GroundH20	ug/L	A1
		2,4-Dinitrotoluene	< 11	10	GroundH20	ug/L	A1
		Diethyl phthalate	< 11	10	GroundH20	ug/L	A1
		4-Chlorophenyl phenyl ether	< 11	10	GroundH20	ug/L	A1
		Fluorene	< 11	10	GroundH20	ug/L	A1
		4,6-Dinitro-2-methylphenol	< 53	50	GroundH20	ug/L	A1
		1,2-Diphenylhydrazine	< 11	10	GroundH20	ug/L	A1
		n-Nitrosodiphenylamine	< 11	10	GroundH20	ug/L	A1, G15
		Hexachlorobenzene	< 11	10	GroundH20	ug/L	A1
		4-Bromophenyl phenyl ether	< 11	10	GroundH20	ug/L	A1
		Pentachlorophenol	< 53	50	GroundH20	ug/L	A1
		Phenanthrene	< 11	10	GroundH20	ug/L	A1

Chk'd: Kek App'd: Art
Date App'd: 4/10/95

WI Lab Certification ID#: 113138300

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SEMIVOLATILE ORGANIC REPORT
ACS
GRIFFITH IN
Project Number: 4077.0040

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L10376-003	ACS-PUMPTEST-1440 MIN	Anthracene	< 11	10	GroundH2O	ug/L	A1
		Di-n-butylphthalate	< 11	10	GroundH2O	ug/L	A1
		Fluoranthene	< 11	10	GroundH2O	ug/L	A1
		Benzidine	< 53	50	GroundH2O	ug/L	A1
		Pyrene	< 11	10	GroundH2O	ug/L	A1
		Butylbenzylphthalate	< 11	10	GroundH2O	ug/L	A1
		3,3-Dichlorobenzidine	< 21	20	GroundH2O	ug/L	A1
		Chrysene	< 11	10	GroundH2O	ug/L	A1
		Benzo(a)anthracene	< 11	10	GroundH2O	ug/L	A1
		Bis(2-ethylhexyl)phthalate	< 11	10	GroundH2O	ug/L	A1
		Di-n-octyl phthalate	< 11	10	GroundH2O	ug/L	A1
		Benzo(b)fluoranthene	< 11	10	GroundH2O	ug/L	A1
		Benzo(k)fluoranthene	< 11	10	GroundH2O	ug/L	A1
		Benzo(a)pyrene	< 11	10	GroundH2O	ug/L	A1
		Indeno(1,2,3-cd)pyrene	< 11	10	GroundH2O	ug/L	A1
		Dibenzo(a,h)anthracene	< 11	10	GroundH2O	ug/L	A1
		Benzo(g,h,i)perylene	< 11	10	GroundH2O	ug/L	A1

Sample Date: 21-MAR-95
Extract Date: 27-MAR-95
Analysis Date: 31-MAR-95

WI Lab Certification ID#: 113138300

Chk'd: Kak App'd: SMT
Date App'd: 4/10/95

RMT LABORATORIES - 744 HEARTLAND TRAIL - MADISON, WI - 53717-1934 - P.O. BOX 8923 - MADISON, WI - 53708-8923 - 608/831-4444 - 608/831-7530 FAX

PROJECT NAME: MONTGOMERY WATSON
PROJECT NUMBER: 91054.00
WI DNR LAB ID: 113138520

REPORT DATE: 04/03/95

INORGANIC ANALYSIS REPORT

ANALYTE: Total organic carbon as NPOC

		RESULT	EQL	CODE	UNITS
	ACS Pump Test 10min.				
SAMPLE	6754-001	24	0.25		mg/L
STATION ID	10376-001				
COLLECTION DATE	03/20/95				
	ACS Pump Test 100 min				
SAMPLE	6754-002	25	0.25		mg/L
STATION ID	10376-002				
COLLECTION DATE	03/20/95				
	ACS Pump Test 1440 min.				
SAMPLE	6754-003	35	0.25		mg/L
STATION ID	10376-003				
COLLECTION DATE	03/20/95				

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STANDARD REPORT FOOTNOTES

A1 Elevated quantitation limit due to low sample volume.

A2 Elevated quantitation limit necessary to overcome interference.

A4 Result should be considered estimated due to sample-related problems encountered during analysis.

A11 Sample received past recommended hold time.

A12 Analysis requested past recommended hold time.

A13 Initial analysis performed within hold time; confirmation analysis performed past recommended hold time. Results from repeat analysis are reported.

A14 Initial analysis performed within hold time; necessary dilution performed past recommended hold time. Results from repeat analysis are reported.

A15 Result should be considered estimated; analyte detected in method blank.

A17 Result should be considered estimated as indicated by method QC.

M3 Total analysis performed due to insufficient solid for TCLP extraction.

G1 Result should be considered estimated, concentration exceeds working calibration range.

G2 Elevated quantitation limit due to the concentration of petroleum hydrocarbons in the sample.

G3 Elevated quantitation limit due to the concentration of non-specific hydrocarbons in the sample.

G4 Analyte coelutes with _____; result calculated from calibration standards in a 1:1 ratio of these two compounds.

G5 Sample required extensive cleanup; Endrin Aldehyde is not recovered from these techniques.

G6 Petroleum-type odor detected from this sample.

G7 Elevated quantitation limit due to the concentration of PCBs in the sample.

G8 Result should be considered estimated due to coelution with an additional hydrocarbon product.

G9 Results are influenced by the presence of extraneous peaks which are not representative of petroleum hydrocarbon products.

G10 Presence of one or more unidentified peaks eluting earlier than the retention time window.

G11 Presence of one or more unidentified peaks eluting later than the retention time window.

G12 Result is estimated. The method used is a screening procedure for this compound.

G13 Measurement performed using test strips.

G15 n-Nitrosodiphenylamine decomposes in the GC inlet and cannot be separated from Diphenylamine

G16 Measurement upon receipt performed using test strips. Adjusted to pH <2.

G17 Results are influenced by the presence of extraneous peaks which are not representative of petroleum hydrocarbon products. Final results pending GC/MS confirmation.

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METHOD REFERENCES

Analytes	Aqueous	Non-Aqueous
Acidity	305.2	-
Alkalinity, Total	310.1 / 310.2	-
Alkalinity, Phenolphthalein	SM2320	-
Alkalinity, Bicarbonate	SM2320	-
Alkalinity, Carbonate	SM2320	-
BOD-5 day	SM5210,4500-0	-
Carbon, Percent Organic	-	29-3.5.3
Carbon, Total Organic (TOC)	415.1	-
Chloride	325.2	-
Chlorine, Residual	330.3	-
Chromium, Hexavalent	SM3500D	-
COD	410.4	-
Cyanide, Total	335.3	9012
Cyanide, Amenable	335.1	9012
Cyanide, Reactive	SW7.3	SW7.3
Density	SM2710F	SM2710F
Flashpoint, Closed Cup	SW1010	SW1010
Flashpoint, Open Cup	ASTMD4206	ASTMD4206
Fluoride	340.2	-
Hardness, Total	130.1	-
Nitrogen, Ammonia	350.2	350.2
Nitrogen, Nitrate	353.2	-
Nitrogen, Nitrite	353.2	-
Nitrogen, Nitrate + Nitrite	353.2	-
Nitrogen, Total Kjeldahl (TKN)	351.3	351.3
Nitrogen, Total Organic (TON)	350.2 & 351.3	350.2 & 351.3
Oil & grease	413.1	9071
Oil & grease (Polar)	413.1	9071
Oil & grease (Non-polar)	5520F	-
Paint Filter Test	9095	9095
pH	150.1	9045
Phenol, Total	420.2	9066
Phosphorus, Total	365.1	365.1
Phosphorus, Ortho	365.2	-
Solids, Total	160.3	160.3
Solids, Total Dissolved	160.1	-
Solids, Total Suspended	160.2	-
Solids, Total Volatile	160.4	-
Solids, Total Volatile Suspended	160.4	-
Specific Conductance	120.1	-
Specific Weight	SM2710F	SM2710F
Sulfate	375.2	-
Sulfide, Total	376.1	9030
Sulfide, Reactive	SW7.3	SW7.3
Sulfite	377.1	-
Turbidity	180.1	-
TRPH	418.1 & 9073	418.1 & 9073

SW846, "Test Methods for Evaluating Solid Waste", 3rd Ed., December 1987.
EPA-600, "Methods for Chemical Analysis of Water and Wastes", March 1984.
Standard Methods for the Examination of Water and Wastewater", 17th Edition, 1989.
ASTM, Annual Book of American Society for Testing and Materials Standards, 1983, Volume 6.01.
Methods for Soil Analysis, 2nd Ed.

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METHOD REFERENCES

	Soil/Groundwater				Wastewater			
Analytes	**ICP**	**Flame**	**Furnace**	**CV**	**ICP**	**Flame**	**Furnace**	**CV**
Aluminium	6010	7020	-	-	200.7	202.1	-	-
Antimony	6010	7040	7041	-	200.7	-	204.2	-
Arsenic	6010	-	7060	-	200.7	-	206.2	-
Barium	6010	7080	7081	-	200.7	208.1	208.2	-
Beryllium	6010	7090	7091	-	200.7	210.1	210.2	-
Boron	6010	-	-	-	200.7	-	-	-
Cadmium	6010	7130	7131	-	200.7	213.1	213.2	-
Calcium	6010	7140		-	200.7	215.1	-	-
Chromium, Total	6010	7190	7191	-	200.7	218.1	218.2	-
Cobalt	6010	7200	-	-	200.7	219.1	-	-
Copper	6010	7210	-	-	200.7	220.1	-	-
Iron	6010	7380	-	-	200.7	236.1	-	-
Lead	6010	7420	7421	-	200.7	239.1	239.2	-
Magnesium	6010	7450	-	-	200.7	242.1	-	-
Manganese	6010	7460	-	-	200.7	243.1	-	-
Mercury	-	-	-	7470/7471				245.1
Molybdenum	6010	7480	-	-	200.7	246.1	-	-
Nickel	6010	7520	-	-	200.7	249.1	-	-
Potassium	-	SM3500D	-	-	-	SM3500D	-	-
Selenium	6010	-	7740	-	200.7	-	270.2	-
Silver	6010	7760	7761	-	200.7	272.1	272.2	-
Sodium	6010	SM3500D	-	-	200.7	SM3500D	-	-
Strontium	6010	-	-	-	200.7	-	-	-
Thallium	6010	7840	7841	-	200.7	279.1	279.2	-
Tin	6010	-	-	-	200.7	-	-	-
Titanium	6010	-	-	-	200.7	-	-	-
Vanadium	6010	7910	7911	-	200.7	286.1	286.2	-
Zinc	6010	7950	-	-	200.7	289.1	-	-

SW846, "Test Methods for Evaluating Solid Waste", 3rd Ed., December 1987.

EPA-600, "Methods for Chemical Analysis of Water and Wastes", March 1984.

Standard Methods for the Examination of Water and Wastewater", 17th Edition, 1989.

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METHOD REFERENCES

Compounds	Soil/Groundwater	Wastewater
Alcohol	8015*	8015*
BEXT	8020***	602
DRO	Modified DRO	Modified DRO
GRO	Modified GRO***	Modified GRO
Herbicides	8150	8150
Pesticides	8080	608
Pesticide/PCBs	8080	608
PCBs	8080**	608
PCBs	8080****	608
PCP Screen	8040****	8040****
PNA (GC/MS)	8270	8270
PNA (HPLC)	8310	8310
PVOCs	8020***	8020
SVOCs	8270	8270
TPH	D-3328-78*	D-3328-78*
TRPH	418.1 & 9073	418.1 & 9073
VOCs	8021	8021
VOCs	8010/8020***	601/602
Solids, Total	160.3	160.3

SW846, "Test Methods for Evaluating Solid Waste", 3rd Ed., December 1987.

EPA-600, "Methods for Organic Chemical Analysis of Water and Wastes", March, 1984.

ASTM, "Annual Book of ASTM Standards", 1990.

Wisconsin DNR Modified 9073 TRPH, PUBL-SW-140, Wisconsin DNR, April 1992.

Wisconsin DNR Modified DRO, PUBL-SW-141, Wisconsin DNR, July 1993.

Wisconsin DNR Modified GRO, PUBL-SW-140, Wisconsin DNR, July 1993.

* With Modifications
** With Modfications for Oil Matrix
*** With Modfications for Soil Gas Matrix
**** With Modifications for Wipe Matrix

ACS SUPERFUND SITE
EXPLANATION FOR GEOPROBE SAMPLING NOTATION
SAMPLES COLLECTED: MARCH 16, 1995

Name of Sample	Sample Description
ACS-SCON-SITE-1	Sample collected and composited from geoprobe borings GP01 and GP02
ACS-SCON-SITE-2	Sample collected and composited from geoprobe borings GP03 and GP05
ACS-SCON-SITE-3	Sample collected and composited from geoprobe borings GP06 and GP07
ACS-SCOFF-SITE-4	Sample collected and composited from geoprobe borings GP08 and GP09
ACS-SCOFF-SITE-5	Sample collected and composited from geoprobe borings GP10 and GP11
ACS-SCOFF-SITE-6	Sample collected and composited from geoprobe borings GP13 and GP14

Abbreviations:
ACS = American Chemical Service
SC = Source Characterization
ON-SITE = On-site Source Characterization Area
OFF-SITE = Off-site Source Characterization Area

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INORGANIC REPORT
ACS
GRIFFITH IN
Project Number: 4077.0040

Sample #	Description	Test	Result	Reporting Limit	Matrix	Units	Sample Date	Analysis Date
L10345-001	ACS-SCON-SITE-1	Alkalinity, Total	443	10	GroundH2O	mg/L	16-MAR-95	29-MAR-95
		Antimony	0.006	0.002	GroundH2O	mg/L	16-MAR-95	29-MAR-95
		Arsenic	0.013	0.001	GroundH2O	mg/L	16-MAR-95	28-MAR-95
		Beryllium	< 0.005	0.005	GroundH2O	mg/L	16-MAR-95	28-MAR-95
		Cadmium	0.049	0.005	GroundH2O	mg/L	16-MAR-95	28-MAR-95
		Calcium	122	1.00	GroundH2O	mg/L	16-MAR-95	29-MAR-95
		Chemical Oxygen Demand	4320	20	GroundH2O	mg/L	16-MAR-95	28-MAR-95
		Chloride	189	2	GroundH2O	mg/L	16-MAR-95	28-MAR-95
		Chromium, Total	0.02	0.01	GroundH2O	mg/L	16-MAR-95	28-MAR-95
		Copper	0.05	0.01	GroundH2O	mg/L	16-MAR-95	28-MAR-95
		Hardness, Total	536	10	GroundH2O	mg/L	16-MAR-95	25-MAR-95
		Iron	193	0.02	GroundH2O	mg/L	16-MAR-95	29-MAR-95
		Lead	0.0590	0.0015	GroundH2O	mg/L	16-MAR-95	27-MAR-95
		Magnesium	47.0	1.00	GroundH2O	mg/L	16-MAR-95	29-MAR-95
		Mercury	0.0011	0.0002	GroundH2O	mg/L	16-MAR-95	29-MAR-95
		Nickel	< 0.20	0.02	GroundH2O	mg/L	16-MAR-95	28-MAR-95
		Nitrogen, Total Kjeldahl	38.3	0.10	GroundH2O	mg/L	16-MAR-95	28-MAR-95
		Oil and Grease	1670	1	GroundH2O	mg/L	16-MAR-95	23-MAR-95
		Phosphorus, Total	3.37	0.02	GroundH2O	mg/L	16-MAR-95	24-MAR-95
		Potassium	11.9	0.10	GroundH2O	mg/L	16-MAR-95	28-MAR-95
		Selenium	0.003	0.002	GroundH2O	mg/L	16-MAR-95	28-MAR-95
		Silver	< 0.01	0.01	GroundH2O	mg/L	16-MAR-95	28-MAR-95
		Sodium	30.0	2.00	GroundH2O	mg/L	16-MAR-95	29-MAR-95
		Solids, Total Dissolved	1060	20	GroundH2O	mg/L	16-MAR-95	23-MAR-95
		Solids, Total Suspended	27400	2	GroundH2O	mg/L	16-MAR-95	23-MAR-95
		Sulfate	25	10	GroundH2O	mg/L	16-MAR-95	27-MAR-95
		Thallium	0.003	0.001	GroundH2O	mg/L	16-MAR-95	24-MAR-95
		Zinc	0.43	0.01	GroundH2O	mg/L	16-MAR-95	28-MAR-95

Chk'd: Kat App'd: OCG
Date App'd: 4/13/95

WI Lab Certification ID#: 113138300

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INORGANIC REPORT
ACS
GRIFFITH IN
Project Number: 4077.0040

Sample #	Description	Test	Result	Reporting Limit	Matrix	Units	Sample Date	Analysis Date
L10345-002	ACS-SCON-SITE-2	Alkalinity, Total	731	10	GroundH20	mg/L	16-MAR-95	29-MAR-95
		Antimony	0.034	0.002	GroundH20	mg/L	16-MAR-95	29-MAR-95
		Arsenic	0.025	0.001	GroundH20	mg/L	16-MAR-95	28-MAR-95
		Beryllium	< 0.005	0.005	GroundH20	mg/L	16-MAR-95	28-MAR-95
		Cadmium	0.122	0.005	GroundH20	mg/L	16-MAR-95	28-MAR-95
		Calcium	189	1.00	GroundH20	mg/L	16-MAR-95	29-MAR-95
		Chemical Oxygen Demand	6540	20	GroundH20	mg/L	16-MAR-95	28-MAR-95
		Chloride	198	2	GroundH20	mg/L	16-MAR-95	28-MAR-95
		Chromium, Total	0.07	0.01	GroundH20	mg/L	16-MAR-95	28-MAR-95
		Copper	0.22	0.01	GroundH20	mg/L	16-MAR-95	28-MAR-95
		Hardness, Total	1090	10	GroundH20	mg/L	16-MAR-95	25-MAR-95
		Iron	522	0.02	GroundH20	mg/L	16-MAR-95	29-MAR-95
		Lead	0.435	0.0015	GroundH20	mg/L	16-MAR-95	27-MAR-95
		Magnesium	111	1.00	GroundH20	mg/L	16-MAR-95	29-MAR-95
		Mercury	0.0018	0.0002	GroundH20	mg/L	16-MAR-95	29-MAR-95
		Nickel	0.07	0.02	GroundH20	mg/L	16-MAR-95	28-MAR-95
		Nitrogen, Total Kjeldahl	33.5	0.10	GroundH20	mg/L	16-MAR-95	28-MAR-95
		Oil and Grease	500	1	GroundH20	mg/L	16-MAR-95	23-MAR-95
		Phosphorus, Total	2.49	0.02	GroundH20	mg/L	16-MAR-95	24-MAR-95
		Potassium	16.9	0.10	GroundH20	mg/L	16-MAR-95	28-MAR-95
		Selenium	< 0.002	0.002	GroundH20	mg/L	16-MAR-95	28-MAR-95
		Silver	< 0.01	0.01	GroundH20	mg/L	16-MAR-95	28-MAR-95
		Sodium	76.7	2.00	GroundH20	mg/L	16-MAR-95	29-MAR-95
		Solids, Total Dissolved	2360	20	GroundH20	mg/L	16-MAR-95	23-MAR-95
		Solids, Total Suspended	25300	2	GroundH20	mg/L	16-MAR-95	23-MAR-95
		Sulfate	177	10	GroundH20	mg/L	16-MAR-95	27-MAR-95
		Thallium	0.003	0.001	GroundH20	mg/L	16-MAR-95	24-MAR-95
		Zinc	3.61	0.01	GroundH20	mg/L	16-MAR-95	28-MAR-95

Chk'd: [illegible] App'd: [illegible]
Date App'd: 4/13/95

WI Lab Certification ID#: 113138300

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INORGANIC REPORT
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Project Number: 4077.0040

Sample #	Description	Test	Result	Reporting Limit	Matrix	Units	Sample Date	Analysis Date
L10345-003	ACS-SCON-SITE-3	Alkalinity, Total	245	10	GroundH2O	mg/L	16-MAR-95	29-MAR-95
		Antimony	0.003	0.002	GroundH2O	mg/L	16-MAR-95	29-MAR-95
		Arsenic	0.015	0.001	GroundH2O	mg/L	16-MAR-95	28-MAR-95
		Beryllium	< 0.005	0.005	GroundH2O	mg/L	16-MAR-95	28-MAR-95
		Cadmium	0.009	0.005	GroundH2O	mg/L	16-MAR-95	28-MAR-95
		Calcium	103	1.00	GroundH2O	mg/L	16-MAR-95	29-MAR-95
		Chemical Oxygen Demand	1410	20	GroundH2O	mg/L	16-MAR-95	24-MAR-95
		Chloride	50	2	GroundH2O	mg/L	16-MAR-95	28-MAR-95
		Chromium, Total	0.02	0.01	GroundH2O	mg/L	16-MAR-95	28-MAR-95
		Copper	0.45	0.01	GroundH2O	mg/L	16-MAR-95	28-MAR-95
		Hardness, Total	439	10	GroundH2O	mg/L	16-MAR-95	25-MAR-95
		Iron	23.5	0.02	GroundH2O	mg/L	16-MAR-95	29-MAR-95
		Lead	0.0326	0.0015	GroundH2O	mg/L	16-MAR-95	27-MAR-95
		Magnesium	33.1	1.00	GroundH2O	mg/L	16-MAR-95	29-MAR-95
		Mercury	0.0048	0.0002	GroundH2O	mg/L	16-MAR-95	29-MAR-95
		Nickel	< 0.02	0.02	GroundH2O	mg/L	16-MAR-95	28-MAR-95
		Nitrogen, Total Kjeldahl	9.42	0.10	GroundH2O	mg/L	16-MAR-95	28-MAR-95
		Oil and Grease	181	1	GroundH2O	mg/L	16-MAR-95	23-MAR-95
		Phosphorus, Total	0.80	0.02	GroundH2O	mg/L	16-MAR-95	24-MAR-95
		Potassium	5.48	0.10	GroundH2O	mg/L	16-MAR-95	28-MAR-95
		Selenium	0.003	0.002	GroundH2O	mg/L	16-MAR-95	28-MAR-95
		Silver	< 0.01	0.01	GroundH2O	mg/L	16-MAR-95	28-MAR-95
		Sodium	9.72	2.00	GroundH2O	mg/L	16-MAR-95	29-MAR-95
		Solids, Total Dissolved	564	20	GroundH2O	mg/L	16-MAR-95	23-MAR-95
		Solids, Total Suspended	23400	2	GroundH2O	mg/L	16-MAR-95	23-MAR-95
		Sulfate	128	10	GroundH2O	mg/L	16-MAR-95	27-MAR-95
		Thallium	< 0.001	0.001	GroundH2O	mg/L	16-MAR-95	24-MAR-95
		Zinc	0.14	0.01	GroundH2O	mg/L	16-MAR-95	28-MAR-95

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Sample #	Description	Test	Result	Reporting Limit	Matrix	Units	Sample Date	Analysis Date
L10345-004	ACS-SCOFF-SITE-4	Alkalinity, Total	765	10	GroundH2O	mg/L	16-MAR-95	29-MAR-95
		Antimony	0.027	0.002	GroundH2O	mg/L	16-MAR-95	04-APR-95
		Arsenic	0.031	0.001	GroundH2O	mg/L	16-MAR-95	28-MAR-95
		Beryllium	< 0.005	0.005	GroundH2O	mg/L	16-MAR-95	28-MAR-95
		Cadmium	0.053	0.005	GroundH2O	mg/L	16-MAR-95	28-MAR-95
		Calcium	276	1.00	GroundH2O	mg/L	16-MAR-95	29-MAR-95
		Chemical Oxygen Demand	39900	20	GroundH2O	mg/L	16-MAR-95	24-MAR-95
		Chloride	441	2	GroundH2O	mg/L	16-MAR-95	28-MAR-95
		Chromium, Total	0.41	0.01	GroundH2O	mg/L	16-MAR-95	28-MAR-95
		Copper	0.04	0.01	GroundH2O	mg/L	16-MAR-95	28-MAR-95
		Hardness, Total	1020	10	GroundH2O	mg/L	16-MAR-95	25-MAR-95
		Iron	1560	0.02	GroundH2O	mg/L	16-MAR-95	29-MAR-95
		Lead	0.180	0.0015	GroundH2O	mg/L	16-MAR-95	27-MAR-95
		Magnesium	62.8	1.00	GroundH2O	mg/L	16-MAR-95	29-MAR-95
		Mercury	< 0.0002	0.0002	GroundH2O	mg/L	16-MAR-95	29-MAR-95
		Nickel	0.65	0.02	GroundH2O	mg/L	16-MAR-95	28-MAR-95
		Nitrogen, Total Kjeldahl	162	0.10	GroundH2O	mg/L	16-MAR-95	28-MAR-95
		Oil and Grease	1550	1	GroundH2O	mg/L	16-MAR-95	23-MAR-95
		Phosphorus, Total	0.51	0.02	GroundH2O	mg/L	16-MAR-95	24-MAR-95
		Potassium	24.5	0.10	GroundH2O	mg/L	16-MAR-95	28-MAR-95
		Selenium	< 0.002	0.002	GroundH2O	mg/L	16-MAR-95	28-MAR-95
		Silver	< 0.01	0.01	GroundH2O	mg/L	16-MAR-95	28-MAR-95
		Sodium	115	2.00	GroundH2O	mg/L	16-MAR-95	29-MAR-95
		Solids, Total Dissolved	2820	20	GroundH2O	mg/L	16-MAR-95	23-MAR-95
		Solids, Total Suspended	493	2	GroundH2O	mg/L	16-MAR-95	23-MAR-95
		Sulfate	96	10	GroundH2O	mg/L	16-MAR-95	29-MAR-95
		Thallium	0.002	0.001	GroundH2O	mg/L	16-MAR-95	24-MAR-95
		Zinc	23.9	0.01	GroundH2O	mg/L	16-MAR-95	28-MAR-95

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Date App'd: 4/13/95

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Sample #	Description	Test	Result	Reporting Limit	Matrix	Units	Sample Date	Analysis Date
L10345-005	ACS-SCOFF-SITE-5	Alkalinity, Total	3060	10	GroundH2O	mg/L	16-MAR-95	29-MAR-95
		Antimony	0.208	0.002	GroundH2O	mg/L	16-MAR-95	29-MAR-95
		Arsenic	0.028	0.001	GroundH2O	mg/L	16-MAR-95	28-MAR-95
		Beryllium	< 0.005	0.005	GroundH2O	mg/L	16-MAR-95	28-MAR-95
		Cadmium	0.958	0.005	GroundH2O	mg/L	16-MAR-95	28-MAR-95
		Calcium	417	1.00	GroundH2O	mg/L	16-MAR-95	29-MAR-95
		Chemical Oxygen Demand	57700	20	GroundH2O	mg/L	16-MAR-95	24-MAR-95
		Chloride	1550	2	GroundH2O	mg/L	16-MAR-95	28-MAR-95
		Chromium, Total	2.16	0.01	GroundH2O	mg/L	16-MAR-95	28-MAR-95
		Copper	0.17	0.01	GroundH2O	mg/L	16-MAR-95	28-MAR-95
		Hardness, Total	2690	10	GroundH2O	mg/L	16-MAR-95	25-MAR-95
		Iron	1140	0.02	GroundH2O	mg/L	16-MAR-95	29-MAR-95
		Lead	1.76	0.0015	GroundH2O	mg/L	16-MAR-95	27-MAR-95
		Magnesium	124	1.00	GroundH2O	mg/L	16-MAR-95	29-MAR-95
		Mercury	0.0006	0.0002	GroundH2O	mg/L	16-MAR-95	29-MAR-95
		Nickel	0.49	0.02	GroundH2O	mg/L	16-MAR-95	28-MAR-95
		Nitrogen, Total Kjeldahl	213	0.10	GroundH2O	mg/L	16-MAR-95	28-MAR-95
		Oil and Grease	88500	1	GroundH2O	mg/L	16-MAR-95	23-MAR-95
		Phosphorus, Total	1.29	0.02	GroundH2O	mg/L	16-MAR-95	24-MAR-95
		Potassium	59.4	0.10	GroundH2O	mg/L	16-MAR-95	28-MAR-95
		Selenium	0.002	0.002	GroundH2O	mg/L	16-MAR-95	28-MAR-95
		Silver	< 0.01	0.01	GroundH2O	mg/L	16-MAR-95	28-MAR-95
		Sodium	1600	2.00	GroundH2O	mg/L	16-MAR-95	29-MAR-95
		Solids, Total Dissolved	10000	20	GroundH2O	mg/L	16-MAR-95	23-MAR-95
		Solids, Total Suspended	387	2	GroundH2O	mg/L	16-MAR-95	23-MAR-95
		Sulfate	575	10	GroundH2O	mg/L	16-MAR-95	27-MAR-95
		Thallium	0.002	0.001	GroundH2O	mg/L	16-MAR-95	24-MAR-95
		Zinc	426	0.01	GroundH2O	mg/L	16-MAR-95	28-MAR-95

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Sample #	Description	Test	Result	Reporting Limit	Matrix	Units	Sample Date	Analysis Date
L10345-006	ACS-SCOFF-SITE-6	Antimony	0.048	0.002	GroundH2O	mg/L	16-MAR-95	29-MAR-95
		Arsenic	0.020	0.001	GroundH2O	mg/L	16-MAR-95	28-MAR-95
		Beryllium	< 0.005	0.005	GroundH2O	mg/L	16-MAR-95	28-MAR-95
		Cadmium	0.820	0.005	GroundH2O	mg/L	16-MAR-95	28-MAR-95
		Calcium	129	1.00	GroundH2O	mg/L	16-MAR-95	29-MAR-95
		Chemical Oxygen Demand	322000	20	GroundH2O	mg/L	16-MAR-95	24-MAR-95
		Chromium, Total	1.00	0.01	GroundH2O	mg/L	16-MAR-95	28-MAR-95
		Copper	0.57	0.01	GroundH2O	mg/L	16-MAR-95	28-MAR-95
		Hardness, Total	389	10	GroundH2O	mg/L	16-MAR-95	29-MAR-95
		Iron	1880	0.02	GroundH2O	mg/L	16-MAR-95	29-MAR-95
		Lead	5.35	0.0015	GroundH2O	mg/L	16-MAR-95	27-MAR-95
		Magnesium	16.2	1.00	GroundH2O	mg/L	16-MAR-95	29-MAR-95
		Mercury	0.0067	0.0002	GroundH2O	mg/L	16-MAR-95	29-MAR-95
		Nickel	0.47	0.02	GroundH2O	mg/L	16-MAR-95	28-MAR-95
		Nitrogen, Total Kjeldahl	327	0.10	GroundH2O	mg/L	16-MAR-95	28-MAR-95
		Oil and Grease	215000	1	GroundH2O	mg/L	16-MAR-95	23-MAR-95
		Phosphorus, Total	1.91	0.02	GroundH2O	mg/L	16-MAR-95	24-MAR-95
		Potassium	9.14	0.10	GroundH2O	mg/L	16-MAR-95	28-MAR-95
		Selenium	< 0.002	0.002	GroundH2O	mg/L	16-MAR-95	28-MAR-95
		Silver	< 0.01	0.01	GroundH2O	mg/L	16-MAR-95	28-MAR-95
		Sodium	99.4	2.00	GroundH2O	mg/L	16-MAR-95	29-MAR-95
		Solids, Total Suspended	2020	2	GroundH2O	mg/L	16-MAR-95	23-MAR-95
		Thallium	0.002	0.001	GroundH2O	mg/L	16-MAR-95	24-MAR-95
		Zinc	41.3	0.01	GroundH2O	mg/L	16-MAR-95	28-MAR-95

Footnotes

Sample #	Test	Footnote
L10345-001	Sodium	A4
L10345-001	Nickel	A2, A4
L10345-003	Oil and Grease	A4
L10345-004	Oil and Grease	A4
L10345-005	Oil and Grease	A4

Chk'd: Kok App'd: GG
Date App'd: 4/13/95

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Footnotes

Sample #	Test	Footnote
L10345-006	Alkalinity, Total	Unable to perform analysis due to difficult matrix.
L10345-006	Chloride	Unable to perform analysis due to difficult matrix.
L10345-006	Sodium	A4
L10345-006	Nickel	A4
L10345-006	Oil and Grease	A4
L10345-006	Sulfate	Unable to perform analysis due to difficult matrix.
L10345-006	Solids, Total Dissolved	Unable to perform analysis due to difficult matrix.

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Date App'd: 9/13/95

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Project Number: 4077.0040

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L10345-001	ACS-SCON-SITE-1	Benzene	17000	1.0	GroundH2O	ug/L	
		Bromodichloromethane	< 1000	1.0	GroundH2O	ug/L	A2
		Bromoform	< 1000	1.0	GroundH2O	ug/L	A2
		Bromomethane	< 2000	2.0	GroundH2O	ug/L	A2
		Carbon tetrachloride	< 1000	1.0	GroundH2O	ug/L	A2
		Chlorobenzene	< 1000	1.0	GroundH2O	ug/L	A2
		Chlorodibromomethane	< 1000	1.0	GroundH2O	ug/L	A2
		Chloroethane	< 2000	2.0	GroundH2O	ug/L	A2
		2-Chloroethyl vinyl ether	< 10000	10	GroundH2O	ug/L	A2
		Chloroform	< 20000	1.0	GroundH2O	ug/L	A2, A4
		Chloromethane	< 2000	2.0	GroundH2O	ug/L	A2
		1,2-Dichlorobenzene	< 1000	1.0	GroundH2O	ug/L	A2
		1,3-Dichlorobenzene	< 1000	1.0	GroundH2O	ug/L	A2
		1,4-Dichlorobenzene	< 1000	1.0	GroundH2O	ug/L	A2
		1,1-Dichloroethane	1300	1.0	GroundH2O	ug/L	
		1,2-Dichloroethane	3200	1.0	GroundH2O	ug/L	
		1,1-Dichloroethene	< 1000	1.0	GroundH2O	ug/L	A2
		cis-1,2-Dichloroethene	82000	1.0	GroundH2O	ug/L	
		trans-1,2-Dichloroethene	< 1000	1.0	GroundH2O	ug/L	A2
		1,2-Dichloropropane	1700	1.0	GroundH2O	ug/L	
		cis-1,3-Dichloropropene	< 1000	1.0	GroundH2O	ug/L	A2
		trans-1,3-Dichloropropene	< 1000	1.0	GroundH2O	ug/L	A2
		Ethylbenzene	5400	1.0	GroundH2O	ug/L	
		Methylene chloride	< 3000	3.0	GroundH2O	ug/L	A2
		1,1,2,2-Tetrachloroethane	< 1000	1.0	GroundH2O	ug/L	A2
		Tetrachloroethene	< 1000	1.0	GroundH2O	ug/L	A2
		Toluene	48000	1.0	GroundH2O	ug/L	A17
		1,1,1-Trichloroethane	1900	1.0	GroundH2O	ug/L	
		1,1,2-Trichloroethane	< 1000	1.0	GroundH2O	ug/L	A2
		Trichloroethene	< 1000	1.0	GroundH2O	ug/L	A2
		Trichlorofluoromethane	< 1000	1.0	GroundH2O	ug/L	A2
		Vinyl chloride	< 1000	1.0	GroundH2O	ug/L	A2
		m + p-Xylene	20000	2.0	GroundH2O	ug/L	
		o-Xylene	7100	1.0	GroundH2O	ug/L	
		Acrolein	< 100000	100	GroundH2O	ug/L	A2, G12
		Acrylonitrile	< 100000	100	GroundH2O	ug/L	A2, G12

Sample Date: 16-MAR-95
Analysis Date: 24, 26, 28-MAR-95

Chk'd: PD App'd: GGO
Date App'd: 4/12/95

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Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L10345-002	ACS-SCON-SITE-2	Benzene	11000	1.0	GroundH2O	ug/L	
		Bromodichloromethane	< 1000	1.0	GroundH2O	ug/L	A2
		Bromoform	< 1000	1.0	GroundH2O	ug/L	A2
		Bromomethane	< 2000	2.0	GroundH2O	ug/L	A2
		Carbon tetrachloride	< 1000	1.0	GroundH2O	ug/L	A2
		Chlorobenzene	< 1000	1.0	GroundH2O	ug/L	A2
		Chlorodibromomethane	< 1000	1.0	GroundH2O	ug/L	A2
		Chloroethane	< 2000	2.0	GroundH2O	ug/L	A2
		2-Chloroethyl vinyl ether	< 10000	10	GroundH2O	ug/L	A2
		Chloroform	< 10000	1.0	GroundH2O	ug/L	A2, A4
		Chloromethane	< 2000	2.0	GroundH2O	ug/L	A2
		1,2-Dichlorobenzene	< 1000	1.0	GroundH2O	ug/L	A2
		1,3-Dichlorobenzene	< 1000	1.0	GroundH2O	ug/L	A2
		1,4-Dichlorobenzene	< 1000	1.0	GroundH2O	ug/L	A2
		1,1-Dichloroethane	< 1000	1.0	GroundH2O	ug/L	A2
		1,2-Dichloroethane	48000	1.0	GroundH2O	ug/L	
		1,1-Dichloroethene	< 1000	1.0	GroundH2O	ug/L	A2
		cis-1,2-Dichloroethene	360000	1.0	GroundH2O	ug/L	
		trans-1,2-Dichloroethene	< 1000	1.0	GroundH2O	ug/L	A2
		1,2-Dichloropropane	< 1000	1.0	GroundH2O	ug/L	A2
		cis-1,3-Dichloropropene	< 1000	1.0	GroundH2O	ug/L	A2
		trans-1,3-Dichloropropene	< 1000	1.0	GroundH2O	ug/L	A2
		Ethylbenzene	210000	1.0	GroundH2O	ug/L	
		Methylene chloride	18000	3.0	GroundH2O	ug/L	
		1,1,2,2-Tetrachloroethane	< 1000	1.0	GroundH2O	ug/L	A2
		Tetrachloroethene	1100	1.0	GroundH2O	ug/L	
		Toluene	770000	1.0	GroundH2O	ug/L	
		1,1,1-Trichloroethane	7000	1.0	GroundH2O	ug/L	
		1,1,2-Trichloroethane	< 1000	1.0	GroundH2O	ug/L	A2
		Trichloroethene	< 1000	1.0	GroundH2O	ug/L	A2
		Trichlorofluoromethane	< 1000	1.0	GroundH2O	ug/L	A2
		Vinyl chloride	< 1000	1.0	GroundH2O	ug/L	A2
		m + p-Xylene	810000	2.0	GroundH2O	ug/L	
		o-Xylene	260000	1.0	GroundH2O	ug/L	
		Acrolein	< 100000	100	GroundH2O	ug/L	A2, G12
		Acrylonitrile	< 100000	100	GroundH2O	ug/L	A2, G12

Sample Date: 16-MAR-95
Analysis Date: 24, 26, 28-MAR-95

Chk'd: MP App'd: GLG
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Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L10345-003	ACS-SCON-SITE-3	Benzene	11000	1.0	GroundH2O	ug/L	
		Bromodichloromethane	< 5000	1.0	GroundH2O	ug/L	A2
		Bromoform	< 5000	1.0	GroundH2O	ug/L	A2
		Bromomethane	< 10000	2.0	GroundH2O	ug/L	A2
		Carbon tetrachloride	< 5000	1.0	GroundH2O	ug/L	A2
		Chlorobenzene	< 5000	1.0	GroundH2O	ug/L	A2
		Chlorodibromomethane	< 5000	1.0	GroundH2O	ug/L	A2
		Chloroethane	< 10000	2.0	GroundH2O	ug/L	A2
		2-Chloroethyl vinyl ether	< 50000	10	GroundH2O	ug/L	A2
		Chloroform	< 5000	1.0	GroundH2O	ug/L	A2
		Chloromethane	< 10000	2.0	GroundH2O	ug/L	A2
		1,2-Dichlorobenzene	< 5000	1.0	GroundH2O	ug/L	A2
		1,3-Dichlorobenzene	< 5000	1.0	GroundH2O	ug/L	A2
		1,4-Dichlorobenzene	< 5000	1.0	GroundH2O	ug/L	A2
		1,1-Dichloroethane	< 5000	1.0	GroundH2O	ug/L	A2
		1,2-Dichloroethane	< 5000	1.0	GroundH2O	ug/L	A2
		1,1-Dichloroethene	< 5000	1.0	GroundH2O	ug/L	A2
		cis-1,2-Dichloroethene	20000	1.0	GroundH2O	ug/L	
		trans-1,2-Dichloroethene	< 5000	1.0	GroundH2O	ug/L	A2
		1,2-Dichloropropane	< 5000	1.0	GroundH2O	ug/L	A2
		cis-1,3-Dichloropropene	< 5000	1.0	GroundH2O	ug/L	A2
		trans-1,3-Dichloropropene	< 5000	1.0	GroundH2O	ug/L	A2
		Ethylbenzene	20000	1.0	GroundH2O	ug/L	
		Methylene chloride	< 15000	3.0	GroundH2O	ug/L	A2
		1,1,2,2-Tetrachloroethane	< 5000	1.0	GroundH2O	ug/L	A2
		Tetrachloroethene	8700	1.0	GroundH2O	ug/L	
		Toluene	190000	1.0	GroundH2O	ug/L	
		1,1,1-Trichloroethane	8200	1.0	GroundH2O	ug/L	
		1,1,2-Trichloroethane	< 5000	1.0	GroundH2O	ug/L	A2
		Trichloroethene	14000	1.0	GroundH2O	ug/L	
		Trichlorofluoromethane	< 5000	1.0	GroundH2O	ug/L	A2
		Vinyl chloride	< 5000	1.0	GroundH2O	ug/L	A2
		m + p-Xylene	70000	2.0	GroundH2O	ug/L	
		o-Xylene	19000	1.0	GroundH2O	ug/L	
		Acrolein	< 500000	100	GroundH2O	ug/L	A2, G12
		Acrylonitrile	< 500000	100	GroundH2O	ug/L	A2, G12

Sample Date: 16-MAR-95
Analysis Date: 24, 26, 28-MAR-95

Chk'd: App'd: GCG
Date App'd: 4/12/95

WI Lab Certification ID#: 113138300

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VOLATILE ORGANIC REPORT
ACS
GRIFFITH IN
Project Number: 4077.0040

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L10345-004	ACS-SCOFF-SITE-4	Benzene	44000	1.0	GroundH2O	ug/L	
		Bromodichloromethane	< 5000	1.0	GroundH2O	ug/L	A2
		Bromoform	< 5000	1.0	GroundH2O	ug/L	A2
		Bromomethane	< 10000	2.0	GroundH2O	ug/L	A2
		Carbon tetrachloride	< 5000	1.0	GroundH2O	ug/L	A2
		Chlorobenzene	< 5000	1.0	GroundH2O	ug/L	A2
		Chlorodibromomethane	< 5000	1.0	GroundH2O	ug/L	A2
		Chloroethane	< 10000	2.0	GroundH2O	ug/L	A2
		2-Chloroethyl vinyl ether	< 50000	10	GroundH2O	ug/L	A2
		Chloroform	< 5000	1.0	GroundH2O	ug/L	A2
		Chloromethane	< 10000	2.0	GroundH2O	ug/L	A2
		1,2-Dichlorobenzene	< 5000	1.0	GroundH2O	ug/L	A2
		1,3-Dichlorobenzene	< 5000	1.0	GroundH2O	ug/L	A2
		1,4-Dichlorobenzene	< 5000	1.0	GroundH2O	ug/L	A2
		1,1-Dichloroethane	< 5000	1.0	GroundH2O	ug/L	A2
		1,2-Dichloroethane	< 5000	1.0	GroundH2O	ug/L	A2
		1,1-Dichloroethene	< 5000	1.0	GroundH2O	ug/L	A2
		cis-1,2-Dichloroethene	< 5000	1.0	GroundH2O	ug/L	A2
		trans-1,2-Dichloroethene	< 5000	1.0	GroundH2O	ug/L	A2
		1,2-Dichloropropane	< 5000	1.0	GroundH2O	ug/L	A2
		cis-1,3-Dichloropropene	< 5000	1.0	GroundH2O	ug/L	A2
		trans-1,3-Dichloropropene	< 5000	1.0	GroundH2O	ug/L	A2
		Ethylbenzene	41000	1.0	GroundH2O	ug/L	
		Methylene chloride	50000	3.0	GroundH2O	ug/L	
		1,1,2,2-Tetrachloroethane	< 5000	1.0	GroundH2O	ug/L	A2
		Tetrachloroethene	77000	1.0	GroundH2O	ug/L	
		Toluene	120000	1.0	GroundH2O	ug/L	
		1,1,1-Trichloroethane	26000	1.0	GroundH2O	ug/L	
		1,1,2-Trichloroethane	< 5000	1.0	GroundH2O	ug/L	A2
		Trichloroethene	62000	1.0	GroundH2O	ug/L	
		Trichlorofluoromethane	< 5000	1.0	GroundH2O	ug/L	A2
		Vinyl chloride	< 5000	1.0	GroundH2O	ug/L	A2
		m + p-Xylene	170000	2.0	GroundH2O	ug/L	
		o-Xylene	52000	1.0	GroundH2O	ug/L	
		Acrolein	< 500000	100	GroundH2O	ug/L	A2, G12
		Acrylonitrile	< 500000	100	GroundH2O	ug/L	A2, G12

Sample Date: 16-MAR-95
Analysis Date: 24, 26-MAR-95

Chk'd: App'd:
Date App'd: 4/12/95

WI Lab Certification ID#: 113138300

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VOLATILE ORGANIC REPORT
ACS
GRIFFITH IN
Project Number: 4077.0040

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L10345-005	ACS-SCOFF-SITE-5	Benzene	14000	1.0	GroundH20	ug/L	
		Bromodichloromethane	< 5000	1.0	GroundH20	ug/L	A2
		Bromoform	< 5000	1.0	GroundH20	ug/L	A2
		Bromomethane	< 10000	2.0	GroundH20	ug/L	A2
		Carbon tetrachloride	< 5000	1.0	GroundH20	ug/L	A2
		Chlorobenzene	< 5000	1.0	GroundH20	ug/L	A2
		Chlorodibromomethane	< 5000	1.0	GroundH20	ug/L	A2
		Chloroethane	< 10000	2.0	GroundH20	ug/L	A2
		2-Chloroethyl vinyl ether	< 50000	10	GroundH20	ug/L	A2
		Chloroform	< 5000	1.0	GroundH20	ug/L	A2
		Chloromethane	< 10000	2.0	GroundH20	ug/L	A2
		1,2-Dichlorobenzene	< 5000	1.0	GroundH20	ug/L	A2
		1,3-Dichlorobenzene	< 5000	1.0	GroundH20	ug/L	A2
		1,4-Dichlorobenzene	< 5000	1.0	GroundH20	ug/L	A2
		1,1-Dichloroethane	5500	1.0	GroundH20	ug/L	
		1,2-Dichloroethane	< 5000	1.0	GroundH20	ug/L	A2
		1,1-Dichloroethene	< 5000	1.0	GroundH20	ug/L	A2
		cis-1,2-Dichloroethene	< 5000	1.0	GroundH20	ug/L	A2
		trans-1,2-Dichloroethene	< 5000	1.0	GroundH20	ug/L	A2
		1,2-Dichloropropane	< 5000	1.0	GroundH20	ug/L	A2
		cis-1,3-Dichloropropene	< 5000	1.0	GroundH20	ug/L	A2
		trans-1,3-Dichloropropene	< 5000	1.0	GroundH20	ug/L	A2
		Ethylbenzene	5100	1.0	GroundH20	ug/L	
		Methylene chloride	120000	3.0	GroundH20	ug/L	G1
		1,1,2,2-Tetrachloroethane	< 5000	1.0	GroundH20	ug/L	A2
		Tetrachloroethene	< 5000	1.0	GroundH20	ug/L	A2
		Toluene	72000	1.0	GroundH20	ug/L	
		1,1,1-Trichloroethane	9800	1.0	GroundH20	ug/L	
		1,1,2-Trichloroethane	< 5000	1.0	GroundH20	ug/L	A2
		Trichloroethene	7200	1.0	GroundH20	ug/L	
		Trichlorofluoromethane	< 5000	1.0	GroundH20	ug/L	A2
		Vinyl chloride	< 5000	1.0	GroundH20	ug/L	A2
		m + p-Xylene	16000	2.0	GroundH20	ug/L	
		o-Xylene	6100	1.0	GroundH20	ug/L	
		Acrolein	< 500000	100	GroundH20	ug/L	A2, G12
		Acrylonitrile	< 500000	100	GroundH20	ug/L	A2, G12

Sample Date: 16-MAR-95
Analysis Date: 24-MAR-95

Chk'd: PD App'd: GLG
Date App'd: 4/12/95

WI Lab Certification ID#: 113138300

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VOLATILE ORGANIC REPORT
ACS
GRIFFITH IN
Project Number: 4077.0040

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L10345-006	ACS-SCOFF-SITE-6	Benzene	230000	1.0	GroundH2O	ug/L	
		Bromodichloromethane	< 100000	1.0	GroundH2O	ug/L	A2
		Bromoform	< 100000	1.0	GroundH2O	ug/L	A2
		Bromomethane	< 200000	2.0	GroundH2O	ug/L	A2
		Carbon tetrachloride	< 100000	1.0	GroundH2O	ug/L	A2
		Chlorobenzene	< 100000	1.0	GroundH2O	ug/L	A2
		Chlorodibromomethane	< 100000	1.0	GroundH2O	ug/L	A2
		Chloroethane	< 200000	2.0	GroundH2O	ug/L	A2
		2-Chloroethyl vinyl ether	< 1000000	10	GroundH2O	ug/L	A2
		Chloroform	< 100000	1.0	GroundH2O	ug/L	A2
		Chloromethane	< 200000	2.0	GroundH2O	ug/L	A2
		1,2-Dichlorobenzene	< 100000	1.0	GroundH2O	ug/L	A2
		1,3-Dichlorobenzene	< 100000	1.0	GroundH2O	ug/L	A2
		1,4-Dichlorobenzene	< 100000	1.0	GroundH2O	ug/L	A2
		1,1-Dichloroethane	< 100000	1.0	GroundH2O	ug/L	A2
		1,2-Dichloroethane	< 100000	1.0	GroundH2O	ug/L	A2
		1,1-Dichloroethene	< 100000	1.0	GroundH2O	ug/L	A2
		cis-1,2-Dichloroethene	< 100000	1.0	GroundH2O	ug/L	A2
		trans-1,2-Dichloroethene	< 100000	1.0	GroundH2O	ug/L	A2
		1,2-Dichloropropane	< 100000	1.0	GroundH2O	ug/L	A2
		cis-1,3-Dichloropropene	< 100000	1.0	GroundH2O	ug/L	A2
		trans-1,3-Dichloropropene	< 100000	1.0	GroundH2O	ug/L	A2
		Ethylbenzene	520000	1.0	GroundH2O	ug/L	
		Methylene chloride	< 300000	3.0	GroundH2O	ug/L	A2
		1,1,2,2-Tetrachloroethane	< 100000	1.0	GroundH2O	ug/L	A2
		Tetrachloroethene	< 100000	1.0	GroundH2O	ug/L	A2
		Toluene	81000000	1.0	GroundH2O	ug/L	A17
		1,1,1-Trichloroethane	< 100000	1.0	GroundH2O	ug/L	A2
		1,1,2-Trichloroethane	< 100000	1.0	GroundH2O	ug/L	A2
		Trichloroethene	< 100000	1.0	GroundH2O	ug/L	A2
		Trichlorofluoromethane	< 100000	1.0	GroundH2O	ug/L	A2
		Vinyl chloride	< 100000	1.0	GroundH2O	ug/L	A2
		m + p-Xylene	2400000	2.0	GroundH2O	ug/L	
		o-Xylene	390000	1.0	GroundH2O	ug/L	
		Acrolein	< 10000000	100	GroundH2O	ug/L	A2, G12
		Acrylonitrile	< 10000000	100	GroundH2O	ug/L	A2, G12

Sample Date: 16-MAR-95
Analysis Date: 22, 23-MAR-95

Chk'd: PO App'd: GGB
Date App'd: 4/12/95

WI Lab Certification ID#: 113138300

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VOLATILE ORGANIC REPORT
ACS
GRIFFITH IN
Project Number: 4077.0040

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L10345-007	ACS-SC-TB(GRAB)	Benzene	< 1.0	1.0	GroundH2O	ug/L	
		Bromodichloromethane	< 1.0	1.0	GroundH2O	ug/L	
		Bromoform	< 1.0	1.0	GroundH2O	ug/L	
		Bromomethane	< 2.0	2.0	GroundH2O	ug/L	
		Carbon tetrachloride	< 1.0	1.0	GroundH2O	ug/L	
		Chlorobenzene	< 1.0	1.0	GroundH2O	ug/L	
		Chlorodibromomethane	< 1.0	1.0	GroundH2O	ug/L	
		Chloroethane	< 2.0	2.0	GroundH2O	ug/L	
		2-Chloroethyl vinyl ether	< 10	10	GroundH2O	ug/L	
		Chloroform	< 1.0	1.0	GroundH2O	ug/L	
		Chloromethane	< 2.0	2.0	GroundH2O	ug/L	
		1,2-Dichlorobenzene	< 1.0	1.0	GroundH2O	ug/L	
		1,3-Dichlorobenzene	< 1.0	1.0	GroundH2O	ug/L	
		1,4-Dichlorobenzene	< 1.0	1.0	GroundH2O	ug/L	
		1,1-Dichloroethane	< 1.0	1.0	GroundH2O	ug/L	
		1,2-Dichloroethane	< 1.0	1.0	GroundH2O	ug/L	
		1,1-Dichloroethene	< 1.0	1.0	GroundH2O	ug/L	
		cis-1,2-Dichloroethene	< 1.0	1.0	GroundH2O	ug/L	
		trans-1,2-Dichloroethene	< 1.0	1.0	GroundH2O	ug/L	
		1,2-Dichloropropane	< 1.0	1.0	GroundH2O	ug/L	
		cis-1,3-Dichloropropene	< 1.0	1.0	GroundH2O	ug/L	
		trans-1,3-Dichloropropene	< 1.0	1.0	GroundH2O	ug/L	
		Ethylbenzene	< 1.0	1.0	GroundH2O	ug/L	
		Methylene chloride	< 3.0	3.0	GroundH2O	ug/L	
		1,1,2,2-Tetrachloroethane	< 1.0	1.0	GroundH2O	ug/L	
		Tetrachloroethene	< 1.0	1.0	GroundH2O	ug/L	
		Toluene	< 1.0	1.0	GroundH2O	ug/L	
		1,1,1-Trichloroethane	< 1.0	1.0	GroundH2O	ug/L	
		1,1,2-Trichloroethane	< 1.0	1.0	GroundH2O	ug/L	
		Trichloroethene	< 1.0	1.0	GroundH2O	ug/L	
		Trichlorofluoromethane	< 1.0	1.0	GroundH2O	ug/L	
		Vinyl chloride	< 1.0	1.0	GroundH2O	ug/L	
		m + p-Xylene	< 2.0	2.0	GroundH2O	ug/L	
		o-Xylene	< 1.0	1.0	GroundH2O	ug/L	
		Acrolein	< 100	100	GroundH2O	ug/L	G12
		Acrylonitrile	< 100	100	GroundH2O	ug/L	G12

Sample Date: 16-MAR-95
Analysis Date: 25-MAR-95

Chk'd: MD App'd: GLG
Date App'd: 4/12/95

WI Lab Certification ID#: 113138300

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SEMIVOLATILE ORGANIC REPORT
ACS
GRIFFITH IN
Project Number: 4077.0040

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L10345-001	ACS-SCON-SITE-1	n-Nitrosodimethylamine	< 500	50	GroundH2O	ug/L	A2
		Phenol	760	10	GroundH2O	ug/L	
		Bis(2-Chloroethyl)ether	1200	10	GroundH2O	ug/L	
		2-Chlorophenol	< 100	10	GroundH2O	ug/L	A2
		1,3-Dichlorobenzene	< 100	10	GroundH2O	ug/L	A2
		1,4-Dichlorobenzene	< 100	10	GroundH2O	ug/L	A2
		1,2-Dichlorobenzene	< 100	10	GroundH2O	ug/L	A2
		Bis(2-chloroisopropyl)ether	< 100	10	GroundH2O	ug/L	A2
		n-Nitroso-di-n-propylamine	< 100	10	GroundH2O	ug/L	A2
		Hexachloroethane	< 100	10	GroundH2O	ug/L	A2
		Nitrobenzene	< 100	10	GroundH2O	ug/L	A2
		Isophorone	2200	10	GroundH2O	ug/L	
		2-Nitrophenol	< 100	10	GroundH2O	ug/L	A2
		2,4-Dimethylphenol	670	10	GroundH2O	ug/L	
		Bis(2-chloroethoxy)methane	< 100	10	GroundH2O	ug/L	A2
		2,4-Dichlorophenol	< 100	10	GroundH2O	ug/L	A2
		1,2,4-Trichlorobenzene	< 100	10	GroundH2O	ug/L	A2
		Naphthalene	830	10	GroundH2O	ug/L	
		Hexachlorobutadiene	< 100	10	GroundH2O	ug/L	A2
		4-Chloro-3-methylphenol	< 200	20	GroundH2O	ug/L	A2
		Hexachlorocyclopentadiene	< 200	20	GroundH2O	ug/L	A2
		2,4,6-Trichlorophenol	< 100	10	GroundH2O	ug/L	A2
		2-Chloronaphthalene	< 100	10	GroundH2O	ug/L	A2
		Dimethyl phthalate	< 100	10	GroundH2O	ug/L	A2
		2,6-Dinitrotoluene	< 100	10	GroundH2O	ug/L	A2
		Acenaphthylene	< 100	10	GroundH2O	ug/L	A2
		Acenaphthene	< 100	10	GroundH2O	ug/L	A2
		2,4-Dinitrophenol	< 500	50	GroundH2O	ug/L	A2
		4-Nitrophenol	< 500	50	GroundH2O	ug/L	A2
		2,4-Dinitrotoluene	< 100	10	GroundH2O	ug/L	A2, A17
		Diethyl phthalate	270	10	GroundH2O	ug/L	
		4-Chlorophenyl phenyl ether	< 100	10	GroundH2O	ug/L	A2
		Fluorene	< 100	10	GroundH2O	ug/L	A2
		4,6-Dinitro-2-methylphenol	< 500	50	GroundH2O	ug/L	A2
		1,2-Diphenylhydrazine	< 100	10	GroundH2O	ug/L	A2
		n-Nitrosodiphenylamine	< 100	10	GroundH2O	ug/L	A2, G15
		Hexachlorobenzene	< 100	10	GroundH2O	ug/L	A2
		4-Bromophenyl phenyl ether	< 100	10	GroundH2O	ug/L	A2
		Pentachlorophenol	< 500	50	GroundH2O	ug/L	A2
		Phenanthrene	< 100	10	GroundH2O	ug/L	A2

Chk'd: DP App'd: GLG
Date App'd: 4/12/95

WI Lab Certification ID#: 113138300

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SEMIVOLATILE ORGANIC REPORT
ACS
GRIFFITH IN
Project Number: 4077.0040

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L10345-001	ACS-SCON-SITE-1	Anthracene	< 100	10	GroundH2O	ug/L	A2
		Di-n-butylphthalate	< 100	10	GroundH2O	ug/L	A2
		Fluoranthene	< 100	10	GroundH2O	ug/L	A2
		Benzidine	< 500	50	GroundH2O	ug/L	A2
		Pyrene	< 100	10	GroundH2O	ug/L	A2
		Butylbenzylphthalate	< 100	10	GroundH2O	ug/L	A2
		3,3-Dichlorobenzidine	< 200	20	GroundH2O	ug/L	A2
		Chrysene	< 100	10	GroundH2O	ug/L	A2
		Benzo(a)anthracene	< 100	10	GroundH2O	ug/L	A2
		Bis(2-ethylhexyl)phthalate	120	10	GroundH2O	ug/L	
		Di-n-octyl phthalate	< 100	10	GroundH2O	ug/L	A2
		Benzo(b)fluoranthene	< 100	10	GroundH2O	ug/L	A2
		Benzo(k)fluoranthene	< 100	10	GroundH2O	ug/L	A2
		Benzo(a)pyrene	< 100	10	GroundH2O	ug/L	A2
		Indeno(1,2,3-cd)pyrene	< 100	10	GroundH2O	ug/L	A2
		Dibenzo(a,h)anthracene	< 100	10	GroundH2O	ug/L	A2
		Benzo(g,h,i)perylene	< 100	10	GroundH2O	ug/L	A2

Sample Date: 16-MAR-95
Extract Date: 21-MAR-95
Analysis Date: 30-MAR-95

Chk'd: AD App'd: GLG
Date App'd: 4/12/95

WI Lab Certification ID#: 113138300

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SEMIVOLATILE ORGANIC REPORT
ACS
GRIFFITH IN
Project Number: 4077.0040

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L10345-002	ACS-SCON-SITE-2	n-Nitrosodimethylamine	< 500	50	GroundH2O	ug/L	A2
		Phenol	480	10	GroundH2O	ug/L	
		Bis(2-Chloroethyl)ether	1200	10	GroundH2O	ug/L	
		2-Chlorophenol	< 100	10	GroundH2O	ug/L	A2
		1,3-Dichlorobenzene	< 100	10	GroundH2O	ug/L	A2
		1,4-Dichlorobenzene	< 100	10	GroundH2O	ug/L	A2
		1,2-Dichlorobenzene	< 100	10	GroundH2O	ug/L	A2
		Bis(2-chloroisopropyl)ether	< 100	10	GroundH2O	ug/L	A2
		n-Nitroso-di-n-propylamine	< 100	10	GroundH2O	ug/L	A2
		Hexachloroethane	< 100	10	GroundH2O	ug/L	A2
		Nitrobenzene	< 100	10	GroundH2O	ug/L	A2
		Isophorone	< 100	10	GroundH2O	ug/L	A2
		2-Nitrophenol	< 100	10	GroundH2O	ug/L	A2
		2,4-Dimethylphenol	120	10	GroundH2O	ug/L	
		Bis(2-chloroethoxy)methane	< 100	10	GroundH2O	ug/L	A2
		2,4-Dichlorophenol	< 100	10	GroundH2O	ug/L	A2
		1,2,4-Trichlorobenzene	< 100	10	GroundH2O	ug/L	A2
		Naphthalene	1400	10	GroundH2O	ug/L	
		Hexachlorobutadiene	< 100	10	GroundH2O	ug/L	A2
		4-Chloro-3-methylphenol	< 200	20	GroundH2O	ug/L	A2
		Hexachlorocyclopentadiene	< 200	20	GroundH2O	ug/L	A2
		2,4,6-Trichlorophenol	< 100	10	GroundH2O	ug/L	A2
		2-Chloronaphthalene	< 100	10	GroundH2O	ug/L	A2
		Dimethyl phthalate	< 100	10	GroundH2O	ug/L	A2
		2,6-Dinitrotoluene	< 100	10	GroundH2O	ug/L	A2
		Acenaphthylene	< 100	10	GroundH2O	ug/L	A2
		Acenaphthene	< 100	10	GroundH2O	ug/L	A2
		2,4-Dinitrophenol	< 500	50	GroundH2O	ug/L	A2
		4-Nitrophenol	< 500	50	GroundH2O	ug/L	A2
		2,4-Dinitrotoluene	< 100	10	GroundH2O	ug/L	A2, A17
		Diethyl phthalate	< 100	10	GroundH2O	ug/L	A2
		4-Chlorophenyl phenyl ether	< 100	10	GroundH2O	ug/L	A2
		Fluorene	< 100	10	GroundH2O	ug/L	A2
		4,6-Dinitro-2-methylphenol	< 500	50	GroundH2O	ug/L	A2
		1,2-Diphenylhydrazine	< 100	10	GroundH2O	ug/L	A2
		n-Nitrosodiphenylamine	< 100	10	GroundH2O	ug/L	A2, G15
		Hexachlorobenzene	< 100	10	GroundH2O	ug/L	A2
		4-Bromophenyl phenyl ether	< 100	10	GroundH2O	ug/L	A2
		Pentachlorophenol	< 500	50	GroundH2O	ug/L	A2
		Phenanthrene	< 100	10	GroundH2O	ug/L	A2

Chk'd: App'd:
Date App'd: 4/12/95

WI Lab Certification ID#: 113138300

MONTGOMERY WATSON
Analytical Testing Services

University Research Park
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SEMIVOLATILE ORGANIC REPORT
ACS
GRIFFITH IN
Project Number: 4077.0040

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L10345-002	ACS-SCON-SITE-2	Anthracene	< 100	10	GroundH2O	ug/L	A2
		Di-n-butylphthalate	270	10	GroundH2O	ug/L	
		Fluoranthene	< 100	10	GroundH2O	ug/L	A2
		Benzidine	< 500	50	GroundH2O	ug/L	A2
		Pyrene	< 100	10	GroundH2O	ug/L	A2
		Butylbenzylphthalate	100	10	GroundH2O	ug/L	
		3,3-Dichlorobenzidine	< 200	20	GroundH2O	ug/L	A2
		Chrysene	< 100	10	GroundH2O	ug/L	A2
		Benzo(a)anthracene	< 100	10	GroundH2O	ug/L	A2
		Bis(2-ethylhexyl)phthalate	820	10	GroundH2O	ug/L	
		Di-n-octyl phthalate	< 100	10	GroundH2O	ug/L	A2
		Benzo(b)fluoranthene	< 100	10	GroundH2O	ug/L	A2
		Benzo(k)fluoranthene	< 100	10	GroundH2O	ug/L	A2
		Benzo(a)pyrene	< 100	10	GroundH2O	ug/L	A2
		Indeno(1,2,3-cd)pyrene	< 100	10	GroundH2O	ug/L	A2
		Dibenzo(a,h)anthracene	< 100	10	GroundH2O	ug/L	A2
		Benzo(g,h,i)perylene	< 100	10	GroundH2O	ug/L	A2

Sample Date: 16-MAR-95
Extract Date: 21-MAR-95
Analysis Date: 30-MAR-95

Chk'd:- App'd: GLB
Date App'd: 4/12/95

WI Lab Certification ID#: 113138300

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SEMIVOLATILE ORGANIC REPORT
ACS
GRIFFITH IN
Project Number: 4077.0040

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L10345-003	ACS-SCON-SITE-3	n-Nitrosodimethylamine	< 5000	50	GroundH2O	ug/L	A2
		Phenol	< 1000	10	GroundH2O	ug/L	A2
		Bis(2-Chloroethyl)ether	< 1000	10	GroundH2O	ug/L	A2
		2-Chlorophenol	< 1000	10	GroundH2O	ug/L	A2
		1,3-Dichlorobenzene	< 1000	10	GroundH2O	ug/L	A2
		1,4-Dichlorobenzene	< 1000	10	GroundH2O	ug/L	A2
		1,2-Dichlorobenzene	< 1000	10	GroundH2O	ug/L	A2
		Bis(2-chloroisopropyl)ether	< 1000	10	GroundH2O	ug/L	A2
		n-Nitroso-di-n-propylamine	< 1000	10	GroundH2O	ug/L	A2
		Hexachloroethane	< 1000	10	GroundH2O	ug/L	A2
		Nitrobenzene	< 1000	10	GroundH2O	ug/L	A2
		Isophorone	< 1000	10	GroundH2O	ug/L	A2
		2-Nitrophenol	< 1000	10	GroundH2O	ug/L	A2
		2,4-Dimethylphenol	< 1000	10	GroundH2O	ug/L	A2
		Bis(2-chloroethoxy)methane	< 1000	10	GroundH2O	ug/L	A2
		2,4-Dichlorophenol	< 1000	10	GroundH2O	ug/L	A2
		1,2,4-Trichlorobenzene	< 1000	10	GroundH2O	ug/L	A2
		Naphthalene	8400	10	GroundH2O	ug/L	
		Hexachlorobutadiene	< 1000	10	GroundH2O	ug/L	A2
		4-Chloro-3-methylphenol	< 2000	20	GroundH2O	ug/L	A2
		Hexachlorocyclopentadiene	< 2000	20	GroundH2O	ug/L	A2
		2,4,6-Trichlorophenol	< 1000	10	GroundH2O	ug/L	A2
		2-Chloronaphthalene	< 1000	10	GroundH2O	ug/L	A2
		Dimethyl phthalate	< 1000	10	GroundH2O	ug/L	A2
		2,6-Dinitrotoluene	< 1000	10	GroundH2O	ug/L	A2
		Acenaphthylene	< 1000	10	GroundH2O	ug/L	A2
		Acenaphthene	< 1000	10	GroundH2O	ug/L	A2
		2,4-Dinitrophenol	< 5000	50	GroundH2O	ug/L	A2
		4-Nitrophenol	< 5000	50	GroundH2O	ug/L	A2
		2,4-Dinitrotoluene	< 1000	10	GroundH2O	ug/L	A2, A17
		Diethyl phthalate	< 1000	10	GroundH2O	ug/L	A2
		4-Chlorophenyl phenyl ether	< 1000	10	GroundH2O	ug/L	A2
		Fluorene	< 1000	10	GroundH2O	ug/L	A2
		4,6-Dinitro-2-methylphenol	< 5000	50	GroundH2O	ug/L	A2
		1,2-Diphenylhydrazine	< 1000	10	GroundH2O	ug/L	A2
		n-Nitrosodiphenylamine	< 1000	10	GroundH2O	ug/L	A2, G15
		Hexachlorobenzene	< 1000	10	GroundH2O	ug/L	A2
		4-Bromophenyl phenyl ether	< 1000	10	GroundH2O	ug/L	A2
		Pentachlorophenol	< 5000	50	GroundH2O	ug/L	A2
		Phenanthrene	< 1000	10	GroundH2O	ug/L	A2

Chk'd: MW App'd: GG
Date App'd: 4/12/95

WI Lab Certification ID#: 113138300

MONTGOMERY WATSON
Analytical Testing Services

University Research Park
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SEMIVOLATILE ORGANIC REPORT
ACS
GRIFFITH IN
Project Number: 4077.0040

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L10345-003	ACS-SCON-SITE-3	Anthracene	< 1000	10	GroundH2O	ug/L	A2
		Di-n-butylphthalate	< 1000	10	GroundH2O	ug/L	A2
		Fluoranthene	< 1000	10	GroundH2O	ug/L	A2
		Benzidine	< 5000	50	GroundH2O	ug/L	A2
		Pyrene	< 1000	10	GroundH2O	ug/L	A2
		Butylbenzylphthalate	< 1000	10	GroundH2O	ug/L	A2
		3,3-Dichlorobenzidine	< 2000	20	GroundH2O	ug/L	A2
		Chrysene	< 1000	10	GroundH2O	ug/L	A2
		Benzo(a)anthracene	< 1000	10	GroundH2O	ug/L	A2
		Bis(2-ethylhexyl)phthalate	5700	10	GroundH2O	ug/L	
		Di-n-octyl phthalate	< 1000	10	GroundH2O	ug/L	A2
		Benzo(b)fluoranthene	< 1000	10	GroundH2O	ug/L	A2
		Benzo(k)fluoranthene	< 1000	10	GroundH2O	ug/L	A2
		Benzo(a)pyrene	< 1000	10	GroundH2O	ug/L	A2
		Indeno(1,2,3-cd)pyrene	< 1000	10	GroundH2O	ug/L	A2
		Dibenzo(a,h)anthracene	< 1000	10	GroundH2O	ug/L	A2
		Benzo(g,h,i)perylene	< 1000	10	GroundH2O	ug/L	A2

Sample Date: 16-MAR-95
Extract Date: 21-MAR-95
Analysis Date: 30-MAR-95

Chk'd: App'd: GLG
Date App'd: 4/2/95

WI Lab Certification ID#: 113138300

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SEMIVOLATILE ORGANIC REPORT
ACS
GRIFFITH IN
Project Number: 4077.0040

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L10345-004	ACS-SCOFF-SITE-4	n-Nitrosodimethylamine	< 5000	50	GroundH2O	ug/L	A2
		Phenol	11000	10	GroundH2O	ug/L	
		Bis(2-Chloroethyl)ether	< 1000	10	GroundH2O	ug/L	A2
		2-Chlorophenol	< 1000	10	GroundH2O	ug/L	A2
		1,3-Dichlorobenzene	< 1000	10	GroundH2O	ug/L	A2
		1,4-Dichlorobenzene	< 1000	10	GroundH2O	ug/L	A2
		1,2-Dichlorobenzene	< 1000	10	GroundH2O	ug/L	A2
		Bis(2-chloroisopropyl)ether	< 1000	10	GroundH2O	ug/L	A2
		n-Nitroso-di-n-propylamine	< 1000	10	GroundH2O	ug/L	A2
		Hexachloroethane	< 1000	10	GroundH2O	ug/L	A2
		Nitrobenzene	< 1000	10	GroundH2O	ug/L	A2
		Isophorone	6500	10	GroundH2O	ug/L	
		2-Nitrophenol	< 1000	10	GroundH2O	ug/L	A2
		2,4-Dimethylphenol	4900	10	GroundH2O	ug/L	
		Bis(2-chloroethoxy)methane	< 1000	10	GroundH2O	ug/L	A2
		2,4-Dichlorophenol	< 1000	10	GroundH2O	ug/L	A2
		1,2,4-Trichlorobenzene	< 1000	10	GroundH2O	ug/L	A2
		Naphthalene	1600	10	GroundH2O	ug/L	
		Hexachlorobutadiene	< 1000	10	GroundH2O	ug/L	A2
		4-Chloro-3-methylphenol	< 2000	20	GroundH2O	ug/L	A2
		Hexachlorocyclopentadiene	< 2000	20	GroundH2O	ug/L	A2
		2,4,6-Trichlorophenol	< 1000	10	GroundH2O	ug/L	A2
		2-Chloronaphthalene	< 1000	10	GroundH2O	ug/L	A2
		Dimethyl phthalate	< 1000	10	GroundH2O	ug/L	A2
		2,6-Dinitrotoluene	< 1000	10	GroundH2O	ug/L	A2
		Acenaphthylene	< 1000	10	GroundH2O	ug/L	A2
		Acenaphthene	< 1000	10	GroundH2O	ug/L	A2
		2,4-Dinitrophenol	< 5000	50	GroundH2O	ug/L	A2
		4-Nitrophenol	< 5000	50	GroundH2O	ug/L	A2
		2,4-Dinitrotoluene	< 1000	10	GroundH2O	ug/L	A2, A17
		Diethyl phthalate	< 1000	10	GroundH2O	ug/L	A2
		4-Chlorophenyl phenyl ether	< 1000	10	GroundH2O	ug/L	A2
		Fluorene	< 1000	10	GroundH2O	ug/L	A2
		4,6-Dinitro-2-methylphenol	< 5000	50	GroundH2O	ug/L	A2
		1,2-Diphenylhydrazine	< 1000	10	GroundH2O	ug/L	A2
		n-Nitrosodiphenylamine	< 1000	10	GroundH2O	ug/L	A2, G15
		Hexachlorobenzene	< 1000	10	GroundH2O	ug/L	A2
		4-Bromophenyl phenyl ether	< 1000	10	GroundH2O	ug/L	A2
		Pentachlorophenol	< 5000	50	GroundH2O	ug/L	A2
		Phenanthrene	< 1000	10	GroundH2O	ug/L	A2

Chk'd: MM App'd: GG
Date App'd: 4/12/95

WI Lab Certification ID#: 113138300

MONTGOMERY WATSON
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SEMIVOLATILE ORGANIC REPORT
ACS
GRIFFITH IN
Project Number: 4077.0040

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L10345-004	ACS-SCOFF-SITE-4	Anthracene	< 1000	10	GroundH2O	ug/L	A2
		Di-n-butylphthalate	< 1000	10	GroundH2O	ug/L	A2
		Fluoranthene	< 1000	10	GroundH2O	ug/L	A2
		Benzidine	< 5000	50	GroundH2O	ug/L	A2
		Pyrene	< 1000	10	GroundH2O	ug/L	A2
		Butylbenzylphthalate	< 1000	10	GroundH2O	ug/L	A2
		3,3-Dichlorobenzidine	< 2000	20	GroundH2O	ug/L	A2
		Chrysene	< 1000	10	GroundH2O	ug/L	A2
		Benzo(a)anthracene	< 1000	10	GroundH2O	ug/L	A2
		Bis(2-ethylhexyl)phthalate	6100	10	GroundH2O	ug/L	
		Di-n-octyl phthalate	< 1000	10	GroundH2O	ug/L	A2
		Benzo(b)fluoranthene	< 1000	10	GroundH2O	ug/L	A2
		Benzo(k)fluoranthene	< 1000	10	GroundH2O	ug/L	A2
		Benzo(a)pyrene	< 1000	10	GroundH2O	ug/L	A2
		Indeno(1,2,3-cd)pyrene	< 1000	10	GroundH2O	ug/L	A2
		Dibenzo(a,h)anthracene	< 1000	10	GroundH2O	ug/L	A2
		Benzo(g,h,i)perylene	< 1000	10	GroundH2O	ug/L	A2

Sample Date: 16-MAR-95
Extract Date: 21-MAR-95
Analysis Date: 30-MAR-95

Chk'd: App'd: CDG
Date App'd: 4/12/95

WI Lab Certification ID#: 113138300

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SEMIVOLATILE ORGANIC REPORT
ACS
GRIFFITH IN
Project Number: 4077.0040

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L10345-005	ACS-SCOFF-SITE-5	n-Nitrosodimethylamine	< 1000	50	GroundH2O	ug/L	A2
		Phenol	39000	10	GroundH2O	ug/L	
		Bis(2-Chloroethyl)ether	1000	10	GroundH2O	ug/L	
		2-Chlorophenol	< 200	10	GroundH2O	ug/L	A2
		1,3-Dichlorobenzene	< 200	10	GroundH2O	ug/L	A2
		1,4-Dichlorobenzene	< 200	10	GroundH2O	ug/L	A2
		1,2-Dichlorobenzene	< 200	10	GroundH2O	ug/L	A2
		Bis(2-chloroisopropyl)ether	< 200	10	GroundH2O	ug/L	A2
		n-Nitroso-di-n-propylamine	< 200	10	GroundH2O	ug/L	A2
		Hexachloroethane	< 200	10	GroundH2O	ug/L	A2
		Nitrobenzene	< 200	10	GroundH2O	ug/L	A2
		Isophorone	20000	10	GroundH2O	ug/L	
		2-Nitrophenol	1300	10	GroundH2O	ug/L	
		2,4-Dimethylphenol	6700	10	GroundH2O	ug/L	
		Bis(2-chloroethoxy)methane	< 200	10	GroundH2O	ug/L	A2
		2,4-Dichlorophenol	< 200	10	GroundH2O	ug/L	A2
		1,2,4-Trichlorobenzene	< 200	10	GroundH2O	ug/L	A2
		Naphthalene	620	10	GroundH2O	ug/L	
		Hexachlorobutadiene	< 200	10	GroundH2O	ug/L	A2
		4-Chloro-3-methylphenol	< 400	20	GroundH2O	ug/L	A2
		Hexachlorocyclopentadiene	< 400	20	GroundH2O	ug/L	A2
		2,4,6-Trichlorophenol	< 200	10	GroundH2O	ug/L	A2
		2-Chloronaphthalene	< 200	10	GroundH2O	ug/L	A2
		Dimethyl phthalate	780	10	GroundH2O	ug/L	
		2,6-Dinitrotoluene	< 200	10	GroundH2O	ug/L	A2
		Acenaphthylene	< 200	10	GroundH2O	ug/L	A2
		Acenaphthene	< 200	10	GroundH2O	ug/L	A2
		2,4-Dinitrophenol	< 1000	50	GroundH2O	ug/L	A2, A17
		4-Nitrophenol	< 1000	50	GroundH2O	ug/L	A2
		2,4-Dinitrotoluene	< 200	10	GroundH2O	ug/L	A2
		Diethyl phthalate	< 200	10	GroundH2O	ug/L	A2
		4-Chlorophenyl phenyl ether	< 200	10	GroundH2O	ug/L	A2
		Fluorene	< 200	10	GroundH2O	ug/L	A2
		4,6-Dinitro-2-methylphenol	< 1000	50	GroundH2O	ug/L	A2
		1,2-Diphenylhydrazine	< 200	10	GroundH2O	ug/L	A2
		n-Nitrosodiphenylamine	< 200	10	GroundH2O	ug/L	A2, G15
		Hexachlorobenzene	< 200	10	GroundH2O	ug/L	A2
		4-Bromophenyl phenyl ether	< 200	10	GroundH2O	ug/L	A2
		Pentachlorophenol	< 1000	50	GroundH2O	ug/L	A2
		Phenanthrene	< 200	10	GroundH2O	ug/L	A2

Chk'd: App'd:
Date App'd: 4/12/95

WI Lab Certification ID#: 113138300

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SEMIVOLATILE ORGANIC REPORT
ACS
GRIFFITH IN
Project Number: 4077.0040

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L10345-005	ACS-SCOFF-SITE-5	Anthracene	< 200	10	GroundH2O	ug/L	A2
		Di-n-butylphthalate	< 200	10	GroundH2O	ug/L	A2
		Fluoranthene	< 200	10	GroundH2O	ug/L	A2
		Benzidine	< 1000	50	GroundH2O	ug/L	A2
		Pyrene	< 200	10	GroundH2O	ug/L	A2
		Butylbenzylphthalate	< 200	10	GroundH2O	ug/L	A2
		3,3-Dichlorobenzidine	< 400	20	GroundH2O	ug/L	A2
		Chrysene	< 200	10	GroundH2O	ug/L	A2
		Benzo(a)anthracene	< 200	10	GroundH2O	ug/L	A2
		Bis(2-ethylhexyl)phthalate	< 200	10	GroundH2O	ug/L	A2
		Di-n-octyl phthalate	< 200	10	GroundH2O	ug/L	A2
		Benzo(b)fluoranthene	< 200	10	GroundH2O	ug/L	A2
		Benzo(k)fluoranthene	< 200	10	GroundH2O	ug/L	A2
		Benzo(a)pyrene	< 200	10	GroundH2O	ug/L	A2
		Indeno(1,2,3-cd)pyrene	< 200	10	GroundH2O	ug/L	A2
		Dibenzo(a,h)anthracene	< 200	10	GroundH2O	ug/L	A2
		Benzo(g,h,i)perylene	< 200	10	GroundH2O	ug/L	A2

Sample Date: 16-MAR-95
Analysis Date: 30-MAR-95, 01-APR-95

Chk'd: NP App'd: GG
Date App'd: 4/12/95

WI Lab Certification ID#: 113138300

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SEMIVOLATILE ORGANIC REPORT
ACS
GRIFFITH IN
Project Number: 4077.0040

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L10345-006	ACS-SCOFF-SITE-6	n-Nitrosodimethylamine	< 50000	50	GroundH2O	ug/L	A2
		Phenol	< 10000	10	GroundH2O	ug/L	A2
		Bis(2-Chloroethyl)ether	< 10000	10	GroundH2O	ug/L	A2
		2-Chlorophenol	< 10000	10	GroundH2O	ug/L	A2
		1,3-Dichlorobenzene	< 10000	10	GroundH2O	ug/L	A2
		1,4-Dichlorobenzene	< 10000	10	GroundH2O	ug/L	A2
		1,2-Dichlorobenzene	< 10000	10	GroundH2O	ug/L	A2
		Bis(2-chloroisopropyl)ether	< 10000	10	GroundH2O	ug/L	A2
		n-Nitroso-di-n-propylamine	< 10000	10	GroundH2O	ug/L	A2
		Hexachloroethane	< 10000	10	GroundH2O	ug/L	A2
		Nitrobenzene	< 10000	10	GroundH2O	ug/L	A2
		Isophorone	36000	10	GroundH2O	ug/L	
		2-Nitrophenol	< 10000	10	GroundH2O	ug/L	A2
		2,4-Dimethylphenol	< 10000	10	GroundH2O	ug/L	A2
		Bis(2-chloroethoxy)methane	< 10000	10	GroundH2O	ug/L	A2
		2,4-Dichlorophenol	< 10000	10	GroundH2O	ug/L	A2
		1,2,4-Trichlorobenzene	< 10000	10	GroundH2O	ug/L	A2
		Naphthalene	63000	10	GroundH2O	ug/L	
		Hexachlorobutadiene	< 10000	10	GroundH2O	ug/L	A2
		4-Chloro-3-methylphenol	< 20000	20	GroundH2O	ug/L	A2
		Hexachlorocyclopentadiene	< 20000	20	GroundH2O	ug/L	A2
		2,4,6-Trichlorophenol	< 10000	10	GroundH2O	ug/L	A2
		2-Chloronaphthalene	< 10000	10	GroundH2O	ug/L	A2
		Dimethyl phthalate	< 10000	10	GroundH2O	ug/L	A2
		2,6-Dinitrotoluene	< 10000	10	GroundH2O	ug/L	A2
		Acenaphthylene	< 10000	10	GroundH2O	ug/L	A2
		Acenaphthene	< 10000	10	GroundH2O	ug/L	A2
		2,4-Dinitrophenol	< 50000	50	GroundH2O	ug/L	A2
		4-Nitrophenol	< 50000	50	GroundH2O	ug/L	A2
		2,4-Dinitrotoluene	< 10000	10	GroundH2O	ug/L	A2, A17
		Diethyl phthalate	< 10000	10	GroundH2O	ug/L	A2
		4-Chlorophenyl phenyl ether	< 10000	10	GroundH2O	ug/L	A2
		Fluorene	< 10000	10	GroundH2O	ug/L	A2
		4,6-Dinitro-2-methylphenol	< 50000	50	GroundH2O	ug/L	A2
		1,2-Diphenylhydrazine	< 10000	10	GroundH2O	ug/L	A2
		n-Nitrosodiphenylamine	< 10000	10	GroundH2O	ug/L	A2, G15
		Hexachlorobenzene	< 10000	10	GroundH2O	ug/L	A2
		4-Bromophenyl phenyl ether	< 10000	10	GroundH2O	ug/L	A2
		Pentachlorophenol	< 50000	50	GroundH2O	ug/L	A2
		Phenanthrene	< 10000	10	GroundH2O	ug/L	A2

Chk'd: App'd:
Date App'd: 4/12/95

WI Lab Certification ID#: 113138300

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SEMIVOLATILE ORGANIC REPORT
ACS
GRIFFITH IN
Project Number: 4077.0040

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L10345-006	ACS-SCOFF-SITE-6	Anthracene	< 10000	10	GroundH2O	ug/L	A2
		Di-n-butylphthalate	< 10000	10	GroundH2O	ug/L	A2
		Fluoranthene	< 10000	10	GroundH2O	ug/L	A2
		Benzidine	< 50000	50	GroundH2O	ug/L	A2
		Pyrene	< 10000	10	GroundH2O	ug/L	A2
		Butylbenzylphthalate	< 10000	10	GroundH2O	ug/L	A2
		3,3-Dichlorobenzidine	< 20000	20	GroundH2O	ug/L	A2
		Chrysene	< 10000	10	GroundH2O	ug/L	A2
		Benzo(a)anthracene	< 10000	10	GroundH2O	ug/L	A2
		Bis(2-ethylhexyl)phthalate	27000	10	GroundH2O	ug/L	
		Di-n-octyl phthalate	< 10000	10	GroundH2O	ug/L	A2
		Benzo(b)fluoranthene	< 10000	10	GroundH2O	ug/L	A2
		Benzo(k)fluoranthene	< 10000	10	GroundH2O	ug/L	A2
		Benzo(a)pyrene	< 10000	10	GroundH2O	ug/L	A2
		Indeno(1,2,3-cd)pyrene	< 10000	10	GroundH2O	ug/L	A2
		Dibenzo(a,h)anthracene	< 10000	10	GroundH2O	ug/L	A2
		Benzo(g,h,i)perylene	< 10000	10	GroundH2O	ug/L	A2

Sample Date: 16-MAR-95
Extract Date: 21-MAR-95
Analysis Date: 30-MAR-95

Chk'd: App'd: 666
Date App'd: 4/12/95

WI Lab Certification ID#: 113138300

RMT LABORATORIES - 744 HEARTLAND TRAIL - MADISON, WI - 53717-1934 - P.O. BOX 8923 - MADISON, WI - 53708-8923 - 608/831-4444 - 608/831-7530 FAX

PROJECT NAME: MONTGOMERY WATSON
PROJECT NUMBER: 91054.00
WI DNR LAB ID: 113138520

REPORT DATE: 03/28/95

INORGANIC ANALYSIS REPORT

ANALYTE: Total organic carbon as NPOC

		RESULT	EQL	CODE	UNITS
SAMPLE	6718-001	960	0.25		mg/L
STATION ID	10345-001				
COLLECTION DATE	03/16/95				
SAMPLE	6718-002	2500	0.25		mg/L
STATION ID	10345-002				
COLLECTION DATE	03/16/95				
SAMPLE	6718-003	250	0.25		mg/L
STATION ID	10345-003				
COLLECTION DATE	03/16/95				
SAMPLE	6718-004	9900	0.25		mg/L
STATION ID	10345-004				
COLLECTION DATE	03/16/95				
SAMPLE	6718-005	180000	0.25		mg/L
STATION ID	10345-005				
COLLECTION DATE	03/16/95				
SAMPLE	6718-006	>200000	0.25		mg/L
STATION ID	10345-006				
COLLECTION DATE	03/16/95				

RMT LABORATORIES - 744 HEARTLAND TRAIL - MADISON, WI - 53717-1934 - P.O. BOX 8923 - MADISON, WI - 53708-8923 - 608/831-4444 - 608/831-7530 FAX

PROJECT NAME: MONTGOMERY WATSON
PROJECT NO: 91054.00
WORK ORDER NO: 6718

REPORT DATE:03/28/95
PAGE NO: 1

SAMPLE NO.	STATION ID	COLL. DATE	SAMPLE NO.	STATION ID	COLL. DATE
6718-001	10345-001	03/16/95			
6718-002	10345-002	03/16/95			
6718-003	10345-003	03/16/95			
6718-004	10345-004	03/16/95			
6718-005	10345-005	03/16/95			
6718-006	10345-006	03/16/95			

MAR 1995
RECEIVED

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and RMT Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample narrative. Release of this Final Report is authorized by RMT Laboratory management, as is verified by the following signature.

Jeff Gearhart
Approval Signature

3-28-95
Date

ab Cert. #: WI DNR 113138520, MN DNR 055-999-107, SC DHEC 83001, TN DOH 02916

MONTGOMERY WATSON
Analytical Testing Services

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STANDARD REPORT FOOTNOTES

A1 Elevated quantitation limit due to low sample volume.

A2 Elevated quantitation limit necessary to overcome interference.

A4 Result should be considered estimated due to sample-related problems encountered during analysis.

A11 Sample received past recommended hold time.

A12 Analysis requested past recommended hold time.

A13 Initial analysis performed within hold time; confirmation analysis performed past recommended hold time. Results from repeat analysis are reported.

A14 Initial analysis performed within hold time; necessary dilution performed past recommended hold time. Results from repeat analysis are reported.

A15 Result should be considered estimated; analyte detected in method blank.

A17 Result should be considered estimated as indicated by method QC.

M3 Total analysis performed due to insufficient solid for TCLP extraction.

G1 Result should be considered estimated, concentration exceeds working calibration range.

G2 Elevated quantitation limit due to the concentration of petroleum hydrocarbons in the sample.

G3 Elevated quantitation limit due to the concentration of non-specific hydrocarbons in the sample.

G4 Analyte coelutes with _____; result calculated from calibration standards in a 1:1 ratio of these two compounds.

G5 Sample required extensive cleanup; Endrin Aldehyde is not recovered from these techniques.

G6 Petroleum-type odor detected from this sample.

G7 Elevated quantitation limit due to the concentration of PCBs in the sample.

G8 Result should be considered estimated due to coelution with an additional hydrocarbon product.

G9 Results are influenced by the presence of extraneous peaks which are not representative of petroleum hydrocarbon products.

G10 Presence of one or more unidentified peaks eluting earlier than the retention time window.

G11 Presence of one or more unidentified peaks eluting later than the retention time window.

G12 Result is estimated. The method used is a screening procedure for this compound.

G13 Measurement performed using test strips.

G15 n-Nitrosodiphenylamine decomposes in the GC inlet and cannot be separated from Diphenylamine.

G16 Measurement upon receipt performed using test strips. Adjusted to pH <2.

G17 Results are influenced by the presence of extraneous peaks which are not representative of petroleum hydrocarbon products. Final results pending GC/MS confirmation.

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METHOD REFERENCES

	Soil/Groundwater				Wastewater			
Analytes	**ICP**	**Flame**	**Furnace**	**CV**	**ICP**	**Flame**	**Furnace**	**CV**
Aluminium	6010	7020	-	-	200.7	202.1	-	-
Antimony	6010	7040	7041	-	200.7	-	204.2	-
Arsenic	6010	-	7060	-	200.7	-	206.2	-
Barium	6010	7080	7081	-	200.7	208.1	208.2	-
Beryllium	6010	7090	7091	-	200.7	210.1	210.2	-
Boron	6010	-	-	-	200.7	-	-	-
Cadmium	6010	7130	7131	-	200.7	213.1	213.2	-
Calcium	6010	7140		-	200.7	215.1	-	-
Chromium, Total	6010	7190	7191	-	200.7	218.1	218.2	-
Cobalt	6010	7200	-	-	200.7	219.1	-	-
Copper	6010	7210	-	-	200.7	220.1	-	-
Iron	6010	7380	-	-	200.7	236.1	-	-
Lead	6010	7420	7421	-	200.7	239.1	239.2	-
Magnesium	6010	7450	-	-	200.7	242.1	-	-
Manganese	6010	7460	-	-	200.7	243.1	-	-
Mercury	-	-	-	7470/7471				245.1
Molybdenum	6010	7480	-	-	200.7	246.1	-	-
Nickel	6010	7520	-	-	200.7	249.1	-	-
Potassium	-	SM3500D	-	-	-	SM3500D	-	-
Selenium	6010	-	7740	-	200.7	-	270.2	-
Silver	6010	7760	7761	-	200.7	272.1	272.2	-
Sodium	6010	SM3500D	-	-	200.7	SM3500D	-	-
Strontium	6010	-	-	-	200.7	-	-	-
Thallium	6010	7840	7841	-	200.7	279.1	279.2	-
Tin	6010	-	-	-	200.7	-	-	-
Titanium	6010	-	-	-	200.7	-	-	-
Vanadium	6010	7910	7911	-	200.7	286.1	286.2	-
Zinc	6010	7950	-	-	200.7	289.1	-	-

SW846, "Test Methods for Evaluating Solid Waste", 3rd Ed., December 1987.

EPA-600, "Methods for Chemical Analysis of Water and Wastes", March 1984.

Standard Methods for the Examination of Water and Wastewater", 17th Edition, 1989.

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METHOD REFERENCES

Analytes	Aqueous	Non-Aqueous
Acidity	305.2	-
Alkalinity, Total	310.1 / 310.2	-
Alkalinity, Phenolphthalein	SM2320	-
Alkalinity, Bicarbonate	SM2320	-
Alkalinity, Carbonate	SM2320	-
BOD-5 day	SM5210,4500-0	-
Carbon, Percent Organic	-	29-3.5.3
Carbon, Total Organic (TOC)	415.1	-
Chloride	325.2	-
Chlorine, Residual	330.3	-
Chromium, Hexavalent	SM3500D	-
COD	410.4	-
Cyanide, Total	335.3	9012
Cyanide, Amenable	335.1	9012
Cyanide, Reactive	SW7.3	SW7.3
Density	SM2710F	SM2710F
Flashpoint, Closed Cup	SW1010	SW1010
Flashpoint, Open Cup	ASTMD4206	ASTMD4206
Fluoride	340.2	-
Hardness, Total	130.1	-
Nitrogen, Ammonia	350.2	350.2
Nitrogen, Nitrate	353.2	-
Nitrogen, Nitrite	353.2	-
Nitrogen, Nitrate+Nitrite	353.2	-
Nitrogen, Total Kjeldahl (TKN)	351.3	351.3
Nitrogen, Total Organic (TON)	350.2 & 351.3	350.2 & 351.3
Oil & grease	413.1	9071
Oil & grease (Non-polar)	5520F	-
Paint Filter Test	9095	9095
pH	150.1	9045
Phenol, Total	420.2	9066
Phosphorus, Total	365.1	365.1
Phosphorus, Ortho	365.2	-
Solids, Total	160.3	160.3
Solids, Total Dissolved	160.1	-
Solids, Total Suspended	160.2	-
Solids, Total Volatile	160.4	-
Solids, Total Volatile Suspended	160.4	-
Specific Conductance	120.1	-
Specific Weight	SM2710F	SM2710F
Sulfate	375.2	-
Sulfide, Total	376.1	9030
Sulfide, Reactive	SW7.3	SW7.3
Sulfite	377.1	-
Turbidity	180.1	-
TRPH	418.1 & 9073	418.1 & 9073

SW846, "Test Methods for Evaluating Solid Waste", 3rd Ed., December 1987.
EPA-600, "Methods for Chemical Analysis of Water and Wastes", March 1984.
Standard Methods for the Examination of Water and Wastewater", 17th Edition, 1989.
ASTM, Annual Book of American Society for Testing and Materials Standards, 1983, Volume 6.01.
Methods for Soil Analysis, 2nd Ed.

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METHOD REFERENCES

Compounds	Soil/Groundwater	Wastewater
Alcohol	8015*	8015*
BEXT	8020***	602
DRO	Modified DRO	Modified DRO
GRO	Modified GRO***	Modified GRO
Herbicides	8150	8150
Pesticides	8080	608
Pesticide/PCBs	8080	608
PCBs	8080**	608
PCBs	8080****	608
PCP Screen	8040****	8040****
PNA (GC/MS)	8270	8270
PNA (HPLC)	8310	8310
PVOCs	8020***	8020
SVOCs	8270	8270
TPH	D-3328-78*	D-3328-78*
TRPH	418.1 & 9073	418.1 & 9073
VOCs	8021	8021
VOCs	8010/8020***	601/602
Solids, Total	160.3	160.3

SW846, "Test Methods for Evaluating Solid Waste", 3rd Ed., December 1987.

EPA-600, "Methods for Organic Chemical Analysis of Water and Wastes", March, 1984.

ASTM, "Annual Book of ASTM Standards", 1990.

Wisconsin DNR Modified 9073 TRPH, PUBL-SW-140, Wisconsin DNR, April 1992.

Wisconsin DNR Modified DRO, PUBL-SW-141, Wisconsin DNR, July 1993.

Wisconsin DNR Modified GRO, PUBL-SW-140, Wisconsin DNR, July 1993.

* With Modifications
** With Modfications for Oil Matrix
*** With Modfications for Soil Gas Matrix
**** With Modifications for Wipe Matrix

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INORGANIC REPORT
ACS-GRIFFITH
GRIFFITH IN
Project Number: 4077.0030

Sample #	Description	Test	Result	Reporting Limit	Matrix	Units	Sample Date	Analysis Date
L10338-001	ACS-SC-ON-SITE-1	Biochemical Oxygen Demand	1690	1	WasteH2O	mg/L	16-MAR-95	23-MAR-95
L10338-002	ACS-SC-ON-SITE-2	Biochemical Oxygen Demand	3410	1	WasteH2O	mg/L	16-MAR-95	23-MAR-95
8-003	ACS-SC-ON-SITE-3	Biochemical Oxygen Demand	2160	1	WasteH2O	mg/L	16-MAR-95	23-MAR-95
L10338-004	ACS-SC-OFF-SITE-4	Biochemical Oxygen Demand	11900	1	WasteH2O	mg/L	16-MAR-95	23-MAR-95
L10338-005	ACS-SC-OFF-SITE-5	Biochemical Oxygen Demand	26100	1	WasteH2O	mg/L	16-MAR-95	23-MAR-95
L10338-006	ACS-SC-OFF-SITE-6	Biochemical Oxygen Demand	71600	1	WasteH2O	mg/L	16-MAR-95	23-MAR-95

Footnotes

ole #	Test	Footnote
L10338-001	Biochemical Oxygen Demand	A14
L10338-002	Biochemical Oxygen Demand	A14
L10338-003	Biochemical Oxygen Demand	A14
L10338-004	Biochemical Oxygen Demand	A14
L10338-005	Biochemical Oxygen Demand	A14
L10338-006	Biochemical Oxygen Demand	A14

Chk'd: App'd:
Date App'd: 3/30/95

WI Lab Certification ID#: 113138300

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METHOD REFERENCES

Analytes	Aqueous	Non-Aqueous
Acidity	305.2	-
Alkalinity, Total	310.1 / 310.2	-
Alkalinity, Phenolphthalein	SM2320	-
Alkalinity, Bicarbonate	SM2320	-
Alkalinity, Carbonate	SM2320	-
BOD-5 day	SM5210,4500-0	-
Carbon, Percent Organic	-	29-3.5.3
Carbon, Total Organic (TOC)	415.1	-
Chloride	325.2	-
Chlorine, Residual	330.3	-
Chromium, Hexavalent	SM3500D	-
COD	410.4	-
Cyanide, Total	335.3	9012
Cyanide, Amenable	335.1	9012
Cyanide, Reactive	SW7.3	SW7.3
Density	SM2710F	SM2710F
Flashpoint, Closed Cup	SW1010	SW1010
Flashpoint, Open Cup	ASTMD4206	ASTMD4206
Fluoride	340.2	-
Hardness, Total	130.1	-
Nitrogen, Ammonia	350.2	350.2
Nitrogen, Nitrate	353.2	-
Nitrogen, Nitrite	353.2	-
Nitrogen, Nitrate+Nitrite	353.2	-
Nitrogen, Total Kjeldahl (TKN)	351.3	351.3
Nitrogen, Total Organic (TON)	350.2 & 351.3	350.2 & 351.3
Oil & grease	413.1	9071
Oil & grease (Non-polar)	5520F	-
Paint Filter Test	9095	9095
pH	150.1	9045
Phenol, Total	420.2	9066
Phosphorus, Total	365.1	365.1
Phosphorus, Ortho	365.2	-
Solids, Total	160.3	160.3
Solids, Total Dissolved	160.1	-
Solids, Total Suspended	160.2	-
Solids, Total Volatile	160.4	-
Solids, Total Volatile Suspended	160.4	-
Specific Conductance	120.1	-
Specific Weight	SM2710F	SM2710F
Sulfate	375.2	-
Sulfide, Total	376.1	9030
Sulfide, Reactive	SW7.3	SW7.3
Sulfite	377.1	-
Turbidity	180.1	-
TRPH	418.1 & 9073	418.1 & 9073

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STANDARD REPORT FOOTNOTES

A1 Elevated quantitation limit due to low sample volume.

A2 Elevated quantitation limit necessary to overcome interference.

A4 Result should be considered estimated due to sample-related problems encountered during analysis.

A11 Sample received past recommended hold time.

A12 Analysis requested past recommended hold time.

A13 Initial analysis performed within hold time; confirmation analysis performed past recommended hold time. Results from repeat analysis are reported.

14 Initial analysis performed within hold time; necessary dilution performed past recommended hold time. Results from repeat analysis are reported.

A15 Result should be considered estimated; analyte detected in method blank.

A17 Result should be considered estimated as indicated by method QC.

M3 Total analysis performed due to insufficient solid for TCLP extraction.

G1 Result should be considered estimated, concentration exceeds working calibration range.

G2 Elevated quantitation limit due to the concentration of petroleum hydrocarbons in the sample.

G3 Elevated quantitation limit due to the concentration of non-specific hydrocarbons in the sample.

G4 Analyte coelutes with _____; result calculated from calibration standards in a 1:1 ratio of these two compounds.

G5 Sample required extensive cleanup; Endrin Aldehyde is not recovered from these techniques.

.6 Petroleum-type odor detected from this sample.

G7 Elevated quantitation limit due to the concentration of PCBs in the sample.

G8 Result should be considered estimated due to coelution with an additional hydrocarbon product.

G9 Results are influenced by the presence of extraneous peaks which are not representative of petroleum hydrocarbon products.

G10 Presence of one or more unidentified peaks eluting earlier than the retention time window.

G11 Presence of one or more unidentified peaks eluting later than the retention time window.

G12 Result is estimated. The method used is a screening procedure for this compound.

G13 Measurement performed using test strips.

G15 n-Nitrosodiphenylamine decomposes in the GC inlet and cannot be separated from Diphenylamine.

G16 Measurement upon receipt performed using test strips. Adjusted to pH <2.

G17 Results are influenced by the presence of extraneous peaks which are not representative of petroleum hydrocarbon products. Final results pending GC/MS confirmation.

WARZYN

DATA VALIDATION NARRATIVE

Site Name ACS Project # 4077.0030

Reviewed By/Date Steve Wiskes / 6-8-95

SMO Case# (SAS#) _____ # of Samples 12-6 VOCs 12-12 BOD

Laboratory Montgomery Watson Hours for Review _____

Samples: pump test trip blank, pump test-0min., pumptest 10min, pumptest 100min, pumptest 1000min, pumptest 1200min, pomptest 1440 min., sc onsite 1, sc on-site 2, sc onsite 3, sc offsite 4, sc offsite 5, sc offsite 6

Summary of Review:

A cursory review of the sample data was performed which included review of hold times, lab control samples, matrix spike, matrix spike duplicates, surrogates, initial and continuing calibrations, initial and continuing blanks, duplicates, and the VOC tripblank and number transcription from bench sheets to data tables. Note only deficiencies or data out of QC are discussed below.

VOC Results are acceptable. Benzene in the LCS sample had a recovery of 137% slightly high, but the continuing calibration and ms/msD for that day for benzene was acceptable, thus no action is required. Three of 20 ~~recovery~~ surrogate recoveries for the PID detector were slightly high but either the undiluted and/or diluted sample surrogate recovery was acceptable - thus no action necessary.

BOD results for samples 10364-001, 002, 003, 004, 005, and 006 were acceptable and QC was within limits.

BOD results for samples 10338-001, 002, 003, 004, and 005, and 006 are acceptable. Initially BOD samples were set-up and run within the required hold time but each sample was over range and was required to be repeated. Repeat analysis occurred beyond the hold time and repeat results are reported. Three continuing calibration recoveries were out of QC during this batch run of BOD's. The continuing calibrations that were out were run with different samples than ACS. In addition, the initial calibrations, final two continuing calibrations and LCS recoveries were acceptable, thus the data is acceptable.

Steve Wiskes
6/8/95

WARZYN

Geotechnical Laboratory Work Set-Up Sheet

DMR approved 3-15-95

Job No. 4077.0030

Job Name: American Chemical Services Inc Date 3 / 15 / 95

Job Location: Griffith, Indiana Sheet 1 of 1

☐ Unit Price ☐ Hourly ☐ Cost Sheet in _____ Data Storage _____ Attn: _____

Testing Applicability _____ Set Up By: _____

Type of Sample: (Special Lab Instructions or Notes)

"X" Jar Sample _____

"B" Bag Sample _____

"ST" Shelby Tube _____

"P" Pail _____

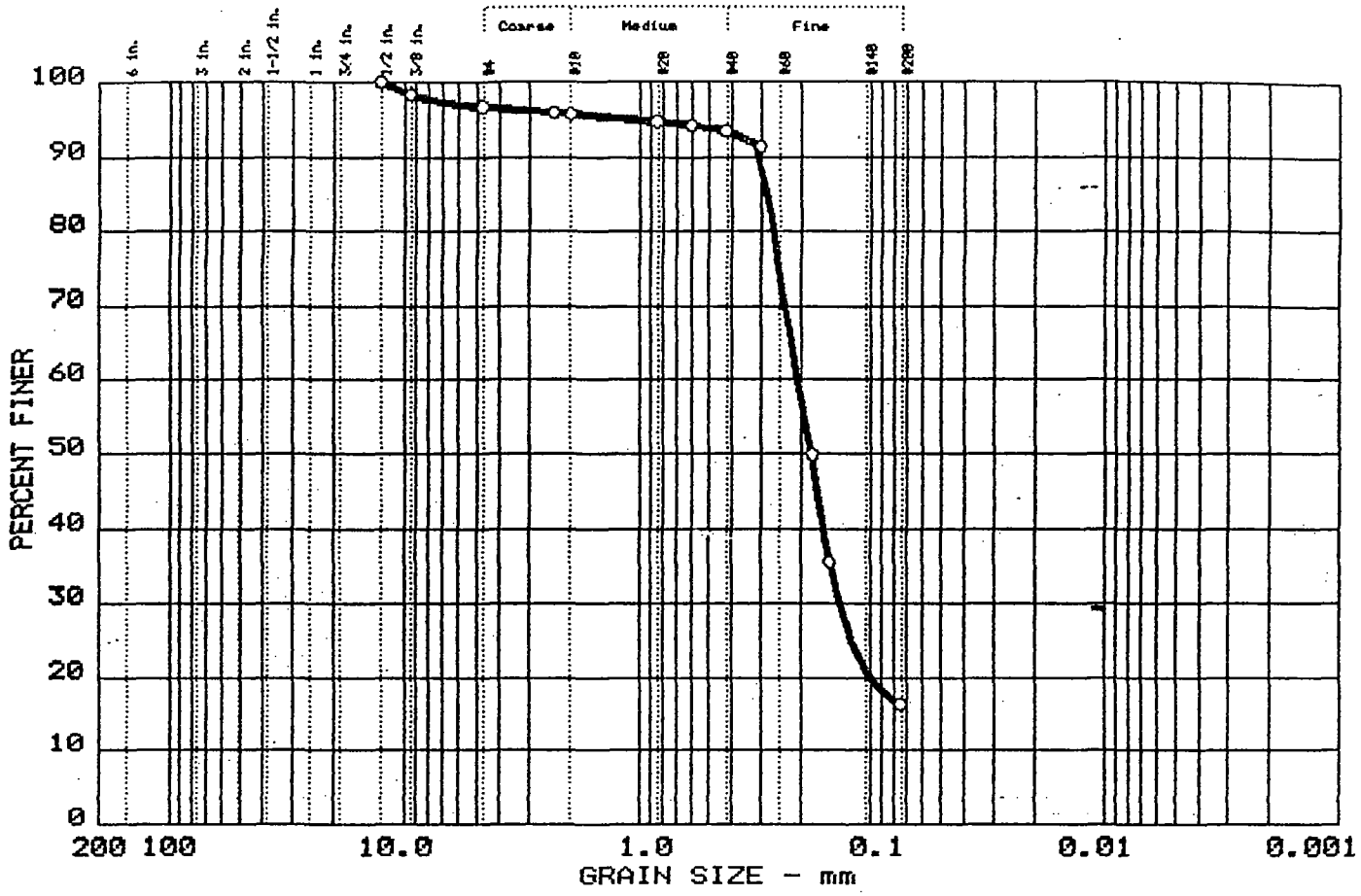
	Boring Test	Sample Lift	Layer Area	Location	Elev Depth	Color	Type	Laboratory Tests NM	LL	PL	LI	W/S	HYD	K			Lab Pan
			ACS-	EW01	8-10'	~~Gr-Br~~ DkGr	X					X					
			ACS-	EW01	12-14'	Gr-Br	X					X					
			ACS-	EW01	~~12-14'~~ 14-16'	~~DkGr~~ Gr-Br	X					X					

(Please use a pencil, write legibly and space out the entries)

* Primary Sample Designation for Reporting

Remarks: _____

GRAIN SIZE DISTRIBUTION TEST REPORT



Symbol	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
○	0.0	3.3	80.4	16.3	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○	--	--	0.279	0.207	0.180	0.136				

MATERIAL DESCRIPTION	USCS
○ Dark Gray Fine SAND, Some Silt and Clay, Trace Gravel	SM

Project No.: 4077.0030
Project: AMERICAN CHEMICAL SERVICES, INC.
○ Sample: ACS-EW01-8-10'

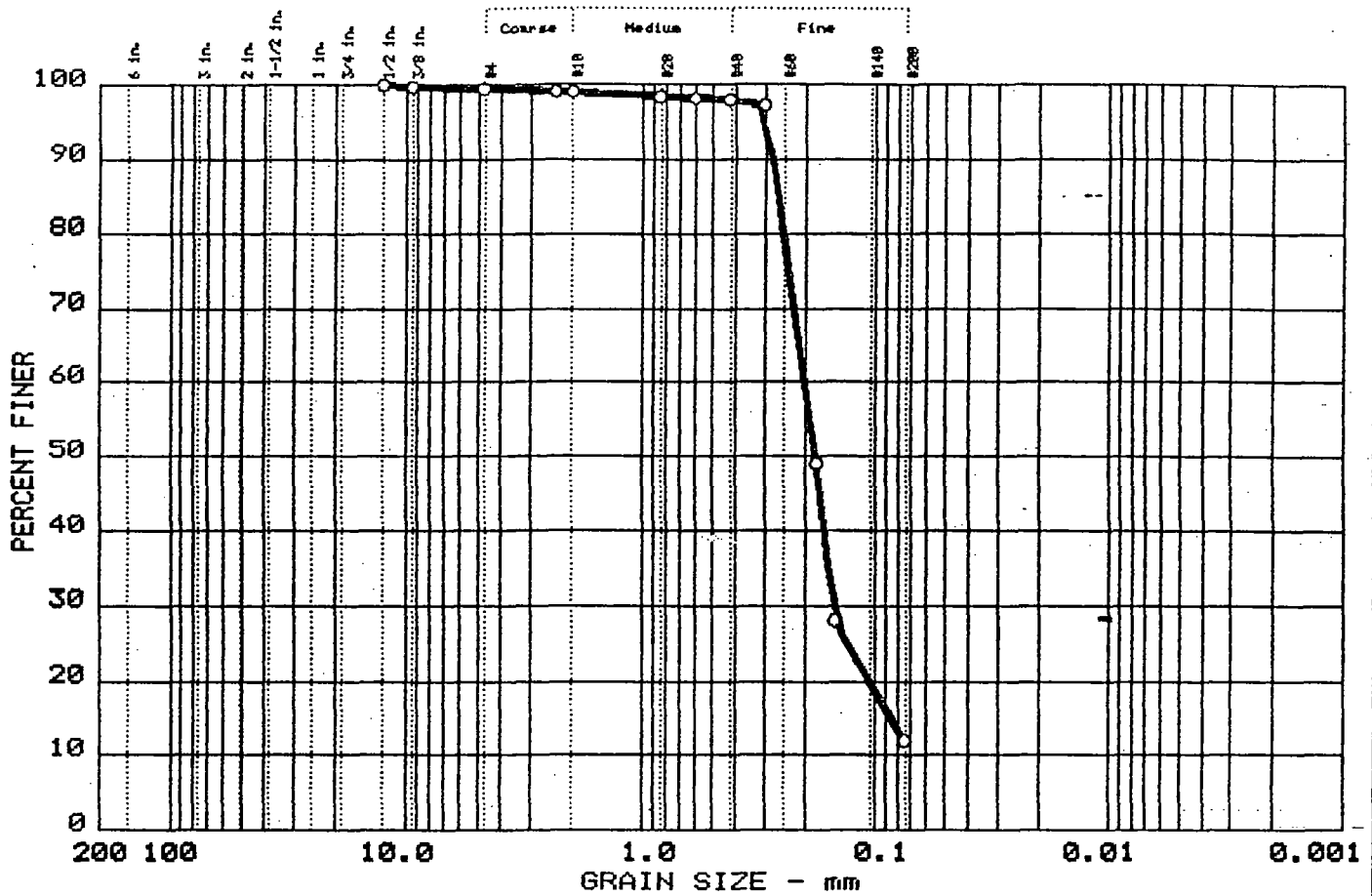
Date: March 15, 1995

Remarks:
TESTED BY CLS
CHECKED BY CLS
APPROVED BY DMR

GRAIN SIZE DISTRIBUTION TEST REPORT
MONTGOMERY WATSON

Sheet No. _____

GRAIN SIZE DISTRIBUTION TEST REPORT



Symbol	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
○	0.0	0.5	87.5	12.0	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○	--	--	0.263	0.202	0.180	0.153	0.0848			

MATERIAL DESCRIPTION	USCS
○ Gray-Brown Fine SAND, Little Silt and Clay, Trace Gravel	SP-SM

Project No.: 4077.0030
Project: AMERICAN CHEMICAL SERVICES, INC.
○ Sample: ACS-EW01-12-14'

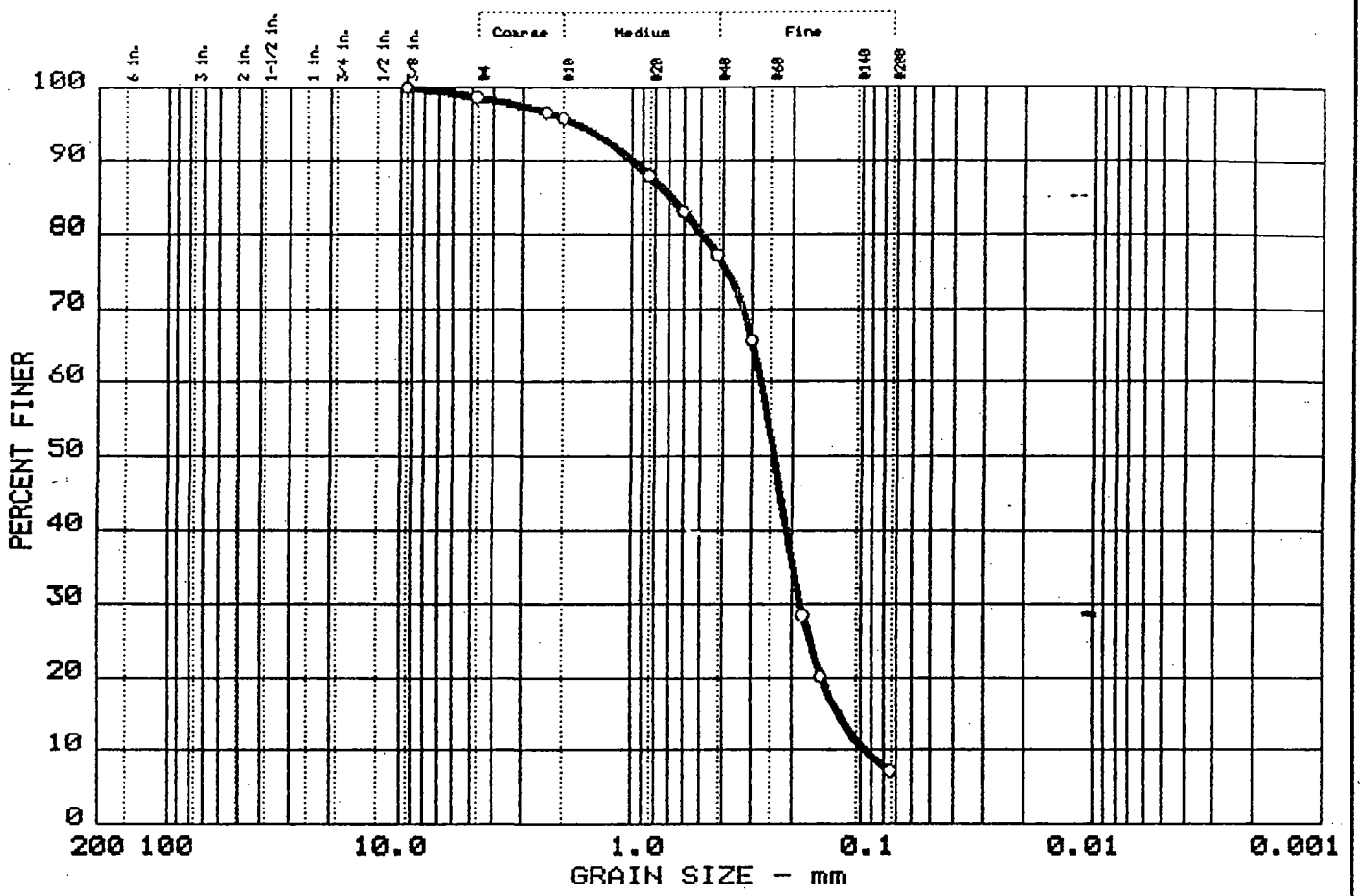
Date: March 15, 1995

Remarks:
TESTED BY CLS
CHECKED BY CLS
APPROVED BY DMR

GRAIN SIZE DISTRIBUTION TEST REPORT
MONTGOMERY WATSON

Sheet No. _____

GRAIN SIZE DISTRIBUTION TEST REPORT



Symbol	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
○	0.0	1.4	91.4	7.2	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○	--	--	0.684	0.274	0.240	0.185	0.126	0.0957	1.30	2.9

MATERIAL DESCRIPTION	USCS
○ Gray-Brown Fine-Medium SAND, Little Silt and Clay, Trace Gravel	SP-SM

Project No.: 4077.0030
Project: AMERICAN CHEMICAL SERVICES, INC.
○ Sample: ACS-EW01-14-16'

Date: March 15, 1995

Remarks:
TESTED BY CLS
CHECKED BY CLS
APPROVED BY DYM

GRAIN SIZE DISTRIBUTION TEST REPORT
MONTGOMERY WATSON

Sheet No. _____