U/A

SCANNED

REPORT ON PHASE III REMEDIAL ACTION PLAN
FORMER MALDEN MGP SITE - UPLAND PORTION
MALDEN, MASSACHUSETTS
RTN 3-0362
TIER IB PERMIT 7378

VOLUME II OF III
100 COMMERCIAL ST

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by

Haley & Aldrich, Inc.
Boston, Massachusetts

for

Massachusetts Electric Company
Northborough, Massachusetts

File No. 06558-634
June 2003

HALEY & ALDRICH

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APPENDIX C

Boring Logs, Monitoring Well Installation Reports, and Soil, Groundwater and Indoor Air Data Sheets

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TEST BORING REPORT

Boring No. 02B-B917

Project FORMER MALDEN MGP - 129 COMMERCIAL ST., MALDEN, MA
Client MASSACHUSETTS ELECTRIC COMPANY
Contractor GUILD DRILLING CO.

File No. 06558-631
Sheet No. 1 of 1
Start February 18, 2002
Finish February 18, 2002
Driller M. Fisher
H&A Rep. S. Shay
Elevation 15.2
Datum NGVD
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	S	-	Rig Make & Model: Electric Model C Skid
Inside Diameter (in.)	-	1.375/2.5	-	Bit Type: -
				Drill Mud: None
Hammer Weight (lb.)	-	140	-	Casing: -
Hammer Fall (in.)	-	30	-	Hoist/Hammer: Cat-Head Doughnut Hammer

Depth (ft.)	SPT[1]	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size[2], structure, odor, moisture, optional descriptions, geologic interpretation)	% Coarse Gravel	% Fine Gravel	% Coarse Sand	% Medium Sand	% Fine Sand	% Fines	Dilatancy	Toughness	Plasticity	Strength
0					14.7		-CONCRETE Floor Slab-										
	19 25 36 54	S1 16	0.6 2.6	NO WELL INSTALLED	0.5 13.7	SP	Top 10.0 in.: Dense yellow brown poorly graded SAND (SP), mps 1.0 mm, no structure, no odor, dry			5	90	5					
					1.5	SP-SM	-FILL- Bottom 6.0 in.: Very dense dark brown to gray brown poorly graded SAND with silt and gravel (SP-SM), mps 2.0 cm, no structure, no odor, dry. Gravel sized fragments frequently concrete.	15	10	15	50	10					
	43 43 49 72	S2 14	2.6 4.6			SP-SM	Similar to above	15	10	15	50	10					
					10.6		-FILL-										
5	43 150 153 26	S3 12	4.6 6.6		4.6	SP	Very dense dark brown poorly graded SAND (SP), mps 3.0 cm as fractured concrete pieces, no structure, no odor, dry	5	10	20	60	5					
	39 13 29	S4 8	6.6 8.1			SP	Similar to above. Coarse gravel sized concrete fragments in spoon tip	5	10	20	60	5					
					7.1		-FILL-										
	150/1" +25/0"				8.1		Note: Unable to drive chisel tip point beyond 8.1 ft. Possible former foundation.										

SPLIT SPOON REFUSAL AT 8.1 FT.

Note: Moved boring approximately 34.5 ft to the North, designated as 02B-B918-OW.

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft.) to: Bottom of Casing	Bottom of Hole	Water
2/18/02	1130	-	-	8.1	Dry

Sample Identification

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (lin. ft.) 8.1
Rock Cored (lin. ft.) -
Samples S4

Boring No. 02B-B917

Field Tests: Dilatancy: R-Rapid, S-Slow, N-None Toughness: L-Low, M-Medium, H-High Plasticity: N-Nonplastic, L-Low, M-Medium, H-High Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High

[1]SPT = Sampler blows per 6 in. [2]Maximum particle size is determined by direct observation within the limitations of sampler size.

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

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TEST BORING REPORT

Boring No. 02B-B918-OW

Project FORMER MALDEN MGP - 129 COMMERCIAL ST., MALDEN, MA
Client MASSACHUSETTS ELECTRIC COMPANY
Contractor GUILD DRILLING CO.

File No. 06558-631
Sheet No. 1 of 2
Start February 18, 2002
Finish February 19, 2002
Driller M. Fisher
H&A Rep. S. Shay
Elevation 15.2
Datum NGVD
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	S	-	Rig Make & Model: Electric Model C Skid
Inside Diameter (in.)	-	1.375/2.5	-	Bit Type: -
Hammer Weight (lb.)	-	140	-	Drill Mud: None
Hammer Fall (in.)	-	30	-	Casing: -
				Hoist/Hammer: Cat-Head Doughnut Hammer

Depth (ft.)	SPT[1]	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size[2], structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0					14.6		-CONCRETE Floor Slab-										
	20 32 169	S1 15	0.7 2.2		0.6 13.7	SP	Top 12.0 in.: Very dense yellow brown poorly graded SAND (SP), mps 8.0 mm, no structure, no odor, dry. Appears to be disturbed.		5	5	5	80	5				
	87 67 49 53	S2 14	2.2 4.2		1.5 11.2	SP-SM SP-SM	-FILL- Bottom 3.0 in.: Very dense dark brown decayed asphalt Very dense gray brown mottled poorly graded SAND with silt (SP-SM), mps 2.0 cm, no structure, slight MGP odor, 10% ash, brick, cinders by volume -MISCELLANEOUS FILL-		10	20	20	40	10				
5	28 42 28 13	S3 12	4.2 6.2		4.0 9.2	SM	Very dense dark brown silty SAND (SM), mps 1.0 cm, no structure, slight MGP odor, dry. Color change to brown bottom 2.0 in. -FILL-				10	10	40	40			
	14 20 18 14	S4 14	6.2 8.2		6.0	SW	Dense yellow brown well graded SAND (SW), mps 5.0 mm, well stratified, moderately well sorted, no odor, dry -GLACIOFLUVIAL DEPOSITS-				30	30	35	5			
	16 14 16 17	S5 0	8.2 10.2		5.2		No recovery Note: Recovery 4.0 in. of tan fine SAND on second attempt at this interval. Outside of spoon dry, sample dry.										
10	11 10 9 14	S6 9	10.2 12.2		10.0 3.2	SM	Medium dense tan silty SAND (SM), mps 1.0 mm, frequent partings, no odor, dry -GLACIOFLUVIAL DEPOSITS-				10	45	45				
	13 14	S7 8	12.2 13.2		12.0 2.2	SP	Dense yellow brown poorly graded SAND (SP), mps 6.0 mm, weakly stratified, MGP odor, dry -GLACIOFLUVIAL DEPOSITS-		5	20	30	40	5				
	17 32	S7A 10	13.2 14.2		13.0	SP	Dense black silty SAND (SM), frequent partings, very strong MGP odor, moist				10	50	40				
15	24 24 21 27	S8 10	14.2 16.2			SM	-GLACIOFLUVIAL DEPOSITS- Dense black silty SAND (SM), mps 3.0 mm, frequent partings, very strong MGP odor, moist				10	50	40				
	20 14 18 18	S9 15	16.2 18.2			SM	Similar to above, very strong MGP odor				5	55	40				
	21 25 25 28	S10 18	18.2 20.2			SM	Similar to above Note: Black staining, strong MGP odor from 13.0 to 20.2 ft.				5	55	40				
20																	

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft.) to: Bottom of Casing	Bottom of Hole	Water
2/19/02	0700	13.0	-	16.2*	Dry to 12 ft.
2/19/02	0830	-	-	20.2	13.5

Sample Identification

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (lin. ft.) 20.2
Rock Cored (lin. ft.) -
Samples S10

Boring No. 02B-B918- OW

Field Tests: Dilatancy: R-Rapid, S-Slow, N-None Toughness: L-Low, M-Medium, H-High Plasticity: N-Nonplastic, L-Low, M-Medium, H-High Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High

[1]SPT = Sampler blows per 6 in. [2]Maximum particle size is determined by direct observation within the limitations of sampler size

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

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TEST BORING REPORT

Boring No. 02B-B918- OW
File No. 06558-631
Sheet No. 2 of 2

Depth (ft.)	SPT[1]	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size[2], structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
20					-5.0												
					20.2		BOTTOM OF EXPLORATION 20.2 FT										
							Note: Installed Observation Well in completed borehole at 19.5 ft.										

[1]SPT = Sampler blows per 6 in. [2]Maximum particle size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. 02B-B918-OW

HALEY & ALDRICH

TEST BORING REPORT

Boring No. 02B-B919

Project FORMER MALDEN MGP - 129 COMMERCIAL ST., MALDEN, MA
Client MASSACHUSETTS ELECTRIC COMPANY
Contractor GUILD DRILLING CO.

File No. 06558-631
Sheet No. 1 of 1
Start February 19, 2002
Finish February 19, 2002
Driller M. Fisher
H&A Rep. S. Shay
Elevation 15.2
Datum NGVD
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	S	-	Rig Make & Model: Electric Model C Skid
Inside Diameter (in.)	-	1.375/2.5	-	Bit Type: -
Hammer Weight (lb.)	-	140	-	Drill Mud: None
Hammer Fall (in.)		30	-	Casing: -
				Hoist/Hammer: Cat-Head Doughnut Hammer

Depth (ft.)	SPT[1]	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size[2], structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0				NO WELL INSTALLED	14.5		-CONCRETE Floor Slab-										
					0.7		-Coarse GRAVEL base-										
	15 24 18 126	S1 18	1.0 3.0		14.2	SP	Dense yellow brown poorly graded SAND (SP)										
					1.0		-FILL-										
					13.2		Very dense black ASPHALT										
					2.0		-FILL-										
	36 28 36 19	S2 12	3.0 5.0		12.2	SM	Very dense black silty SAND (SM), mps 5.0 cm, no structure, no odor, dry, trace ash, cinders										
					3.0		-FILL-										
					11.2		Medium dense brown yellow brittle solidified furnace by-product, no odor										
					4.0		-FILL-										
5	22 42 31 48	S3 12	5.0 7.0		10.2	SM	Very dense dark brown silty SAND (SM), mps 3.1 cm, no structure, no odor, dry, trace cinders										
					5.0		-FILL-										
	35 8 100/4"	S4 9	7.0 8.3			SM	Similar to above										
	5 9 120/3" *50/0"	S5 9	9.0 10.2			SM	Very dense black silty SAND (SM), mps 1.0 cm, no structure, strong MGP odor at spoon tip, moist at spoon tip, trace ash, decomposed wood fibers										
10					5.0												
					10.2		REFUSAL AT 10.2 FT										
							Note: Unable to penetrate at 10.2 ft using drive point.										

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft.) to: Bottom of Casing	Bottom of Hole	Water
					N/A

Sample Identification

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (lin. ft.) 10.2
Rock Cored (lin. ft.) -
Samples S5

Boring No. 02B-B919

Field Tests: Dilatancy: R-Rapid, S-Slow, N-None Plasticity: N-Nonplastic, L-Low, M-Medium, H-High
Toughness: L-Low, M-Medium, H-High Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High

[1]SPT = Sampler blows per 6 in. [2]Maximum particle size is determined by direct observation within the limitations of sampler size.

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

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HALEY & ALDRICH

TEST BORING REPORT

Boring No. 02B-B920-OW

Project FORMER MALDEN MGP - 129 COMMERCIAL ST., MALDEN, MA
Client MASSACHUSETTS ELECTRIC COMPANY
Contractor GUILD DRILLING CO.

File No. 06558-631
Sheet No. 1 of 2
Start February 20, 2002
Finish February 21, 2002
Driller M. Fisher
H&A Rep. S. Shay
Elevation 15.2
Datum NGVD
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	BW	S	-	Rig Make & Model: Electric Model C Skid
Inside Diameter (in.)	2.5	1.375/2.5	-	Bit Type: -
Hammer Weight (lb.)	300	140	-	Drill Mud: None
Hammer Fall (in.)	24	30	-	Casing: BW drive 10.0 to 18.0 ft
				Hoist/Hammer: Cat-Head Doughnut Hammer

Depth (ft.)	SPT[1]	Sample No. & Rec. (in.)	Sample Depth (ft.)	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size[2], structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0				14.6		-CONCRETE Floor Slab-										
				0.6												
	9 18 10 16	S1 18	0.8 2.8		SP-SM	Dense dark brown poorly graded SAND with silt and gravel (SP-SM), mps 2.0 cm, no structure, no odor, dry. Asphalt layer 3.0 in. wide at approximately 2.0 ft.										
	16 72 145 104	S2 16	2.8 5.0		SP-SM	Same as above except fractured coarse gravel instead of asphalt -FILL- Note: Driller overdrove S2 to 5.0 ft. Advanced borehole with drive point from 5.0 to 5.5 ft.										
5																
	23 13 13 12	S3 12	5.5 7.5		SM	Dark brown medium dense silty SAND (SM), mps 4.0 cm, no structure, no odor, dry										
				7.7 7.5												
	11 12 12 12	S4 18	7.5 9.5		SP	Medium dense tan poorly graded SAND (SP), mps 3.0 mm, no structure, very weakly stratified, no odor, dry -GLACIOFLUVIAL DEPOSITS-			15	40	40	5				
				5.2												
10	18 18 16 15	S5 7	10.0 12.0	10.0	SM	Dense gray brown silty SAND (SM), mps 1.0 mm, frequent partings, slight MGP odor, dry -GLACIOFLUVIAL DEPOSITS-				5	60	35				
	11 14 14 16	S6 12	12.0 14.0		SM	Medium dense gray brown silty SAND (SM), mps 1.0 mm, frequent partings, strong MGP odor, moist. Black staining bottom 3.0 in.				5	60	35				
15	9 7 12 17	S7 6	14.0 16.0		SM	Medium dense black silty SAND (SM), mps 1.0 mm, no structure, very strong MGP odor, wet				10	55	35				
	7 9 17 25	S8 12	16.0 18.0		SM	Medium dense black silty SAND (SM), mps 1.0 mm, no structure, very strong MGP odor, wet				10	55	35				
	19 21 20 25	S9 1	18.0 20.0		SM	Dense gray brown silty SAND (SM), mps 1.0 mm, frequent partings, strong MGP odor, wet. Black staining not present.				10	55	35				
20				-4.8												

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft.) to: Bottom of Casing	Bottom of Hole	Water
2/21/02	0715	16.5	15.0*	16.0	12.4

Sample Identification

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (lin. ft.) 20.0
Rock Cored (lin. ft.) -
Samples S9

Boring No. 02B-B920- OW

Field Tests: Dilatancy: R-Rapid, S-Slow, N-None Plasticity: N-Nonplastic, L-Low, M-Medium, H-High
Toughness: L-Low, M-Medium, H-High. Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High

[1]SPT = Sampler blows per 6 in. [2]Maximum particle size is determined by direct observation within the limitations of sampler size.

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

USCS_TB4 USCSLIB4.GLB USCSTB-CORE4.GDT G:\06558\631\LOGS.GPJ May 29, 03

HALEY & ALDRICH

TEST BORING REPORT

Boring No. 02B-B920- OW
File No. 06558-631
Sheet No. 2 of 2

Depth (ft.)	SPT[1]	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size[2], structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
20					20.0		BOTTOM OF EXPLORATION 20.0 FT Note: Installed Observation Well in completed borehole at 19.5 ft.										

[1]SPT = Sampler blows per 6 in. [2]Maximum particle size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. 02B-B920-OW

HALEY & ALDRICH

TEST BORING REPORT

Boring No. 02B-B921-OW

Project FORMER MALDEN MGP - 129 COMMERCIAL ST., MALDEN, MA
Client MASSACHUSETTS ELECTRIC COMPANY
Contractor GUILD DRILLING CO.

File No. 06558-631
Sheet No. 1 of 2
Start February 21, 2002
Finish February 21, 2002
Driller M. Fisher
H&A Rep. S. Shay
Elevation 15.2
Datum NGVD
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	BW	S	-	Rig Make & Model: Electric Model C Skid
Inside Diameter (in.)	2.5	1.375/2.5	-	Bit Type: -
Hammer Weight (lb.)	300	140	-	Drill Mud: None
Hammer Fall (in.)	24	30	-	Casing: BW drive to 16.0 ft
				Hoist/Hammer: Cat-Head Doughnut Hammer

Depth (ft.)	SPT[1]	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size[2], structure, odor, moisture, optional descriptions, geologic interpretation)	% Coarse Gravel	% Fine Gravel	% Coarse Sand	% Medium Sand	% Fine Sand	% Fines	Dilatancy	Toughness	Plasticity	Strength
0					14.7		-CONCRETE Floor Slab-										
	6 9 10 19	S1 14	0.5 2.5		0.5	SP	Medium dense yellow brown poorly graded SAND (SP), mps 2.0 cm, no structure, no odor, dry			15	15	65	5				
							-FILL-										
	10 9 12 15	S2 12	2.5 4.5			SP	Similar to above		5	15	15	60	5				
5	12 7 4 4	S3 10	4.5 6.5			SP	Similar to above except slightly more gravel, mps 3.0 cm		10	10	15	60	5				
	5 5 4 4	S4 9	6.5 8.5			SP	Similar to above except mps 4.0 cm as wood pieces, dry		10	10	15	60	5				
	6 3 8 4	S5 12	8.5 10.5		5.2	SP	Top 9.0 in.: similar to above. Bottom 3.0 in.: sample graded to yellow brown fine sand, dry		10	10	15	60	5				
10					0.0												
	15 8 14 12	S6 0	10.5 12.5			SP-SM	No recovery. Outside of spoon dry. Recovered 6.0 in. yellow brown fine SAND (SP-SM) on second attempt.				20	70	10				
							-GLACIOFLUVIAL DEPOSITS-										
						SP	Note: Installed BW casing to 13.0 ft. Medium dense black poorly graded SAND (SP), mps 1.0 mm, no structure, strong MGP odor, wet				15	80	5				
	9 10 10 12	S7 4	13.0 15.0														
15	18 17 15 6	S8 20	15.0 17.0			SP	Similar to above				15	80	5				
	8 17 21 25	S9 12	17.0 19.0			SP	Top 7.0 in.: similar to above. Sample graded abruptly to tan in bottom 5.0 in. Strong MGP odor				15	80	5				
	21 25	S10 10	19.0 21.0			SM	Very dense tan silty SAND (SM), mps 0.8 cm, no structure, strong MGP odor			20	10	30	40				
20																	

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft.) to: Bottom of Casing	Bottom of Hole	Water
2/21/02	1500	-	13.0	15.0	13.0

Sample Identification

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (lin. ft.) 21.0
Rock Cored (lin. ft.) -
Samples S10

Boring No. 02B-B921-OW

Field Tests: Dilatancy: R-Rapid, S-Slow, N-None Plasticity: N-Nonplastic, L-Low, M-Medium, H-High
Toughness: L-Low, M-Medium, H-High Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High

[1]SPT = Sampler blows per 6 in. [2]Maximum particle size is determined by direct observation within the limitations of sampler size.

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

HALEY & ALDRICH

TEST BORING REPORT

Boring No. 02B-B921- OW
File No. 06558-631
Sheet No. 2 of 2

Depth (ft.)	SPT[1]	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size[2], structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
20	34 47						-GLACIOFLUVIAL DEPOSITS-										
					-5.8 21.0		BOTTOM OF EXPLORATION 21.0 FT										
							Note: Installed Observation Well in completed borehole at 19.5 ft.										

[1]SPT = Sampler blows per 6 in. [2]Maximum particle size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. 02B-B921-OW

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HALEY & ALDRICH

TEST BORING REPORT

Boring No. 02B-B922-OW

Project FORMER MALDEN MGP - 129 COMMERCIAL ST., MALDEN, MA
Client MASSACHUSETTS ELECTRIC COMPANY
Contractor GUILD DRILLING CO.

File No. 06558-631
Sheet No. 1 of 1
Start February 21, 2002
Finish February 22, 2002
Driller M. Fisher
H&A Rep. S. Shay
Elevation 15.2
Datum NGVD
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	BW	S	-	Rig Make & Model: Electric Model C Skid
Inside Diameter (in.)	2.5	1.375/2.5	-	Bit Type: -
				Drill Mud: None
Hammer Weight (lb.)	300	140	-	Casing: BW drive to 15.0 ft
Hammer Fall (in.)	24	30	-	Hoist/Hammer: Cat-Head Doughnut Hammer

Depth (ft.)	SPT[1]	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size[2], structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0					14.6		-CONCRETE Floor Slab-										
					0.6												
	9 8 9 13	S1 15	0.8 2.8			SP-SM	Medium dense dark brown mottled poorly graded SAND with silt and gravel (SP-SM), mps 3.0 cm, no structure, no odor, dry		15	15	30	30	10				
	10 8 10 12	S2 14	2.8 4.8			SP-SM	Similar to above except 10% ash, 3% cinders, 2% brick fragments by volume										
5	12 11 5 2	S3 16	4.8 6.8			SP-SM	Similar to above except 5% ash, 2% cinders										
							-FILL-										
	3 2 2 2	S4 0	6.8 8.8				No recovery										
					6.2												
	8 9 11 10	S5 2	8.8 10.8		9.0	SP	Medium dense yellow brown poorly graded SAND (SP), mps 2.0 mm, no structure, no odor, dry. Recovered 6.0 in. of brown soil from above. Overall poor recovery.				15	80	5				
10							-GLACIOFLUVIAL DEPOSITS-										
	23 9 8 8	S6 12	10.8 12.8			SP	Medium dense black poorly graded SAND (SP), mps 3.0 mm, no structure, strong MGP odor, moist in bottom 3.0 in.										
	9 8 7 9	S7 7	12.8 14.8			SM	Medium dense black silty SAND (SM), mps 1.0 mm, no structure, very strong MGP odor with sheen, wet				20	50	30				
15	6 5 6 8	S8 4	15.0 17.0			SP	Medium dense black poorly graded SAND (SP), mps 2.0 mm, no structure, very strong MGP odor, wet				55	40	5				
	7 7 12 15	S9 15	17.0 19.0			SP	Similar to above except sheen present				55	40	5				
					-3.8												
					19.0		BOTTOM OF EXPLORATION 19.0 FT Note: Installed Observation Well in completed borehole at 18.5 ft.										

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft.) to: Bottom of Casing	Bottom of Hole	Water
2/21/02	1750	-	-	12.8	12.5*

*Water depth based on moisture in bottom of S6.

Sample Identification

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (lin. ft.) 19.0
Rock Cored (lin. ft.) -
Samples S9

Boring No. 02B-B922- OW

Field Tests: Dilatancy: R-Rapid, S-Slow, N-None Plasticity: N-Nonplastic, L-Low, M-Medium, H-High
Toughness: L-Low, M-Medium, H-High Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High

[1]SPT = Sampler blows per 6 in. [2]Maximum particle size is determined by direct observation within the limitations of sampler size.

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

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HALEY & ALDRICH

TEST BORING REPORT

Boring No. 02B-B923-OW

Project FORMER MALDEN MGP - 129 COMMERCIAL ST., MALDEN, MA
Client MASSACHUSETTS ELECTRIC COMPANY
Contractor GUILD DRILLING CO.

File No. 06558-631
Sheet No. 1 of 1
Start February 22, 2002
Finish February 22, 2002
Driller M. Fisher
H&A Rep. S. Shay
Elevation 15.2
Datum NGVD
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	BW	S	-	Rig Make & Model: Electric Model C Skid
Inside Diameter (in.)	2.5	1.375/2.5	-	Bit Type: -
Hammer Weight (lb.)	300	140	-	Drill Mud: None
Hammer Fall (in.)	24	30	-	Casing:
				Hoist/Hammer: Cat-Head Doughnut Hammer

Depth (ft.)	SPT[1]	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size[2], structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0					14.7		-CONCRETE Floor Slab-										
	10 27 39 30	S1 12	0.5 2.5		0.5	SP	Very dense brown poorly graded SAND (SP), mps 2.0 cm, no structure, no odor, dry, 5% ash by volume		5	20	20	45	5				
							-MISCELLANEOUS FILL-										
	33 16 12 34	S2 16	2.5 4.5				Similar to above										
5	15 17 10 13	S3 18	4.5 6.5				Similar to above except 30% brick by volume, 5% ash, 5% cinders										
	16 12	S4 12	6.5 7.5		7.7		Similar to above except 15% brick, 10% concrete, 5% ash										
	11 13	S4A 12	7.5 8.5		7.5	SP	Medium dense yellow brown poorly graded SAND (SP), mps 4.0 mm, moderately stratified, no odor, dry			10	45	40	5				
							-GLACIOFLUVIAL DEPOSITS-										
	15 11 18 18	S5 14	8.5 10.5			SP	Similar to above, dry										
10	12 13 12 15	S6 10	10.5 12.5			SP	Medium dense yellow brown poorly graded SAND (SP), mps 4.0 mm, well stratified, no odor, dry			15	15	65	5				
	10 12 12 16	S7 12	13.0 15.0			SP	Medium dense yellow brown poorly graded SAND (SP), mps 5.0 mm, weak stratification, very slight MGP odor, wet			15	20	60	5				
15	8 8 11 12	S8 20	15.0 17.0			SP	Medium dense yellow brown poorly graded SAND (SP), mps 5.0 mm, grading to black in bottom 10.0 in.			15	20	60	5				
	7 12 19 21	S9 16	17.0 19.0			SP	Dense black poorly graded SAND (SP), mps 4.0 mm, no structure, strong MGP odor, wet			15	20	60	5				
					-3.8 19.0		BOTTOM OF EXPLORATION 19.0 FT Note: Installed Observation Well in completed borehole at 17.5 ft.										

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft.) to: Bottom of Casing	Bottom of Hole	Water
					N/A

Sample Identification

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (lin. ft.) 19.0
Rock Cored (lin. ft.) -
Samples 59

Boring No. 02B-B923-OW

Field Tests: Dilatancy: R-Rapid, S-Slow, N-None
Toughness: L-Low, M-Medium, H-High
Plasticity: N-Nonplastic, L-Low, M-Medium, H-High
Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High

[1]SPT = Sampler blows per 6 in. [2]Maximum particle size is determined by direct observation within the limitations of sampler size.

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

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HALEY & ALDRICH

TEST BORING REPORT

Boring No. 02B-B924

Project FORMER MALDEN MGP - 129 COMMERCIAL ST., MALDEN, MA
Client MASSACHUSETTS ELECTRIC COMPANY
Contractor GUILD DRILLING CO.

File No. 06558-631
Sheet No. 1 of 1
Start July 27, 2002
Finish July 28, 2002
Driller K. Fisher
H&A Rep. S. Shay
Elevation 15.3±
Datum NGVD
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	PW/HW	S	-	Rig Make & Model: Acker Electric Skid
Inside Diameter (in.)	5.0/4.0	1 3/8	-	Bit Type: -
Hammer Weight (lb.)	300	140	-	Drill Mud: None
Hammer Fall (in.)	24	30	-	Casing: PW drive to 8.0 ft, HW drive to 10.0 ft
				Hoist/Hammer: Cat-Head Doughnut Hammer

Depth (ft.)	SPT[1]	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size[2], structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0							-CONCRETE Slab-										
	19 15 17/5"	S1 15	0.6 2.0		0.6	SP	Dense brown poorly graded SAND (SP), trace brick, trace asphalt, mps 3 cm, no structure, no odor, dry. -FILL- PID=0.4/0.4 ppm		5	25	30	35	5				
	11 16 28 20	S2 6	2.0 4.0			SP	Similar to S1 above. PID=0.4/0.4 ppm Note: Common cobbles visible along sides of open hole.			25	25	45	5				
5	5 14 7 5	S3 9	4.0 6.0			SP-SM	Medium dense brown poorly graded SAND with silt (SP-SM), mps 2.5 cm, no structure, slight MGP odor, moist from drilling. PID=5.0/0.4 ppm			25	25	40	10				
	3 3 3 5	S4 14	6.0 8.0			SP	Loose tan with brown poorly graded SAND (SP), mps 3 cm, no structure, no odor, dry. PID=2.0/0.4 ppm			25	25	40	10				
	11 6 6 45	S5 8	8.0 10.0			SP-SM	Medium dense brown poorly graded SAND with silt (SP-SM), trace brick, mps 1.8 cm, no structure, slight MGP odor, wet from drilling. PID=60/0.4 ppm Note: Increase in effort to drive spoon at 10.0 ft.			25	25	40	10				
10					10.0		Note: Obstruction (possible sub-floor) 10.0 to 10.5 ft.										
	21 24 25 26	S6 16	10.5 12.5		10.5	SM	Dense brown silty SAND (SM), mps 2 mm, no structure, MGP odor, wet. Black staining bottom 8 inches. PID=180/0.4 ppm -GLACIOLACUSTRINE DEPOSITS-										
	24 34 33 23	S7 10	12.5 14.5			SM	Very dense black silty SAND (SM), mps 2 mm, frequent partings, strong MGP odor, wet. Occasional oil-saturated seams with sheen up to 1/2 inch wide. PID=225/0.4 ppm					50	50				
15	7 9 16 11	S8 9	14.5 16.5		14.5	SW	Medium dense black well graded SAND (SW), mps 3 mm, no structure, very strong MGP odor, wet. -GLACIOLACUSTRINE DEPOSITS-										
					16.5		BOTTOM OF EXPLORATION 16.5 FT Note: Installed three 1 inch diameter soil vapor points in completed borehole. See Soil Vapor Point Installation Reports for details.										

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft.) to: Bottom of Casing	Bottom of Hole	Water
7/27/02	0930	-	10.0	12.5	12.0±

Sample Identification

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (lin. ft.) 16.5
Rock Cored (lin. ft.) -
Samples S8

Boring No. 02B-B924

Field Tests: Dilatancy: R-Rapid, S-Slow, N-None Plasticity: N-Nonplastic, L-Low, M-Medium, H-High
Toughness: L-Low, M-Medium, H-High Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High

[1]SPT = Sampler blows per 6 in. [2]Maximum particle size is determined by direct observation within the limitations of sampler size.

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

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HALEY & ALDRICH

OBSERVATION WELL INSTALLATION REPORT

Project	FORMER MALDEN MGP	Observation Well	02B-B918-OW
City/State	129 COMMERCIAL ST., MALDEN, MA	Test Boring	02B-B918-OW
Client	MASS ELECTRIC	Installation Date	19-Feb-02
Contractor	GUILD DRILLING CO.	Location	See Plan
Driller	M. FISHER	H&A File No.	06558-631
		H&A Rep.	S. Shay

Ground El. 15.2

El. Datum NGVD

SOIL/ROCK CONDITIONS (Numbers refer to elevation/depth from ground surface in feet) (not to scale)	BOREHOLE BACKFILL
-CONCRETE- 0.6	-TEMPORARY SEAL- 0.6
-FILL-	-FILTER SAND- 1.0
	-BENTONITE- 2.0
6.0 -GLACIOFLUVIAL DEPOSITS-	
10.0 -GLACIOFLUVIAL DEPOSITS-	
12.0 -GLACIOFLUVIAL DEPOSITS-	-FILTER SAND-
13.0 -GLACIOFLUVIAL DEPOSITS-	
20.2	20.2

Type of protective cover/lock:	Temp. Concrete Seal
Depth of top of roadway box below ground surface	N/A ft
Depth of top of riser pipe below ground surface	0.5 ft
Type of protective casing:	Not used
Length	- ft
Inside diameter	- in
Depth of bottom of roadway box	- ft

Seals:

Type	Depth to top (ft)	Thickness (ft)
Temp. Concrete	0.0	0.2
Bentonite Seal	1.0	1.0

Type of riser pipe:	Sch 40 PVC
Inside diameter of riser pipe	1.0 in
Type of backfill around riser:	Filter Sand/Bentonite
Diameter of borehole	3.0 in
Depth of top of well screen	9.5 ft
Type of screen or manufacturer:	Machine slotted PVC
Screen gauge or size of openings	0.010 in
Diameter of well screen	1.0 in
Type of backfill around screen	Filter Sand
Depth of bottom of well screen	19.5 ft
Depth of bottom of silt trap	- ft
Depth of bottom of borehole	20.2 ft

Bottom of Exploration (Depths refer to ground surface)

Remarks: Water level based on moisture observed in split spoon.

HALEY & ALDRICH

OBSERVATION WELL INSTALLATION REPORT

Project	FORMER MALDEN MGP	Observation Well	02B-B920-OW
City/State	129 COMMERCIAL ST., MALDEN, MA	Test Boring	02B-B920-OW
Client	MASS ELECTRIC	Installation Date	21-Feb-02
Contractor	GUILD DRILLING CO.	Location	See Plan
Driller	M. FISHER	H&A File No.	06558-631
		H&A Rep.	S. Shay

Ground El. 15.2

El. Datum NGVD

SOIL/ROCK CONDITIONS	BOREHOLE BACKFILL
(Numbers refer to elevation/depth from ground surface in feet) (not to scale)	
-CONCRETE- 0.6	-TEMPORARY SEAL- 0.6
	-OPEN- 1.0
-FILL-	-BENTONITE-
	5.0
7.5	
-GLACIOFLUVIAL DEPOSITS-	
10.0	
	-FILTER SAND-
-GLACIOFLUVIAL DEPOSITS-	
20.0	20.0

Bottom of Exploration

Type of protective cover/lock:	Temp. Concrete Seal
Depth of top of roadway box below ground surface	N/A ft
Depth of top of riser pipe below ground surface	0.6 ft
Type of protective casing:	Not used
Length	- ft
Inside diameter	- in
Depth of bottom of roadway box	- ft

Seals:

Type	Depth to top (ft)	Thickness (ft)
Temp. Concrete	0.0	0.2
Bentonite Seal	1.0	4.0

Type of riser pipe:	Sch 40 PVC
Inside diameter of riser pipe	1.0 in
Type of backfill around riser:	Filter Sand/Bentonite
Diameter of borehole	3.0 in
Depth of top of well screen	9.5 ft
Type of screen or manufacturer:	Machine slotted PVC
Screen gauge or size of openings	0.010 in
Diameter of well screen	1.0 in
Type of backfill around screen	Filter Sand
Depth of bottom of well screen	19.5 ft
Depth of bottom of silt trap	- ft
Depth of bottom of borehole	20.2 ft

(Depths refer to ground surface)

Remarks:

HALEY & ALDRICH

OBSERVATION WELL INSTALLATION REPORT

Project	FORMER MALDEN MGP	Observation Well	02B-B921-OW
City/State	129 COMMERCIAL ST., MALDEN, MA	Test Boring	02B-B921-OW
Client	MASS ELECTRIC	Installation Date	21-Feb-02
Contractor	GUILD DRILLING CO.	Location	See Plan
Driller	M. FISHER	H&A File No.	06558-631
		H&A Rep.	S. Shay

Ground El. 15.2

El. Datum NGVD

SOIL/ROCK CONDITIONS	BOREHOLE BACKFILL
-CONCRETE- 0.5	-TEMPORARY SEAL- 0.5
	-OPEN- 1.0
-FILL-	-BENTONITE-
	7.5
10.0	
-GLACIOFLUVIAL DEPOSITS-	-FILTER SAND-
21.0	21.0

(Numbers refer to elevation/depth from ground surface in feet)

(not to scale)

Type of protective cover/lock: Temp. Concrete Seal

Depth of top of roadway box below ground surface: N/A ft

Depth of top of riser pipe below ground surface: 0.6 ft

Type of protective casing: Not used

Length: - ft

Inside diameter: - in

Depth of bottom of roadway box: - ft

Seals:

Type	Depth to top (ft)	Thickness (ft)
Temp. Concrete	0.0	0.2
Bentonite Seal	1.0	6.5

Type of riser pipe: Sch 40 PVC

Inside diameter of riser pipe: 1.0

Type of backfill around riser: Filter Sand/Bentonite

Diameter of borehole: 3.0 in

Depth of top of well screen: 9.5

Type of screen or manufacturer: Machine slotted PVC

Screen gauge or size of openings: 0.010

Diameter of well screen: 1.0 in

Type of backfill around screen: Filter Sand

Depth of bottom of well screen: 19.5

Depth of bottom of silt trap: - ft

Depth of bottom of borehole: 21.0

Bottom of Exploration

(Depths refer to ground surface)

Remarks:

HALEY & ALDRICH

OBSERVATION WELL INSTALLATION REPORT

Project	FORMER MALDEN MGP	Observation Well	02B-B922-OW
City/State	129 COMMERCIAL ST., MALDEN, MA	Test Boring	02B-B922-OW
Client	MASS ELECTRIC	Installation Date	22-Feb-02
Contractor	GUILD DRILLING CO.	Location	See Plan
Driller	M. FISHER	H&A File No.	06558-631
		H&A Rep.	S. Shay

Ground El. 15.2

El. Datum NGVD

SOIL/ROCK CONDITIONS (Numbers refer to elevation/depth from ground surface in feet) (not to scale)

BOREHOLE BACKFILL

-CONCRETE- 0.6

-TEMPORARY SEAL- 0.6

-OPEN- 1.0

-FILL-

-BENTONITE- 5.0

9.0

-GLACIOFLUVIAL DEPOSITS-

-FILTER SAND-

19.0 Bottom of Exploration

19.0

Type of protective cover/lock:	Temp. Concrete Seal
Depth of top of roadway box below ground surface	N/A ft
Depth of top of riser pipe below ground surface	0.6 ft
Type of protective casing:	Not used
Length	- ft
Inside diameter	- in
Depth of bottom of roadway box	- ft

Seals:

Type	Depth to top (ft)	Thickness (ft)
Temp. Concrete	0.0	0.2
Bentonite Seal	1.0	4.0

Type of riser pipe:	Sch 40 PVC
Inside diameter of riser pipe	1.0 in
Type of backfill around riser:	Filter Sand/Bentonite
Diameter of borehole	3.0 in
Depth of top of well screen	8.5 ft
Type of screen or manufacturer:	Machine slotted PVC
Screen gauge or size of openings	0.010 in
Diameter of well screen	1.0 in
Type of backfill around screen	Filter Sand
Depth of bottom of well screen	18.5 ft
Depth of bottom of silt trap	- ft
Depth of bottom of borehole	19.0 ft

(Depths refer to ground surface)

Remarks:

HALEY & ALDRICH

OBSERVATION WELL INSTALLATION REPORT

Project	FORMER MALDEN MGP	Observation Well	02B-B923-OW
City/State	129 COMMERCIAL ST., MALDEN, MA	Test Boring	02B-B923-OW
Client	MASS ELECTRIC	Installation Date	22-Feb-02
Contractor	GUILD DRILLING CO.	Location	See Plan
Driller	M. FISHER	H&A File No.	06558-631
		H&A Rep.	S. Shay

Ground El. 15.2

El. Datum NGVD

SOIL/ROCK CONDITIONS | BOREHOLE BACKFILL

(Numbers refer to elevation/depth from ground surface in feet)

(not to scale)

-CONCRETE- 0.5

-TEMPORARY SEAL- 0.5

-FILL-

-BENTONITE- 5.0

7.5

-FILTER SAND-

-GLACIOFLUVIAL DEPOSITS-

19.0 | 19.0

Bottom of Exploration

Type of protective cover/lock:	Temp. Concrete Seal
Depth of top of roadway box below ground surface	N/A ft
Depth of top of riser pipe below ground surface	0.6 ft
Type of protective casing:	Not used
Length	-
Inside diameter	- in
Depth of bottom of roadway box	- ft

Seals:

Type	Depth to top (ft)	Thickness (ft)
Temp. Concrete	0.0	0.2
Bentonite Seal	1.0	4.0

Type of riser pipe:	Sch 40 PVC
Inside diameter of riser pipe	1.0 in
Type of backfill around riser:	Filter Sand/Bentonite
Diameter of borehole	3.0 in
Depth of top of well screen	7.5 ft
Type of screen or manufacturer:	Machine slotted PVC
Screen gauge or size of openings	0.010
Diameter of well screen	1.0 in
Type of backfill around screen	Filter Sand
Depth of bottom of well screen	17.5 ft
Depth of bottom of silt trap	- ft
Depth of bottom of borehole	19.0 ft

(Depths refer to ground surface)

Remarks:

HALEY & ALDRICH

SOIL VAPOR POINT INSTALLATION REPORT

Project	FORMER MALDEN MGP	Observation Well	SV-1
City/State	129 COMMERCIAL ST., MALDEN, MA	Test Boring	02B-B924
Client	MASSACHUSETTS ELECTRIC COMPANY	Installation Date	28-Jul-02
Contractor	GUILD DRILLING CO.	Location	See Plan
Driller	K. FISHER	H&A File No.	06558-631
		H&A Rep.	S. Shay

Ground El. Approx. 15.3 ft

El. Datum NGVD

SOIL/ROCK CONDITIONS	BOREHOLE BACKFILL
(Numbers refer to elevation/depth from ground surface in feet) (not to scale)	
-FLOOR SLAB- 0.6	-CONCRETE- 0.5
	-SAND- 1.0
	-BENTONITE-
-FILL-	3.0
	-FILTER SAND-
	6.0
	-BENTONITE-

Type of protective cover: Cured Concrete Plug

Depth of top of roadway box below ground surface: N/A ft

Depth of top of riser pipe below ground surface: 0.6 ft

Type of protective casing: Not used

Length: - ft

Inside diameter: - in

Depth of bottom of roadway box: - ft

Seals:

Type	Depth to top (ft)	Thickness (ft)
Concrete	0.0	0.5
Bentonite	1.0	2.0
Bentonite	6.0	0.8

Type of riser pipe: PVC Sch 40

Inside diameter of riser pipe: 1.0 in

Type of backfill around riser: Filter Sand

Diameter of borehole: 6 in. to 10 ft, 4.5 in. to 14.5 ft

Depth of top of well screen: 3.5 ft

Type of screen or manufacturer: Machine Slotted PVC

Screen gauge or size of openings: 0.010 in

Diameter of well screen: 1.0 in

Type of backfill around screen: Filter Sand

Depth of bottom of well screen: 5.9 ft

Depth of bottom of silt trap: Not Used

Depth of bottom of borehole: 16.5 ft

16.5 Bottom of Exploration (Depths refer to ground surface)

Remarks: Shallow triplet in common borehole.

HALEY & ALDRICH

SOIL VAPOR POINT INSTALLATION REPORT

Observation Well	SV-2		
Test Boring	02B-B924		
Installation Date	28-Jul-02		
Location	See Plan		
H&A File No.	06558-631		
H&A Rep.	S. Shay		

Project	FORMER MALDEN MGP
City/State	129 COMMERCIAL ST., MALDEN, MA
Client	MASSACHUSETTS ELECTRIC COMPANY
Contractor	GUILD DRILLING CO.
Driller	K. FISHER

Ground El. Approx. 15.3 ft

El. Datum NGVD

SOIL/ROCK CONDITIONS | BOREHOLE BACKFILL

(Numbers refer to elevation/depth from ground surface in feet)

(not to scale)

-FLOOR SLAB-

0.6

-BENTONITE-

6.8

-FILL-

-FILTER SAND-

9.5

10.0

-OBSTRUCTION-

-BENTONITE-

10.5

-GLACIO-LACUSTRINE DEPOSITS-

Type of protective cover:	Cured Concrete Plug
Depth of top of roadway box below ground surface	N/A ft
Depth of top of riser pipe below ground surface	0.6 ft
Type of protective casing:	Not used
Length	- ft
Inside diameter	- in
Depth of bottom of roadway box	- ft

Seals:

Type	Depth to top (ft)	Thickness (ft)
Concrete	0.0	0.5
Bentonite	6.0	0.8
Bentonite	9.5	1.0

Type of riser pipe:	PVC Sch 40
Inside diameter of riser pipe	1.0 in
Type of backfill around riser:	Filter Sand
Diameter of borehole	6 in. to 10 ft, 4.5 in. to 14.5 ft
Depth of top of well screen	7.3 ft
Type of screen or manufacturer:	Machine Slotted PVC
Screen gauge or size of openings	0.010
Diameter of well screen	1.0 in
Type of backfill around screen	Filter Sand
Depth of bottom of well screen	9.3
Depth of bottom of silt trap	Not Used
Depth of bottom of borehole	16.5

16.5 Bottom of Exploration (Depths refer to ground surface)

Remarks: Intermediate triplet in common borehole.

HALEY & ALDRICH

SOIL VAPOR POINT INSTALLATION REPORT

Project	FORMER MALDEN MGP	Observation Well	SV-3
City/State	129 COMMERCIAL ST., MALDEN, MA	Test Boring	02B-B924
Client	MASSACHUSETTS ELECTRIC COMPANY	Installation Date	28-Jul-02
Contractor	GUILD DRILLING CO.	Location	See Plan
Driller	K. FISHER	H&A File No.	06558-631
		H&A Rep.	S. Shay

Ground El. Approx. 15.3 ft

El. Datum NGVD

SOIL/ROCK CONDITIONS | BOREHOLE BACKFILL

(Numbers refer to elevation/depth from ground surface in feet)

(not to scale)

-OBSTRUCTION-

10.5

-BENTONITE-

10.5

-FILTER SAND-

12.0

-GLACIO-LACUSTRINE DEPOSITS-

Black staining 11.2 to 16.5 ft

-BENTONITE-

Type of protective cover: Cured Concrete Plug

Depth of top of roadway box below ground surface: N/A ft

Depth of top of riser pipe below ground surface: 0.6 ft

Type of protective casing: Not used

Length: - ft

Inside diameter: - in

Depth of bottom of roadway box: - ft

Seals:

Type	Depth to top (ft)	Thickness (ft)
Concrete	0.0	0.5
Bentonite	9.5	1.0
Bentonite	12.0	4.5

Type of riser pipe: PVC Sch 40

Inside diameter of riser pipe: 1.0 in

Type of backfill around riser: Filter Sand

Diameter of borehole: 6 in. to 10 ft, 4.5 in. to 14.5 ft

Depth of top of well screen: 10.5 ft

Type of screen or manufacturer: Machine Slotted PVC

Screen gauge or size of openings: 0.010 in

Diameter of well screen: 1.0 in

Type of backfill around screen: Filter Sand

Depth of bottom of well screen: 11.5 ft

Depth of bottom of silt trap: Not Used

Depth of bottom of borehole: 16.5 ft

16.5 Bottom of Exploration

(Depths refer to ground surface)

Remarks: Deep triplet in common borehole.

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220 www.alphalab.com

RECEIVED
JUN 2 1 2002
Haley & Aldrich, Inc.

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 PA:68-03671 USACE

CERTIFICATE OF ANALYSIS

Client: Haley & Aldrich, Inc.

Address: 465 Medford Street, Suite 2200
Boston, MA 02129-1400

Attn: Mr. Steve Provencal

Project Number: 06588-635

Site: MALDEN MCP

Laboratory Job Number: L0205660

Invoice Number: 64642

Date Received: 10-JUN-02

Date Reported: 17-JUN-02

Delivery Method: Alpha

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0205660-01	SS-101 C1	
L0205660-02	SS-102 C1	
L0205660-03	SS-103 C1	
L0205660-04	SS-101 S1	
L0205660-05	SS-102 S1	
L0205660-06	SS-103 S1	
L0205660-07	TRIP BLANK	
L0205660-08	SS-103 C1 DUP	
L0205660-09	SS-103 S1 DUP	

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by: James R. Roth, PhD

James R. Roth, PhD - Technical Director
This document electronically signed

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 MR:MA086 RI:65

Laboratory Sample Number: L0205660-01
SS-101 C1
Sample Matrix: SOIL

Date Collected: 09-JUN-2002 09:00
Date Received : 10-JUN-2002
Date Reported : 17-JUN-2002

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Amber,1-Plastic

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Solids, Total	88.	%	0.10	30	2540G		0611 15:10	MA
Cyanide, Total	5.4	mg/kg	0.20	1	9010B	0611 18:45	0612 13:18	ED
Cyanide, Physiologically Available	0.87	mg/kg	0.22	45		0612 16:03	0614 11:35	ED
Total Metals				1	3051			
Arsenic, Total	7.6	mg/kg	0.45	1	6010B	0613 16:00	0614 09:50	TT
Barium, Total	72.	mg/kg	0.45	1	6010B	0613 16:00	0614 09:50	TT
Cadmium, Total	0.85	mg/kg	0.45	1	6010B	0613 16:00	0614 09:50	TT
Chromium, Total	38.	mg/kg	0.45	1	6010B	0613 16:00	0614 09:50	TT
Lead, Total	300	mg/kg	2.2	1	6010B	0613 16:00	0614 09:50	TT
Mercury, Total	0.41	mg/kg	0.09	1	7471A	0613 16:25	0614 10:42	DM
Selenium, Total	ND	mg/kg	0.90	1	6010B	0613 16:00	0614 09:50	TT
Silver, Total	ND	mg/kg	0.45	1	6010B	0613 16:00	0614 09:50	TT
PNA's by GC/MS 8270				1	8270C	0611 14:25	0614 10:37	HL
Acenaphthene	ND	ug/kg	1100					
2-Chloronaphthalene	ND	ug/kg	1400					
Fluoranthene	11000	ug/kg	1100					
Naphthalene	ND	ug/kg	1100					
Benzo(a)anthracene	8100	ug/kg	1100					
Benzo(a)pyrene	8300	ug/kg	1100					
Benzo(b)fluoranthene	7300	ug/kg	1100					
Benzo(k)fluoranthene	6800	ug/kg	1100					
Chrysene	8400	ug/kg	1100					
Acenaphthylene	4200	ug/kg	1100					
Anthracene	3400	ug/kg	1100					
Benzo(ghi)perylene	6600	ug/kg	1100					
Fluorene	ND	ug/kg	1100					
Phenanthrene	4700	ug/kg	1100					
Dibenzo(a,h)anthracene	1900	ug/kg	1100					
Indeno(1,2,3-cd)pyrene	5800	ug/kg	1100					
Pyrene	14000	ug/kg	1100					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0205660-01
SS-101 C1

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
PNA's by GC/MS 8270 continued				1	8270C	0611 14:25	0614 10:37	HL
Benzo(e)pyrene	6000	ug/kg	1100					
Biphenyl	ND	ug/kg	1100					
Perylene	2300	ug/kg	1100					
1-Methylnaphthalene	ND	ug/kg	1100					
2-Methylnaphthalene	ND	ug/kg	1800					
Surrogate Recovery								
Nitrobenzene-d5	71.0	%						
2-Fluorobiphenyl	77.0	%						
4-Terphenyl-d14	74.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0205660-01
SS-101 C1

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Extractable Petroleum Hydrocarbons				46 98-1	0611 09:25	0614 04:19	PD

Quality Control Information

Condition of sample received: Satisfactory
Sample temperature upon receipt: Received on Ice
Sample extraction method: Extracted Per the Method
Were all QA/QC procedures REQUIRED by the method followed? YES
Were all performance/acceptance standards for the required procedures achieved? YES
Were significant modifications made to the method as specified in Sect 11.3? NO
Please note to subtract the method blank from the stated result.
The normal acceptance range for the extraction surrogates, Chloro-octadecane and o-Terphenyl, is 40-140%.
The normal acceptance range for the fractionation surrogates, 2-Fluorobiphenyl and 2-Bromonaphthalene, is 40-140%.

C9-C18 Aliphatics, Unadjusted	ND	mg/kg	102.
C19-C36 Aliphatics, Unadjusted	155.	mg/kg	102.
C11-C22 Aromatics, Unadjusted	542.	mg/kg	102.

Surrogate Recovery

Chloro-Octadecane	114.	%
o-Terphenyl	136.	%
2-Fluorobiphenyl	105.	%
2-Bromonaphthalene	113.	%

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0205660-02
SS-102 C1
Sample Matrix: SOIL

Date Collected: 09-JUN-2002 10:00
Date Received : 10-JUN-2002
Date Reported : 17-JUN-2002

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Amber,1-Plastic

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Solids, Total	86.	%	0.10	30	2540G		0611 15:10	MA
Cyanide, Total	6.5	mg/kg	0.27	1	9010B	0611 18:45	0612 13:14	ED
Cyanide, Physiologically Available	1.9	mg/kg	0.21	45		0612 16:03	0614 11:37	ED
Total Metals				1	3051			
Arsenic, Total	9.5	mg/kg	0.46	1	6010B	0613 16:00	0614 10:02	TT
Barium, Total	53.	mg/kg	0.46	1	6010B	0613 16:00	0614 10:02	TT
Cadmium, Total	ND	mg/kg	0.46	1	6010B	0613 16:00	0614 10:02	TT
Chromium, Total	17.	mg/kg	0.46	1	6010B	0613 16:00	0614 10:02	TT
Lead, Total	340	mg/kg	2.3	1	6010B	0613 16:00	0614 10:02	TT
Mercury, Total	0.38	mg/kg	0.09	1	7471A	0613 16:25	0614 10:42	DM
Selenium, Total	ND	mg/kg	0.93	1	6010B	0613 16:00	0614 10:02	TT
Silver, Total	ND	mg/kg	0.46	1	6010B	0613 16:00	0614 10:02	TT
PNA's by GC/MS 8270				1	8270C	0611 14:25	0614 08:16	HL
Acenaphthene	ND	ug/kg	580					
2-Chloronaphthalene	ND	ug/kg	700					
Fluoranthene	9500	ug/kg	580					
Naphthalene	1400	ug/kg	580					
Benzo(a)anthracene	6000	ug/kg	580					
Benzo(a)pyrene	6200	ug/kg	580					
Benzo(b)fluoranthene	4900	ug/kg	580					
Benzo(k)fluoranthene	4900	ug/kg	580					
Chrysene	6300	ug/kg	580					
Acenaphthylene	2400	ug/kg	580					
Anthracene	2600	ug/kg	580					
Benzo(ghi)perylene	4600	ug/kg	580					
Fluorene	800	ug/kg	580					
Phenanthrene	8400	ug/kg	580					
Dibenzo(a,h)anthracene	1300	ug/kg	580					
Indeno(1,2,3-cd)pyrene	4100	ug/kg	580					
Pyrene	12000	ug/kg	580					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0205660-02
SS-102 C1

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
PNA's by GC/MS 8270 continued				1	8270C	0611 14:25	0614 08:16	HL
Benzo(e)pyrene	4200	ug/kg	580					
Biphenyl	ND	ug/kg	580					
Perylene	1700	ug/kg	580					
1-Methylnaphthalene	940	ug/kg	580					
2-Methylnaphthalene	980	ug/kg	930					
Surrogate Recovery								
Nitrobenzene-d5	36.0	%						
2-Fluorobiphenyl	39.0	%						
4-Terphenyl-d14	38.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0205660-02
SS-102 C1

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Extractable Petroleum Hydrocarbons				46 98-1	0611 09:25	0614 05:09	PD

Quality Control Information

Condition of sample received: Satisfactory
Sample temperature upon receipt: Received on Ice
Sample extraction method: Extracted Per the Method
Were all QA/QC procedures REQUIRED by the method followed? YES
Were all performance/acceptance standards for the required procedures achieved? YES
Were significant modifications made to the method as specified in Sect 11.3? NO
Please note to subtract the method blank from the stated result.
The normal acceptance range for the extraction surrogates, Chloro-octadecane and o-Terphenyl, is 40-140%.
The normal acceptance range for the fractionation surrogates, 2-Fluorobiphenyl and 2-Bromonaphthalene, is 40-140%.

C9-C18 Aliphatics, Unadjusted	65.4	mg/kg	58.1
C19-C36 Aliphatics, Unadjusted	151.	mg/kg	58.1
C11-C22 Aromatics, Unadjusted	1730	mg/kg	58.1

Surrogate Recovery

Chloro-Octadecane	125.	%
o-Terphenyl	74.0	%
2-Fluorobiphenyl	101.	%
2-Bromonaphthalene	75.0	%

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0205660-03
SS-103 C1
Sample Matrix: SOIL

Date Collected: 09-JUN-2002 11:30
Date Received : 10-JUN-2002
Date Reported : 17-JUN-2002

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Amber,1-Plastic

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Solids, Total	87.	%	0.10	30	2540G		0611 15:10	MA
Cyanide, Total	1.6	mg/kg	0.25	1	9010B	0611 18:45	0612 13:17	ED
Cyanide, Physiologically Available	0.40	mg/kg	0.23	45		0612 16:03	0614 11:38	ED
Total Metals				1	3051			
Arsenic, Total	8.9	mg/kg	0.46	1	6010B	0613 16:00	0614 10:13	TT
Barium, Total	62.	mg/kg	0.46	1	6010B	0613 16:00	0614 10:13	TT
Cadmium, Total	0.47	mg/kg	0.46	1	6010B	0613 16:00	0614 10:13	TT
Chromium, Total	16.	mg/kg	0.46	1	6010B	0613 16:00	0614 10:13	TT
Lead, Total	300	mg/kg	2.3	1	6010B	0613 16:00	0614 10:13	TT
Mercury, Total	0.25	mg/kg	0.09	1	7471A	0613 16:25	0614 10:42	DM
Selenium, Total	ND	mg/kg	0.92	1	6010B	0613 16:00	0614 10:13	TT
Silver, Total	ND	mg/kg	0.46	1	6010B	0613 16:00	0614 10:13	TT
PNA's by GC/MS 8270				1	8270C	0611 14:25	0614 09:03	HL
Acenaphthene	ND	ug/kg	570					
2-Chloronaphthalene	ND	ug/kg	690					
Fluoranthene	1600	ug/kg	570					
Naphthalene	ND	ug/kg	570					
Benzo(a)anthracene	1100	ug/kg	570					
Benzo(a)pyrene	1100	ug/kg	570					
Benzo(b)fluoranthene	920	ug/kg	570					
Benzo(k)fluoranthene	890	ug/kg	570					
Chrysene	1100	ug/kg	570					
Acenaphthylene	ND	ug/kg	570					
Anthracene	ND	ug/kg	570					
Benzo(ghi)perylene	760	ug/kg	570					
Fluorene	ND	ug/kg	570					
Phenanthrene	820	ug/kg	570					
Dibenzo(a,h)anthracene	ND	ug/kg	570					
Indeno(1,2,3-cd)pyrene	710	ug/kg	570					
Pyrene	1800	ug/kg	570					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0205660-03
SS-103 C1

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
PNA's by GC/MS 8270 continued				1	8270C	0611 14:25	0614 05:03	HL
Benzo(e)pyrene	760	ug/kg	570					
Biphenyl	ND	ug/kg	570					
Perylene	ND	ug/kg	570					
1-Methylnaphthalene	ND	ug/kg	570					
2-Methylnaphthalene	ND	ug/kg	920					
Surrogate Recovery								
Nitrobenzene-d5	32.0	%						
2-Fluorobiphenyl	37.0	%						
4-Terphenyl-d14	37.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0205660-05
SS-102 S1
Sample Matrix: SOIL

Date Collected: 09-JUN-2002 09:30
Date Received : 10-JUN-2002
Date Reported : 17-JUN-2002

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Solids, Total	87.	%	0.10	30 2540G		0612 05:45	DP
Volatile Organics 8260 via High 5035				1, 8260B		0612 20:29	AR
Methylene chloride	ND	ug/kg	2000				
1,1-Dichloroethane	ND	ug/kg	310				
Chloroform	ND	ug/kg	310				
Carbon tetrachloride	ND	ug/kg	200				
1,2-Dichloropropane	ND	ug/kg	720				
Dibromochloromethane	ND	ug/kg	200				
1,1,2-Trichloroethane	ND	ug/kg	310				
Tetrachloroethene	ND	ug/kg	200				
Chlorobenzene	ND	ug/kg	200				
Trichlorofluoromethane	ND	ug/kg	1000				
1,2-Dichloroethane	ND	ug/kg	200				
1,1,1-Trichloroethane	ND	ug/kg	200				
Bromodichloromethane	ND	ug/kg	200				
trans-1,3-Dichloropropene	ND	ug/kg	200				
cis-1,3-Dichloropropene	ND	ug/kg	200				
1,1-Dichloropropene	ND	ug/kg	1000				
Bromoform	ND	ug/kg	200				
1,1,2,2-Tetrachloroethane	ND	ug/kg	200				
Benzene	ND	ug/kg	200				
Toluene	ND	ug/kg	310				
Ethylbenzene	ND	ug/kg	200				
Chloromethane	ND	ug/kg	1000				
Bromomethane	ND	ug/kg	820				
Vinyl chloride	ND	ug/kg	410				
Chloroethane	ND	ug/kg	410				
1,1-Dichloroethene	ND	ug/kg	200				
trans-1,2-Dichloroethene	ND	ug/kg	310				
Trichloroethene	ND	ug/kg	200				
1,2-Dichlorobenzene	ND	ug/kg	1000				
1,3-Dichlorobenzene	ND	ug/kg	1000				
1,4-Dichlorobenzene	ND	ug/kg	1000				
Methyl tert butyl ether	ND	ug/kg	410				
p/m-Xylene	300	ug/kg	200				
o-Xylene	ND	ug/kg	200				
cis-1,2-Dichloroethene	ND	ug/kg	200				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0205660-05
SS-102 S1

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics 8260 via High 5035 continued				1	8260B		0612 20:29	AR
Dibromomethane	ND	ug/kg	2000					
1,4-Dichlorobutane	ND	ug/kg	2000					
Iodomethane	ND	ug/kg	2000					
1,2,3-Trichloropropane	ND	ug/kg	2000					
Styrene	ND	ug/kg	200					
Dichlorodifluoromethane	ND	ug/kg	2000					
Acetone	ND	ug/kg	2000					
Carbon disulfide	ND	ug/kg	2000					
2-Butanone	ND	ug/kg	2000					
Vinyl acetate	ND	ug/kg	2000					
4-Methyl-2-pentanone	ND	ug/kg	2000					
2-Hexanone	ND	ug/kg	2000					
Ethyl methacrylate	ND	ug/kg	2000					
Acrolein	ND	ug/kg	5100					
Acrylonitrile	ND	ug/kg	2000					
Bromochloromethane	ND	ug/kg	1000					
Tetrahydrofuran	ND	ug/kg	4100					
2,2-Dichloropropane	ND	ug/kg	1000					
1,2-Dibromoethane	ND	ug/kg	1000					
1,3-Dichloropropane	ND	ug/kg	1000					
1,1,1,2-Tetrachloroethane	ND	ug/kg	200					
Bromobenzene	ND	ug/kg	1000					
n-Butylbenzene	ND	ug/kg	200					
sec-Butylbenzene	ND	ug/kg	200					
tert-Butylbenzene	ND	ug/kg	1000					
o-Chlorotoluene	ND	ug/kg	1000					
p-Chlorotoluene	ND	ug/kg	1000					
1,2-Dibromo-3-chloropropane	ND	ug/kg	1000					
Hexachlorobutadiene	ND	ug/kg	1000					
Isopropylbenzene	ND	ug/kg	200					
p-Isopropyltoluene	ND	ug/kg	200					
Naphthalene	1900	ug/kg	1000					
n-Propylbenzene	ND	ug/kg	200					
1,2,3-Trichlorobenzene	ND	ug/kg	1000					
1,2,4-Trichlorobenzene	ND	ug/kg	1000					
1,3,5-Trimethylbenzene	ND	ug/kg	1000					
1,2,4-Trimethylbenzene	ND	ug/kg	1000					
trans-1,4-Dichloro-2-butene	ND	ug/kg	1000					
Ethyl ether	ND	ug/kg	1000					
Surrogate Recovery								
1,2-Dichloroethane-d4	92.0	%						
Toluene-d8	100.	%						
4-Bromofluorobenzene	98.0	%						
Dibromofluoromethane	91.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0205660-05
SS-102 S1

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Petroleum Hydrocarbons				47 98-1		0611 18:13	MM

Quality Control Information

Condition of sample received: Satisfactory
Sample temperature upon receipt: Received on Ice
Were samples received in methanol? Yes (Covering the Soil)
Methanol ratio: 1:1 +/- 25%
Were all QA/QC procedures REQUIRED by the method followed? YES
Were all performance/acceptance standards for the required procedures achieved? YES
Were significant modifications made to the method as specified in Sect 11.3? NO
Please note to subtract the method blank from the stated result.
VPH Standard analysis reports only range data with no adjustments.
The normal acceptance range for the surrogate, 2,5-Dibromotoluene, is 70-130%.

C5-C8 Aliphatics, Unadjusted	ND	mg/kg	6.90
C9-C12 Aliphatics, Unadjusted	ND	mg/kg	6.90
C9-C10 Aromatics, Unadjusted	ND	mg/kg	6.90

Surrogate Recovery

2,5-Dibromotoluene-PID	91.0	%
2,5-Dibromotoluene-FID	87.0	%

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0205660-06
SS-103 S1
Sample Matrix: SOIL

Date Collected: 09-JUN-2002 10:30
Date Received : 10-JUN-2002
Date Reported : 17-JUN-2002

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Solids, Total	90.	%	0.10	30	2540G		0612 05:45	DP
Volatile Organics 8260 via High 5035				1	8260B		0612 21:09	AR
Methylene chloride	ND	ug/kg	1800					
1,1-Dichloroethane	ND	ug/kg	260					
Chloroform	ND	ug/kg	260					
Carbon tetrachloride	ND	ug/kg	180					
1,2-Dichloropropane	ND	ug/kg	620					
Dibromochloromethane	ND	ug/kg	180					
1,1,2-Trichloroethane	ND	ug/kg	260					
Tetrachloroethene	ND	ug/kg	180					
Chlorobenzene	ND	ug/kg	180					
Trichlorofluoromethane	ND	ug/kg	890					
1,2-Dichloroethane	ND	ug/kg	180					
1,1,1-Trichloroethane	ND	ug/kg	180					
Bromodichloromethane	ND	ug/kg	180					
trans-1,3-Dichloropropene	ND	ug/kg	180					
cis-1,3-Dichloropropene	ND	ug/kg	180					
1,1-Dichloropropene	ND	ug/kg	890					
Bromoform	ND	ug/kg	180					
1,1,2,2-Tetrachloroethane	ND	ug/kg	180					
Benzene	ND	ug/kg	180					
Toluene	ND	ug/kg	260					
Ethylbenzene	ND	ug/kg	180					
Chloromethane	ND	ug/kg	890					
Bromomethane	ND	ug/kg	700					
Vinyl chloride	ND	ug/kg	350					
Chloroethane	ND	ug/kg	350					
1,1-Dichloroethene	ND	ug/kg	180					
trans-1,2-Dichloroethene	ND	ug/kg	260					
Trichloroethene	ND	ug/kg	180					
1,2-Dichlorobenzene	ND	ug/kg	890					
1,3-Dichlorobenzene	ND	ug/kg	890					
1,4-Dichlorobenzene	ND	ug/kg	890					
Methyl tert butyl ether	ND	ug/kg	350					
p/m-Xylene	ND	ug/kg	180					
o-Xylene	ND	ug/kg	180					
cis-1,2-Dichloroethene	ND	ug/kg	180					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0205660-06
SS-103 S1

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics 8260 via High 5035 continued				1	8260B		0612 21:09	AR
Dibromomethane	ND	ug/kg	1800					
1,4-Dichlorobutane	ND	ug/kg	1800					
Iodomethane	ND	ug/kg	1800					
1,2,3-Trichloropropane	ND	ug/kg	1800					
Styrene	ND	ug/kg	180					
Dichlorodifluoromethane	ND	ug/kg	1800					
Acetone	ND	ug/kg	1800					
Carbon disulfide	ND	ug/kg	1800					
2-Butanone	ND	ug/kg	1800					
Vinyl acetate	ND	ug/kg	1800					
4-Methyl-2-pentanone	ND	ug/kg	1800					
2-Hexanone	ND	ug/kg	1800					
Ethyl methacrylate	ND	ug/kg	1800					
Acrolein	ND	ug/kg	4400					
Acrylonitrile	ND	ug/kg	1800					
Bromochloromethane	ND	ug/kg	890					
Tetrahydrofuran	ND	ug/kg	3500					
2,2-Dichloropropane	ND	ug/kg	890					
1,2-Dibromoethane	ND	ug/kg	890					
1,3-Dichloropropane	ND	ug/kg	890					
1,1,1,2-Tetrachloroethane	ND	ug/kg	180					
Bromobenzene	ND	ug/kg	890					
n-Butylbenzene	ND	ug/kg	180					
sec-Butylbenzene	ND	ug/kg	180					
tert-Butylbenzene	ND	ug/kg	890					
o-Chlorotoluene	ND	ug/kg	890					
p-Chlorotoluene	ND	ug/kg	890					
1,2-Dibromo-3-chloropropane	ND	ug/kg	890					
Hexachlorobutadiene	ND	ug/kg	890					
Isopropylbenzene	ND	ug/kg	180					
p-Isopropyltoluene	ND	ug/kg	180					
Naphthalene	ND	ug/kg	890					
n-Propylbenzene	ND	ug/kg	180					
1,2,3-Trichlorobenzene	ND	ug/kg	890					
1,2,4-Trichlorobenzene	ND	ug/kg	890					
1,3,5-Trimethylbenzene	ND	ug/kg	890					
1,2,4-Trimethylbenzene	ND	ug/kg	890					
trans-1,4-Dichloro-2-butene	ND	ug/kg	890					
Ethyl ether	ND	ug/kg	890					
Surrogate Recovery								
1,2-Dichloroethane-d4	92.0	%						
Toluene-d8	101.	%						
4-Bromofluorobenzene	103.	%						
Dibromofluoromethane	92.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0205660-06
SS-103 S1

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Petroleum Hydrocarbons				47 98-1		0611 19:03	MM

Quality Control Information

Condition of sample received: Satisfactory
Sample temperature upon receipt: Received on Ice
Were samples received in methanol? Yes (Covering the Soil)
Methanol ratio: 1:1 +/- 25%
Were all QA/QC procedures REQUIRED by the method followed? YES
Were all performance/acceptance standards for the required procedures achieved? YES
Were significant modifications made to the method as specified in Sect 11.3? NO
Please note to subtract the method blank from the stated result.
VPH Standard analysis reports only range data with no adjustments.
The normal acceptance range for the surrogate, 2,5-Dibromotoluene, is 70-130%.

C5-C8 Aliphatics, Unadjusted	ND	mg/kg	6.54
C9-C12 Aliphatics, Unadjusted	ND	mg/kg	6.54
C9-C10 Aromatics, Unadjusted	ND	mg/kg	6.54

Surrogate Recovery

2,5-Dibromotoluene-PID	89.0	%
2,5-Dibromotoluene-FID	85.0	%

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0205660-07
TRIP BLANK
Sample Matrix: SOIL

Date Collected: 06-JUN-2002 17:00
Date Received : 10-JUN-2002
Date Reported : 17-JUN-2002

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Vial

Comments:
Results are reported on an 'AS RECEIVED' basis.

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics 8260 via High 5035				1 8260B		0612 21:48	AR
Methylene chloride	ND	ug/kg	500				
1,1-Dichloroethane	ND	ug/kg	75.				
Chloroform	ND	ug/kg	75.				
Carbon tetrachloride	ND	ug/kg	50.				
1,2-Dichloropropane	ND	ug/kg	180				
Dibromochloromethane	ND	ug/kg	50.				
1,1,2-Trichloroethane	ND	ug/kg	75.				
Tetrachloroethene	ND	ug/kg	50.				
Chlorobenzene	ND	ug/kg	50.				
Trichlorofluoromethane	ND	ug/kg	250				
1,2-Dichloroethane	ND	ug/kg	50.				
1,1,1-Trichloroethane	ND	ug/kg	50.				
Bromodichloromethane	ND	ug/kg	50.				
trans-1,3-Dichloropropene	ND	ug/kg	50.				
cis-1,3-Dichloropropene	ND	ug/kg	50.				
1,1-Dichloropropene	ND	ug/kg	250				
Bromoform	ND	ug/kg	50.				
1,1,2,2-Tetrachloroethane	ND	ug/kg	50.				
Benzene	ND	ug/kg	50.				
Toluene	ND	ug/kg	75.				
Ethylbenzene	ND	ug/kg	50.				
Chloromethane	ND	ug/kg	250				
Bromomethane	ND	ug/kg	200				
Vinyl chloride	ND	ug/kg	100				
Chloroethane	ND	ug/kg	100				
1,1-Dichloroethene	ND	ug/kg	50.				
trans-1,2-Dichloroethene	ND	ug/kg	75.				
Trichloroethene	ND	ug/kg	50.				
1,2-Dichlorobenzene	ND	ug/kg	250				
1,3-Dichlorobenzene	ND	ug/kg	250				
1,4-Dichlorobenzene	ND	ug/kg	250				
Methyl tert butyl ether	ND	ug/kg	100				
p/m-Xylene	ND	ug/kg	50.				
o-Xylene	ND	ug/kg	50.				
cis-1,2-Dichloroethene	ND	ug/kg	50.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0205660-07
TRIP BLANK

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics 8260 via High 5035 continued				1	8260B		0612 21:48	AR
Dibromomethane	ND	ug/kg	500					
1,4-Dichlorobutane	ND	ug/kg	500					
Iodomethane	ND	ug/kg	500					
1,2,3-Trichloropropane	ND	ug/kg	500					
Styrene	ND	ug/kg	50.					
Dichlorodifluoromethane	ND	ug/kg	500					
Acetone	ND	ug/kg	500					
Carbon disulfide	ND	ug/kg	500					
2-Butanone	ND	ug/kg	500					
Vinyl acetate	ND	ug/kg	500					
4-Methyl-2-pentanone	ND	ug/kg	500					
2-Hexanone	ND	ug/kg	500					
Ethyl methacrylate	ND	ug/kg	500					
Acrolein	ND	ug/kg	1200					
Acrylonitrile	ND	ug/kg	500					
Bromochloromethane	ND	ug/kg	250					
Tetrahydrofuran	ND	ug/kg	1000					
2,2-Dichloropropane	ND	ug/kg	250					
1,2-Dibromoethane	ND	ug/kg	250					
1,3-Dichloropropane	ND	ug/kg	250					
1,1,1,2-Tetrachloroethane	ND	ug/kg	50.					
Bromobenzene	ND	ug/kg	250					
n-Butylbenzene	ND	ug/kg	50.					
sec-Butylbenzene	ND	ug/kg	50.					
tert-Butylbenzene	ND	ug/kg	250					
o-Chlorotoluene	ND	ug/kg	250					
p-Chlorotoluene	ND	ug/kg	250					
1,2-Dibromo-3-chloropropane	ND	ug/kg	250					
Hexachlorobutadiene	ND	ug/kg	250					
Isopropylbenzene	ND	ug/kg	50.					
p-Isopropyltoluene	ND	ug/kg	50.					
Naphthalene	ND	ug/kg	250					
n-Propylbenzene	ND	ug/kg	50.					
1,2,3-Trichlorobenzene	ND	ug/kg	250					
1,2,4-Trichlorobenzene	ND	ug/kg	250					
1,3,5-Trimethylbenzene	ND	ug/kg	250					
1,2,4-Trimethylbenzene	ND	ug/kg	250					
trans-1,4-Dichloro-2-butene	ND	ug/kg	250					
Ethyl ether	ND	ug/kg	250					
Surrogate Recovery								
1,2-Dichloroethane-d4	95.0	%						
Toluene-d8	99.0	%						
4-Bromofluorobenzene	98.0	%						
Dibromofluoromethane	93.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0205660-07
TRIP BLANK

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Petroleum Hydrocarbons				47 98-1		0611 16:32	MM

Quality Control Information

Condition of sample received: Satisfactory
Sample temperature upon receipt: Received on Ice
Were samples received in methanol? Yes (Covering the Soil)
Methanol ratio: 1:1 +/- 25%
Were all QA/QC procedures REQUIRED by the method followed? YES
Were all performance/acceptance standards for the required procedures achieved? YES
Were significant modifications made to the method as specified in Sect 11.3? NO
Please note to subtract the method blank from the stated result.
VPH Standard analysis reports only range data with no adjustments.
The normal acceptance range for the surrogate, 2,5-Dibromotoluene, is 70-130%.

C5-C8 Aliphatics, Unadjusted	ND	mg/kg	2.00
C9-C12 Aliphatics, Unadjusted	ND	mg/kg	2.00
C9-C10 Aromatics, Unadjusted	ND	mg/kg	2.00

Surrogate Recovery

2,5-Dibromotoluene-PID	100.	%
2,5-Dibromotoluene-FID	93.0	%

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0205660-08
SS-103 C1 DUP
Sample Matrix: SOIL

Date Collected: 09-JUN-2002 11:30
Date Received : 10-JUN-2002
Date Reported : 17-JUN-2002

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Amber

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Solids, Total	87.	%	0.10	30	2540G		0613 16:40	NL
Cyanide, Total	1.3	mg/kg	0.25	1	9010B	0613 16:58	0614 11:12	ED
Cyanide, Physiologically Available	0.45	mg/kg	0.22	45		0613 16:30	0614 11:43	ED
Total Metals				1	3051			
Arsenic, Total	9.5	mg/kg	0.46	1	6010B	0613 16:00	0614 10:37	TT
Barium, Total	65.	mg/kg	0.46	1	6010B	0613 16:00	0614 10:37	TT
Cadmium, Total	0.51	mg/kg	0.46	1	6010B	0613 16:00	0614 10:37	TT
Chromium, Total	14.	mg/kg	0.46	1	6010B	0613 16:00	0614 10:37	TT
Lead, Total	330	mg/kg	2.3	1	6010B	0613 16:00	0614 10:37	TT
Mercury, Total	0.24	mg/kg	0.09	1	7471A	0613 16:25	0614 10:42	DM
Selenium, Total	ND	mg/kg	0.91	1	6010B	0613 16:00	0614 10:37	TT
Silver, Total	ND	mg/kg	0.46	1	6010B	0613 16:00	0614 10:37	TT
PNA's by GC/MS 8270				1	8270C	0612 11:20	0614 16:48	HL
Acenaphthene	ND	ug/kg	1100					
2-Chloronaphthalene	ND	ug/kg	1400					
Fluoranthene	3600	ug/kg	1100					
Naphthalene	ND	ug/kg	1100					
Benzo(a)anthracene	2400	ug/kg	1100					
Benzo(a)pyrene	2400	ug/kg	1100					
Benzo(b)fluoranthene	1800	ug/kg	1100					
Benzo(k)fluoranthene	2100	ug/kg	1100					
Chrysene	2600	ug/kg	1100					
Acenaphthylene	ND	ug/kg	1100					
Anthracene	ND	ug/kg	1100					
Benzo(ghi)perylene	1700	ug/kg	1100					
Fluorene	ND	ug/kg	1100					
Phenanthrene	2000	ug/kg	1100					
Dibenzo(a,h)anthracene	ND	ug/kg	1100					
Indeno(1,2,3-cd)pyrene	1500	ug/kg	1100					
Pyrene	4400	ug/kg	1100					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0205660-08
SS-103 C1 DUP

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
PNA's by GC/MS 8270 continued				1 8270C	0612 11:20	0614 16:48	HL
Benzo(e)pyrene	1700	ug/kg	1100				
Biphenyl	ND	ug/kg	1100				
Perylene	ND	ug/kg	1100				
1-Methylnaphthalene	ND	ug/kg	1100				
2-Methylnaphthalene	ND	ug/kg	1800				
Surrogate Recovery							
Nitrobenzene-d5	65.0	%					
2-Fluorobiphenyl	77.0	%					
4-Terphenyl-d14	74.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0205660-08
SS-103 C1 DUP

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Extractable Petroleum Hydrocarbons				46 98-1	0612 17:20	0614 20:28	PD

Quality Control Information

Condition of sample received: Satisfactory
Sample temperature upon receipt: Received on Ice
Sample extraction method: Extracted Per the Method
Were all QA/QC procedures REQUIRED by the method followed? YES
Were all performance/acceptance standards for the required procedures achieved? YES
Were significant modifications made to the method as specified in Sect 11.3? NO
Please note to subtract the method blank from the stated result.
The normal acceptance range for the extraction surrogates, Chloro-octadecane and o-Terphenyl, is 40-140%.
The normal acceptance range for the fractionation surrogates, 2-Fluorobiphenyl and 2-Bromonaphthalene, is 40-140%.

C9-C18 Aliphatics, Unadjusted	ND	mg/kg	11.5
C19-C36 Aliphatics, Unadjusted	81.0	mg/kg	11.5
C11-C22 Aromatics, Unadjusted	127.	mg/kg	11.5

Surrogate Recovery

Chloro-Octadecane	77.0	%
o-Terphenyl	99.0	%
2-Fluorobiphenyl	83.0	%
2-Bromonaphthalene	60.0	%

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0205660-09
SS-103 S1 DUP
Sample Matrix: SOIL

Date Collected: 09-JUN-2002 10:30
Date Received : 10-JUN-2002
Date Reported : 17-JUN-2002

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Solids, Total	87.	%	0.10	30 2540G		0612 05:45	DP
Volatile Organics 8260 via High 5035				1 8260B		0613 10:01	AR
Methylene chloride	ND	ug/kg	1700				
1,1-Dichloroethane	ND	ug/kg	260				
Chloroform	ND	ug/kg	260				
Carbon tetrachloride	ND	ug/kg	170				
1,2-Dichloropropane	ND	ug/kg	600				
Dibromochloromethane	ND	ug/kg	170				
1,1,2-Trichloroethane	ND	ug/kg	260				
Tetrachloroethene	ND	ug/kg	170				
Chlorobenzene	ND	ug/kg	170				
Trichlorofluoromethane	ND	ug/kg	860				
1,2-Dichloroethane	ND	ug/kg	170				
1,1,1-Trichloroethane	ND	ug/kg	170				
Bromodichloromethane	ND	ug/kg	170				
trans-1,3-Dichloropropene	ND	ug/kg	170				
cis-1,3-Dichloropropene	ND	ug/kg	170				
1,1-Dichloropropene	ND	ug/kg	860				
Bromoform	ND	ug/kg	170				
1,1,2,2-Tetrachloroethane	ND	ug/kg	170				
Benzene	ND	ug/kg	170				
Toluene	ND	ug/kg	260				
Ethylbenzene	ND	ug/kg	170				
Chloromethane	ND	ug/kg	860				
Bromomethane	ND	ug/kg	340				
Vinyl chloride	ND	ug/kg	340				
Chloroethane	ND	ug/kg	340				
1,1-Dichloroethene	ND	ug/kg	170				
trans-1,2-Dichloroethene	ND	ug/kg	260				
Trichloroethene	ND	ug/kg	170				
1,2-Dichlorobenzene	ND	ug/kg	860				
1,3-Dichlorobenzene	ND	ug/kg	860				
1,4-Dichlorobenzene	ND	ug/kg	860				
Methyl tert butyl ether	ND	ug/kg	340				
p/m-Xylene	ND	ug/kg	170				
o-Xylene	ND	ug/kg	170				
cis-1,2-Dichloroethene	ND	ug/kg	170				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0205660-09
SS-103 S1 DUP

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics 8260 via High 5035 continued				1	8260B		0613 10:01	AR
Dibromomethane	ND	ug/kg	1700					
1,4-Dichlorobutane	ND	ug/kg	1700					
Iodomethane	ND	ug/kg	1700					
1,2,3-Trichloropropane	ND	ug/kg	1700					
Styrene	ND	ug/kg	170					
Dichlorodifluoromethane	ND	ug/kg	1700					
Acetone	ND	ug/kg	1700					
Carbon disulfide	ND	ug/kg	1700					
2-Butanone	ND	ug/kg	1700					
Vinyl acetate	ND	ug/kg	1700					
4-Methyl-2-pentanone	ND	ug/kg	1700					
2-Hexanone	ND	ug/kg	1700					
Ethyl methacrylate	ND	ug/kg	1700					
Acrolein	ND	ug/kg	4300					
Acrylonitrile	ND	ug/kg	1700					
Bromochloromethane	ND	ug/kg	860					
Tetrahydrofuran	ND	ug/kg	3400					
2,2-Dichloropropane	ND	ug/kg	860					
1,2-Dibromoethane	ND	ug/kg	860					
1,3-Dichloropropane	ND	ug/kg	860					
1,1,1,2-Tetrachloroethane	ND	ug/kg	170					
Bromobenzene	ND	ug/kg	860					
n-Butylbenzene	ND	ug/kg	170					
sec-Butylbenzene	ND	ug/kg	170					
tert-Butylbenzene	ND	ug/kg	860					
o-Chlorotoluene	ND	ug/kg	860					
p-Chlorotoluene	ND	ug/kg	860					
1,2-Dibromo-3-chloropropane	ND	ug/kg	860					
Hexachlorobutadiene	ND	ug/kg	860					
Isopropylbenzene	ND	ug/kg	170					
p-Isopropyltoluene	ND	ug/kg	170					
Naphthalene	ND	ug/kg	860					
n-Propylbenzene	ND	ug/kg	170					
1,2,3-Trichlorobenzene	ND	ug/kg	860					
1,2,4-Trichlorobenzene	ND	ug/kg	860					
1,3,5-Trimethylbenzene	ND	ug/kg	860					
1,2,4-Trimethylbenzene	ND	ug/kg	860					
trans-1,4-Dichloro-2-butene	ND	ug/kg	860					
Ethyl ether	ND	ug/kg	860					
Surrogate Recovery								
1,2-Dichloroethane-d4	95.0	%						
Toluene-d8	101.	%						
4-Bromofluorobenzene	102.	%						
Dibromofluoromethane	92.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0205660-09
SS-103 S1 DUP

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Petroleum Hydrocarbons				47 98-1		0617 12:12	MM

Quality Control Information

Condition of sample received: Satisfactory
Sample temperature upon receipt: Received on Ice
Were samples received in methanol? Yes (Covering the Soil)
Methanol ratio: 1:1 +/- 25%
Were all QA/QC procedures REQUIRED by the method followed? YES
Were all performance/acceptance standards for the required procedures achieved? YES
Were significant modifications made to the method as specified in Sect 11.3? NO
Please note to subtract the method blank from the stated result.
VPH Standard analysis reports only range data with no adjustments.
The normal acceptance range for the surrogate, 2,5-Dibromotoluene, is 70-130%.

C5-C8 Aliphatics, Unadjusted	ND	mg/kg	6.90
C9-C12 Aliphatics, Unadjusted	ND	mg/kg	6.90
C9-C10 Aromatics, Unadjusted	ND	mg/kg	6.90

Surrogate Recovery

2,5-Dibromotoluene-PID	104.	%
2,5-Dibromotoluene-FID	96.0	%

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0205660

Parameter	Value 1	Value 2	RPD	Units
Solids, Total for sample(s) 01-03 (L0205651-10, WG115173)				
Solids, Total	88.	89.	1	%
Solids, Total for sample(s) 04-06,09 (L0205714-01, WG115340)				
Solids, Total	94.	94.	0	%
Solids, Total for sample(s) 08 (L0205660-08, WG115427)				
Solids, Total	87.	87.	0	%
Cyanide, Total for sample(s) 01-03 (L0205660-01, WG115228)				
Cyanide, Total	5.4	3.6	39	mg/kg
Cyanide, Total for sample(s) 08 (L0205660-08, WG115457)				
Cyanide, Total	1.3	1.4	7	mg/kg
Cyanide, Physiologically Available for sample(s) 01-03 (L0205660-01, WG115328)				
Cyanide, Physiologically Available	0.87	1.0	14	mg/kg
Cyanide, Physiologically Available for sample(s) 08 (L0205660-08, WG115456)				
Cyanide, Physiologically Available	0.45	0.44	2	mg/kg
Total Metals for sample(s) 01-03,08 (L0205660-01, WG115491)				
Arsenic, Total	7.6	7.4	3	mg/kg
Barium, Total	72.	67.	7	mg/kg
Cadmium, Total	0.85	0.60	34	mg/kg
Chromium, Total	38.	34.	11	mg/kg
Lead, Total	300	300	0	mg/kg
Selenium, Total	ND	ND	NC	mg/kg
Silver, Total	ND	ND	NC	mg/kg
Total Metals for sample(s) 01-03,08 (L0205651-08, WG115445)				
Mercury, Total	0.14	0.11	24	mg/kg
Volatile Petroleum Hydrocarbons for sample(s) 04-07 (L0205654-01, WG115291)				
C5-C8 Aliphatics	ND	ND	NC	mg/kg
C9-C12 Aliphatics	3.66	3.99	9	mg/kg
C9-C10 Aromatics	ND	ND	NC	mg/kg
C5-C8 Aliphatics, Adjusted	ND	ND	NC	mg/kg
C9-C12 Aliphatics, Adjusted	3.66	3.99	9	mg/kg
Benzene	ND	ND	NC	mg/kg
Toluene	ND	ND	NC	mg/kg
Ethylbenzene	ND	ND	NC	mg/kg
p/m-Xylene	ND	ND	NC	mg/kg
o-Xylene	ND	ND	NC	mg/kg
Methyl tert butyl ether	ND	ND	NC	mg/kg
Naphthalene	ND	ND	NC	mg/kg

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0205660

Continued

Parameter	Value 1	Value 2	RPD	Units
Volatile Petroleum Hydrocarbons for sample(s) 04-07 (L0205654-01, WG115291)				
Surrogate Recovery				
2,5-Dibromotoluene-PID	89.0	87.0	2	%
2,5-Dibromotoluene-FID	82.0	80.0	2	%
Volatile Petroleum Hydrocarbons for sample(s) 09 (L0205738-02, WG115662)				
C5-C8 Aliphatics	ND	ND	NC	mg/kg
C9-C12 Aliphatics	ND	ND	NC	mg/kg
C9-C10 Aromatics	ND	ND	NC	mg/kg
C5-C8 Aliphatics, Adjusted	ND	ND	NC	mg/kg
C9-C12 Aliphatics, Adjusted	ND	ND	NC	mg/kg
Benzene	ND	ND	NC	mg/kg
Toluene	ND	ND	NC	mg/kg
Ethylbenzene	ND	ND	NC	mg/kg
p/m-Xylene	ND	ND	NC	mg/kg
o-Xylene	ND	ND	NC	mg/kg
Methyl tert butyl ether	ND	ND	NC	mg/kg
Naphthalene	ND	ND	NC	mg/kg
Surrogate Recovery				
2,5-Dibromotoluene-PID	104.	93.0	11	%
2,5-Dibromotoluene-FID	94.0	89.0	5	%
Extractable Petroleum Hydrocarbons for sample(s) 01-03 (L0205646-03, WG115129)				
C9-C18 Aliphatics	ND	ND	NC	mg/kg
C19-C36 Aliphatics	ND	ND	NC	mg/kg
C11-C22 Aromatics	ND	ND	NC	mg/kg
Surrogate Recovery				
Chloro-Octadecane	76.0	74.0	3	%
o-Terphenyl	87.0	90.0	3	%
2-Fluorobiphenyl	93.0	96.0	3	%
2-Bromonaphthalene	77.0	79.0	3	%
Extractable Petroleum Hydrocarbons for sample(s) 08 (L0205692-02, WG115347)				
C9-C18 Aliphatics	ND	ND	NC	mg/kg
C19-C36 Aliphatics	ND	ND	NC	mg/kg
C11-C22 Aromatics	ND	ND	NC	mg/kg
Surrogate Recovery				
Chloro-Octadecane	79.0	70.0	12	%
o-Terphenyl	89.0	85.0	5	%
2-Fluorobiphenyl	111.	97.0	13	%
2-Bromonaphthalene	86.0	84.0	2	%

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0205660

Parameter	% Recovery
Cyanide, Total LCS for sample(s) 01-03 (WG115228)	
Cyanide, Total	108
Cyanide, Total LCS for sample(s) 08 (WG115457)	
Cyanide, Total	106
Cyanide, Physiologically Available LCS for sample(s) 01 (WG115328)	
Cyanide, Physiologically Available	1
Cyanide, Physiologically Available LCS for sample(s) 01-03 (WG115328)	
Cyanide, Physiologically Available	107
Cyanide, Physiologically Available LCS for sample(s) 08 (WG115456)	
Cyanide, Physiologically Available	105
Total Metals LCS for sample(s) 01-03,08 (WG115491)	
Arsenic, Total	102
Barium, Total	98
Cadmium, Total	103
Chromium, Total	99
Lead, Total	103
Selenium, Total	104
Silver, Total	100
Total Metals LCS for sample(s) 01-03,08 (WG115445)	
Mercury, Total	106
Volatile Organics 8260 via High 5035 LCS for sample(s) 04-07 (WG115394)	
Chlorobenzene	96
Benzene	99
Toluene	96
1,1-Dichloroethene	94
Trichloroethene	101
Surrogate Recovery	
1,2-Dichloroethane-d4	98
Toluene-d8	99
4-Bromofluorobenzene	99
Dibromofluoromethane	98
Volatile Organics 8260 via High 5035 LCS for sample(s) 09 (WG115394)	
Chlorobenzene	100
Benzene	102
Toluene	102
1,1-Dichloroethene	100
Trichloroethene	108
Surrogate Recovery	
1,2-Dichloroethane-d4	100

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0205660

Continued

Parameter	% Recovery
Volatile Organics 8260 via High 5035 LCS for sample(s) 09 (WG115394)	
Toluene-d8	98
4-Bromofluorobenzene	97
Dibromofluoromethane	96
PNA's by GC/MS 8270 LCS for sample(s) 08 (WG115318)	
Acenaphthene	84
1,2,4-Trichlorobenzene	82
2-Chloronaphthalene	86
1,2-Dichlorobenzene	84
1,4-Dichlorobenzene	85
2,4-Dinitrotoluene	100
2,6-Dinitrotoluene	94
Fluoranthene	86
4-Chlorophenyl phenyl ether	86
n-Nitrosodi-n-propylamine	80
Butyl benzyl phthalate	88
Anthracene	79
Pyrene	86
Hexachloropropene	86
P-Chloro-M-Cresol	84
2-Chlorophenol	79
2-Nitrophenol	84
4-Nitrophenol	27
2,4-Dinitrophenol	55
Pentachlorophenol	77
Phenol	75
Surrogate Recovery	
2-Fluorophenol	79
Phenol-d6	81
Nitrobenzene-d5	89
2-Fluorobiphenyl	88
2,4,6-Tribromophenol	83
4-Terphenyl-d14	76
PNA's by GC/MS 8270 LCS for sample(s) 01-03 (WG115175)	
Acenaphthene	80
2-Chloronaphthalene	70
Fluoranthene	88
Anthracene	77
Pyrene	85
Surrogate Recovery	
Nitrobenzene-d5	72
2-Fluorobiphenyl	80
4-Terphenyl-d14	80

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0205660

Continued

Parameter	% Recovery
Volatile Petroleum Hydrocarbons LCS for sample(s) 04-07 (WG115291)	
Benzene	119
Toluene	107
Ethylbenzene	120
p/m-Xylene	106
o-Xylene	108
Methyl tert butyl ether	104
Naphthalene	98
Surrogate Recovery	
2,5-Dibromotoluene-PID	105
2,5-Dibromotoluene-FID	97
Volatile Petroleum Hydrocarbons LCS for sample(s) 09 (WG115662)	
Benzene	110
Toluene	99
Ethylbenzene	117
p/m-Xylene	102
o-Xylene	100
Methyl tert butyl ether	94
Naphthalene	87
Surrogate Recovery	
2,5-Dibromotoluene-PID	99
2,5-Dibromotoluene-FID	111
Extractable Petroleum Hydrocarbons LCS for sample(s) 01-03 (WG115129)	
Naphthalene	42
Acenaphthene	62
Anthracene	99
Pyrene	95
Chrysene	98
Nonane (C9)	45
Tetradecane (C14)	66
Nonadecane (C19)	96
Eicosane (C20)	99
Octacosane (C28)	95
Surrogate Recovery	
Chloro-Octadecane	88
o-Terphenyl	101
2-Fluorobiphenyl	88
2-Bromonaphthalene	59
Extractable Petroleum Hydrocarbons LCS for sample(s) 08 (WG115347)	
Naphthalene	43
Acenaphthene	52
Anthracene	78
Pyrene	73

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0205660

Continued

Parameter	% Recovery
Extractable Petroleum Hydrocarbons LCS for sample(s) 08 (WG115347)	
Chrysene	77
Nonane (C9)	41
Tetradecane (C14)	58
Nonadecane (C19)	74
Eicosane (C20)	77
Octacosane (C28)	75
Surrogate Recovery	
Chloro-Octadecane	62
o-Terphenyl	80
2-Fluorobiphenyl	95
2-Bromonaphthalene	86
Cyanide, Total SPIKE for sample(s) 01-03 (L0205660-01, WG115228)	
Cyanide, Total	109
Cyanide, Total SPIKE for sample(s) 08 (L0205660-08, WG115457)	
Cyanide, Total	116
Total Metals SPIKE for sample(s) 01-03,08 (L0205660-02, WG115491)	
Arsenic, Total	100
Barium, Total	94
Cadmium, Total	115
Chromium, Total	119
Lead, Total	85
Selenium, Total	101
Silver, Total	94
Total Metals SPIKE for sample(s) 01-03,08 (L0205651-08, WG115445)	
Mercury, Total	93

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0205660

Parameter	MS %	MSD %	RPD
Volatile Organics 8260 via High 5035 for sample(s) 04-07,09 (L0205649-01, WG115394)			
Chlorobenzene	96	92	4
Benzene	97	90	7
Toluene	97	92	5
1,1-Dichloroethene	92	84	9
Trichloroethene	93	88	6
PNA's by GC/MS 8270 for sample(s) 08 (L0205676-01, WG115318)			
Acenaphthene	88	19	129
1,2,4-Trichlorobenzene	85	18	130
2-Chloronaphthalene	88	19	129
1,2-Dichlorobenzene	72	18	120
1,4-Dichlorobenzene	72	18	120
2,4-Dinitrotoluene	110	23	131
2,6-Dinitrotoluene	97	20	132
Fluoranthene	110	21	136
4-Chlorophenyl phenyl ether	88	19	129
n-Nitrosodi-n-propylamine	69	17	121
Butyl benzyl phthalate	97	19	134
Anthracene	88	18	132
Pyrene	120	21	140
Hexachloropropene	88	18	132
P-Chloro-M-Cresol	84	18	129
2-Chlorophenol	66	17	118
2-Nitrophenol	70	18	118
4-Nitrophenol	23	6	121
2,4-Dinitrophenol	57	9	144
Pentachlorophenol	75	13	141
Phenol	57	16	112
PNA's by GC/MS 8270 for sample(s) 01-03 (L0205649-02, WG115175)			
Acenaphthene	85	77	10
2-Chloronaphthalene	67	66	2
Fluoranthene	120	78	42
Anthracene	95	75	24
Pyrene	110	80	32
Extractable Petroleum Hydrocarbons for sample(s) 08 (L0205692-02, WG115347)			
Naphthalene	56	64	14
Acenaphthene	64	72	11
Anthracene	79	91	14
Pyrene	84	98	15
Chrysene	87	102	16
Nonane (C9)	60	62	3
Tetradecane (C14)	81	80	1
Nonadecane (C19)	94	101	7
Eicosane (C20)	98	105	7
Octacosane (C28)	97	102	6

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0205660

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-03								
Cyanide, Total	ND	mg/kg	0.19	1	9010B	0611 18:45	0612 13:11	ED
Blank Analysis for sample(s) 08								
Cyanide, Total	ND	mg/kg	0.23	1	9010B	0613 16:58	0614 11:08	ED
Blank Analysis for sample(s) 01-03								
Cyanide, Physiologically Available	ND	mg/kg	0.17	45		0612 16:03	0614 11:33	ED
Blank Analysis for sample(s) 08								
Cyanide, Physiologically Available	ND	mg/kg	0.19	45		0613 16:30	0614 11:39	ED
Blank Analysis for sample(s) 01-03,08								
Total Metals				1	3051			
Arsenic, Total	ND	mg/kg	0.40	1	6010B	0613 16:00	0614 09:39	TT
Barium, Total	ND	mg/kg	0.40	1	6010B	0613 16:00	0614 09:39	TT
Cadmium, Total	ND	mg/kg	0.40	1	6010B	0613 16:00	0614 09:39	TT
Chromium, Total	ND	mg/kg	0.40	1	6010B	0613 16:00	0614 09:39	TT
Lead, Total	ND	mg/kg	2.0	1	6010B	0613 16:00	0614 09:39	TT
Selenium, Total	ND	mg/kg	0.80	1	6010B	0613 16:00	0614 09:39	TT
Silver, Total	ND	mg/kg	0.40	1	6010B	0613 16:00	0614 09:39	TT
Blank Analysis for sample(s) 01-03,08								
Total Metals								
Mercury, Total	ND	mg/kg	0.08	1	7471A	0613 16:25	0614 10:42	DM
Blank Analysis for sample(s) 04-07								
Volatile Organics 8260 via High 5035				1	8260B		0612 15:50	AR
Methylene chloride	ND	ug/kg	500					
1,1-Dichloroethane	ND	ug/kg	75.					
Chloroform	ND	ug/kg	75.					
Carbon tetrachloride	ND	ug/kg	50.					
1,2-Dichloropropane	ND	ug/kg	180					
Dibromochloromethane	ND	ug/kg	50.					
1,1,2-Trichloroethane	ND	ug/kg	75.					
Tetrachloroethene	ND	ug/kg	50.					
Chlorobenzene	ND	ug/kg	50.					
Trichlorofluoromethane	ND	ug/kg	250					
1,2-Dichloroethane	ND	ug/kg	50.					
1,1,1-Trichloroethane	ND	ug/kg	50.					
Bromodichloromethane	ND	ug/kg	50.					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0205660

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 04-07								
Volatile Organics 8260 via High 5035 continued				1	8260B		0612	15:50 AR
trans-1,3-Dichloropropene	ND	ug/kg	50.					
cis-1,3-Dichloropropene	ND	ug/kg	50.					
1,1-Dichloropropene	ND	ug/kg	250					
Bromoform	ND	ug/kg	50.					
1,1,2,2-Tetrachloroethane	ND	ug/kg	50.					
Benzene	ND	ug/kg	50.					
Toluene	ND	ug/kg	75.					
Ethylbenzene	ND	ug/kg	50.					
Chloromethane	ND	ug/kg	250					
Bromomethane	ND	ug/kg	200					
Vinyl chloride	ND	ug/kg	100					
Chloroethane	ND	ug/kg	100					
1,1-Dichloroethene	ND	ug/kg	50.					
trans-1,2-Dichloroethene	ND	ug/kg	75.					
Trichloroethene	ND	ug/kg	50.					
1,2-Dichlorobenzene	ND	ug/kg	250					
1,3-Dichlorobenzene	ND	ug/kg	250					
1,4-Dichlorobenzene	ND	ug/kg	250					
Methyl tert butyl ether	ND	ug/kg	100					
p/m-Xylene	ND	ug/kg	50.					
o-Xylene	ND	ug/kg	50.					
cis-1,2-Dichloroethene	ND	ug/kg	50.					
Dibromomethane	ND	ug/kg	500					
1,4-Dichlorobutane	ND	ug/kg	500					
Iodomethane	ND	ug/kg	500					
1,2,3-Trichloropropane	ND	ug/kg	500					
Styrene	ND	ug/kg	50.					
Dichlorodifluoromethane	ND	ug/kg	500					
Acetone	ND	ug/kg	500					
Carbon disulfide	ND	ug/kg	500					
2-Butanone	ND	ug/kg	500					
Vinyl acetate	ND	ug/kg	500					
4-Methyl-2-pentanone	ND	ug/kg	500					
2-Hexanone	ND	ug/kg	500					
Ethyl methacrylate	ND	ug/kg	500					
Acrolein	ND	ug/kg	1200					
Acrylonitrile	ND	ug/kg	500					
Bromochloromethane	ND	ug/kg	250					
Tetrahydrofuran	ND	ug/kg	1000					
2,2-Dichloropropane	ND	ug/kg	250					
1,2-Dibromoethane	ND	ug/kg	250					
1,3-Dichloropropane	ND	ug/kg	250					
1,1,1,2-Tetrachloroethane	ND	ug/kg	50.					
Bromobenzene	ND	ug/kg	250					
n-Butylbenzene	ND	ug/kg	50.					
sec-Butylbenzene	ND	ug/kg	50.					
tert-Butylbenzene	ND	ug/kg	250					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0205660

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 04-07							
Volatile Organics 8260 via High 5035 continued				1 8260B		0612	15:50 AR
o-Chlorotoluene	ND	ug/kg	250				
p-Chlorotoluene	ND	ug/kg	250				
1,2-Dibromo-3-chloropropane	ND	ug/kg	250				
Hexachlorobutadiene	ND	ug/kg	250				
Isopropylbenzene	ND	ug/kg	50.				
p-Isopropyltoluene	ND	ug/kg	50.				
Naphthalene	ND	ug/kg	250				
n-Propylbenzene	ND	ug/kg	50.				
1,2,3-Trichlorobenzene	ND	ug/kg	250				
1,2,4-Trichlorobenzene	ND	ug/kg	250				
1,3,5-Trimethylbenzene	ND	ug/kg	250				
1,2,4-Trimethylbenzene	ND	ug/kg	250				
trans-1,4-Dichloro-2-butene	ND	ug/kg	250				
Ethyl ether	ND	ug/kg	250				
Surrogate Recovery							
1,2-Dichloroethane-d4	96.0	%					
Toluene-d8	100.	%					
4-Bromofluorobenzene	100.	%					
Dibromofluoromethane	94.0	%					
Blank Analysis for sample(s) 09							
Volatile Organics 8260 via High 5035				1 8260B		0613	05:20 AR
Methylene chloride	ND	ug/kg	500				
1,1-Dichloroethane	ND	ug/kg	75.				
Chloroform	ND	ug/kg	75.				
Carbon tetrachloride	ND	ug/kg	50.				
1,2-Dichloropropane	ND	ug/kg	180				
Dibromochloromethane	ND	ug/kg	50.				
1,1,2-Trichloroethane	ND	ug/kg	75.				
Tetrachloroethene	ND	ug/kg	50.				
Chlorobenzene	ND	ug/kg	50.				
Trichlorofluoromethane	ND	ug/kg	250				
1,2-Dichloroethane	ND	ug/kg	50.				
1,1,1-Trichloroethane	ND	ug/kg	50.				
Bromodichloromethane	ND	ug/kg	50.				
trans-1,3-Dichloropropene	ND	ug/kg	50.				
cis-1,3-Dichloropropene	ND	ug/kg	50.				
1,1-Dichloropropene	ND	ug/kg	250				
Bromoform	ND	ug/kg	50.				
1,1,2,2-Tetrachloroethane	ND	ug/kg	50.				
Benzene	ND	ug/kg	50.				
Toluene	ND	ug/kg	75.				
Ethylbenzene	ND	ug/kg	50.				
Chloromethane	ND	ug/kg	250				
Bromomethane	ND	ug/kg	100				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0205660

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 09								
Volatile Organics 8260 via High 5035 continued				1	8260B		0613 06:20	AR
Vinyl chloride	ND	ug/kg	100					
Chloroethane	ND	ug/kg	100					
1,1-Dichloroethene	ND	ug/kg	50.					
trans-1,2-Dichloroethene	ND	ug/kg	75.					
Trichloroethene	ND	ug/kg	50.					
1,2-Dichlorobenzene	ND	ug/kg	250					
1,3-Dichlorobenzene	ND	ug/kg	250					
1,4-Dichlorobenzene	ND	ug/kg	250					
Methyl tert butyl ether	ND	ug/kg	100					
p/m-Xylene	ND	ug/kg	50.					
o-Xylene	ND	ug/kg	50.					
cis-1,2-Dichloroethene	ND	ug/kg	50.					
Dibromomethane	ND	ug/kg	500					
1,4-Dichlorobutane	ND	ug/kg	500					
Iodomethane	ND	ug/kg	500					
1,2,3-Trichloropropane	ND	ug/kg	500					
Styrene	ND	ug/kg	50.					
Dichlorodifluoromethane	ND	ug/kg	500					
Acetone	ND	ug/kg	500					
Carbon disulfide	ND	ug/kg	500					
2-Butanone	ND	ug/kg	500					
Vinyl acetate	ND	ug/kg	500					
4-Methyl-2-pentanone	ND	ug/kg	500					
2-Hexanone	ND	ug/kg	500					
Ethyl methacrylate	ND	ug/kg	500					
Acrolein	ND	ug/kg	1200					
Acrylonitrile	ND	ug/kg	500					
Bromochloromethane	ND	ug/kg	250					
Tetrahydrofuran	ND	ug/kg	1000					
2,2-Dichloropropane	ND	ug/kg	250					
1,2-Dibromoethane	ND	ug/kg	250					
1,3-Dichloropropane	ND	ug/kg	250					
1,1,1,2-Tetrachloroethane	ND	ug/kg	50.					
Bromobenzene	ND	ug/kg	250					
n-Butylbenzene	ND	ug/kg	50.					
sec-Butylbenzene	ND	ug/kg	50.					
tert-Butylbenzene	ND	ug/kg	250					
o-Chlorotoluene	ND	ug/kg	250					
p-Chlorotoluene	ND	ug/kg	250					
1,2-Dibromo-3-chloropropane	ND	ug/kg	250					
Hexachlorobutadiene	ND	ug/kg	250					
Isopropylbenzene	ND	ug/kg	50.					
p-Isopropyltoluene	ND	ug/kg	50.					
Naphthalene	ND	ug/kg	250					
n-Propylbenzene	ND	ug/kg	50.					
1,2,3-Trichlorobenzene	ND	ug/kg	250					
1,2,4-Trichlorobenzene	ND	ug/kg	250					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0205660

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 09								
Volatile Organics 8260 via High 5035 continued				1	8260B		0613 06:20	AR
1,3,5-Trimethylbenzene	ND	ug/kg	250					
1,2,4-Trimethylbenzene	ND	ug/kg	250					
trans-1,4-Dichloro-2-butene	ND	ug/kg	250					
Ethyl ether	ND	ug/kg	250					
Surrogate Recovery								
1,2-Dichloroethane-d4	97.0	%						
Toluene-d8	98.0	%						
4-Bromofluorobenzene	98.0	%						
Dibromofluoromethane	94.0	%						
Blank Analysis for sample(s) 08								
PNA's by GC/MS 8270				1	8270C	0612 11:20	0613 15:58	HL
Acenaphthene	ND	ug/kg	500					
Hexachlorobenzene	ND	ug/kg	500					
2-Chloronaphthalene	ND	ug/kg	600					
Fluoranthene	ND	ug/kg	500					
Naphthalene	ND	ug/kg	500					
Benzo(a)anthracene	ND	ug/kg	500					
Benzo(a)pyrene	ND	ug/kg	500					
Benzo(b)fluoranthene	ND	ug/kg	500					
Benzo(k)fluoranthene	ND	ug/kg	500					
Chrysene	ND	ug/kg	500					
Acenaphthylene	ND	ug/kg	500					
Anthracene	ND	ug/kg	500					
Benzo(ghi)perylene	ND	ug/kg	500					
Fluorene	ND	ug/kg	500					
Phenanthrene	ND	ug/kg	500					
Dibenzo(a,h)anthracene	ND	ug/kg	500					
Indeno(1,2,3-cd)pyrene	ND	ug/kg	500					
Pyrene	ND	ug/kg	500					
Benzo(e)pyrene	ND	ug/kg	500					
Biphenyl	ND	ug/kg	500					
Perylene	ND	ug/kg	500					
1-Methylnaphthalene	ND	ug/kg	500					
2-Methylnaphthalene	ND	ug/kg	800					
Pentachlorophenol	ND	ug/kg	2000					
Surrogate Recovery								
Nitrobenzene-d5	101.	%						
2-Fluorobiphenyl	102.	%						
4-Terphenyl-d14	90.0	%						
Blank Analysis for sample(s) 01-03								
PNA's by GC/MS 8270				1	8270C	0611 14:25	0613 12:21	HL

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0205660

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-03								
PNA's by GC/MS 8270 continued				1	8270C	0611 14:25	0613 12:21	HL
Acenaphthene	ND	ug/kg	500					
2-Chloronaphthalene	ND	ug/kg	600					
Fluoranthene	ND	ug/kg	500					
Naphthalene	ND	ug/kg	500					
Benzo(a)anthracene	ND	ug/kg	500					
Benzo(a)pyrene	ND	ug/kg	500					
Benzo(b)fluoranthene	ND	ug/kg	500					
Benzo(k)fluoranthene	ND	ug/kg	500					
Chrysene	ND	ug/kg	500					
Acenaphthylene	ND	ug/kg	500					
Anthracene	ND	ug/kg	500					
Benzo(ghi)perylene	ND	ug/kg	500					
Fluorene	ND	ug/kg	500					
Phenanthrene	ND	ug/kg	500					
Dibenzo(a,h)anthracene	ND	ug/kg	500					
Indeno(1,2,3-cd)pyrene	ND	ug/kg	500					
Pyrene	ND	ug/kg	500					
Benzo(e)pyrene	ND	ug/kg	500					
Biphenyl	ND	ug/kg	500					
Perylene	ND	ug/kg	500					
1-Methylnaphthalene	ND	ug/kg	500					
2-Methylnaphthalene	ND	ug/kg	800					
Surrogate Recovery								
Nitrobenzene-d5	72.0	%						
2-Fluorobiphenyl	85.0	%						
4-Terphenyl-d14	82.0	%						
Blank Analysis for sample(s) 04-07								
Volatile Petroleum Hydrocarbons				47	98-1		0611 09:59	MM
C5-C8 Aliphatics, Unadjusted	ND	mg/kg	2.00					
C9-C12 Aliphatics, Unadjusted	ND	mg/kg	2.00					
C9-C10 Aromatics, Unadjusted	ND	mg/kg	2.00					
C5-C8 Aliphatics, Adjusted	ND	mg/kg	2.00					
C9-C12 Aliphatics, Adjusted	ND	mg/kg	2.00					
Benzene	ND	mg/kg	0.100					
Toluene	ND	mg/kg	0.100					
Ethylbenzene	ND	mg/kg	0.100					
p/m-Xylene	ND	mg/kg	0.100					
o-Xylene	ND	mg/kg	0.100					
Methyl tert butyl ether	ND	mg/kg	0.200					
Naphthalene	ND	mg/kg	1.00					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0205660

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 04-07							
Volatile Petroleum Hydrocarbons continued				47 98-1		0611 09:59	MM
Surrogate Recovery							
2,5-Dibromotoluene-PID	102.	%					
2,5-Dibromotoluene-FID	101.	%					
Blank Analysis for sample(s) 09							
Volatile Petroleum Hydrocarbons				47 98-1		0617 10:50	MM
C5-C8 Aliphatics, Unadjusted	ND	mg/kg	2.00				
C9-C12 Aliphatics, Unadjusted	ND	mg/kg	2.00				
C9-C10 Aromatics, Unadjusted	ND	mg/kg	2.00				
C5-C8 Aliphatics, Adjusted	ND	mg/kg	2.00				
C9-C12 Aliphatics, Adjusted	ND	mg/kg	2.00				
Benzene	ND	mg/kg	0.100				
Toluene	ND	mg/kg	0.100				
Ethylbenzene	ND	mg/kg	0.100				
p/m-Xylene	ND	mg/kg	0.100				
o-Xylene	ND	mg/kg	0.100				
Methyl tert butyl ether	ND	mg/kg	0.200				
Naphthalene	ND	mg/kg	1.00				
Surrogate Recovery							
2,5-Dibromotoluene-PID	94.0	%					
2,5-Dibromotoluene-FID	87.0	%					
Blank Analysis for sample(s) 01-03							
Extractable Petroleum Hydrocarbons				46 98-1	0611 09:25	0613 23:15	PD
C9-C18 Aliphatics, Unadjusted	ND	mg/kg	10.0				
C19-C36 Aliphatics, Unadjusted	ND	mg/kg	10.0				
C11-C22 Aromatics, Unadjusted	ND	mg/kg	10.0				
C11-C22 Aromatics, Adjusted	ND	mg/kg	10.0				
Naphthalene	ND	mg/kg	0.500				
2-Methylnaphthalene	ND	mg/kg	0.500				
Acenaphthylene	ND	mg/kg	0.500				
Acenaphthene	ND	mg/kg	0.500				
Fluorene	ND	mg/kg	0.500				
Phenanthrene	ND	mg/kg	0.500				
Anthracene	ND	mg/kg	0.500				
Fluoranthene	ND	mg/kg	0.500				
Pyrene	ND	mg/kg	0.500				
Benzo(a)anthracene	ND	mg/kg	0.500				
Chrysene	ND	mg/kg	0.500				
Benzo(b)fluoranthene	ND	mg/kg	0.500				
Benzo(k)fluoranthene	ND	mg/kg	0.500				
Benzo(a)pyrene	ND	mg/kg	0.500				
Indeno(1,2,3-cd)Pyrene	ND	mg/kg	0.500				
Dibenzo(a,h)anthracene	ND	mg/kg	0.500				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0205660

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-03							
Extractable Petroleum Hydrocarbons continued				46 98-1	0611 09:25	0613 23:15	PD
Benzo(g,h,i)perylene	ND	mg/kg	0.500				
Surrogate Recovery							
Chloro-Octadecane	85.0	%					
o-Terphenyl	88.0	%					
2-Fluorobiphenyl	87.0	%					
2-Bromonaphthalene	73.0	%					
Blank Analysis for sample(s) 08							
Extractable Petroleum Hydrocarbons				46 98-1	0612 17:20	0613 15:48	PD
C9-C18 Aliphatics, Unadjusted	ND	mg/kg	10.0				
C19-C36 Aliphatics, Unadjusted	ND	mg/kg	10.0				
C11-C22 Aromatics, Unadjusted	ND	mg/kg	10.0				
C11-C22 Aromatics, Adjusted	ND	mg/kg	10.0				
Naphthalene	ND	mg/kg	0.500				
2-Methylnaphthalene	ND	mg/kg	0.500				
Acenaphthylene	ND	mg/kg	0.500				
Acenaphthene	ND	mg/kg	0.500				
Fluorene	ND	mg/kg	0.500				
Phenanthrene	ND	mg/kg	0.500				
Anthracene	ND	mg/kg	0.500				
Fluoranthene	ND	mg/kg	0.500				
Pyrene	ND	mg/kg	0.500				
Benzo(a)anthracene	ND	mg/kg	0.500				
Chrysene	ND	mg/kg	0.500				
Benzo(b)fluoranthene	ND	mg/kg	0.500				
Benzo(k)fluoranthene	ND	mg/kg	0.500				
Benzo(a)pyrene	ND	mg/kg	0.500				
Indeno(1,2,3-cd)Pyrene	ND	mg/kg	0.500				
Dibenzo(a,h)anthracene	ND	mg/kg	0.500				
Benzo(g,h,i)perylene	ND	mg/kg	0.500				
Surrogate Recovery							
Chloro-Octadecane	77.0	%					
o-Terphenyl	85.0	%					
2-Fluorobiphenyl	96.0	%					
2-Bromonaphthalene	77.0	%					

REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Update III, 1997.

30. Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

45. Physiologically Available Cyanide (PAC), January 1996 Protocol, Mass DEP 1996.

46. Method for the Determination of Extractable Petroleum Hydrocarbons (EPH), Massachusetts Department of Environmental Protection, (MADEP-EPH-98-1), January 1998.

47. Method for the Determination of Volatile Petroleum Hydrocarbons (VPH), Massachusetts Department of Environmental Protection, (MADEP-VPH-98-1), January 1998.

GLOSSARY OF TERMS AND SYMBOLS

REF Reference number in which test method may be found.
METHOD Method number by which analysis was performed.
ID Initials of the analyst.

Please note that all solid samples are reported on dry weight basis unless noted otherwise.

LIMITATION OF LIABILITIES

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We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.

Quality Control Acceptance Criteria

Volatile Organics by Method 8260B

surrogate spike % recovery	AQ Limits		Soil Limits	
	LCL	UCL	LCL	UCL
1,2-Dichloroethane-d_4	75%	125%	75%	125%
4-Bromofluorobenzene	75%	125%	75%	125%
Toluene-d_8	75%	125%	75%	125%
Dibromofluoromethane	75%	125%	75%	125%

matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	percent recovery				duplicate and/or MSD	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
1,1-Dichloroethene	61%	145%	59%	172%	all target compounds	
Trichloroethene	71%	120%	62%	137%	20%	30%
Chlorobenzene	75%	130%	60%	133%		
Benzene	76%	127%	66%	142%		
Toluene	76%	125%	59%	139%		

Volatile Organics by Method 8021B

surrogate spike % recovery	AQ Limits		Soil Limits	
	LCL	UCL	LCL	UCL
4-Bromochlorobenzene	70%	110%	70%	120%
4-Bromofluorobenzene	70%	110%	70%	120%

matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	percent recovery				duplicate and/or MSD	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
1,1-Dichloroethene	70%	130%	70%	130%	all target compounds	
Trichloroethene	70%	130%	70%	130%	20%	30%
Chlorobenzene	70%	130%	70%	130%		
Benzene	70%	130%	70%	130%		
Toluene	70%	130%	70%	130%		
Ethylbenzene	70%	130%	70%	130%		

Semi-Volatile Organics by Method 8270C (includes PAHs)

surrogate spike % recovery	AQ Limits		Soil Limits	
	LCL	UCL	LCL	UCL
Nitrobenzene-d_5	23%	120%	23%	120%
Phenol-d_6	10%	120%	10%	120%
2-Fluorophenol	21%	120%	25%	120%
2-Fluorobiphenyl	43%	120%	30%	120%
p-Terphenyl-d_{14}	33%	120%	18%	120%
2,4,6-Tribromophenol	10%	120%	19%	120%

matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	percent recovery				duplicate and/or MSD	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
1,2,4-Trichlorobenzene	39%	98%	38%	107%	all target compounds	
Acenaphthene	46%	118%	31%	137%	40%	50%
2,4-Dinitrotoluene	24%	96%	28%	89%		
Pyrene	26%	127%	35%	142%		
N-Nitroso-di-n-propylamine	41%	116%	41%	126%		
1,4-Dichlorobenzene	36%	97%	28%	104%		
Pentachlorophenol	9%	103%	17%	109%		
Phenol	12%	110%	26%	90%		
2-Chlorophenol	27%	123%	25%	102%		
4-Chloro-3-methylphenol	23%	97%	26%	103%		
4-Nitrophenol	10%	80%	11%	114%		

Quality Control Acceptance Criteria

PCB/Pesticides by Method 8082/8081

surrogate spike % recovery	AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL		
2,4,5,6-Tetrachloro-m-xylene	40%	120%	40%	120%		
Decachlorobiphenyl	40%	120%	40%	120%		
matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	**percent recovery**				**duplicate and/or MSD**	
	AQ Limits		**Soil Limits**		**AQ Limits**	**Soil Limits**
	LCL	**UCL**	**LCL**	**UCL**	**RPD**	**RPD**
Lindane	56%	123%	46%	127%	all target compounds	
Heptachlor	40%	131%	35%	130%	30%	50%
Aldrin	40%	120%	34%	132%		
Dieldrin	52%	126%	31%	134%		
Endrin	56%	121%	42%	139%		
4,4'-DDT	38%	127%	23%	134%		
Aroclor 1242/1016	40%	140%	40%	140%		
Aroclor 1260	40%	140%	40%	140%		

Volatile Petroleum Hydrocarbons (VPH) by MA DEP 98-1

surrogate spike % recovery	AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL		
2,5-Dibromotoluene	70%	130%	70%	130%		
laboratory control sample (LCS)	**percent recovery**				**duplicate**	
	AQ Limits		**Soil Limits**		**AQ Limits**	**Soil Limits**
	LCL	**UCL**	**LCL**	**UCL**	**RPD**	**RPD**
all compounds	70%	130%	70%	130%	50%	50%

Extractable Petroleum Hydrocarbons (EPH) by MA DEP 98-1

surrogate spike % recovery	AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL		
Chloro-octadecane	40%	140%	40%	140%		
ortho-Terphenyl	40%	140%	40%	140%		
2-Fluorobiphenyl (fractionation)	40%	140%	40%	140%		
2-Bromonaphthalene (fractionation)	40%	140%	40%	140%		
laboratory control sample (LCS)	**percent recovery**				**duplicate**	
	AQ Limits		**Soil Limits**		**AQ Limits**	**Soil Limits**
	LCL	**UCL**	**LCL**	**UCL**	**RPD**	**RPD**
all compounds	40%	140%	40%	140%	50%	50%

TPH (GC-FID) by Method 8100M

surrogate spike % recovery	AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL	duplicate AQ Limits RPD	duplicate Soil Limits RPD
ortho-Terphenyl	40%	140%	40%	140%	40%	40%

TPH by Method 418.1

matrix spike (MS) & laboratory control sample (LCS)	**percent recovery**				**duplicate**	
	AQ Limits		**Soil Limits**		**AQ Limits**	**Soil Limits**
	LCL	**UCL**	**LCL**	**UCL**	**RPD**	**RPD**
TPH	60%	140%	60%	140%	40%	40%

Quality Control Acceptance Criteria

Trace Metals by Method 6010B/7000 series

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
target analyte	75%	125%	70%	140%	20%	35%

Mercury by Method 7470A/7471A

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
mercury	70%	130%	60%	140%	35%	45%

Total Cyanide by Method 9010B

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
cyanide	80%	120%	65%	135%	30%	40%

Total Phenol by Method 9065

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
phenol	70%	130%	65%	135%	20%	30%

HALEY & ALDRICH
Haley & Aldrich, Inc.
465 Medford St.,
Suite 2200,
Boston, MA 02129-1400

CHAIN OF CUSTODY RECORD

Phone (617) 886-7400
Fax (617) 886-7600

H&A FILE NO. 06588-635
PROJECT NAME Malden MCP
H&A CONTACT Steve Pioneical

LABORATORY Alpha Analytical
ADDRESS 8 Walkup Dr Westborough
CONTACT Gail Hendrickson

DELIVERY DATE 6/10/02
TURNAROUND TIME Standard
PROJECT MANAGER B. Wilkinson

Analysis Requested

Sample No.	Date	Time	Depth	Type	1 PAHs	2 EPH (Std)	3 RCRA Metals	4 TCN	5 PAC	6 Total Solids	7 VPH (Std)	8 VOC (High)						Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)
SS-101 B1	6-9-02	9:00	0-3'	Soil	X	X	X	X	X									1	1 PAHs
SS-102 C1	6-9-02	10:00	0-3'	Soil	X	X	X	X	X									1	2 EPH (std)
SS-103 C1	6-9-02	11:30	0-3'	Soil	X	X	X	X	X									2	3 RCRA & Metals
SS-101 C1	6-9-02	9:00	0-3'	Soil						X								1	4 TCN
SS-102 C2	6-9-02	10:00	0-3'	Soil						X								1	5 PAC
SS-103 C2	6-9-02	11:30	0-3'	Soil						X								2	6 Total Solids
SS-101 S1	6-9-02	8:20	0.5-1'	Soil							X	X						2	7 VPH (std)
SS-102 S1	6-9-02	9:30	0.5-1'	Soil							X	X						2	8 VOC (High)
SS-103 S1	6-9-02	10:30	0.5-1'	Soil							X	X						4	
Triplank	6-9-02	—	—	—							X	X						2	

LIQUID (18)

VOA Vial														
Amber Glass														
Plastic Bottle														
Preservative							A,6	A,6						
Volume														

SOLID

VOA Vial														
Amber Glass														
Clear Glass														
Preservative														
Volume														

Sampled and Relinquished by
Sign [signature]
Print Tim Erickson
Firm H&A
Date 6-9-02 Time 12:15

Received by
Sign [signature]
Print [signature]
Firm H&A
Date 6/9/02 Time 12:15

Relinquished by
Sign [signature]
Print [signature]
Firm H&A
Date 6/10/02 Time 15:40

Received by
Sign [signature]
Print Winston
Firm ALPHA
Date 6/10/02 Time [illegible]

Relinquished by
Sign [signature]
Print
Firm
Date Time

Received by
Sign [signature]
Print D. Lockbaichi
Firm Alpha
Date 6/10/02 Time 1830

Sampling Comments
2 Triplanks included
Need test for physiologically available cyanide if total cyanide is detected

Evidence samples were tampered with? YES NO
If YES, please explain in section below.

PRESERVATION KEY

A Sample chilled	C NaOH	E H_2SO_4	G Methanol
B Sample filtered	D HNO_3	F HCL	H Sodium Bisulfate

WHITE Laboratory CANARY - Project Manager PINK - Haley & Aldrich Laboratory GOLDENROD - Haley & Aldrich Contact

ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT

Laboratory Job Number: L0205660

Alpha Report L0205660:

EPH

Alpha Sample(s) L0205660-01 through -03 have elevated limits of detection due to sample matrix.

PAH

Alpha Sample(s) L0205660-01 have elevated limits of detection due to analytical dilutions required by the matrix of the sample.

A discrepancy was noted between the results for the analysis of PAHs for Alpha Samples L0205660-03 (Client ID SS-103-C1) and L0205660-08 (Client ID SS-103-C1 Dup). Although the surrogate percent recoveries for both samples were within the acceptance criteria for the method, Alpha Sample L0205660-03 will be re-extracted for confirmation of the reported results.

One or more of the matrix spike/matrix spike duplicate percent recoveries for PAH analysis associated with Alpha Sample(s) L0205660-08 are below the acceptance criteria for the method resulting in high RPDs. This has been attributed to a laboratory incident.

Physiologically Available Cyanide

The Prussian Blue laboratory control sample recovery associated with Alpha Sample L0205660-08 has a recovery of 6%.

RECEIVED

FEB 27 2002

Haley & Aldrich

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65 NY:11148

CERTIFICATE OF ANALYSIS

Client: Haley & Aldrich, Inc.

Address: 465 Medford Street, Suite 2200
Boston, MA 02129-1400

Attn: Mr. Steve Provencal

Project Number: 06558-612

Site: FORMER MALDEN MGP

Laboratory Job Number: L0201690

Invoice Number: 60394

Date Received: 19-FEB-02

Date Reported: 26-FEB-02

Delivery Method: Alpha

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0201690-01	02M-1001-MW	
L0201690-02	02B-917-MW	
L0201690-03	02B-918-MW	

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by: Scott McLean

Scott McLean - Technical Director
This document electronically signed

ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT

Laboratory Job Number: L0201690

Alpha Report L0201690:

Volatile Organics

Alpha Sample(s) L0201690-03 required analysis on dilution due to target contamination.

Semi-Volatile Organics

One or more of the matrix spike/matrix spike duplicate percent recoveries for the analysis of 8270 associated with Alpha Sample(s) L0201690-01 through -03 is invalid because the sample concentration is greater than four times the spike amount added.

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0201690-01
02M-1001-MW
Sample Matrix: SOIL

Date Collected: 18-FEB-2002 08:00
Date Received : 19-FEB-2002
Date Reported : 26-FEB-2002

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic,1-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Solids, Total	93.	%	0.10	30	2540G		0221 16:36	NL
Cyanide, Total	6.6	mg/kg	0.15	1	9010B	0221 19:08	0222 14:21	ED
Total Metals				1	3051			
Arsenic, Total	6.2	mg/kg	0.43	1	6010B	0221 15:00	0222 13:06	RW
Barium, Total	41.	mg/kg	0.43	1	6010B	0221 15:00	0222 13:06	RW
Cadmium, Total	ND	mg/kg	0.43	1	6010B	0221 15:00	0222 13:06	RW
Chromium, Total	22.	mg/kg	0.43	1	6010B	0221 15:00	0222 13:06	RW
Lead, Total	66.	mg/kg	2.1	1	6010B	0221 15:00	0222 13:06	RW
Mercury, Total	0.22	mg/kg	0.08	1	7471A	0222 11:40	0224 12:45	DM
Selenium, Total	ND	mg/kg	0.86	1	6010B	0221 15:00	0222 13:06	RW
Silver, Total	ND	mg/kg	0.43	1	6010B	0221 15:00	0222 13:06	RW
Volatile Organics 8260 via High 5035				1	8260B		0223 14:42	BT
Methylene chloride	ND	ug/kg	460					
1,1-Dichloroethane	ND	ug/kg	69.					
Chloroform	ND	ug/kg	69.					
Carbon tetrachloride	ND	ug/kg	46.					
1,2-Dichloropropane	ND	ug/kg	160					
Dibromochloromethane	ND	ug/kg	46.					
1,1,2-Trichloroethane	ND	ug/kg	69.					
Tetrachloroethene	ND	ug/kg	46.					
Chlorobenzene	ND	ug/kg	46.					
Trichlorofluoromethane	ND	ug/kg	230					
1,2-Dichloroethane	ND	ug/kg	46.					
1,1,1-Trichloroethane	ND	ug/kg	46.					
Bromodichloromethane	ND	ug/kg	46.					
trans-1,3-Dichloropropene	ND	ug/kg	46.					
cis-1,3-Dichloropropene	ND	ug/kg	46.					
1,1-Dichloropropene	ND	ug/kg	230					
Bromoform	ND	ug/kg	46.					
1,1,2,2-Tetrachloroethane	ND	ug/kg	46.					
Benzene	240	ug/kg	46.					
Toluene	230	ug/kg	69.					
Ethylbenzene	ND	ug/kg	46.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0201690-01
02M-1001-MW

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics 8260 via High 5035 continued				1 8260B		0223 14:42	BT
Chloromethane	ND	ug/kg	230				
Bromomethane	ND	ug/kg	92.				
Vinyl chloride	ND	ug/kg	92.				
Chloroethane	ND	ug/kg	92.				
1,1-Dichloroethene	ND	ug/kg	46.				
trans-1,2-Dichloroethene	ND	ug/kg	69.				
Trichloroethene	ND	ug/kg	46.				
1,2-Dichlorobenzene	ND	ug/kg	230				
1,3-Dichlorobenzene	ND	ug/kg	230				
1,4-Dichlorobenzene	ND	ug/kg	230				
Methyl tert butyl ether	ND	ug/kg	92.				
p/m-Xylene	120	ug/kg	46.				
o-Xylene	ND	ug/kg	46.				
cis-1,2-Dichloroethene	ND	ug/kg	46.				
Dibromomethane	ND	ug/kg	460				
1,4-Dichlorobutane	ND	ug/kg	460				
Iodomethane	ND	ug/kg	460				
1,2,3-Trichloropropane	ND	ug/kg	460				
Styrene	ND	ug/kg	46.				
Dichlorodifluoromethane	ND	ug/kg	460				
Acetone	ND	ug/kg	460				
Carbon disulfide	ND	ug/kg	460				
2-Butanone	ND	ug/kg	460				
Vinyl acetate	ND	ug/kg	460				
4-Methyl-2-pentanone	ND	ug/kg	460				
2-Hexanone	ND	ug/kg	460				
Ethyl methacrylate	ND	ug/kg	460				
Acrolein	ND	ug/kg	1100				
Acrylonitrile	ND	ug/kg	460				
Bromochloromethane	ND	ug/kg	230				
Tetrahydrofuran	ND	ug/kg	920				
2,2-Dichloropropane	ND	ug/kg	230				
1,2-Dibromoethane	ND	ug/kg	230				
1,3-Dichloropropane	ND	ug/kg	230				
1,1,1,2-Tetrachloroethane	ND	ug/kg	46.				
Bromobenzene	ND	ug/kg	230				
n-Butylbenzene	ND	ug/kg	46.				
sec-Butylbenzene	ND	ug/kg	46.				
tert-Butylbenzene	ND	ug/kg	230				
o-Chlorotoluene	ND	ug/kg	230				
p-Chlorotoluene	ND	ug/kg	230				
1,2-Dibromo-3-chloropropane	ND	ug/kg	230				
Hexachlorobutadiene	ND	ug/kg	230				
Isopropylbenzene	ND	ug/kg	46.				
p-Isopropyltoluene	ND	ug/kg	46.				
Naphthalene	3700	ug/kg	230				
n-Propylbenzene	ND	ug/kg	46.				
1,2,3-Trichlorobenzene	ND	ug/kg	230				
1,2,4-Trichlorobenzene	ND	ug/kg	230				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0201690-01
02M-1001-MW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics 8260 via High 5035 continued				1	8260B		0223 14:42	BT
1,3,5-Trimethylbenzene	ND	ug/kg	230					
1,2,4-Trimethylbenzene	ND	ug/kg	230					
trans-1,4-Dichloro-2-butene	ND	ug/kg	230					
Ethyl ether	ND	ug/kg	230					
Surrogate Recovery								
1,2-Dichloroethane-d4	97.0	%						
Toluene-d8	99.0	%						
4-Bromofluorobenzene	97.0	%						
Dibromofluoromethane	85.0	%						
PNA's by GC/MS 8270				1	8270C	0221 19:15	0225 20:36	HL
Acenaphthene	ND	ug/kg	5400					
2-Chloronaphthalene	ND	ug/kg	6400					
Fluoranthene	7400	ug/kg	5400					
Naphthalene	ND	ug/kg	5400					
Benzo(a)anthracene	ND	ug/kg	5400					
Benzo(a)pyrene	ND	ug/kg	5400					
Benzo(b)fluoranthene	ND	ug/kg	5400					
Benzo(k)fluoranthene	ND	ug/kg	5400					
Chrysene	ND	ug/kg	5400					
Acenaphthylene	ND	ug/kg	5400					
Anthracene	ND	ug/kg	5400					
Benzo(ghi)perylene	ND	ug/kg	5400					
Fluorene	ND	ug/kg	5400					
Phenanthrene	ND	ug/kg	5400					
Dibenzo(a,h)anthracene	ND	ug/kg	5400					
Indeno(1,2,3-cd)pyrene	ND	ug/kg	7500					
Pyrene	7000	ug/kg	5400					
Benzo(e)pyrene	ND	ug/kg	5400					
Biphenyl	ND	ug/kg	5400					
Perylene	ND	ug/kg	5400					
1-Methylnaphthalene	ND	ug/kg	5400					
2-Methylnaphthalene	ND	ug/kg	8600					
Surrogate Recovery								
Nitrobenzene-d5	83.0	%						
2-Fluorobiphenyl	85.0	%						
4-Terphenyl-d14	68.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0201690-02
02B-917-MW
Sample Matrix: SOIL

Date Collected: 18-FEB-2002 11:50
Date Received : 19-FEB-2002
Date Reported : 26-FEB-2002

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic,1-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Solids, Total	93.	%	0.10	30	2540G		0221 16:36	NL
Cyanide, Total	15.	mg/kg	0.14	1	9010B	0221 19:08	0222 14:22	ED
Total Metals				1	3051			
Arsenic, Total	4.5	mg/kg	0.43	1	6010B	0221 16:00	0222 13:11	RW
Barium, Total	62.	mg/kg	0.43	1	6010B	0221 15:00	0222 13:11	RW
Cadmium, Total	ND	mg/kg	0.43	1	6010B	0221 15:00	0222 13:11	RW
Chromium, Total	16.	mg/kg	0.43	1	6010B	0221 15:00	0222 13:11	RW
Lead, Total	110	mg/kg	2.1	1	6010B	0221 15:00	0222 13:11	RW
Mercury, Total	0.76	mg/kg	0.08	1	7471A	0222 11:40	0224 12:45	DM
Selenium, Total	ND	mg/kg	0.86	1	6010B	0221 15:00	0222 13:11	RW
Silver, Total	ND	mg/kg	0.43	1	6010B	0221 15:00	0222 13:11	RW
Volatile Organics 8260 via High 5035				1	8260B		0223 15:24	BT
Methylene chloride	ND	ug/kg	440					
1,1-Dichloroethane	ND	ug/kg	65.					
Chloroform	ND	ug/kg	65.					
Carbon tetrachloride	ND	ug/kg	44.					
1,2-Dichloropropane	ND	ug/kg	150					
Dibromochloromethane	ND	ug/kg	44.					
1,1,2-Trichloroethane	ND	ug/kg	65.					
Tetrachloroethene	ND	ug/kg	44.					
Chlorobenzene	ND	ug/kg	44.					
Trichlorofluoromethane	ND	ug/kg	220					
1,2-Dichloroethane	ND	ug/kg	44.					
1,1,1-Trichloroethane	ND	ug/kg	44.					
Bromodichloromethane	ND	ug/kg	44.					
trans-1,3-Dichloropropene	ND	ug/kg	44.					
cis-1,3-Dichloropropene	ND	ug/kg	44.					
1,1-Dichloropropene	ND	ug/kg	220					
Bromoform	ND	ug/kg	44.					
1,1,2,2-Tetrachloroethane	ND	ug/kg	44.					
Benzene	280	ug/kg	44.					
Toluene	240	ug/kg	65.					
Ethylbenzene	ND	ug/kg	44.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0201690-02
02B-917-MW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics 8260 via High 5035 continued				1	8260B		0223 15:24	BT
Chloromethane	ND	ug/kg	220					
Bromomethane	ND	ug/kg	87.					
Vinyl chloride	ND	ug/kg	87.					
Chloroethane	ND	ug/kg	87.					
1,1-Dichloroethene	ND	ug/kg	44.					
trans-1,2-Dichloroethene	ND	ug/kg	65.					
Trichloroethene	ND	ug/kg	44.					
1,2-Dichlorobenzene	ND	ug/kg	220					
1,3-Dichlorobenzene	ND	ug/kg	220					
1,4-Dichlorobenzene	ND	ug/kg	220					
Methyl tert butyl ether	ND	ug/kg	87.					
p/m-Xylene	100	ug/kg	44.					
o-Xylene	ND	ug/kg	44.					
cis-1,2-Dichloroethene	ND	ug/kg	44.					
Dibromomethane	ND	ug/kg	440					
1,4-Dichlorobutane	ND	ug/kg	440					
Iodomethane	ND	ug/kg	440					
1,2,3-Trichloropropane	ND	ug/kg	440					
Styrene	ND	ug/kg	44.					
Dichlorodifluoromethane	ND	ug/kg	440					
Acetone	ND	ug/kg	440					
Carbon disulfide	ND	ug/kg	440					
2-Butanone	ND	ug/kg	440					
Vinyl acetate	ND	ug/kg	440					
4-Methyl-2-pentanone	ND	ug/kg	440					
2-Hexanone	ND	ug/kg	440					
Ethyl methacrylate	ND	ug/kg	440					
Acrolein	ND	ug/kg	1100					
Acrylonitrile	ND	ug/kg	440					
Bromochloromethane	ND	ug/kg	220					
Tetrahydrofuran	ND	ug/kg	870					
2,2-Dichloropropane	ND	ug/kg	220					
1,2-Dibromoethane	ND	ug/kg	220					
1,3-Dichloropropane	ND	ug/kg	220					
1,1,1,2-Tetrachloroethane	ND	ug/kg	44.					
Bromobenzene	ND	ug/kg	220					
n-Butylbenzene	ND	ug/kg	44.					
sec-Butylbenzene	ND	ug/kg	44.					
tert-Butylbenzene	ND	ug/kg	220					
o-Chlorotoluene	ND	ug/kg	220					
p-Chlorotoluene	ND	ug/kg	220					
1,2-Dibromo-3-chloropropane	ND	ug/kg	220					
Hexachlorobutadiene	ND	ug/kg	220					
Isopropylbenzene	ND	ug/kg	44.					
p-Isopropyltoluene	ND	ug/kg	44.					
Naphthalene	6300	ug/kg	220					
n-Propylbenzene	ND	ug/kg	44.					
1,2,3-Trichlorobenzene	ND	ug/kg	220					
1,2,4-Trichlorobenzene	ND	ug/kg	220					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0201690-02
02B-917-MW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics 8260 via High 5035 continued				1	8260B		0223 15:24	BT
1,3,5-Trimethylbenzene	ND	ug/kg	220					
1,2,4-Trimethylbenzene	ND	ug/kg	220					
trans-1,4-Dichloro-2-butene	ND	ug/kg	220					
Ethyl ether	ND	ug/kg	220					
Surrogate Recovery								
1,2-Dichloroethane-d4	96.0	%						
Toluene-d8	100.	%						
4-Bromofluorobenzene	96.0	%						
Dibromofluoromethane	86.0	%						
PNA's by GC/MS 8270				1	8270C	0221 19:15	0225 21:18	HL
Acenaphthene	ND	ug/kg	13000					
2-Chloronaphthalene	ND	ug/kg	16000					
Fluoranthene	95000	ug/kg	13000					
Naphthalene	ND	ug/kg	13000					
Benzo(a)anthracene	48000	ug/kg	13000					
Benzo(a)pyrene	40000	ug/kg	13000					
Benzo(b)fluoranthene	32000	ug/kg	13000					
Benzo(k)fluoranthene	34000	ug/kg	13000					
Chrysene	46000	ug/kg	13000					
Acenaphthylene	14000	ug/kg	13000					
Anthracene	21000	ug/kg	13000					
Benzo(ghi)perylene	24000	ug/kg	13000					
Fluorene	ND	ug/kg	13000					
Phenanthrene	72000	ug/kg	13000					
Dibenzo(a,h)anthracene	ND	ug/kg	13000					
Indeno(1,2,3-cd)pyrene	23000	ug/kg	19000					
Pyrene	86000	ug/kg	13000					
Benzo(e)pyrene	25000	ug/kg	13000					
Biphenyl	ND	ug/kg	13000					
Perylene	ND	ug/kg	13000					
1-Methylnaphthalene	ND	ug/kg	13000					
2-Methylnaphthalene	ND	ug/kg	22000					
Surrogate Recovery								
Nitrobenzene-d5	97.0	%						
2-Fluorobiphenyl	104.	%						
4-Terphenyl-d14	87.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0201690-03
02B-918-MW
Sample Matrix: SOIL

Date Collected: 18-FEB-2002 17:45
Date Received : 19-FEB-2002
Date Reported : 26-FEB-2002

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic,1-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Solids, Total	82.	%	0.10	30	2540G		0221 16:36	NL
Cyanide, Total	1.2	mg/kg	0.20	1	9010B	0221 19:08	0222 14:23	ED
Total Metals				1	3051			
Arsenic, Total	3.3	mg/kg	0.48	1	6010B	0221 15:00	0222 13:36	RW
Barium, Total	6.5	mg/kg	0.48	1	6010B	0221 15:00	0222 13:36	RW
Cadmium, Total	ND	mg/kg	0.48	1	6010B	0221 15:00	0222 13:36	RW
Chromium, Total	6.2	mg/kg	0.48	1	6010B	0221 15:00	0222 13:36	RW
Lead, Total	ND	mg/kg	2.4	1	6010B	0221 15:00	0222 13:36	RW
Mercury, Total	ND	mg/kg	0.10	1	7471A	0222 11:40	0224 12:45	DM
Selenium, Total	ND	mg/kg	0.96	1	6010B	0221 15:00	0222 13:36	RW
Silver, Total	ND	mg/kg	0.48	1	6010B	0221 15:00	0222 13:36	RW
Volatile Organics 8260 via High 5035				1	8260B		0223 16:06	BT
Methylene chloride	ND	ug/kg	7100					
1,1-Dichloroethane	ND	ug/kg	1100					
Chloroform	ND	ug/kg	1100					
Carbon tetrachloride	ND	ug/kg	710					
1,2-Dichloropropane	ND	ug/kg	2500					
Dibromochloromethane	ND	ug/kg	710					
1,1,2-Trichloroethane	ND	ug/kg	1100					
Tetrachloroethene	ND	ug/kg	710					
Chlorobenzene	ND	ug/kg	710					
Trichlorofluoromethane	ND	ug/kg	3500					
1,2-Dichloroethane	ND	ug/kg	710					
1,1,1-Trichloroethane	ND	ug/kg	710					
Bromodichloromethane	ND	ug/kg	710					
trans-1,3-Dichloropropene	ND	ug/kg	710					
cis-1,3-Dichloropropene	ND	ug/kg	710					
1,1-Dichloropropene	ND	ug/kg	3500					
Bromoform	ND	ug/kg	710					
1,1,2,2-Tetrachloroethane	ND	ug/kg	710					
Benzene	35000	ug/kg	710					
Toluene	42000	ug/kg	1100					
Ethylbenzene	15000	ug/kg	710					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0201690-03
02B-918-MW

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics 8260 via High 5035 continued				1 8260B		0223 16:06	BT
Chloromethane	ND	ug/kg	3500				
Bromomethane	ND	ug/kg	1400				
Vinyl chloride	ND	ug/kg	1400				
Chloroethane	ND	ug/kg	1400				
1,1-Dichloroethene	ND	ug/kg	710				
trans-1,2-Dichloroethene	ND	ug/kg	1100				
Trichloroethene	ND	ug/kg	710				
1,2-Dichlorobenzene	ND	ug/kg	3500				
1,3-Dichlorobenzene	ND	ug/kg	3500				
1,4-Dichlorobenzene	ND	ug/kg	3500				
Methyl tert butyl ether	ND	ug/kg	1400				
p/m-Xylene	10000	ug/kg	710				
o-Xylene	2900	ug/kg	710				
cis-1,2-Dichloroethene	ND	ug/kg	710				
Dibromomethane	ND	ug/kg	7100				
1,4-Dichlorobutane	ND	ug/kg	7100				
Iodomethane	ND	ug/kg	7100				
1,2,3-Trichloropropane	ND	ug/kg	7100				
Styrene	970	ug/kg	710				
Dichlorodifluoromethane	ND	ug/kg	7100				
Acetone	ND	ug/kg	7100				
Carbon disulfide	ND	ug/kg	7100				
2-Butanone	ND	ug/kg	7100				
Vinyl acetate	ND	ug/kg	7100				
4-Methyl-2-pentanone	ND	ug/kg	7100				
2-Hexanone	ND	ug/kg	7100				
Ethyl methacrylate	ND	ug/kg	7100				
Acrolein	ND	ug/kg	18000				
Acrylonitrile	ND	ug/kg	7100				
Bromochloromethane	ND	ug/kg	3500				
Tetrahydrofuran	ND	ug/kg	14000				
2,2-Dichloropropane	ND	ug/kg	3500				
1,2-Dibromoethane	ND	ug/kg	3500				
1,3-Dichloropropane	ND	ug/kg	3500				
1,1,1,2-Tetrachloroethane	ND	ug/kg	710				
Bromobenzene	ND	ug/kg	3500				
n-Butylbenzene	ND	ug/kg	710				
sec-Butylbenzene	ND	ug/kg	710				
tert-Butylbenzene	ND	ug/kg	3500				
o-Chlorotoluene	ND	ug/kg	3500				
p-Chlorotoluene	ND	ug/kg	3500				
1,2-Dibromo-3-chloropropane	ND	ug/kg	3500				
Hexachlorobutadiene	ND	ug/kg	3500				
Isopropylbenzene	ND	ug/kg	710				
p-Isopropyltoluene	ND	ug/kg	710				
Naphthalene	15000	ug/kg	3500				
n-Propylbenzene	ND	ug/kg	710				
1,2,3-Trichlorobenzene	ND	ug/kg	3500				
1,2,4-Trichlorobenzene	ND	ug/kg	3500				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0201690-03
02B-918-MW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics 8260 via High 5035 continued				1	8260B		0223 16:06	BT
1,3,5-Trimethylbenzene	ND	ug/kg	3500					
1,2,4-Trimethylbenzene	ND	ug/kg	3500					
trans-1,4-Dichloro-2-butene	ND	ug/kg	3500					
Ethyl ether	ND	ug/kg	3500					
Surrogate Recovery								
1,2-Dichloroethane-d4	92.0	%						
Toluene-d8	101.	%						
4-Bromofluorobenzene	100.	%						
Dibromofluoromethane	85.0	%						
PNA's by GC/MS 8270				1	8270C	0221 19:15	0225 22:42	HL
Acenaphthene	ND	ug/kg	610					
2-Chloronaphthalene	ND	ug/kg	730					
Fluoranthene	ND	ug/kg	610					
Naphthalene	5300	ug/kg	610					
Benzo(a)anthracene	ND	ug/kg	610					
Benzo(a)pyrene	ND	ug/kg	610					
Benzo(b)fluoranthene	ND	ug/kg	610					
Benzo(k)fluoranthene	ND	ug/kg	610					
Chrysene	ND	ug/kg	610					
Acenaphthylene	ND	ug/kg	610					
Anthracene	ND	ug/kg	610					
Benzo(ghi)perylene	ND	ug/kg	610					
Fluorene	ND	ug/kg	610					
Phenanthrene	ND	ug/kg	610					
Dibenzo(a,h)anthracene	ND	ug/kg	610					
Indeno(1,2,3-cd)pyrene	ND	ug/kg	850					
Pyrene	ND	ug/kg	610					
Benzo(e)pyrene	ND	ug/kg	610					
Biphenyl	ND	ug/kg	610					
Perylene	ND	ug/kg	610					
1-Methylnaphthalene	2600	ug/kg	610					
2-Methylnaphthalene	3500	ug/kg	980					
Surrogate Recovery								
Nitrobenzene-d5	80.0	%						
2-Fluorobiphenyl	79.0	%						
4-Terphenyl-d14	72.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0201690

Parameter	Value 1	Value 2	RPD	Units
Solids, Total for sample(s) 01-03 (L0201675-01, WG105840)				
Solids, Total	90.	88.	2	%
Cyanide, Total for sample(s) 01-03 (L0201691-01, WG105879)				
Cyanide, Total	0.44	0.53	19	mg/kg
Total Metals for sample(s) 01-03 (L0201599-02, WG105927)				
Arsenic, Total	5.6	5.6	0	mg/kg
Barium, Total	39.	40.	3	mg/kg
Cadmium, Total	ND	ND	NC	mg/kg
Chromium, Total	14.	14.	0	mg/kg
Lead, Total	28.	28.	0	mg/kg
Selenium, Total	ND	ND	NC	mg/kg
Silver, Total	ND	ND	NC	mg/kg
Total Metals for sample(s) 01-03 (L0201675-02, WG105953)				
Mercury, Total	0.29	0.27	7	mg/kg

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0201690

Parameter	% Recovery
Cyanide, Total LCS for sample(s) 01-03 (WG105879)	
Cyanide, Total	97
Total Metals LCS for sample(s) 01-03 (WG105927)	
Arsenic, Total	104
Barium, Total	99
Cadmium, Total	105
Chromium, Total	101
Lead, Total	105
Selenium, Total	104
Silver, Total	102
Total Metals LCS for sample(s) 01-03 (WG105953)	
Mercury, Total	112
Volatile Organics 8260 via High 5035 LCS for sample(s) 01-03 (WG105789)	
Chlorobenzene	101
Benzene	98
Toluene	98
1,1-Dichloroethene	99
Trichloroethene	105
Surrogate Recovery	
1,2-Dichloroethane-d4	98
Toluene-d8	100
4-Bromofluorobenzene	97
Dibromofluoromethane	96
PNA's by GC/MS 8270 LCS for sample(s) 01-03 (WG106075)	
Acenaphthene	90
2-Chloronaphthalene	81
Fluoranthene	89
Anthracene	88
Pyrene	92
Surrogate Recovery	
Nitrobenzene-d5	83
2-Fluorobiphenyl	88
4-Terphenyl-d14	77
Cyanide, Total SPIKE for sample(s) 01-03 (L0201691-01, WG105879)	
Cyanide, Total	83
Total Metals SPIKE for sample(s) 01-03 (L0201599-02, WG105927)	
Arsenic, Total	102
Barium, Total	103
Cadmium, Total	98
Chromium, Total	90
Lead, Total	98

FEB 27 2002

Haley & Aldrich, Inc.

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65 NY:11148

CERTIFICATE OF ANALYSIS

Client: Haley & Aldrich, Inc.

Address: 465 Medford Street, Suite 2200
Boston, MA 02129-1400

Attn: Mr. Steve Provencal

Project Number: 06558-612

Site: FORMER MALDEN MGP

Laboratory Job Number: L0201691

Invoice Number: 60452

Date Received: 19-FEB-02

Date Reported: 26-FEB-02

Delivery Method: Alpha

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0201691-01	02B-918-MW/S10	
L0201691-02	02B-919-MW/S2	

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by: Scott McLean

Scott McLean - Technical Director
This document electronically signed

Laboratory Job Number: L0201691

Alpha Report L0201691:

Report Submission

At the request of the client, the submitted samples were analyzed for Total RCRA 8 Metals.

Semi-Volatile Organics

One or more of the matrix spike/matrix spike duplicate percent recoveries for the analysis of 8270 associated with Alpha Sample(s) L0201691-01 and -02 is invalid because the sample concentration is greater than four times the spike amount added.

Quality Control Acceptance Criteria

Trace Metals by Method 6010B/7000 series

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
target analyte	75%	125%	70%	140%	20%	35%

Mercury by Method 7470A/7471A

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
mercury	70%	130%	60%	140%	35%	45%

Total Cyanide by Method 9010B

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
cyanide	80%	120%	65%	135%	30%	40%

Total Phenol by Method 9065

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
phenol	70%	130%	65%	135%	20%	30%

HALEY & ALDRICH
Haley & Aldrich, Inc.
465 Medford St.,
Suite 2200,
Boston, MA 02129-1400

CHAIN OF CUSTODY RECORD

Phone (617) 886-7400
Fax (617) 886-7600

H&A FILE NO. 06058-612
PROJECT NAME Former Malden MGP
H&A CONTACT SRP

LABORATORY ALPHA
ADDRESS Westboro MA
CONTACT Pete Hendrickson

DELIVERY DATE
TURNAROUND TIME Standard
PROJECT MANAGER Bath

Analysis Requested

Sample No.	Date	Time	Depth	Type	1 VOA	2 Alpha PAH only	3 Metals RCRA (8) PP(13)	Pesticides PCBs	VPH Full Suite C-range only	EPH Full Suite C-range only	TPH (specify)	TCLP (specify)	Reactivity Ignitability Corrosivity	4			Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)
02B-918-MW/S10	2/19/02	0830	18.2-20.2	Soil	✓	✓	✓							✓			4	1 VOC 8260 High
02B-919-MW/S2	2/19/02	1330	3-5	Soil	✓	✓	✓							✓			4	2 PAH 8270
																		3 Total Metals, total CN
																		4 Total Solids

Sampled and Relinquished by
Sign S. Shay
Print S. Shay
Firm Haley & Aldrich
Date 2/19/02 Time 1600

Received by
Sign [illegible]
Print Winslow
Firm Alpha
Date 2/19/02 Time 1600

Relinquished by
Sign [illegible]
Print
Firm
Date Time

Received by
Sign K Bach
Print
Firm
Date 2/19/02 Time 1810

Relinquished by
Sign
Print
Firm
Date Time

Received by
Sign
Print
Firm
Date Time

	LIQUID												SOLID											
VOA Vial													✓											
Amber Glass														✓	✓									
Plastic Bottle																					✓			
Preservative													4G	A	A									
Volume													40	100	100						250			

Sampling Comments
02B-918-MW/S10 Black Stain, very strong MGP odor

Evidence samples were tampered with? YES NO
If YES, please explain in section below.

PRESERVATION KEY

A Sample chilled	C NaOH	E H_2SO_4	G Methanol
B Sample filtered	D HNO_3	F HCL	H Sodium Bisulfate

WHITE - Laboratory CANARY - Project Manager PINK - Haley & Aldrich Laboratory GOLDENROD Haley & Aldrich Contact

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220

RECEIVED
MAR 0 4 2002

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65 NY:11148

CERTIFICATE OF ANALYSIS

Client: Haley & Aldrich, Inc.

Address: 465 Medford Street, Suite 2200
Boston, MA 02129-1400

Attn: Mr. Steve Provencal

Project Number: 06558-612

Site: FORMER MALDEN MGP

Laboratory Job Number: L0201727

Invoice Number: 60555

Date Received: 20-FEB-02

Date Reported: 28-FEB-02

Delivery Method: Alpha

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0201727-01	02B-920-MW (.8-2.8)	
L0201727-02	02B-920-MW (14-16)	

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by: Scott McLean

Scott McLean - Technical Director
This document electronically signed

Laboratory Job Number: L0201727

Alpha Report L0201727:

It should be noted that no significant deviations were encountered during preparation or analysis of these samples unless noted below.

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0201727-01
02B-920-MW (.8-2.8)
Sample Matrix: SOIL

Date Collected: 20-FEB-2002 11:50
Date Received : 20-FEB-2002
Date Reported : 28-FEB-2002

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic,1-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Solids, Total	93.	%	0.10	30	2540G		0223 14:55	NL
Cyanide, Total	3.8	mg/kg	0.20	1	9010B	0222 17:10	0225 12:42	ED
Total Metals				1	3051			
Arsenic, Total	6.8	mg/kg	0.43	1	6010B	0222 13:30	0225 16:05	RW
Barium, Total	27.	mg/kg	0.43	1	6010B	0222 13:30	0225 16:05	RW
Cadmium, Total	ND	mg/kg	0.43	1	6010B	0222 13:30	0225 16:05	RW
Chromium, Total	10.	mg/kg	0.43	1	6010B	0222 13:30	0225 16:05	RW
Lead, Total	110	mg/kg	2.1	1	6010B	0222 13:30	0225 16:05	RW
Mercury, Total	0.64	mg/kg	0.08	1	7471A	0225 15:25	0227 10:16	DM
Selenium, Total	ND	mg/kg	0.85	1	6010B	0222 13:30	0225 16:05	RW
Silver, Total	ND	mg/kg	0.43	1	6010B	0222 13:30	0225 16:05	RW
Volatile Organics 8260 via High 5035				1	8260B		0228 03:04	BT
Methylene chloride	ND	ug/kg	570					
1,1-Dichloroethane	ND	ug/kg	85.					
Chloroform	ND	ug/kg	85.					
Carbon tetrachloride	ND	ug/kg	57.					
1,2-Dichloropropane	ND	ug/kg	200					
Dibromochloromethane	ND	ug/kg	57.					
1,1,2-Trichloroethane	ND	ug/kg	85.					
Tetrachloroethene	ND	ug/kg	57.					
Chlorobenzene	ND	ug/kg	57.					
Trichlorofluoromethane	ND	ug/kg	280					
1,2-Dichloroethane	ND	ug/kg	57.					
1,1,1-Trichloroethane	ND	ug/kg	57.					
Bromodichloromethane	ND	ug/kg	57.					
trans-1,3-Dichloropropene	ND	ug/kg	57.					
cis-1,3-Dichloropropene	ND	ug/kg	57.					
1,1-Dichloropropene	ND	ug/kg	280					
Bromoform	ND	ug/kg	57.					
1,1,2,2-Tetrachloroethane	ND	ug/kg	57.					
Benzene	520	ug/kg	57.					
Toluene	500	ug/kg	85.					
Ethylbenzene	120	ug/kg	57.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0201727-01
02B-920-MW (.8-2.8)

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics 8260 via High 5035 continued				1	8260B		0228 03:04	BT
Chloromethane	ND	ug/kg	280					
Bromomethane	ND	ug/kg	110					
Vinyl chloride	ND	ug/kg	110					
Chloroethane	ND	ug/kg	110					
1,1-Dichloroethene	ND	ug/kg	57.					
trans-1,2-Dichloroethene	ND	ug/kg	85.					
Trichloroethene	ND	ug/kg	57.					
1,2-Dichlorobenzene	ND	ug/kg	280					
1,3-Dichlorobenzene	ND	ug/kg	280					
1,4-Dichlorobenzene	ND	ug/kg	280					
Methyl tert butyl ether	ND	ug/kg	110					
p/m-Xylene	250	ug/kg	57.					
o-Xylene	82.	ug/kg	57.					
cis-1,2-Dichloroethene	ND	ug/kg	57.					
Dibromomethane	ND	ug/kg	570					
1,4-Dichlorobutane	ND	ug/kg	570					
Iodomethane	ND	ug/kg	570					
1,2,3-Trichloropropane	ND	ug/kg	570					
Styrene	ND	ug/kg	57.					
Dichlorodifluoromethane	ND	ug/kg	570					
Acetone	ND	ug/kg	570					
Carbon disulfide	ND	ug/kg	570					
2-Butanone	ND	ug/kg	570					
Vinyl acetate	ND	ug/kg	570					
4-Methyl-2-pentanone	ND	ug/kg	570					
2-Hexanone	ND	ug/kg	570					
Ethyl methacrylate	ND	ug/kg	570					
Acrolein	ND	ug/kg	1400					
Acrylonitrile	ND	ug/kg	570					
Bromochloromethane	ND	ug/kg	280					
Tetrahydrofuran	ND	ug/kg	1100					
2,2-Dichloropropane	ND	ug/kg	280					
1,2-Dibromoethane	ND	ug/kg	280					
1,3-Dichloropropane	ND	ug/kg	280					
1,1,1,2-Tetrachloroethane	ND	ug/kg	57.					
Bromobenzene	ND	ug/kg	280					
n-Butylbenzene	ND	ug/kg	57.					
sec-Butylbenzene	ND	ug/kg	57.					
tert-Butylbenzene	ND	ug/kg	280					
o-Chlorotoluene	ND	ug/kg	280					
p-Chlorotoluene	ND	ug/kg	280					
1,2-Dibromo-3-chloropropane	ND	ug/kg	280					
Hexachlorobutadiene	ND	ug/kg	280					
Isopropylbenzene	ND	ug/kg	57.					
p-Isopropyltoluene	ND	ug/kg	57.					
Naphthalene	300	ug/kg	280					
n-Propylbenzene	ND	ug/kg	57.					
1,2,3-Trichlorobenzene	ND	ug/kg	280					
1,2,4-Trichlorobenzene	ND	ug/kg	280					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0201727-01
02B-920-MW (.8-2.8)

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics 8260 via High 5035 continued				1	8260B		0226 03:04	BT
1,3,5-Trimethylbenzene	ND	ug/kg	280					
1,2,4-Trimethylbenzene	ND	ug/kg	280					
trans-1,4-Dichloro-2-butene	ND	ug/kg	280					
Ethyl ether	ND	ug/kg	280					
Surrogate Recovery								
1,2-Dichloroethane-d4	107.	%						
Toluene-d8	90.0	%						
4-Bromofluorobenzene	86.0	%						
Dibromofluoromethane	90.0	%						
PNA's by GC/MS 8270				1	8270C	0222 14:15	0226 11:12	HL
Acenaphthene	ND	ug/kg	1100					
2-Chloronaphthalene	ND	ug/kg	1300					
Fluoranthene	5200	ug/kg	1100					
Naphthalene	ND	ug/kg	1100					
Benzo(a)anthracene	3400	ug/kg	1100					
Benzo(a)pyrene	4200	ug/kg	1100					
Benzo(b)fluoranthene	3300	ug/kg	1100					
Benzo(k)fluoranthene	3200	ug/kg	1100					
Chrysene	3500	ug/kg	1100					
Acenaphthylene	1700	ug/kg	1100					
Anthracene	1700	ug/kg	1100					
Benzo(ghi)perylene	3100	ug/kg	1100					
Fluorene	ND	ug/kg	1100					
Phenanthrene	3300	ug/kg	1100					
Dibenzo(a,h)anthracene	ND	ug/kg	1100					
Indeno(1,2,3-cd)pyrene	2800	ug/kg	1100					
Pyrene	7200	ug/kg	1100					
Benzo(e)pyrene	3000	ug/kg	1100					
Biphenyl	ND	ug/kg	1100					
Perylene	1100	ug/kg	1100					
1-Methylnaphthalene	ND	ug/kg	1100					
2-Methylnaphthalene	ND	ug/kg	1700					
Surrogate Recovery								
Nitrobenzene-d5	94.0	%						
2-Fluorobiphenyl	98.0	%						
4-Terphenyl-d14	84.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0201727-02
02B-920-MW (14-16)
Sample Matrix: SOIL

Date Collected: 20-FEB-2002 15:00
Date Received : 20-FEB-2002
Date Reported : 28-FEB-2002

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic,1-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Solids, Total	80.	%	0.10	30	2540G		0223 14:55	NL
Cyanide, Total	8.4	mg/kg	0.20	1	9010B	0222 17:10	0225 12:44	ED
Total Metals				1	3051			
Arsenic, Total	1.7	mg/kg	0.49	1	6010B	0222 13:30	0225 16:10	RW
Barium, Total	7.9	mg/kg	0.49	1	6010B	0222 13:30	0225 16:10	RW
Cadmium, Total	ND	mg/kg	0.49	1	6010B	0222 13:30	0225 16:10	RW
Chromium, Total	6.2	mg/kg	0.49	1	6010B	0222 13:30	0225 16:10	RW
Lead, Total	ND	mg/kg	2.4	1	6010B	0222 13:30	0225 16:10	RW
Mercury, Total	ND	mg/kg	0.10	1	7471A	0225 15:25	0227 10:16	DM
Selenium, Total	ND	mg/kg	0.98	1	6010B	0222 13:30	0225 16:10	RW
Silver, Total	ND	mg/kg	0.49	1	6010B	0222 13:30	0225 16:10	RW
Volatile Organics 8260 via High 5035				1	8260B		0228 03:46	BT
Methylene chloride	ND	ug/kg	910					
1,1-Dichloroethane	ND	ug/kg	140					
Chloroform	ND	ug/kg	140					
Carbon tetrachloride	ND	ug/kg	91.					
1,2-Dichloropropane	ND	ug/kg	320					
Dibromochloromethane	ND	ug/kg	91.					
1,1,2-Trichloroethane	ND	ug/kg	140					
Tetrachloroethene	ND	ug/kg	91.					
Chlorobenzene	ND	ug/kg	91.					
Trichlorofluoromethane	ND	ug/kg	460					
1,2-Dichloroethane	ND	ug/kg	91.					
1,1,1-Trichloroethane	ND	ug/kg	91.					
Bromodichloromethane	ND	ug/kg	91.					
trans-1,3-Dichloropropene	ND	ug/kg	91.					
cis-1,3-Dichloropropene	ND	ug/kg	91.					
1,1-Dichloropropene	ND	ug/kg	460					
Bromoform	ND	ug/kg	91.					
1,1,2,2-Tetrachloroethane	ND	ug/kg	91.					
Benzene	ND	ug/kg	91.					
Toluene	ND	ug/kg	140					
Ethylbenzene	ND	ug/kg	91.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0201727

Continued

Parameter	% Recovery
Total Metals SPIKE for sample(s) 01-02 (L0201747-02, WG106063)	
Selenium, Total	97
Silver, Total	101
Total Metals SPIKE for sample(s) 01-02 (L0201727-02, WG106139)	
Mercury, Total	100

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0201727

Parameter	MS %	MSD %	RPD
Volatile Organics 8260 via High 5035 for sample(s) 01-02 (L0201608-01, WG106102)			
Methylene chloride	100	110	10
1,1-Dichloroethane	93	92	1
Chloroform	92	92	0
Carbon tetrachloride	76	74	3
1,2-Dichloropropane	100	98	2
Dibromochloromethane	80	80	0
1,1,2-Trichloroethane	100	100	0
Tetrachloroethene	93	88	6
Chlorobenzene	92	92	0
Trichlorofluoromethane	88	84	5
1,2-Dichloroethane	100	100	0
1,1,1-Trichloroethane	83	83	0
Bromodichloromethane	87	85	2
trans-1,3-Dichloropropene	88	88	0
cis-1,3-Dichloropropene	95	95	0
Bromoform	81	86	6
1,1,2,2-Tetrachloroethane	98	100	2
Benzene	95	94	1
Toluene	95	93	2
Ethylbenzene	93	92	1
Chloromethane	81	81	0
Bromomethane	91	89	2
Vinyl chloride	67	64	5
Chloroethane	61	59	3
1,1-Dichloroethene	92	89	3
trans-1,2-Dichloroethene	91	91	0
Trichloroethene	100	96	4
p/m-Xylene	94	91	3
o-Xylene	94	94	0
cis-1,2-Dichloroethene	100	98	2
Styrene	94	95	1
Carbon disulfide	72	69	4
Vinyl acetate	90	90	0
Acrylonitrile	90	93	3
1,2-Dibromoethane	99	100	1
PNA's by GC/MS 8270 for sample(s) 01-02 (L0201926-01, WG106357)			
Acenaphthene	86	97	12
2-Chloronaphthalene	83	97	16
Fluoranthene	97	110	13
Anthracene	82	88	7
Pyrene	97	110	13

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0201727

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-02								
Cyanide, Total	ND	mg/kg	0.18	1	9010B	0222 17:10	0225 12:34	ED
Blank Analysis for sample(s) 01-02								
Total Metals				1	3051			
Arsenic, Total	ND	mg/kg	0.40	1	6010B	0222 13:30	0224 15:37	TT
Barium, Total	ND	mg/kg	0.40	1	6010B	0222 13:30	0224 15:37	TT
Cadmium, Total	ND	mg/kg	0.40	1	6010B	0222 13:30	0224 15:37	TT
Chromium, Total	ND	mg/kg	0.40	1	6010B	0222 13:30	0224 15:37	TT
Lead, Total	ND	mg/kg	2.0	1	6010B	0222 13:30	0224 15:37	TT
Selenium, Total	ND	mg/kg	0.80	1	6010B	0222 13:30	0224 15:37	TT
Silver, Total	ND	mg/kg	0.40	1	6010B	0222 13:30	0224 15:37	TT
Blank Analysis for sample(s) 01-02								
Total Metals								
Mercury, Total	ND	mg/kg	0.08	1	7471A	0225 15:25	0227 10:16	DM
Blank Analysis for sample(s) 01-02								
Volatile Organics 8260 via High 5035				1	8260B		0227 17:13	BT
Methylene chloride	ND	ug/kg	500					
1,1-Dichloroethane	ND	ug/kg	75.					
Chloroform	ND	ug/kg	75.					
Carbon tetrachloride	ND	ug/kg	50.					
1,2-Dichloropropane	ND	ug/kg	180					
Dibromochloromethane	ND	ug/kg	50.					
1,1,2-Trichloroethane	ND	ug/kg	75.					
Tetrachloroethene	ND	ug/kg	50.					
Chlorobenzene	ND	ug/kg	50.					
Trichlorofluoromethane	ND	ug/kg	250					
1,2-Dichloroethane	ND	ug/kg	50.					
1,1,1-Trichloroethane	ND	ug/kg	50.					
Bromodichloromethane	ND	ug/kg	50.					
trans-1,3-Dichloropropene	ND	ug/kg	50.					
cis-1,3-Dichloropropene	ND	ug/kg	50.					
1,1-Dichloropropene	ND	ug/kg	250					
Bromoform	ND	ug/kg	50.					
1,1,2,2-Tetrachloroethane	ND	ug/kg	50.					
Benzene	ND	ug/kg	50.					
Toluene	ND	ug/kg	75.					
Ethylbenzene	ND	ug/kg	50.					
Chloromethane	ND	ug/kg	250					
Bromomethane	ND	ug/kg	100					
Vinyl chloride	ND	ug/kg	100					
Chloroethane	ND	ug/kg	100					
1,1-Dichloroethene	ND	ug/kg	50.					
trans-1,2-Dichloroethene	ND	ug/kg	75.					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0201727

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-02								
Volatile Organics 8260 via High 5035 continued				1	8260B		0227 17:13	BT
Trichloroethene	ND	ug/kg	50.					
1,2-Dichlorobenzene	ND	ug/kg	250					
1,3-Dichlorobenzene	ND	ug/kg	250					
1,4-Dichlorobenzene	ND	ug/kg	250					
Methyl tert butyl ether	ND	ug/kg	100					
p/m-Xylene	ND	ug/kg	50.					
o-Xylene	ND	ug/kg	50.					
cis-1,2-Dichloroethene	ND	ug/kg	50.					
Dibromomethane	ND	ug/kg	500					
1,4-Dichlorobutane	ND	ug/kg	500					
Iodomethane	ND	ug/kg	500					
1,2,3-Trichloropropane	ND	ug/kg	500					
Styrene	ND	ug/kg	50.					
Dichlorodifluoromethane	ND	ug/kg	500					
Acetone	ND	ug/kg	500					
Carbon disulfide	ND	ug/kg	500					
2-Butanone	ND	ug/kg	500					
Vinyl acetate	ND	ug/kg	500					
4-Methyl-2-pentanone	ND	ug/kg	500					
2-Hexanone	ND	ug/kg	500					
Ethyl methacrylate	ND	ug/kg	500					
Acrolein	ND	ug/kg	1200					
Acrylonitrile	ND	ug/kg	500					
Bromochloromethane	ND	ug/kg	250					
Tetrahydrofuran	ND	ug/kg	1000					
2,2-Dichloropropane	ND	ug/kg	250					
1,2-Dibromoethane	ND	ug/kg	250					
1,3-Dichloropropane	ND	ug/kg	250					
1,1,1,2-Tetrachloroethane	ND	ug/kg	50.					
Bromobenzene	ND	ug/kg	250					
n-Butylbenzene	ND	ug/kg	50.					
sec-Butylbenzene	ND	ug/kg	50.					
tert-Butylbenzene	ND	ug/kg	250					
o-Chlorotoluene	ND	ug/kg	250					
p-Chlorotoluene	ND	ug/kg	250					
1,2-Dibromo-3-chloropropane	ND	ug/kg	250					
Hexachlorobutadiene	ND	ug/kg	250					
Isopropylbenzene	ND	ug/kg	50.					
p-Isopropyltoluene	ND	ug/kg	50.					
Naphthalene	ND	ug/kg	250					
n-Propylbenzene	ND	ug/kg	50.					
1,2,3-Trichlorobenzene	ND	ug/kg	250					
1,2,4-Trichlorobenzene	ND	ug/kg	250					
1,3,5-Trimethylbenzene	ND	ug/kg	250					
1,2,4-Trimethylbenzene	ND	ug/kg	250					
trans-1,4-Dichloro-2-butene	ND	ug/kg	250					
Ethyl ether	ND	ug/kg	250					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0201727

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-02								
Volatile Organics 8260 via High 5035 continued				1	8260B		0227 17:13	BT
Surrogate Recovery								
1,2-Dichloroethane-d4	108.	%						
Toluene-d8	91.0	%						
4-Bromofluorobenzene	95.0	%						
Dibromofluoromethane	94.0	%						
Blank Analysis for sample(s) 01-02								
PNA's by GC/MS 8270				1	8270C	0222 14:15	0226 13:08	HL
Acenaphthene	ND	ug/kg	500					
2-Chloronaphthalene	ND	ug/kg	600					
Fluoranthene	ND	ug/kg	500					
Naphthalene	ND	ug/kg	500					
Benzo(a)anthracene	ND	ug/kg	500					
Benzo(a)pyrene	ND	ug/kg	500					
Benzo(b)fluoranthene	ND	ug/kg	500					
Benzo(k)fluoranthene	ND	ug/kg	500					
Chrysene	ND	ug/kg	500					
Acenaphthylene	ND	ug/kg	500					
Anthracene	ND	ug/kg	500					
Benzo(ghi)perylene	ND	ug/kg	500					
Fluorene	ND	ug/kg	500					
Phenanthrene	ND	ug/kg	500					
Dibenzo(a,h)anthracene	ND	ug/kg	500					
Indeno(1,2,3-cd)pyrene	ND	ug/kg	700					
Pyrene	ND	ug/kg	500					
Benzo(e)pyrene	ND	ug/kg	500					
Biphenyl	ND	ug/kg	500					
Perylene	ND	ug/kg	500					
1-Methylnaphthalene	ND	ug/kg	500					
2-Methylnaphthalene	ND	ug/kg	800					
Surrogate Recovery								
Nitrobenzene-d5	90.0	%						
2-Fluorobiphenyl	93.0	%						
4-Terphenyl-d14	79.0	%						

REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Update III. 1997.

30. Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

GLOSSARY OF TERMS AND SYMBOLS

REF Reference number in which test method may be found.

METHOD Method number by which analysis was performed.

ID Initials of the analyst.

LIMITATION OF LIABILITIES

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.

Quality Control Acceptance Criteria

Volatile Organics by Method 8260B

surrogate spike % recovery	AQ Limits		Soil Limits	
	LCL	UCL	LCL	UCL
1,2-Dichloroethane-d_4	75%	125%	75%	125%
4-Bromofluorobenzene	75%	125%	75%	125%
Toluene-d_8	75%	125%	75%	125%
Dibromofluoromethane	75%	125%	75%	125%

matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	percent recovery				duplicate and/or MSD	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
1,1-Dichloroethene	61%	145%	59%	172%	all target compounds	
Trichloroethene	71%	120%	62%	137%	20%	30%
Chlorobenzene	75%	130%	60%	133%		
Benzene	76%	127%	66%	142%		
Toluene	76%	125%	59%	139%		

Volatile Organics by Method 8021B

surrogate spike % recovery	AQ Limits		Soil Limits	
	LCL	UCL	LCL	UCL
4-Bromochlorobenzene	70%	110%	70%	120%
4-Bromofluorobenzene	70%	110%	70%	120%

matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	percent recovery				duplicate and/or MSD	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
1,1-Dichloroethene	70%	130%	70%	130%	all target compounds	
Trichloroethene	70%	130%	70%	130%	20%	30%
Chlorobenzene	70%	130%	70%	130%		
Benzene	70%	130%	70%	130%		
Toluene	70%	130%	70%	130%		
Ethylbenzene	70%	130%	70%	130%		

Semi-Volatile Organics by Method 8270C (includes PAHs)

surrogate spike % recovery	AQ Limits		Soil Limits	
	LCL	UCL	LCL	UCL
Nitrobenzene-d_5	23%	120%	23%	120%
Phenol-d_6	10%	120%	10%	120%
2-Fluorophenol	21%	120%	25%	120%
2-Fluorobiphenyl	43%	120%	30%	120%
p-Terphenyl-d_{14}	33%	120%	18%	120%
2,4,6-Tribromophenol	10%	120%	19%	120%

matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	percent recovery				duplicate and/or MSD	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
1,2,4-Trichlorobenzene	39%	98%	38%	107%	all target compounds	
Acenaphthene	46%	118%	31%	137%	40%	50%
2,4-Dinitrotoluene	24%	96%	28%	89%		
Pyrene	26%	127%	35%	142%		
N-Nitroso-di-n-propylamine	41%	116%	41%	126%		
1,4-Dichlorobenzene	36%	97%	28%	104%		
Pentachlorophenol	9%	103%	17%	109%		
Phenol	12%	110%	26%	90%		
2-Chlorophenol	27%	123%	25%	102%		
4-Chloro-3-methylphenol	23%	97%	26%	103%		
4-Nitrophenol	10%	80%	11%	114%		

Quality Control Acceptance Criteria

PCB/Pesticides by Method 8082/8081

surrogate spike % recovery	AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL		
2,4,5,6-Tetrachloro-m-xylene	40%	120%	40%	120%		
Decachlorobiphenyl	40%	120%	40%	120%		
matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	**percent recovery**				**duplicate and/or MSD**	
	AQ Limits LCL	**AQ Limits UCL**	**Soil Limits LCL**	**Soil Limits UCL**	**AQ Limits RPD**	**Soil Limits RPD**
Lindane	56%	123%	46%	127%	all target compounds	
Heptachlor	40%	131%	35%	130%	30%	50%
Aldrin	40%	120%	34%	132%		
Dieldrin	52%	126%	31%	134%		
Endrin	56%	121%	42%	139%		
4,4'-DDT	38%	127%	23%	134%		
Aroclor 1242/1016	40%	140%	40%	140%		
Aroclor 1260	40%	140%	40%	140%		

Volatile Petroleum Hydrocarbons (VPH) by MA DEP 98-1

surrogate spike % recovery	AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL		
2,5-Dibromotoluene	70%	130%	70%	130%		
laboratory control sample (LCS)	**percent recovery**				**duplicate**	
	AQ Limits LCL	**AQ Limits UCL**	**Soil Limits LCL**	**Soil Limits UCL**	**AQ Limits RPD**	**Soil Limits RPD**
all compounds	70%	130%	70%	130%	50%	50%

Extractable Petroleum Hydrocarbons (EPH) by MA DEP 98-1

surrogate spike % recovery	AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL		
Chloro-octadecane	40%	140%	40%	140%		
ortho-Terphenyl	40%	140%	40%	140%		
2-Fluorobiphenyl (fractionation)	40%	140%	40%	140%		
2-Bromonaphthalene (fractionation)	40%	140%	40%	140%		
laboratory control sample (LCS)	**percent recovery**				**duplicate**	
	AQ Limits LCL	**AQ Limits UCL**	**Soil Limits LCL**	**Soil Limits UCL**	**AQ Limits RPD**	**Soil Limits RPD**
all compounds	40%	140%	40%	140%	50%	50%

TPH (GC-FID) by Method 8100M

surrogate spike % recovery	AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL	duplicate AQ Limits RPD	duplicate Soil Limits RPD
ortho-Terphenyl	40%	140%	40%	140%	40%	40%

TPH by Method 418.1

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits LCL	**AQ Limits UCL**	**Soil Limits LCL**	**Soil Limits UCL**	**AQ Limits RPD**	**Soil Limits RPD**
TPH	60%	140%	60%	140%	40%	40%

Quality Control Acceptance Criteria

Trace Metals by Method 6010B/7000 series

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
target analyte	75%	125%	70%	140%	20%	35%

Mercury by Method 7470A/7471A

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
mercury	70%	130%	60%	140%	35%	45%

Total Cyanide by Method 9010B

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
cyanide	80%	120%	65%	135%	30%	40%

Total Phenol by Method 9065

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
phenol	70%	130%	65%	135%	20%	30%

HALEY & ALDRICH
Haley & Aldrich, Inc.
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Suite 2200,
Boston, MA 02129-1400

CHAIN OF CUSTODY RECORD

Phone (617) 886-7400
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H&A FILE NO. 06558-612
PROJECT NAME Former Malden MGP
H&A CONTACT SRP

LABORATORY Alpha
ADDRESS Westborough MA
CONTACT Pete Henrickson

DELIVERY DATE 2/20/02
TURNAROUND TIME Standard
PROJECT MANAGER BAW

Analysis Requested

Sample No.	Date	Time	Depth	Type	1 VOA	2 ABNs PAH only	3 Metals RCRA (8) PPL(13)	Pesticides PCBs	VPH Full Scan C-ranges only	EPH Full Scan C-ranges only	TPH (specify)	TCLP (specify)	Reactivity Ignitability Corrosivity	4			Number of Containers
02B-920-MW	2/20/02	1150	8-28	Soil	✓	✓	✓							✓			4
02B-920-MW	2/20/02	1500	14-16	Soil	✓	✓	✓							✓			4

Comments (special instructions, precautions, additional method numbers, etc.)

1 VOC 8260 High
2 PAH 8270
3 RCRA 8 Metals Total CN
4 Total Solids

Sampled and Relinquished by	Received by
Sign A. Shay	Sign [illegible]
Print S. SHAY	Print Kate Bayer Eva.
Firm Haley & Aldrich	Firm H&A
Date 2/20/02 Time 1545	Date 2/20/02 Time 15:45
Relinquished by	**Received by**
Sign [illegible]	Sign [illegible]
Print Kate Bayer Eva.	Print [illegible]
Firm H&A	Firm [illegible]
Date 2/20/02 Time 16:20	Date 2/20/02 Time 1620
Relinquished by	**Received by**
Sign [illegible]	Sign K. Bailes
Print	Print
Firm	Firm
Date Time	Date 2/20 Time 1745

	1	2	3							4			
LIQUID													
VOA Vial													
Amber Glass													
Plastic Bottle													
Preservative													
Volume													
SOLID													
VOA Vial	✓												
Amber Glass		✓	✓										
Clear Glass										✓			
Preservative	A6	A	A							A			
Volume	40	100	100							202			

Sampling Comments

Evidence samples were tampered with? YES NO
If YES, please explain in section below.

PRESERVATION KEY

A Sample chilled
B Sample filtered
C NaOH
D HNO_3
E H_2SO_4
F HCL
G Methanol
H Sodium Bisulfate

WHITE - Laboratory CANARY - Project Manager PINK - Haley & Aldrich Laboratory GOLDENROD - Haley & Aldrich Contact

ALPHA ANALYTICAL LABORATORIES

RECEIVED

0 6 2002

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65 NY:11148

CERTIFICATE OF ANALYSIS

Client: Haley & Aldrich, Inc.

Address: 465 Medford Street, Suite 2200
Boston, MA 02129-1400

Attn: Mr. Steve Provencal

Project Number: 06558-612

Site: FORMER MALDEN MGP

Laboratory Job Number: L0201843

Invoice Number: 60632

Date Received: 22-FEB-02

Date Reported: 01-MAR-02

Delivery Method: Alpha

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0201843-01	02B-920-MW/S9	
L0201843-02	02B-921-MW/S2	
L0201843-03	02B-921-MW/S7	
L0201843-04	02B-921-MW/S10	
L0201843-05	02B-922-MW/S2	
L0201843-06	02B-922-MW/S7	

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by: Scott McLean

Scott McLean - Technical Director
This document electronically signed

ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT

Laboratory Job Number: L0201843

Alpha Report L0201843:

It should be noted that no significant deviations were encountered during preparation or analysis of these samples unless noted below.

Total Metals

It should be noted that the matrix spike percent recovery for the analysis of Chromium associated with Alpha Samples L0201843-01 through -06 is outside the in-house acceptance criteria for the method. A post analytical spike was performed with an acceptable recovery of 99%.

Polynuclear Aromatic Hydrocarbons

Please note that one or more of the matrix spike duplicate percent recoveries, as well as one or more of the surrogate recoveries, associated with Alpha Sample L0201843-06, is below the acceptance criteria for the method due to a laboratory event. This causes the relative percent differences for the matrix spike/matrix spike duplicate to calculate above the acceptance criteria.

It should be noted that one or more of the matrix spike/matrix spike duplicate percent recoveries, as well as one or more of the associated relative percent differences, associated with Alpha Samples L0201843-01 through -05, is invalid because the sample concentration is greater than four times the spike amount added.

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0201843-01
02B-920-MW/S9
Sample Matrix: SOIL

Date Collected: 21-FEB-2002 08:00
Date Received : 22-FEB-2002
Date Reported : 01-MAR-2002

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic,1-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Solids, Total	78.	%	0.10	30	2540G		0223 15:50	NL
Cyanide, Total	0.86	mg/kg	0.17	1	9010B	0223 13:21	0225 13:21	ED
Total Metals				1	3051			
Arsenic, Total	3.9	mg/kg	0.50	1	6010B	0225 16:00	0227 03:10	RW
Barium, Total	46.	mg/kg	0.50	1	6010B	0225 16:00	0227 03:10	RW
Cadmium, Total	ND	mg/kg	0.50	1	6010B	0225 16:00	0227 20:50	RW
Chromium, Total	12.	mg/kg	0.50	1	6010B	0225 16:00	0227 03:10	RW
Lead, Total	3.0	mg/kg	2.5	1	6010B	0225 16:00	0227 03:10	RW
Mercury, Total	ND	mg/kg	0.10	1	7471A	0228 16:55	0301 10:43	DM
Selenium, Total	ND	mg/kg	1.0	1	6010B	0225 16:00	0227 03:10	RW
Silver, Total	ND	mg/kg	0.50	1	6010B	0225 16:00	0227 03:10	RW
Volatile Organics 8260 via High 5035				1	8260B		0228 22:34	BT
Methylene chloride	ND	ug/kg	900					
1,1-Dichloroethane	ND	ug/kg	130					
Chloroform	ND	ug/kg	130					
Carbon tetrachloride	ND	ug/kg	90.					
1,2-Dichloropropane	ND	ug/kg	310					
Dibromochloromethane	ND	ug/kg	90.					
1,1,2-Trichloroethane	ND	ug/kg	130					
Tetrachloroethene	ND	ug/kg	90.					
Chlorobenzene	ND	ug/kg	90.					
Trichlorofluoromethane	ND	ug/kg	450					
1,2-Dichloroethane	ND	ug/kg	90.					
1,1,1-Trichloroethane	ND	ug/kg	90.					
Bromodichloromethane	ND	ug/kg	90.					
trans-1,3-Dichloropropene	ND	ug/kg	90.					
cis-1,3-Dichloropropene	ND	ug/kg	90.					
1,1-Dichloropropene	ND	ug/kg	450					
Bromoform	ND	ug/kg	90.					
1,1,2,2-Tetrachloroethane	ND	ug/kg	90.					
Benzene	ND	ug/kg	90.					
Toluene	ND	ug/kg	130					
Ethylbenzene	ND	ug/kg	90.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0201843-01
02B-920-MW/S9

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics 8260 via High 5035 continued				1	8260B		0228 22:34	BT
Chloromethane	ND	ug/kg	450					
Bromomethane	ND	ug/kg	180					
Vinyl chloride	ND	ug/kg	180					
Chloroethane	ND	ug/kg	180					
1,1-Dichloroethene	ND	ug/kg	90.					
trans-1,2-Dichloroethene	ND	ug/kg	130					
Trichloroethene	ND	ug/kg	90.					
1,2-Dichlorobenzene	ND	ug/kg	450					
1,3-Dichlorobenzene	ND	ug/kg	450					
1,4-Dichlorobenzene	ND	ug/kg	450					
Methyl tert butyl ether	ND	ug/kg	180					
p/m-Xylene	ND	ug/kg	90.					
o-Xylene	ND	ug/kg	90.					
cis-1,2-Dichloroethene	ND	ug/kg	90.					
Dibromomethane	ND	ug/kg	900					
1,4-Dichlorobutane	ND	ug/kg	900					
Iodomethane	ND	ug/kg	900					
1,2,3-Trichloropropane	ND	ug/kg	900					
Styrene	ND	ug/kg	90.					
Dichlorodifluoromethane	ND	ug/kg	900					
Acetone	ND	ug/kg	900					
Carbon disulfide	ND	ug/kg	900					
2-Butanone	ND	ug/kg	900					
Vinyl acetate	ND	ug/kg	900					
4-Methyl-2-pentanone	ND	ug/kg	900					
2-Hexanone	ND	ug/kg	900					
Ethyl methacrylate	ND	ug/kg	900					
Acrolein	ND	ug/kg	2200					
Acrylonitrile	ND	ug/kg	900					
Bromochloromethane	ND	ug/kg	450					
Tetrahydrofuran	ND	ug/kg	1800					
2,2-Dichloropropane	ND	ug/kg	450					
1,2-Dibromoethane	ND	ug/kg	450					
1,3-Dichloropropane	ND	ug/kg	450					
1,1,1,2-Tetrachloroethane	ND	ug/kg	90.					
Bromobenzene	ND	ug/kg	450					
n-Butylbenzene	ND	ug/kg	90.					
sec-Butylbenzene	ND	ug/kg	90.					
tert-Butylbenzene	ND	ug/kg	450					
o-Chlorotoluene	ND	ug/kg	450					
p-Chlorotoluene	ND	ug/kg	450					
1,2-Dibromo-3-chloropropane	ND	ug/kg	450					
Hexachlorobutadiene	ND	ug/kg	450					
Isopropylbenzene	ND	ug/kg	90.					
p-Isopropyltoluene	ND	ug/kg	90.					
Naphthalene	ND	ug/kg	450					
n-Propylbenzene	ND	ug/kg	90.					
1,2,3-Trichlorobenzene	ND	ug/kg	450					
1,2,4-Trichlorobenzene	ND	ug/kg	450					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0201843-01
02B-920-MW/S9

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics 8260 via High 5035 continued				1	8260B		0228 22:34	BT
1,3,5-Trimethylbenzene	ND	ug/kg	450					
1,2,4-Trimethylbenzene	ND	ug/kg	450					
trans-1,4-Dichloro-2-butene	ND	ug/kg	450					
Ethyl ether	ND	ug/kg	450					
Surrogate Recovery								
1,2-Dichloroethane-d4	108.	%						
Toluene-d8	89.0	%						
4-Bromofluorobenzene	95.0	%						
Dibromofluoromethane	95.0	%						
PNA's by GC/MS 8270				1	8270C	0226 12:30	0228 22:08	HL
Acenaphthene	ND	ug/kg	640					
2-Chloronaphthalene	ND	ug/kg	770					
Fluoranthene	ND	ug/kg	640					
Naphthalene	ND	ug/kg	640					
Benzo(a)anthracene	ND	ug/kg	640					
Benzo(a)pyrene	ND	ug/kg	640					
Benzo(b)fluoranthene	ND	ug/kg	640					
Benzo(k)fluoranthene	ND	ug/kg	640					
Chrysene	ND	ug/kg	640					
Acenaphthylene	ND	ug/kg	640					
Anthracene	ND	ug/kg	640					
Benzo(ghi)perylene	ND	ug/kg	640					
Fluorene	ND	ug/kg	640					
Phenanthrene	ND	ug/kg	640					
Dibenzo(a,h)anthracene	ND	ug/kg	640					
Indeno(1,2,3-cd)pyrene	ND	ug/kg	900					
Pyrene	ND	ug/kg	640					
Benzo(e)pyrene	ND	ug/kg	640					
Biphenyl	ND	ug/kg	640					
Perylene	ND	ug/kg	640					
1-Methylnaphthalene	ND	ug/kg	640					
2-Methylnaphthalene	ND	ug/kg	1000					
Surrogate Recovery								
Nitrobenzene-d5	59.0	%						
2-Fluorobiphenyl	68.0	%						
4-Terphenyl-d14	62.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0201843-02
02B-921-MW/S2
Sample Matrix: SOIL

Date Collected: 21-FEB-2002 11:00
Date Received : 22-FEB-2002
Date Reported : 01-MAR-2002

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic,1-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Solids, Total	97.	%	0.10	30	2540G		0223 15:50	NL
Cyanide, Total	ND	mg/kg	0.17	1	9010B	0223 13:21	0225 13:24	ED
Total Metals				1	3051			
Arsenic, Total	11.	mg/kg	0.41	1	6010B	0225 16:00	0227 03:16	RW
Barium, Total	28.	mg/kg	0.41	1	6010B	0225 16:00	0227 03:16	RW
Cadmium, Total	ND	mg/kg	0.41	1	6010B	0225 16:00	0227 20:55	RW
Chromium, Total	20.	mg/kg	0.41	1	6010B	0225 16:00	0227 03:16	RW
Lead, Total	4.0	mg/kg	2.0	1	6010B	0225 16:00	0227 03:16	RW
Mercury, Total	ND	mg/kg	0.08	1	7471A	0228 16:55	0301 10:43	DM
Selenium, Total	ND	mg/kg	0.82	1	6010B	0225 16:00	0227 03:16	RW
Silver, Total	ND	mg/kg	0.41	1	6010B	0225 16:00	0227 03:16	RW
Volatile Organics 8260 via High 5035				1	8260B		0228 23:16	BT
Methylene chloride	ND	ug/kg	460					
1,1-Dichloroethane	ND	ug/kg	69.					
Chloroform	ND	ug/kg	69.					
Carbon tetrachloride	ND	ug/kg	46.					
1,2-Dichloropropane	ND	ug/kg	160					
Dibromochloromethane	ND	ug/kg	46.					
1,1,2-Trichloroethane	ND	ug/kg	69.					
Tetrachloroethene	ND	ug/kg	46.					
Chlorobenzene	ND	ug/kg	46.					
Trichlorofluoromethane	ND	ug/kg	230					
1,2-Dichloroethane	ND	ug/kg	46.					
1,1,1-Trichloroethane	ND	ug/kg	46.					
Bromodichloromethane	ND	ug/kg	46.					
trans-1,3-Dichloropropene	ND	ug/kg	46.					
cis-1,3-Dichloropropene	ND	ug/kg	46.					
1,1-Dichloropropene	ND	ug/kg	230					
Bromoform	ND	ug/kg	46.					
1,1,2,2-Tetrachloroethane	ND	ug/kg	46.					
Benzene	ND	ug/kg	46.					
Toluene	ND	ug/kg	69.					
Ethylbenzene	ND	ug/kg	46.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0201843-02
02B-921-MW/S2

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics 8260 via High 5035 continued				1 8260B		0220 23:16	BT
Chloromethane	ND	ug/kg	230				
Bromomethane	ND	ug/kg	92.				
Vinyl chloride	ND	ug/kg	92.				
Chloroethane	ND	ug/kg	92.				
1,1-Dichloroethene	ND	ug/kg	46.				
trans-1,2-Dichloroethene	ND	ug/kg	69.				
Trichloroethene	ND	ug/kg	46.				
1,2-Dichlorobenzene	ND	ug/kg	230				
1,3-Dichlorobenzene	ND	ug/kg	230				
1,4-Dichlorobenzene	ND	ug/kg	230				
Methyl tert butyl ether	ND	ug/kg	92.				
p/m-Xylene	ND	ug/kg	46.				
o-Xylene	ND	ug/kg	46.				
cis-1,2-Dichloroethene	ND	ug/kg	46.				
Dibromomethane	ND	ug/kg	460				
1,4-Dichlorobutane	ND	ug/kg	460				
Iodomethane	ND	ug/kg	460				
1,2,3-Trichloropropane	ND	ug/kg	460				
Styrene	ND	ug/kg	46.				
Dichlorodifluoromethane	ND	ug/kg	460				
Acetone	ND	ug/kg	460				
Carbon disulfide	ND	ug/kg	460				
2-Butanone	ND	ug/kg	460				
Vinyl acetate	ND	ug/kg	460				
4-Methyl-2-pentanone	ND	ug/kg	460				
2-Hexanone	ND	ug/kg	460				
Ethyl methacrylate	ND	ug/kg	460				
Acrolein	ND	ug/kg	1200				
Acrylonitrile	ND	ug/kg	460				
Bromochloromethane	ND	ug/kg	230				
Tetrahydrofuran	ND	ug/kg	920				
2,2-Dichloropropane	ND	ug/kg	230				
1,2-Dibromoethane	ND	ug/kg	230				
1,3-Dichloropropane	ND	ug/kg	230				
1,1,1,2-Tetrachloroethane	ND	ug/kg	46.				
Bromobenzene	ND	ug/kg	230				
n-Butylbenzene	ND	ug/kg	46.				
sec-Butylbenzene	ND	ug/kg	46.				
tert-Butylbenzene	ND	ug/kg	230				
o-Chlorotoluene	ND	ug/kg	230				
p-Chlorotoluene	ND	ug/kg	230				
1,2-Dibromo-3-chloropropane	ND	ug/kg	230				
Hexachlorobutadiene	ND	ug/kg	230				
Isopropylbenzene	ND	ug/kg	46.				
p-Isopropyltoluene	ND	ug/kg	46.				
Naphthalene	ND	ug/kg	230				
n-Propylbenzene	ND	ug/kg	46.				
1,2,3-Trichlorobenzene	ND	ug/kg	230				
1,2,4-Trichlorobenzene	ND	ug/kg	230				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0201843-02
02B-921-MW/S2

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics 8260 via High 5035 continued				1	8260B		0228 23:16	BT
1,3,5-Trimethylbenzene	ND	ug/kg	230					
1,2,4-Trimethylbenzene	ND	ug/kg	230					
trans-1,4-Dichloro-2-butene	ND	ug/kg	230					
Ethyl ether	ND	ug/kg	230					
Surrogate Recovery								
1,2-Dichloroethane-d4	117.	%						
Toluene-d8	92.0	%						
4-Bromofluorobenzene	95.0	%						
Dibromofluoromethane	101.	%						
PNA's by GC/MS 8270				1	8270C	0226 12:30	0228 22:49	HL
Acenaphthene	ND	ug/kg	520					
2-Chloronaphthalene	ND	ug/kg	620					
Fluoranthene	ND	ug/kg	520					
Naphthalene	ND	ug/kg	520					
Benzo(a)anthracene	ND	ug/kg	520					
Benzo(a)pyrene	ND	ug/kg	520					
Benzo(b)fluoranthene	ND	ug/kg	520					
Benzo(k)fluoranthene	ND	ug/kg	520					
Chrysene	ND	ug/kg	520					
Acenaphthylene	ND	ug/kg	520					
Anthracene	ND	ug/kg	520					
Benzo(ghi)perylene	ND	ug/kg	520					
Fluorene	ND	ug/kg	520					
Phenanthrene	ND	ug/kg	520					
Dibenzo(a,h)anthracene	ND	ug/kg	520					
Indeno(1,2,3-cd)pyrene	ND	ug/kg	720					
Pyrene	ND	ug/kg	520					
Benzo(e)pyrene	ND	ug/kg	520					
Biphenyl	ND	ug/kg	520					
Perylene	ND	ug/kg	520					
1-Methylnaphthalene	ND	ug/kg	520					
2-Methylnaphthalene	ND	ug/kg	820					
Surrogate Recovery								
Nitrobenzene-d5	79.0	%						
2-Fluorobiphenyl	87.0	%						
4-Terphenyl-d14	82.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0201843-03
02B-921-MW/S7
Sample Matrix: SOIL

Date Collected: 21-FEB-2002 13:30
Date Received : 22-FEB-2002
Date Reported : 01-MAR-2002

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic,1-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Solids, Total	79.	%	0.10	30	2540G		0223 15:50	NL
Cyanide, Total	1.1	mg/kg	0.16	1	9010B	0223 13:21	0225 13:25	ED
Total Metals				1	3051			
Arsenic, Total	1.1	mg/kg	0.50	1	6010B	0225 16:00	0227 03:22	RW
Barium, Total	6.7	mg/kg	0.50	1	6010B	0225 16:00	0227 03:22	RW
Cadmium, Total	ND	mg/kg	0.50	1	6010B	0225 16:00	0227 21:00	RW
Chromium, Total	7.1	mg/kg	0.50	1	6010B	0225 16:00	0227 03:22	RW
Lead, Total	ND	mg/kg	2.5	1	6010B	0225 16:00	0227 03:22	RW
Mercury, Total	ND	mg/kg	0.10	1	7471A	0228 16:55	0301 10:43	DM
Selenium, Total	ND	mg/kg	1.0	1	6010B	0225 16:00	0227 03:22	RW
Silver, Total	ND	mg/kg	0.50	1	6010B	0225 16:00	0227 03:22	RW
Volatile Organics 8260 via High 5035				1	8260B		0228 23:59	BT
Methylene chloride	ND	ug/kg	790					
1,1-Dichloroethane	ND	ug/kg	120					
Chloroform	ND	ug/kg	120					
Carbon tetrachloride	ND	ug/kg	79.					
1,2-Dichloropropane	ND	ug/kg	280					
Dibromochloromethane	ND	ug/kg	79.					
1,1,2-Trichloroethane	ND	ug/kg	120					
Tetrachloroethene	ND	ug/kg	79.					
Chlorobenzene	ND	ug/kg	79.					
Trichlorofluoromethane	ND	ug/kg	400					
1,2-Dichloroethane	ND	ug/kg	79.					
1,1,1-Trichloroethane	ND	ug/kg	79.					
Bromodichloromethane	ND	ug/kg	79.					
trans-1,3-Dichloropropene	ND	ug/kg	79.					
cis-1,3-Dichloropropene	ND	ug/kg	79.					
1,1-Dichloropropene	ND	ug/kg	400					
Bromoform	ND	ug/kg	79.					
1,1,2,2-Tetrachloroethane	ND	ug/kg	79.					
Benzene	ND	ug/kg	79.					
Toluene	ND	ug/kg	120					
Ethylbenzene	ND	ug/kg	79.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0201843-03
02B-921-MW/S7

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics 8260 via High 5035 continued				1	8260B		0228 23:59	BT
Chloromethane	ND	ug/kg	400					
Bromomethane	ND	ug/kg	160					
Vinyl chloride	ND	ug/kg	160					
Chloroethane	ND	ug/kg	160					
1,1-Dichloroethene	ND	ug/kg	79.					
trans-1,2-Dichloroethene	ND	ug/kg	120					
Trichloroethene	ND	ug/kg	79.					
1,2-Dichlorobenzene	ND	ug/kg	400					
1,3-Dichlorobenzene	ND	ug/kg	400					
1,4-Dichlorobenzene	ND	ug/kg	400					
Methyl tert butyl ether	ND	ug/kg	160					
p/m-Xylene	ND	ug/kg	79.					
o-Xylene	ND	ug/kg	79.					
cis-1,2-Dichloroethene	ND	ug/kg	79.					
Dibromomethane	ND	ug/kg	790					
1,4-Dichlorobutane	ND	ug/kg	790					
Iodomethane	ND	ug/kg	790					
1,2,3-Trichloropropane	ND	ug/kg	790					
Styrene	ND	ug/kg	79.					
Dichlorodifluoromethane	ND	ug/kg	790					
Acetone	ND	ug/kg	790					
Carbon disulfide	ND	ug/kg	790					
2-Butanone	ND	ug/kg	790					
Vinyl acetate	ND	ug/kg	790					
4-Methyl-2-pentanone	ND	ug/kg	790					
2-Hexanone	ND	ug/kg	790					
Ethyl methacrylate	ND	ug/kg	790					
Acrolein	ND	ug/kg	2000					
Acrylonitrile	ND	ug/kg	790					
Bromochloromethane	ND	ug/kg	400					
Tetrahydrofuran	ND	ug/kg	1600					
2,2-Dichloropropane	ND	ug/kg	400					
1,2-Dibromoethane	ND	ug/kg	400					
1,3-Dichloropropane	ND	ug/kg	400					
1,1,1,2-Tetrachloroethane	ND	ug/kg	79.					
Bromobenzene	ND	ug/kg	400					
n-Butylbenzene	ND	ug/kg	79.					
sec-Butylbenzene	ND	ug/kg	79.					
tert-Butylbenzene	ND	ug/kg	400					
o-Chlorotoluene	ND	ug/kg	400					
p-Chlorotoluene	ND	ug/kg	400					
1,2-Dibromo-3-chloropropane	ND	ug/kg	400					
Hexachlorobutadiene	ND	ug/kg	400					
Isopropylbenzene	ND	ug/kg	79.					
p-Isopropyltoluene	ND	ug/kg	79.					
Naphthalene	ND	ug/kg	400					
n-Propylbenzene	ND	ug/kg	79.					
1,2,3-Trichlorobenzene	ND	ug/kg	400					
1,2,4-Trichlorobenzene	ND	ug/kg	400					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0201843-03
02B-921-MW/S7

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics 8260 via High 5035 continued				1	8260B		0228 22:59	BT
1,3,5-Trimethylbenzene	ND	ug/kg	400					
1,2,4-Trimethylbenzene	ND	ug/kg	400					
trans-1,4-Dichloro-2-butene	ND	ug/kg	400					
Ethyl ether	ND	ug/kg	400					
Surrogate Recovery								
1,2-Dichloroethane-d4	109.	%						
Toluene-d8	89.0	%						
4-Bromofluorobenzene	89.0	%						
Dibromofluoromethane	95.0	%						
PNA's by GC/MS 8270				1	8270C	0226 12:30	0301 03:44	HL
Acenaphthene	ND	ug/kg	630					
2-Chloronaphthalene	ND	ug/kg	760					
Fluoranthene	ND	ug/kg	630					
Naphthalene	ND	ug/kg	630					
Benzo(a)anthracene	ND	ug/kg	630					
Benzo(a)pyrene	ND	ug/kg	630					
Benzo(b)fluoranthene	ND	ug/kg	630					
Benzo(k)fluoranthene	ND	ug/kg	630					
Chrysene	ND	ug/kg	630					
Acenaphthylene	ND	ug/kg	630					
Anthracene	ND	ug/kg	630					
Benzo(ghi)perylene	ND	ug/kg	630					
Fluorene	ND	ug/kg	630					
Phenanthrene	ND	ug/kg	630					
Dibenzo(a,h)anthracene	ND	ug/kg	630					
Indeno(1,2,3-cd)pyrene	ND	ug/kg	890					
Pyrene	ND	ug/kg	630					
Benzo(e)pyrene	ND	ug/kg	630					
Biphenyl	ND	ug/kg	630					
Perylene	ND	ug/kg	630					
1-Methylnaphthalene	ND	ug/kg	630					
2-Methylnaphthalene	ND	ug/kg	1000					
Surrogate Recovery								
Nitrobenzene-d5	76.0	%						
2-Fluorobiphenyl	85.0	%						
4-Terphenyl-d14	78.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0201843-04
02B-921-MW/S10
Sample Matrix: SOIL

Date Collected: 21-FEB-2002 14:40
Date Received : 22-FEB-2002
Date Reported : 01-MAR-2002

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic,1-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Solids, Total	81.	%	0.10	30	2540G		0223 15:50	NL
Cyanide, Total	0.46	mg/kg	0.23	1	9010B	0223 13:21	0225 13:26	ED
Total Metals				1	3051			
Arsenic, Total	2.7	mg/kg	0.48	1	6010B	0225 16:00	0227 03:29	RW
Barium, Total	26.	mg/kg	0.48	1	6010B	0225 16:00	0227 03:29	RW
Cadmium, Total	ND	mg/kg	0.48	1	6010B	0225 16:00	0227 21:18	RW
Chromium, Total	14.	mg/kg	0.48	1	6010B	0225 16:00	0227 03:29	RW
Lead, Total	2.6	mg/kg	2.4	1	6010B	0225 16:00	0227 03:29	RW
Mercury, Total	ND	mg/kg	0.10	1	7471A	0228 16:55	0301 10:43	DM
Selenium, Total	ND	mg/kg	0.97	1	6010B	0225 16:00	0227 03:29	RW
Silver, Total	ND	mg/kg	0.48	1	6010B	0225 16:00	0227 03:29	RW
Volatile Organics 8260 via High 5035				1	8260B		0301 00:41	BT
Methylene chloride	ND	ug/kg	830					
1,1-Dichloroethane	ND	ug/kg	120					
Chloroform	ND	ug/kg	120					
Carbon tetrachloride	ND	ug/kg	83.					
1,2-Dichloropropane	ND	ug/kg	290					
Dibromochloromethane	ND	ug/kg	83.					
1,1,2-Trichloroethane	ND	ug/kg	120					
Tetrachloroethene	ND	ug/kg	83.					
Chlorobenzene	ND	ug/kg	83.					
Trichlorofluoromethane	ND	ug/kg	410					
1,2-Dichloroethane	ND	ug/kg	83.					
1,1,1-Trichloroethane	ND	ug/kg	83.					
Bromodichloromethane	ND	ug/kg	83.					
trans-1,3-Dichloropropene	ND	ug/kg	83.					
cis-1,3-Dichloropropene	ND	ug/kg	83.					
1,1-Dichloropropene	ND	ug/kg	410					
Bromoform	ND	ug/kg	83.					
1,1,2,2-Tetrachloroethane	ND	ug/kg	83.					
Benzene	ND	ug/kg	83.					
Toluene	ND	ug/kg	120					
Ethylbenzene	ND	ug/kg	83.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0201843-04
02B-921-MW/S10

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics 8260 via High 5035 continued				1	8260B		030 00:41	BT
Chloromethane	ND	ug/kg	410					
Bromomethane	ND	ug/kg	160					
Vinyl chloride	ND	ug/kg	160					
Chloroethane	ND	ug/kg	160					
1,1-Dichloroethene	ND	ug/kg	83.					
trans-1,2-Dichloroethene	ND	ug/kg	120					
Trichloroethene	ND	ug/kg	83.					
1,2-Dichlorobenzene	ND	ug/kg	410					
1,3-Dichlorobenzene	ND	ug/kg	410					
1,4-Dichlorobenzene	ND	ug/kg	410					
Methyl tert butyl ether	ND	ug/kg	160					
p/m-Xylene	ND	ug/kg	83.					
o-Xylene	ND	ug/kg	83.					
cis-1,2-Dichloroethene	ND	ug/kg	83.					
Dibromomethane	ND	ug/kg	830					
1,4-Dichlorobutane	ND	ug/kg	830					
Iodomethane	ND	ug/kg	830					
1,2,3-Trichloropropane	ND	ug/kg	830					
Styrene	ND	ug/kg	83.					
Dichlorodifluoromethane	ND	ug/kg	830					
Acetone	ND	ug/kg	830					
Carbon disulfide	ND	ug/kg	830					
2-Butanone	ND	ug/kg	830					
Vinyl acetate	ND	ug/kg	830					
4-Methyl-2-pentanone	ND	ug/kg	830					
2-Hexanone	ND	ug/kg	830					
Ethyl methacrylate	ND	ug/kg	830					
Acrolein	ND	ug/kg	2100					
Acrylonitrile	ND	ug/kg	830					
Bromochloromethane	ND	ug/kg	410					
Tetrahydrofuran	ND	ug/kg	1600					
2,2-Dichloropropane	ND	ug/kg	410					
1,2-Dibromoethane	ND	ug/kg	410					
1,3-Dichloropropane	ND	ug/kg	410					
1,1,1,2-Tetrachloroethane	ND	ug/kg	83.					
Bromobenzene	ND	ug/kg	410					
n-Butylbenzene	ND	ug/kg	83.					
sec-Butylbenzene	ND	ug/kg	83.					
tert-Butylbenzene	ND	ug/kg	410					
o-Chlorotoluene	ND	ug/kg	410					
p-Chlorotoluene	ND	ug/kg	410					
1,2-Dibromo-3-chloropropane	ND	ug/kg	410					
Hexachlorobutadiene	ND	ug/kg	410					
Isopropylbenzene	ND	ug/kg	83.					
p-Isopropyltoluene	ND	ug/kg	83.					
Naphthalene	ND	ug/kg	410					
n-Propylbenzene	ND	ug/kg	83.					
1,2,3-Trichlorobenzene	ND	ug/kg	410					
1,2,4-Trichlorobenzene	ND	ug/kg	410					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0201843-04
02B-921-MW/S10

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics 8260 via High 5035 continued				1	8260B		0301 00:41	BT
1,3,5-Trimethylbenzene	ND	ug/kg	410					
1,2,4-Trimethylbenzene	ND	ug/kg	410					
trans-1,4-Dichloro-2-butene	ND	ug/kg	410					
Ethyl ether	ND	ug/kg	410					
Surrogate Recovery								
1,2-Dichloroethane-d4	114.	%						
Toluene-d8	92.0	%						
4-Bromofluorobenzene	99.0	%						
Dibromofluoromethane	101.	%						
PNA's by GC/MS 8270				1	8270C	0226 12:30	0301 01:25	NL
Acenaphthene	ND	ug/kg	620					
2-Chloronaphthalene	ND	ug/kg	740					
Fluoranthene	ND	ug/kg	620					
Naphthalene	ND	ug/kg	620					
Benzo(a)anthracene	ND	ug/kg	620					
Benzo(a)pyrene	ND	ug/kg	620					
Benzo(b)fluoranthene	ND	ug/kg	620					
Benzo(k)fluoranthene	ND	ug/kg	620					
Chrysene	ND	ug/kg	620					
Acenaphthylene	ND	ug/kg	620					
Anthracene	ND	ug/kg	620					
Benzo(ghi)perylene	ND	ug/kg	620					
Fluorene	ND	ug/kg	620					
Phenanthrene	ND	ug/kg	620					
Dibenzo(a,h)anthracene	ND	ug/kg	620					
Indeno(1,2,3-cd)pyrene	ND	ug/kg	860					
Pyrene	ND	ug/kg	620					
Benzo(e)pyrene	ND	ug/kg	620					
Biphenyl	ND	ug/kg	620					
Perylene	ND	ug/kg	620					
1-Methylnaphthalene	ND	ug/kg	620					
2-Methylnaphthalene	ND	ug/kg	990					
Surrogate Recovery								
Nitrobenzene-d5	78.0	%						
2-Fluorobiphenyl	86.0	%						
4-Terphenyl-d14	84.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0201843-05
02B-922-MW/S2
Sample Matrix: SOIL

Date Collected: 21-FEB-2002 17:30
Date Received : 22-FEB-2002
Date Reported : 01-MAR-2002

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic,1-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Solids, Total	82.	%	0.10	30	2540G		0223 15:50	NL
Cyanide, Total	30.	mg/kg	1.5	1	9010B	0223 13:21	0225 13:48	ED
Total Metals				1	3051			
Arsenic, Total	44.	mg/kg	0.48	1	6010B	0225 16:00	0227 03:35	RW
Barium, Total	84.	mg/kg	0.48	1	6010B	0225 16:00	0227 03:35	RW
Cadmium, Total	0.77	mg/kg	0.48	1	6010B	0225 16:00	0227 21:23	RW
Chromium, Total	16.	mg/kg	0.48	1	6010B	0225 16:00	0227 03:35	RW
Lead, Total	81.	mg/kg	2.4	1	6010B	0225 16:00	0227 03:35	RW
Mercury, Total	ND	mg/kg	0.10	1	7471A	0228 16:55	0301 10:43	DM
Selenium, Total	1.5	mg/kg	0.96	1	6010B	0225 16:00	0227 03:35	RW
Silver, Total	ND	mg/kg	0.48	1	6010B	0225 16:00	0227 03:35	RW
Volatile Organics 8260 via High 5035				1	8260B		0301 01:24	BT
Methylene chloride	ND	ug/kg	700					
1,1-Dichloroethane	ND	ug/kg	100					
Chloroform	ND	ug/kg	100					
Carbon tetrachloride	ND	ug/kg	70.					
1,2-Dichloropropane	ND	ug/kg	250					
Dibromochloromethane	ND	ug/kg	70.					
1,1,2-Trichloroethane	ND	ug/kg	100					
Tetrachloroethene	ND	ug/kg	70.					
Chlorobenzene	ND	ug/kg	70.					
Trichlorofluoromethane	ND	ug/kg	350					
1,2-Dichloroethane	ND	ug/kg	70.					
1,1,1-Trichloroethane	ND	ug/kg	70.					
Bromodichloromethane	ND	ug/kg	70.					
trans-1,3-Dichloropropene	ND	ug/kg	70.					
cis-1,3-Dichloropropene	ND	ug/kg	70.					
1,1-Dichloropropene	ND	ug/kg	350					
Bromoform	ND	ug/kg	70.					
1,1,2,2-Tetrachloroethane	ND	ug/kg	70.					
Benzene	5600	ug/kg	70.					
Toluene	430	ug/kg	100					
Ethylbenzene	4700	ug/kg	70.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0201843-05
02B-922-MW/S2

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics 8260 via High 5035 continued				1	8260B		0301 01:24	BT
Chloromethane	ND	ug/kg	350					
Bromomethane	ND	ug/kg	140					
Vinyl chloride	ND	ug/kg	140					
Chloroethane	ND	ug/kg	140					
1,1-Dichloroethene	ND	ug/kg	70.					
trans-1,2-Dichloroethene	ND	ug/kg	100					
Trichloroethene	ND	ug/kg	70.					
1,2-Dichlorobenzene	ND	ug/kg	350					
1,3-Dichlorobenzene	ND	ug/kg	350					
1,4-Dichlorobenzene	ND	ug/kg	350					
Methyl tert butyl ether	ND	ug/kg	140					
p/m-Xylene	280	ug/kg	70.					
o-Xylene	120	ug/kg	70.					
cis-1,2-Dichloroethene	ND	ug/kg	70.					
Dibromomethane	ND	ug/kg	700					
1,4-Dichlorobutane	ND	ug/kg	700					
Iodomethane	ND	ug/kg	700					
1,2,3-Trichloropropane	ND	ug/kg	700					
Styrene	ND	ug/kg	70.					
Dichlorodifluoromethane	ND	ug/kg	700					
Acetone	ND	ug/kg	700					
Carbon disulfide	ND	ug/kg	700					
2-Butanone	ND	ug/kg	700					
Vinyl acetate	ND	ug/kg	700					
4-Methyl-2-pentanone	ND	ug/kg	700					
2-Hexanone	ND	ug/kg	700					
Ethyl methacrylate	ND	ug/kg	700					
Acrolein	ND	ug/kg	1800					
Acrylonitrile	ND	ug/kg	700					
Bromochloromethane	ND	ug/kg	350					
Tetrahydrofuran	ND	ug/kg	1400					
2,2-Dichloropropane	ND	ug/kg	350					
1,2-Dibromoethane	ND	ug/kg	350					
1,3-Dichloropropane	ND	ug/kg	350					
1,1,1,2-Tetrachloroethane	ND	ug/kg	70.					
Bromobenzene	ND	ug/kg	350					
n-Butylbenzene	ND	ug/kg	70.					
sec-Butylbenzene	ND	ug/kg	70.					
tert-Butylbenzene	ND	ug/kg	350					
o-Chlorotoluene	ND	ug/kg	350					
p-Chlorotoluene	ND	ug/kg	350					
1,2-Dibromo-3-chloropropane	ND	ug/kg	350					
Hexachlorobutadiene	ND	ug/kg	350					
Isopropylbenzene	ND	ug/kg	70.					
p-Isopropyltoluene	ND	ug/kg	70.					
Naphthalene	1000	ug/kg	350					
n-Propylbenzene	ND	ug/kg	70.					
1,2,3-Trichlorobenzene	ND	ug/kg	350					
1,2,4-Trichlorobenzene	ND	ug/kg	350					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0201843-05
02B-922-MW/S2

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics 8260 via High 5035 continued				1	8260B		0301 01:24	BT
1,3,5-Trimethylbenzene	ND	ug/kg	350					
1,2,4-Trimethylbenzene	ND	ug/kg	350					
trans-1,4-Dichloro-2-butene	ND	ug/kg	350					
Ethyl ether	ND	ug/kg	350					
Surrogate Recovery								
1,2-Dichloroethane-d4	109.	%						
Toluene-d8	93.0	%						
4-Bromofluorobenzene	93.0	%						
Dibromofluoromethane	93.0	%						
PNA's by GC/MS 8270				1	8270C	0226 12:30	0228 01:26	HL
Acenaphthene	ND	ug/kg	12000					
2-Chloronaphthalene	ND	ug/kg	15000					
Fluoranthene	32000	ug/kg	12000					
Naphthalene	ND	ug/kg	12000					
Benzo(a)anthracene	25000	ug/kg	12000					
Benzo(a)pyrene	67000	ug/kg	12000					
Benzo(b)fluoranthene	58000	ug/kg	12000					
Benzo(k)fluoranthene	50000	ug/kg	12000					
Chrysene	30000	ug/kg	12000					
Acenaphthylene	ND	ug/kg	12000					
Anthracene	ND	ug/kg	12000					
Benzo(ghi)perylene	50000	ug/kg	12000					
Fluorene	ND	ug/kg	12000					
Phenanthrene	ND	ug/kg	12000					
Dibenzo(a,h)anthracene	ND	ug/kg	12000					
Indeno(1,2,3-cd)pyrene	50000	ug/kg	17000					
Pyrene	48000	ug/kg	12000					
Benzo(e)pyrene	48000	ug/kg	12000					
Biphenyl	ND	ug/kg	12000					
Perylene	22000	ug/kg	12000					
1-Methylnaphthalene	ND	ug/kg	12000					
2-Methylnaphthalene	ND	ug/kg	20000					
Surrogate Recovery								
Nitrobenzene-d5	79.0	%						
2-Fluorobiphenyl	89.0	%						
4-Terphenyl-d14	79.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0201843-06
02B-922-MW/S7
Sample Matrix: SOIL

Date Collected: 21-FEB-2002 18:00
Date Received : 22-FEB-2002
Date Reported : 01-MAR-2002

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic,1-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Solids, Total	80.	%	0.10	30	2540G		0223 15:50	NL
Cyanide, Total	6.2	mg/kg	0.26	1	9010B	0223 13:21	0225 13:49	ED
Total Metals				1	3051			
Arsenic, Total	1.3	mg/kg	0.49	1	6010B	0225 16:00	0227 03:41	RW
Barium, Total	7.7	mg/kg	0.49	1	6010B	0225 16:00	0227 03:41	RW
Cadmium, Total	ND	mg/kg	0.49	1	6010B	0225 16:00	0227 21:28	RW
Chromium, Total	7.8	mg/kg	0.49	1	6010B	0225 16:00	0227 03:41	RW
Lead, Total	5.1	mg/kg	2.4	1	6010B	0225 16:00	0227 03:41	RW
Mercury, Total	ND	mg/kg	0.09	1	7471A	0228 16:55	0301 10:43	DM
Selenium, Total	ND	mg/kg	0.98	1	6010B	0225 16:00	0227 03:41	RW
Silver, Total	ND	mg/kg	0.49	1	6010B	0225 16:00	0227 03:41	RW
Volatile Organics 8260 via High 5035				1	8260B		0301 02:06	BT
Methylene chloride	ND	ug/kg	7900					
1,1-Dichloroethane	ND	ug/kg	1200					
Chloroform	ND	ug/kg	1200					
Carbon tetrachloride	ND	ug/kg	790					
1,2-Dichloropropane	ND	ug/kg	2800					
Dibromochloromethane	ND	ug/kg	790					
1,1,2-Trichloroethane	ND	ug/kg	1200					
Tetrachloroethene	ND	ug/kg	790					
Chlorobenzene	ND	ug/kg	790					
Trichlorofluoromethane	ND	ug/kg	4000					
1,2-Dichloroethane	ND	ug/kg	790					
1,1,1-Trichloroethane	ND	ug/kg	790					
Bromodichloromethane	ND	ug/kg	790					
trans-1,3-Dichloropropene	ND	ug/kg	790					
cis-1,3-Dichloropropene	ND	ug/kg	790					
1,1-Dichloropropene	ND	ug/kg	4000					
Bromoform	ND	ug/kg	790					
1,1,2,2-Tetrachloroethane	ND	ug/kg	790					
Benzene	2700	ug/kg	790					
Toluene	67000	ug/kg	1200					
Ethylbenzene	21000	ug/kg	790					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0201843-06
02B-922-MW/S7

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics 8260 via High 5035 continued				1 8260B		0301 02:06	BT
Chloromethane	ND	ug/kg	4000				
Bromomethane	ND	ug/kg	1600				
Vinyl chloride	ND	ug/kg	1600				
Chloroethane	ND	ug/kg	1600				
1,1-Dichloroethene	ND	ug/kg	790				
trans-1,2-Dichloroethene	ND	ug/kg	1200				
Trichloroethene	ND	ug/kg	790				
1,2-Dichlorobenzene	ND	ug/kg	4000				
1,3-Dichlorobenzene	ND	ug/kg	4000				
1,4-Dichlorobenzene	ND	ug/kg	4000				
Methyl tert butyl ether	ND	ug/kg	1600				
p/m-Xylene	42000	ug/kg	790				
o-Xylene	12000	ug/kg	790				
cis-1,2-Dichloroethene	ND	ug/kg	790				
Dibromomethane	ND	ug/kg	7900				
1,4-Dichlorobutane	ND	ug/kg	7900				
Iodomethane	ND	ug/kg	7900				
1,2,3-Trichloropropane	ND	ug/kg	7900				
Styrene	29000	ug/kg	790				
Dichlorodifluoromethane	ND	ug/kg	7900				
Acetone	ND	ug/kg	7900				
Carbon disulfide	ND	ug/kg	7900				
2-Butanone	ND	ug/kg	7900				
Vinyl acetate	ND	ug/kg	7900				
4-Methyl-2-pentanone	ND	ug/kg	7900				
2-Hexanone	ND	ug/kg	7900				
Ethyl methacrylate	ND	ug/kg	7900				
Acrolein	ND	ug/kg	20000				
Acrylonitrile	ND	ug/kg	7900				
Bromochloromethane	ND	ug/kg	4000				
Tetrahydrofuran	ND	ug/kg	16000				
2,2-Dichloropropane	ND	ug/kg	4000				
1,2-Dibromoethane	ND	ug/kg	4000				
1,3-Dichloropropane	ND	ug/kg	4000				
1,1,1,2-Tetrachloroethane	ND	ug/kg	790				
Bromobenzene	ND	ug/kg	4000				
n-Butylbenzene	ND	ug/kg	790				
sec-Butylbenzene	ND	ug/kg	790				
tert-Butylbenzene	ND	ug/kg	4000				
o-Chlorotoluene	ND	ug/kg	4000				
p-Chlorotoluene	ND	ug/kg	4000				
1,2-Dibromo-3-chloropropane	ND	ug/kg	4000				
Hexachlorobutadiene	ND	ug/kg	4000				
Isopropylbenzene	ND	ug/kg	790				
p-Isopropyltoluene	ND	ug/kg	790				
Naphthalene	52000	ug/kg	4000				
n-Propylbenzene	ND	ug/kg	790				
1,2,3-Trichlorobenzene	ND	ug/kg	4000				
1,2,4-Trichlorobenzene	ND	ug/kg	4000				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0201843-06
02B-922-MW/S7

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics 8260 via High 5035 continued				1	8260B		0301 02:06	BT
1,3,5-Trimethylbenzene	ND	ug/kg	4000					
1,2,4-Trimethylbenzene	5500	ug/kg	4000					
trans-1,4-Dichloro-2-butene	ND	ug/kg	4000					
Ethyl ether	ND	ug/kg	4000					
Surrogate Recovery								
1,2-Dichloroethane-d4	114.	%						
Toluene-d8	93.0	%						
4-Bromofluorobenzene	90.0	%						
Dibromofluoromethane	99.0	%						
PNA's by GC/MS 8270				1	8270C	0226 17:50	0228 18:40	HL
Acenaphthene	ND	ug/kg	3100					
2-Chloronaphthalene	ND	ug/kg	3800					
Fluoranthene	ND	ug/kg	3100					
Naphthalene	8200	ug/kg	3100					
Benzo(a)anthracene	ND	ug/kg	3100					
Benzo(a)pyrene	ND	ug/kg	3100					
Benzo(b)fluoranthene	ND	ug/kg	3100					
Benzo(k)fluoranthene	ND	ug/kg	3100					
Chrysene	ND	ug/kg	3100					
Acenaphthylene	ND	ug/kg	3100					
Anthracene	ND	ug/kg	3100					
Benzo(ghi)perylene	ND	ug/kg	3100					
Fluorene	ND	ug/kg	3100					
Phenanthrene	ND	ug/kg	3100					
Dibenzo(a,h)anthracene	ND	ug/kg	3100					
Indeno(1,2,3-cd)pyrene	ND	ug/kg	4400					
Pyrene	ND	ug/kg	3100					
Benzo(e)pyrene	ND	ug/kg	3100					
Biphenyl	ND	ug/kg	3100					
Perylene	ND	ug/kg	3100					
1-Methylnaphthalene	5500	ug/kg	3100					
2-Methylnaphthalene	8000	ug/kg	5000					
Surrogate Recovery								
Nitrobenzene-d5	81.0	%						
2-Fluorobiphenyl	90.0	%						
4-Terphenyl-d14	84.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0201843

Parameter	Value 1	Value 2	RPD	Units
Solids, Total for sample(s) 01-06 (L0201843-01, WG106056)				
Solids, Total	78.	80.	3	%
Cyanide, Total for sample(s) 01-06 (L0201842-01, WG106049)				
Cyanide, Total	2.0	2.2	10	mg/kg
Total Metals for sample(s) 01-06 (L0201812-04, WG106191)				
Arsenic, Total	6.3	5.9	7	mg/kg
Barium, Total	95.	97.	2	mg/kg
Cadmium, Total	ND	ND	NC	mg/kg
Chromium, Total	46.	48.	4	mg/kg
Lead, Total	11.	10.	10	mg/kg
Selenium, Total	ND	ND	NC	mg/kg
Silver, Total	ND	ND	NC	mg/kg
Total Metals for sample(s) 01-06 (L0201834-02, WG106489)				
Mercury, Total	ND	ND	NC	mg/kg

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0201843

Parameter	% Recovery
Cyanide, Total LCS for sample(s) 01-06 (WG106049)	
Cyanide, Total	98
Total Metals LCS for sample(s) 01-06 (WG106191)	
Arsenic, Total	100
Barium, Total	95
Cadmium, Total	103
Chromium, Total	98
Lead, Total	98
Selenium, Total	108
Silver, Total	108
Total Metals LCS for sample(s) 01-06 (WG106489)	
Mercury, Total	112
Volatile Organics 8260 via High 5035 LCS for sample(s) 01-06 (WG106549)	
Chlorobenzene	96
Benzene	106
Toluene	99
1,1-Dichloroethene	110
Trichloroethene	106
Surrogate Recovery	
1,2-Dichloroethane-d4	107
Toluene-d8	91
4-Bromofluorobenzene	93
Dibromofluoromethane	106
PNA's by GC/MS 8270 LCS for sample(s) 01-05 (WG106307)	
Acenaphthene	83
2-Chloronaphthalene	81
Fluoranthene	87
Anthracene	82
Pyrene	89
Surrogate Recovery	
Nitrobenzene-d5	76
2-Fluorobiphenyl	85
4-Terphenyl-d14	76
PNA's by GC/MS 8270 LCS for sample(s) 06 (WG106309)	
Acenaphthene	81
2-Chloronaphthalene	83
Fluoranthene	87
Anthracene	79
Pyrene	91
Surrogate Recovery	
Nitrobenzene-d5	74

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0201843

Continued

Parameter	% Recovery
PNA's by GC/MS 8270 LCS for sample(s) 06 (WG106309)	
2-Fluorobiphenyl	83
4-Terphenyl-d14	75
Cyanide, Total SPIKE for sample(s) 01-06 (L0201842-01, WG106049)	
Cyanide, Total	83
Total Metals SPIKE for sample(s) 01-06 (L0201812-05, WG106191)	
Arsenic, Total	95
Barium, Total	87
Cadmium, Total	88
Chromium, Total	61
Lead, Total	83
Selenium, Total	96
Silver, Total	108
Total Metals SPIKE for sample(s) 01-06 (L0201834-03, WG106489)	
Mercury, Total	120

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0201843

Parameter	MS %	MSD %	RPD
Volatile Organics 8260 via High 5035 for sample(s) 01-06 (L0201843-01, WG106549)			
Chlorobenzene	92	88	4
Benzene	99	95	4
Toluene	95	88	8
1,1-Dichloroethene	100	95	5
Trichloroethene	98	92	6
PNA's by GC/MS 8270 for sample(s) 01-05 (L0201843-05, WG106307)			
Acenaphthene	90	90	0
2-Chloronaphthalene	90	90	0
Fluoranthene	110	350	104
Anthracene	110	110	0
Pyrene	160	510	104
PNA's by GC/MS 8270 for sample(s) 06 (L0201842-01, WG106309)			
Acenaphthene	88	40	75
2-Chloronaphthalene	88	40	75
Fluoranthene	96	46	70
Anthracene	88	42	71
Pyrene	100	47	72

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0201843

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
	Blank Analysis for sample(s) 01-06							
Cyanide, Total	ND	mg/kg	0.13	1	9010B	0223 13:21	0225 13:15	ED
	Blank Analysis for sample(s) 01-06							
Total Metals				1	3051			
Arsenic, Total	ND	mg/kg	0.40	1	6010B	0225 16:00	0227 00:40	RW
Barium, Total	ND	mg/kg	0.40	1	6010B	0225 16:00	0227 00:40	RW
Cadmium, Total	ND	mg/kg	0.40	1	6010B	0225 16:00	0227 18:51	RW
Chromium, Total	ND	mg/kg	0.40	1	6010B	0225 16:00	0227 00:40	RW
Lead, Total	ND	mg/kg	2.0	1	6010B	0225 16:00	0227 00:40	RW
Selenium, Total	ND	mg/kg	0.80	1	6010B	0225 16:00	0227 00:40	RW
Silver, Total	ND	mg/kg	0.40	1	6010B	0225 16:00	0227 00:40	RW
	Blank Analysis for sample(s) 01-06							
Total Metals								
Mercury, Total	ND	mg/kg	0.08	1	7471A	0228 16:55	0301 10:43	DM
	Blank Analysis for sample(s) 01-06							
Volatile Organics 8260 via High 5035				1	8260B		0228 15:29	BT
Methylene chloride	ND	ug/kg	500					
1,1-Dichloroethane	ND	ug/kg	75.					
Chloroform	ND	ug/kg	75.					
Carbon tetrachloride	ND	ug/kg	50.					
1,2-Dichloropropane	ND	ug/kg	180					
Dibromochloromethane	ND	ug/kg	50.					
1,1,2-Trichloroethane	ND	ug/kg	75.					
Tetrachloroethene	ND	ug/kg	50.					
Chlorobenzene	ND	ug/kg	50.					
Trichlorofluoromethane	ND	ug/kg	250					
1,2-Dichloroethane	ND	ug/kg	50.					
1,1,1-Trichloroethane	ND	ug/kg	50.					
Bromodichloromethane	ND	ug/kg	50.					
trans-1,3-Dichloropropene	ND	ug/kg	50.					
cis-1,3-Dichloropropene	ND	ug/kg	50.					
1,1-Dichloropropene	ND	ug/kg	250					
Bromoform	ND	ug/kg	50.					
1,1,2,2-Tetrachloroethane	ND	ug/kg	50.					
Benzene	ND	ug/kg	50.					
Toluene	ND	ug/kg	75.					
Ethylbenzene	ND	ug/kg	50.					
Chloromethane	ND	ug/kg	250					
Bromomethane	ND	ug/kg	100					
Vinyl chloride	ND	ug/kg	100					
Chloroethane	ND	ug/kg	100					
1,1-Dichloroethene	ND	ug/kg	50.					
trans-1,2-Dichloroethene	ND	ug/kg	75.					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0201843

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-06								
Volatile Organics 8260 via High 5035 continued				1	8260B		0228 15:29	BT
Trichloroethene	ND	ug/kg	50.					
1,2-Dichlorobenzene	ND	ug/kg	250					
1,3-Dichlorobenzene	ND	ug/kg	250					
1,4-Dichlorobenzene	ND	ug/kg	250					
Methyl tert butyl ether	ND	ug/kg	100					
p/m-Xylene	ND	ug/kg	50.					
o-Xylene	ND	ug/kg	50.					
cis-1,2-Dichloroethene	ND	ug/kg	50.					
Dibromomethane	ND	ug/kg	500					
1,4-Dichlorobutane	ND	ug/kg	500					
Iodomethane	ND	ug/kg	500					
1,2,3-Trichloropropane	ND	ug/kg	500					
Styrene	ND	ug/kg	50.					
Dichlorodifluoromethane	ND	ug/kg	500					
Acetone	ND	ug/kg	500					
Carbon disulfide	ND	ug/kg	500					
2-Butanone	ND	ug/kg	500					
Vinyl acetate	ND	ug/kg	500					
4-Methyl-2-pentanone	ND	ug/kg	500					
2-Hexanone	ND	ug/kg	500					
Ethyl methacrylate	ND	ug/kg	500					
Acrolein	ND	ug/kg	1200					
Acrylonitrile	ND	ug/kg	500					
Bromochloromethane	ND	ug/kg	250					
Tetrahydrofuran	ND	ug/kg	1000					
2,2-Dichloropropane	ND	ug/kg	250					
1,2-Dibromoethane	ND	ug/kg	250					
1,3-Dichloropropane	ND	ug/kg	250					
1,1,1,2-Tetrachloroethane	ND	ug/kg	50.					
Bromobenzene	ND	ug/kg	250					
n-Butylbenzene	ND	ug/kg	50.					
sec-Butylbenzene	ND	ug/kg	50.					
tert-Butylbenzene	ND	ug/kg	250					
o-Chlorotoluene	ND	ug/kg	250					
p-Chlorotoluene	ND	ug/kg	250					
1,2-Dibromo-3-chloropropane	ND	ug/kg	250					
Hexachlorobutadiene	ND	ug/kg	250					
Isopropylbenzene	ND	ug/kg	50.					
p-Isopropyltoluene	ND	ug/kg	50.					
Naphthalene	ND	ug/kg	250					
n-Propylbenzene	ND	ug/kg	50.					
1,2,3-Trichlorobenzene	ND	ug/kg	250					
1,2,4-Trichlorobenzene	ND	ug/kg	250					
1,3,5-Trimethylbenzene	ND	ug/kg	250					
1,2,4-Trimethylbenzene	ND	ug/kg	250					
trans-1,4-Dichloro-2-butene	ND	ug/kg	250					
Ethyl ether	ND	ug/kg	250					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0201843

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-06								
Volatile Organics 8260 via High 5035 continued				1	8260B		0229 15:29	BT
Surrogate Recovery								
1,2-Dichloroethane-d4	114.	%						
Toluene-d8	95.0	%						
4-Bromofluorobenzene	96.0	%						
Dibromofluoromethane	99.0	%						
Blank Analysis for sample(s) 01-05								
PNA's by GC/MS 8270				1	8270C	0226 12:30	0228 14:54	HL
Acenaphthene	ND	ug/kg	500					
2-Chloronaphthalene	ND	ug/kg	600					
Fluoranthene	ND	ug/kg	500					
Naphthalene	ND	ug/kg	500					
Benzo(a)anthracene	ND	ug/kg	500					
Benzo(a)pyrene	ND	ug/kg	500					
Benzo(b)fluoranthene	ND	ug/kg	500					
Benzo(k)fluoranthene	ND	ug/kg	500					
Chrysene	ND	ug/kg	500					
Acenaphthylene	ND	ug/kg	500					
Anthracene	ND	ug/kg	500					
Benzo(ghi)perylene	ND	ug/kg	500					
Fluorene	ND	ug/kg	500					
Phenanthrene	ND	ug/kg	500					
Dibenzo(a,h)anthracene	ND	ug/kg	500					
Indeno(1,2,3-cd)pyrene	ND	ug/kg	700					
Pyrene	ND	ug/kg	500					
Benzo(e)pyrene	ND	ug/kg	500					
Biphenyl	ND	ug/kg	500					
Perylene	ND	ug/kg	500					
1-Methylnaphthalene	ND	ug/kg	500					
2-Methylnaphthalene	ND	ug/kg	800					
Surrogate Recovery								
Nitrobenzene-d5	77.0	%						
2-Fluorobiphenyl	72.0	%						
4-Terphenyl-d14	62.0	%						
Blank Analysis for sample(s) 06								
PNA's by GC/MS 8270				1	8270C	0226 17:50	0228 13:47	HL
Acenaphthene	ND	ug/kg	500					
2-Chloronaphthalene	ND	ug/kg	600					
Fluoranthene	ND	ug/kg	500					
Naphthalene	ND	ug/kg	500					
Benzo(a)anthracene	ND	ug/kg	500					
Benzo(a)pyrene	ND	ug/kg	500					
Benzo(b)fluoranthene	ND	ug/kg	500					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0201843

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 06								
PNA's by GC/MS 8270 continued				1	8270C	0226 17:50	0228 13:47	HL
Benzo(k)fluoranthene	ND	ug/kg	500					
Chrysene	ND	ug/kg	500					
Acenaphthylene	ND	ug/kg	500					
Anthracene	ND	ug/kg	500					
Benzo(ghi)perylene	ND	ug/kg	500					
Fluorene	ND	ug/kg	500					
Phenanthrene	ND	ug/kg	500					
Dibenzo(a,h)anthracene	ND	ug/kg	500					
Indeno(1,2,3-cd)pyrene	ND	ug/kg	700					
Pyrene	ND	ug/kg	500					
Benzo(e)pyrene	ND	ug/kg	500					
Biphenyl	ND	ug/kg	500					
Perylene	ND	ug/kg	500					
1-Methylnaphthalene	ND	ug/kg	500					
2-Methylnaphthalene	ND	ug/kg	800					
Surrogate Recovery								
Nitrobenzene-d5	74.0	%						
2-Fluorobiphenyl	83.0	%						
4-Terphenyl-d14	77.0	%						

ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT

Laboratory Job Number: L0201842

Alpha Report L0201842:

It should be noted that no significant deviations were encountered during preparation or analysis of these samples unless noted below.

Total Metals

It should be noted that the matrix spike percent recovery for the analysis of Chromium associated with Alpha Samples L0201842-01 through -03 is outside the in-house acceptance criteria for the method. A post analytical spike was performed with an acceptable recovery of 99%.

Polynuclear Aromatic Hydrocarbons

Please note that one or more of the matrix spike duplicate percent recoveries, as well as one or more of the surrogate recoveries, associated with Alpha Samples L0201841-01 through -03 is below the acceptance criteria for the method due to a laboratory event. This causes the relative percent differences for the matrix spike/matrix spike duplicate to calculate above the acceptance criteria.

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0201842-01
02C-1011-MW/S1
Sample Matrix: SOIL

Date Collected: 22-FEB-2002 07:15
Date Received : 22-FEB-2002
Date Reported : 01-MAR-2002

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic,1-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Solids, Total	80.	%	0.10	30	2540G		0223 15:20	NL
Cyanide, Total	2.0	mg/kg	0.26	1	9010B	0223 13:21	0225 13:17	ED
Total Metals				1	3051			
Arsenic, Total	1.3	mg/kg	0.50	1	6010B	0225 16:00	0227 02:32	RW
Barium, Total	11.	mg/kg	0.50	1	6010B	0225 16:00	0227 02:32	RW
Cadmium, Total	ND	mg/kg	0.50	1	6010B	0225 16:00	0227 20:35	RW
Chromium, Total	7.8	mg/kg	0.50	1	6010B	0225 16:00	0227 02:32	RW
Lead, Total	ND	mg/kg	2.5	1	6010B	0225 16:00	0227 02:32	RW
Mercury, Total	ND	mg/kg	0.10	1	7471A	0228 16:55	0301 10:43	DM
Selenium, Total	ND	mg/kg	1.0	1	6010B	0225 16:00	0227 02:32	RW
Silver, Total	ND	mg/kg	0.50	1	6010B	0225 16:00	0227 02:32	RW
Volatile Organics 8260 via High 5035				1	8260B		0228 20:27	BT
Methylene chloride	ND	ug/kg	48000					
1,1-Dichloroethane	ND	ug/kg	7200					
Chloroform	ND	ug/kg	7200					
Carbon tetrachloride	ND	ug/kg	4800					
1,2-Dichloropropane	ND	ug/kg	17000					
Dibromochloromethane	ND	ug/kg	4800					
1,1,2-Trichloroethane	ND	ug/kg	7200					
Tetrachloroethene	ND	ug/kg	4800					
Chlorobenzene	ND	ug/kg	4800					
Trichlorofluoromethane	ND	ug/kg	24000					
1,2-Dichloroethane	ND	ug/kg	4800					
1,1,1-Trichloroethane	ND	ug/kg	4800					
Bromodichloromethane	ND	ug/kg	4800					
trans-1,3-Dichloropropene	ND	ug/kg	4800					
cis-1,3-Dichloropropene	ND	ug/kg	4800					
1,1-Dichloropropene	ND	ug/kg	24000					
Bromoform	ND	ug/kg	4800					
1,1,2,2-Tetrachloroethane	ND	ug/kg	4800					
Benzene	15000	ug/kg	4800					
Toluene	13000	ug/kg	7200					
Ethylbenzene	5000	ug/kg	4800					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0201842-01
02C-1011-MW/S1

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics 8260 via High 5035 continued				1 8260B		0228 20:27	BT
Chloromethane	ND	ug/kg	24000				
Bromomethane	ND	ug/kg	9700				
Vinyl chloride	ND	ug/kg	9700				
Chloroethane	ND	ug/kg	9700				
1,1-Dichloroethene	ND	ug/kg	4800				
trans-1,2-Dichloroethene	ND	ug/kg	7200				
Trichloroethene	ND	ug/kg	4800				
1,2-Dichlorobenzene	ND	ug/kg	24000				
1,3-Dichlorobenzene	ND	ug/kg	24000				
1,4-Dichlorobenzene	ND	ug/kg	24000				
Methyl tert butyl ether	ND	ug/kg	9700				
p/m-Xylene	17000	ug/kg	4800				
o-Xylene	7200	ug/kg	4800				
cis-1,2-Dichloroethene	ND	ug/kg	4800				
Dibromomethane	ND	ug/kg	48000				
1,4-Dichlorobutane	ND	ug/kg	48000				
Iodomethane	ND	ug/kg	48000				
1,2,3-Trichloropropane	ND	ug/kg	48000				
Styrene	ND	ug/kg	4800				
Dichlorodifluoromethane	ND	ug/kg	48000				
Acetone	ND	ug/kg	48000				
Carbon disulfide	ND	ug/kg	48000				
2-Butanone	ND	ug/kg	48000				
Vinyl acetate	ND	ug/kg	48000				
4-Methyl-2-pentanone	ND	ug/kg	48000				
2-Hexanone	ND	ug/kg	48000				
Ethyl methacrylate	ND	ug/kg	48000				
Acrolein	ND	ug/kg	120000				
Acrylonitrile	ND	ug/kg	48000				
Bromochloromethane	ND	ug/kg	24000				
Tetrahydrofuran	ND	ug/kg	97000				
2,2-Dichloropropane	ND	ug/kg	24000				
1,2-Dibromoethane	ND	ug/kg	24000				
1,3-Dichloropropane	ND	ug/kg	24000				
1,1,1,2-Tetrachloroethane	ND	ug/kg	4800				
Bromobenzene	ND	ug/kg	24000				
n-Butylbenzene	ND	ug/kg	4800				
sec-Butylbenzene	ND	ug/kg	4800				
tert-Butylbenzene	ND	ug/kg	24000				
o-Chlorotoluene	ND	ug/kg	24000				
p-Chlorotoluene	ND	ug/kg	24000				
1,2-Dibromo-3-chloropropane	ND	ug/kg	24000				
Hexachlorobutadiene	ND	ug/kg	24000				
Isopropylbenzene	ND	ug/kg	4800				
p-Isopropyltoluene	ND	ug/kg	4800				
Naphthalene	260000	ug/kg	24000				
n-Propylbenzene	ND	ug/kg	4800				
1,2,3-Trichlorobenzene	ND	ug/kg	24000				
1,2,4-Trichlorobenzene	ND	ug/kg	24000				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0201842-01
02C-1011-MW/S1

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics 8260 via High 5035 continued				1	8260B		0228 20:27	BT
1,3,5-Trimethylbenzene	ND	ug/kg	24000					
1,2,4-Trimethylbenzene	ND	ug/kg	24000					
trans-1,4-Dichloro-2-butene	ND	ug/kg	24000					
Ethyl ether	ND	ug/kg	24000					
Surrogate Recovery								
1,2-Dichloroethane-d4	118.	%						
Toluene-d8	88.0	%						
4-Bromofluorobenzene	91.0	%						
Dibromofluoromethane	105.	%						
PNA's by GC/MS 8270				1	8270C	0226 17:50	0228 16:34	HL
Acenaphthene	ND	ug/kg	620					
2-Chloronaphthalene	ND	ug/kg	750					
Fluoranthene	ND	ug/kg	620					
Naphthalene	1200	ug/kg	620					
Benzo(a)anthracene	ND	ug/kg	620					
Benzo(a)pyrene	ND	ug/kg	620					
Benzo(b)fluoranthene	ND	ug/kg	620					
Benzo(k)fluoranthene	ND	ug/kg	620					
Chrysene	ND	ug/kg	620					
Acenaphthylene	ND	ug/kg	620					
Anthracene	ND	ug/kg	620					
Benzo(ghi)perylene	ND	ug/kg	620					
Fluorene	ND	ug/kg	620					
Phenanthrene	ND	ug/kg	620					
Dibenzo(a,h)anthracene	ND	ug/kg	620					
Indeno(1,2,3-cd)pyrene	ND	ug/kg	880					
Pyrene	ND	ug/kg	620					
Benzo(e)pyrene	ND	ug/kg	620					
Biphenyl	ND	ug/kg	620					
Perylene	ND	ug/kg	620					
1-Methylnaphthalene	ND	ug/kg	620					
2-Methylnaphthalene	ND	ug/kg	1000					
Surrogate Recovery								
Nitrobenzene-d5	66.0	%						
2-Fluorobiphenyl	75.0	%						
4-Terphenyl-d14	71.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0201842-02
02B-922-MW/S9
Sample Matrix: SOIL

Date Collected: 22-FEB-2002 09:00
Date Received : 22-FEB-2002
Date Reported : 01-MAR-2002

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic,1-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Solids, Total	81.	%	0.10	30	2540G		0223 15:20	NL
Cyanide, Total	1.7	mg/kg	0.30	1	9010B	0223 13:21	0225 13:20	ED
Total Metals				1	3051			
Arsenic, Total	0.92	mg/kg	0.49	1	6010B	0225 16:00	0227 02:57	RW
Barium, Total	8.5	mg/kg	0.49	1	6010B	0225 16:00	0227 02:57	RW
Cadmium, Total	ND	mg/kg	0.49	1	6010B	0225 16:00	0227 20:40	RW
Chromium, Total	7.6	mg/kg	0.49	1	6010B	0225 16:00	0227 02:57	RW
Lead, Total	ND	mg/kg	2.4	1	6010B	0225 16:00	0227 02:57	RW
Mercury, Total	ND	mg/kg	0.09	1	7471A	0228 16:55	0301 10:43	DM
Selenium, Total	ND	mg/kg	0.98	1	6010B	0225 16:00	0227 02:57	RW
Silver, Total	ND	mg/kg	0.49	1	6010B	0225 16:00	0227 02:57	RW
Volatile Organics 8260 via High 5035				1	8260B		0228 21:09	BT
Methylene chloride	ND	ug/kg	36000					
1,1-Dichloroethane	ND	ug/kg	5500					
Chloroform	ND	ug/kg	5500					
Carbon tetrachloride	ND	ug/kg	3600					
1,2-Dichloropropane	ND	ug/kg	13000					
Dibromochloromethane	ND	ug/kg	3600					
1,1,2-Trichloroethane	ND	ug/kg	5500					
Tetrachloroethene	ND	ug/kg	3600					
Chlorobenzene	ND	ug/kg	3600					
Trichlorofluoromethane	ND	ug/kg	18000					
1,2-Dichloroethane	ND	ug/kg	3600					
1,1,1-Trichloroethane	ND	ug/kg	3600					
Bromodichloromethane	ND	ug/kg	3600					
trans-1,3-Dichloropropene	ND	ug/kg	3600					
cis-1,3-Dichloropropene	ND	ug/kg	3600					
1,1-Dichloropropene	ND	ug/kg	18000					
Bromoform	ND	ug/kg	3600					
1,1,2,2-Tetrachloroethane	ND	ug/kg	3600					
Benzene	16000	ug/kg	3600					
Toluene	15000	ug/kg	5500					
Ethylbenzene	4300	ug/kg	3600					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0201842-02
02B-922-MW/S9

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics 8260 via High 5035 continued				1	8260B		0228 21:09	BT
Chloromethane	ND	ug/kg	18000					
Bromomethane	ND	ug/kg	7300					
Vinyl chloride	ND	ug/kg	7300					
Chloroethane	ND	ug/kg	7300					
1,1-Dichloroethene	ND	ug/kg	3600					
trans-1,2-Dichloroethene	ND	ug/kg	5500					
Trichloroethene	ND	ug/kg	3600					
1,2-Dichlorobenzene	ND	ug/kg	18000					
1,3-Dichlorobenzene	ND	ug/kg	18000					
1,4-Dichlorobenzene	ND	ug/kg	18000					
Methyl tert butyl ether	ND	ug/kg	7300					
p/m-Xylene	17000	ug/kg	3600					
o-Xylene	7400	ug/kg	3600					
cis-1,2-Dichloroethene	ND	ug/kg	3600					
Dibromomethane	ND	ug/kg	36000					
1,4-Dichlorobutane	ND	ug/kg	36000					
Iodomethane	ND	ug/kg	36000					
1,2,3-Trichloropropane	ND	ug/kg	36000					
Styrene	ND	ug/kg	3600					
Dichlorodifluoromethane	ND	ug/kg	36000					
Acetone	ND	ug/kg	36000					
Carbon disulfide	ND	ug/kg	36000					
2-Butanone	ND	ug/kg	36000					
Vinyl acetate	ND	ug/kg	36000					
4-Methyl-2-pentanone	ND	ug/kg	36000					
2-Hexanone	ND	ug/kg	36000					
Ethyl methacrylate	ND	ug/kg	36000					
Acrolein	ND	ug/kg	91000					
Acrylonitrile	ND	ug/kg	36000					
Bromochloromethane	ND	ug/kg	18000					
Tetrahydrofuran	ND	ug/kg	73000					
2,2-Dichloropropane	ND	ug/kg	18000					
1,2-Dibromoethane	ND	ug/kg	18000					
1,3-Dichloropropane	ND	ug/kg	18000					
1,1,1,2-Tetrachloroethane	ND	ug/kg	3600					
Bromobenzene	ND	ug/kg	18000					
n-Butylbenzene	ND	ug/kg	3600					
sec-Butylbenzene	ND	ug/kg	3600					
tert-Butylbenzene	ND	ug/kg	18000					
o-Chlorotoluene	ND	ug/kg	18000					
p-Chlorotoluene	ND	ug/kg	18000					
1,2-Dibromo-3-chloropropane	ND	ug/kg	18000					
Hexachlorobutadiene	ND	ug/kg	18000					
Isopropylbenzene	ND	ug/kg	3600					
p-Isopropyltoluene	ND	ug/kg	3600					
Naphthalene	280000	ug/kg	18000					
n-Propylbenzene	ND	ug/kg	3600					
1,2,3-Trichlorobenzene	ND	ug/kg	18000					
1,2,4-Trichlorobenzene	ND	ug/kg	18000					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0201842-02
02B-922-MW/S9

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics 8260 via High 5035 continued				1	8260B		0228 21:09	BT
1,3,5-Trimethylbenzene	ND	ug/kg	18000					
1,2,4-Trimethylbenzene	ND	ug/kg	18000					
trans-1,4-Dichloro-2-butene	ND	ug/kg	18000					
Ethyl ether	ND	ug/kg	18000					
Surrogate Recovery								
1,2-Dichloroethane-d4	119.	%						
Toluene-d8	93.0	%						
4-Bromofluorobenzene	92.0	%						
Dibromofluoromethane	105.	%						
PNA's by GC/MS 8270				1	8270C	0226 17:50	0228 17:16	HL
Acenaphthene	ND	ug/kg	3100					
2-Chloronaphthalene	ND	ug/kg	3700					
Fluoranthene	ND	ug/kg	3100					
Naphthalene	91000	ug/kg	3100					
Benzo(a)anthracene	ND	ug/kg	3100					
Benzo(a)pyrene	ND	ug/kg	3100					
Benzo(b)fluoranthene	ND	ug/kg	3100					
Benzo(k)fluoranthene	ND	ug/kg	3100					
Chrysene	ND	ug/kg	3100					
Acenaphthylene	3900	ug/kg	3100					
Anthracene	ND	ug/kg	3100					
Benzo(ghi)perylene	ND	ug/kg	3100					
Fluorene	ND	ug/kg	3100					
Phenanthrene	ND	ug/kg	3100					
Dibenzo(a,h)anthracene	ND	ug/kg	3100					
Indeno(1,2,3-cd)pyrene	ND	ug/kg	4300					
Pyrene	ND	ug/kg	3100					
Benzo(e)pyrene	ND	ug/kg	3100					
Biphenyl	ND	ug/kg	3100					
Perylene	ND	ug/kg	3100					
1-Methylnaphthalene	33000	ug/kg	3100					
2-Methylnaphthalene	48000	ug/kg	4900					
Surrogate Recovery								
Nitrobenzene-d5	78.0	%						
2-Fluorobiphenyl	88.0	%						
4-Terphenyl-d14	77.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0201842-03
02B-923-MW/S8
Sample Matrix: SOIL

Date Collected: 22-FEB-2002 14:30
Date Received : 22-FEB-2002
Date Reported : 01-MAR-2002

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic,1-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Solids, Total	84.	%	0.10	30	2540G		0223 15:20	NL
Cyanide, Total	0.62	mg/kg	0.18	1	9010B	0223 13:21	0225 11:21	ED
Total Metals				1	3051			
Arsenic, Total	2.9	mg/kg	0.47	1	6010B	0225 16:00	0227 03:04	RW
Barium, Total	13.	mg/kg	0.47	1	6010B	0225 16:00	0227 03:04	RW
Cadmium, Total	ND	mg/kg	0.47	1	6010B	0225 16:00	0227 20:45	RW
Chromium, Total	7.2	mg/kg	0.47	1	6010B	0225 16:00	0227 03:04	RW
Lead, Total	ND	mg/kg	2.3	1	6010B	0225 16:00	0227 03:04	RW
Mercury, Total	ND	mg/kg	0.09	1	7471A	0228 16:55	0301 10:43	DM
Selenium, Total	ND	mg/kg	0.93	1	6010B	0225 16:00	0227 03:04	RW
Silver, Total	ND	mg/kg	0.47	1	6010B	0225 16:00	0227 03:04	RW
Volatile Organics 8260 via High 5035				1	8260B		0228 21:52	BT
Methylene chloride	ND	ug/kg	510000					
1,1-Dichloroethane	ND	ug/kg	76000					
Chloroform	ND	ug/kg	76000					
Carbon tetrachloride	ND	ug/kg	51000					
1,2-Dichloropropane	ND	ug/kg	180000					
Dibromochloromethane	ND	ug/kg	51000					
1,1,2-Trichloroethane	ND	ug/kg	76000					
Tetrachloroethene	ND	ug/kg	51000					
Chlorobenzene	ND	ug/kg	51000					
Trichlorofluoromethane	ND	ug/kg	260000					
1,2-Dichloroethane	ND	ug/kg	51000					
1,1,1-Trichloroethane	ND	ug/kg	51000					
Bromodichloromethane	ND	ug/kg	51000					
trans-1,3-Dichloropropene	ND	ug/kg	51000					
cis-1,3-Dichloropropene	ND	ug/kg	51000					
1,1-Dichloropropene	ND	ug/kg	260000					
Bromoform	ND	ug/kg	51000					
1,1,2,2-Tetrachloroethane	ND	ug/kg	51000					
Benzene	ND	ug/kg	51000					
Toluene	ND	ug/kg	76000					
Ethylbenzene	98000	ug/kg	51000					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0201842

Parameter	Value 1	Value 2	RPD	Units
Solids, Total for sample(s) 01-03 (L0201695-39, WG106054)				
Solids, Total	48.	47.	2	%
Cyanide, Total for sample(s) 01-03 (L0201842-01, WG106049)				
Cyanide, Total	2.0	2.2	10	mg/kg
Total Metals for sample(s) 01-03 (L0201812-04, WG106191)				
Arsenic, Total	6.3	5.9	7	mg/kg
Barium, Total	95.	97.	2	mg/kg
Cadmium, Total	ND	ND	NC	mg/kg
Chromium, Total	46.	48.	4	mg/kg
Lead, Total	11.	10.	10	mg/kg
Selenium, Total	ND	ND	NC	mg/kg
Silver, Total	ND	ND	NC	mg/kg
Total Metals for sample(s) 01-03 (L0201834-02, WG106489)				
Mercury, Total	ND	ND	NC	mg/kg

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0201842

Parameter	% Recovery
Cyanide, Total LCS for sample(s) 01-03 (WG106049)	
Cyanide, Total	98
Total Metals LCS for sample(s) 01-03 (WG106191)	
Arsenic, Total	100
Barium, Total	95
Cadmium, Total	103
Chromium, Total	98
Lead, Total	98
Selenium, Total	108
Silver, Total	108
Total Metals LCS for sample(s) 01-03 (WG106489)	
Mercury, Total	112
Volatile Organics 8260 via High 5035 LCS for sample(s) 01-03 (WG106463)	
Methylene chloride	115
1,1-Dichloroethane	102
Chloroform	109
Carbon tetrachloride	110
1,2-Dichloropropane	99
Dibromochloromethane	96
1,1,2-Trichloroethane	110
Tetrachloroethene	107
Chlorobenzene	96
Trichlorofluoromethane	116
1,2-Dichloroethane	118
1,1,1-Trichloroethane	108
Bromodichloromethane	102
trans-1,3-Dichloropropene	95
cis-1,3-Dichloropropene	95
Bromoform	95
1,1,2,2-Tetrachloroethane	100
Benzene	106
Toluene	99
Ethylbenzene	98
Chloromethane	90
Bromomethane	119
Vinyl chloride	93
Chloroethane	103
1,1-Dichloroethene	110
trans-1,2-Dichloroethene	105
Trichloroethene	106
p/m-Xylene	98
o-Xylene	97
cis-1,2-Dichloroethene	103
Styrene	100
Carbon disulfide	86
Vinyl acetate	84

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0201842

Continued

Parameter	% Recovery
Volatile Organics 8260 via High 5035 LCS for sample(s) 01-03 (WG106463)	
Acrylonitrile	87
1,2-Dibromoethane	102
Surrogate Recovery	
1,2-Dichloroethane-d4	107
Toluene-d8	91
4-Bromofluorobenzene	93
Dibromofluoromethane	106
PNA's by GC/MS 8270 LCS for sample(s) 01-03 (WG106309)	
Acenaphthene	81
2-Chloronaphthalene	83
Fluoranthene	87
Anthracene	79
Pyrene	91
Surrogate Recovery	
Nitrobenzene-d5	74
2-Fluorobiphenyl	83
4-Terphenyl-d14	75
Cyanide, Total SPIKE for sample(s) 01-03 (L0201842-01, WG106049)	
Cyanide, Total	83
Total Metals SPIKE for sample(s) 01-03 (L0201812-05, WG106191)	
Arsenic, Total	95
Barium, Total	87
Cadmium, Total	88
Chromium, Total	61
Lead, Total	83
Selenium, Total	96
Silver, Total	108
Total Metals SPIKE for sample(s) 01-03 (L0201834-03, WG106489)	
Mercury, Total	120

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0201842

Parameter	MS %	MSD %	RPD
Volatile Organics 8260 via High 5035 for sample(s) 01-03 (L0201858-04, WG106463)			
Methylene chloride	110	98	12
1,1-Dichloroethane	110	98	12
Chloroform	110	100	10
Carbon tetrachloride	92	88	4
1,2-Dichloropropane	98	96	2
Dibromochloromethane	90	90	0
1,1,2-Trichloroethane	110	110	0
Tetrachloroethene	97	92	5
Chlorobenzene	92	90	2
Trichlorofluoromethane	97	90	7
1,2-Dichloroethane	120	110	9
1,1,1-Trichloroethane	100	94	6
Bromodichloromethane	92	93	1
trans-1,3-Dichloropropene	92	92	0
cis-1,3-Dichloropropene	93	93	0
Bromoform	93	89	4
1,1,2,2-Tetrachloroethane	100	100	0
Benzene	100	99	1
Toluene	96	93	3
Ethylbenzene	93	90	3
Chloromethane	91	92	1
Bromomethane	110	100	10
Vinyl chloride	74	75	1
Chloroethane	67	65	3
1,1-Dichloroethene	100	98	2
trans-1,2-Dichloroethene	100	100	0
Trichloroethene	100	97	3
p/m-Xylene	92	90	2
o-Xylene	93	92	1
cis-1,2-Dichloroethene	100	99	1
Styrene	96	94	2
Carbon disulfide	76	73	4
Vinyl acetate	93	92	1
Acrylonitrile	100	100	0
1,2-Dibromoethane	100	100	0
PNA's by GC/MS 8270 for sample(s) 01-03 (L0201842-01, WG106309)			
Acenaphthene	88	40	75
2-Chloronaphthalene	88	40	75
Fluoranthene	96	46	70
Anthracene	88	42	71
Pyrene	100	47	72

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0201842

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-03								
Cyanide, Total	ND	mg/kg	0.19	1	9010B	0223 13:21	0225 13:15	ED
Blank Analysis for sample(s) 01-03								
Total Metals				1	3051			
Arsenic, Total	ND	mg/kg	0.40	1	6010B	0225 16:00	0227 00:40	RW
Barium, Total	ND	mg/kg	0.40	1	6010B	0225 16:00	0227 00:40	RW
Cadmium, Total	ND	mg/kg	0.40	1	6010B	0225 16:00	0227 18:51	RW
Chromium, Total	ND	mg/kg	0.40	1	6010B	0225 16:00	0227 00:40	RW
Lead, Total	ND	mg/kg	2.0	1	6010B	0225 16:00	0227 00:40	RW
Selenium, Total	ND	mg/kg	0.80	1	6010B	0225 16:00	0227 00:40	RW
Silver, Total	ND	mg/kg	0.40	1	6010B	0225 16:00	0227 00:40	RW
Blank Analysis for sample(s) 01-03								
Total Metals								
Mercury, Total	ND	mg/kg	0.08	1	7471A	0228 16:55	0301 10:43	DM
Blank Analysis for sample(s) 01-03								
Volatile Organics 8260 via High 5035				1	8260B		0228 15:29	BT
Methylene chloride	ND	ug/kg	200					
1,1-Dichloroethane	ND	ug/kg	200					
Chloroform	ND	ug/kg	200					
Carbon tetrachloride	ND	ug/kg	200					
1,2-Dichloropropane	ND	ug/kg	200					
Dibromochloromethane	ND	ug/kg	200					
1,1,2-Trichloroethane	ND	ug/kg	200					
Tetrachloroethene	ND	ug/kg	200					
Chlorobenzene	ND	ug/kg	200					
Trichlorofluoromethane	ND	ug/kg	200					
1,2-Dichloroethane	ND	ug/kg	200					
1,1,1-Trichloroethane	ND	ug/kg	200					
Bromodichloromethane	ND	ug/kg	200					
trans-1,3-Dichloropropene	ND	ug/kg	200					
cis-1,3-Dichloropropene	ND	ug/kg	200					
1,1-Dichloropropene	ND	ug/kg	200					
Bromoform	ND	ug/kg	200					
1,1,2,2-Tetrachloroethane	ND	ug/kg	200					
Benzene	ND	ug/kg	200					
Toluene	ND	ug/kg	200					
Ethylbenzene	ND	ug/kg	200					
Chloromethane	ND	ug/kg	200					
Bromomethane	ND	ug/kg	200					
Vinyl chloride	ND	ug/kg	200					
Chloroethane	ND	ug/kg	200					
1,1-Dichloroethene	ND	ug/kg	200					
trans-1,2-Dichloroethene	ND	ug/kg	200					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0201842

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-03								
Volatile Organics 8260 via High 5035 continued				1	8260B		0228 15:29	BT
Trichloroethene	ND	ug/kg	200					
1,2-Dichlorobenzene	ND	ug/kg	200					
1,3-Dichlorobenzene	ND	ug/kg	200					
1,4-Dichlorobenzene	ND	ug/kg	200					
Methyl tert butyl ether	ND	ug/kg	200					
p/m-Xylene	ND	ug/kg	400					
o-Xylene	ND	ug/kg	400					
cis-1,2-Dichloroethene	ND	ug/kg	200					
Dibromomethane	ND	ug/kg	200					
1,4-Dichlorobutane	ND	ug/kg	200					
Iodomethane	ND	ug/kg	200					
1,2,3-Trichloropropane	ND	ug/kg	200					
Styrene	ND	ug/kg	400					
Dichlorodifluoromethane	ND	ug/kg	200					
Acetone	ND	ug/kg	200					
Carbon disulfide	ND	ug/kg	200					
2-Butanone	ND	ug/kg	200					
Vinyl acetate	ND	ug/kg	200					
4-Methyl-2-pentanone	ND	ug/kg	200					
2-Hexanone	ND	ug/kg	200					
Ethyl methacrylate	ND	ug/kg	200					
Acrolein	ND	ug/kg	200					
Acrylonitrile	ND	ug/kg	200					
Bromochloromethane	ND	ug/kg	200					
Tetrahydrofuran	ND	ug/kg	200					
2,2-Dichloropropane	ND	ug/kg	200					
1,2-Dibromoethane	ND	ug/kg	200					
1,3-Dichloropropane	ND	ug/kg	200					
1,1,1,2-Tetrachloroethane	ND	ug/kg	200					
Bromobenzene	ND	ug/kg	200					
n-Butylbenzene	ND	ug/kg	200					
sec-Butylbenzene	ND	ug/kg	200					
tert-Butylbenzene	ND	ug/kg	200					
o-Chlorotoluene	ND	ug/kg	200					
p-Chlorotoluene	ND	ug/kg	200					
1,2-Dibromo-3-chloropropane	ND	ug/kg	200					
Hexachlorobutadiene	ND	ug/kg	200					
Isopropylbenzene	ND	ug/kg	200					
p-Isopropyltoluene	ND	ug/kg	200					
Naphthalene	ND	ug/kg	200					
n-Propylbenzene	ND	ug/kg	200					
1,2,3-Trichlorobenzene	ND	ug/kg	200					
1,2,4-Trichlorobenzene	ND	ug/kg	200					
1,3,5-Trimethylbenzene	ND	ug/kg	200					
1,2,4-Trimethylbenzene	ND	ug/kg	200					
trans-1,4-Dichloro-2-butene	ND	ug/kg	200					
Ethyl ether	ND	ug/kg	200					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0201842

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-03								
Volatile Organics 8260 via High 5035 continued				1	8260B		0228 15:29	BT
Surrogate Recovery								
1,2-Dichloroethane-d4	114.	%						
Toluene-d8	95.0	%						
4-Bromofluorobenzene	96.0	%						
Dibromofluoromethane	99.0	%						
Blank Analysis for sample(s) 01-03								
PNA's by GC/MS 8270				1	8270C	0226 17:50	0228 13:47	HL
Acenaphthene	ND	ug/kg	500					
2-Chloronaphthalene	ND	ug/kg	600					
Fluoranthene	ND	ug/kg	500					
Naphthalene	ND	ug/kg	500					
Benzo(a)anthracene	ND	ug/kg	500					
Benzo(a)pyrene	ND	ug/kg	500					
Benzo(b)fluoranthene	ND	ug/kg	500					
Benzo(k)fluoranthene	ND	ug/kg	500					
Chrysene	ND	ug/kg	500					
Acenaphthylene	ND	ug/kg	500					
Anthracene	ND	ug/kg	500					
Benzo(ghi)perylene	ND	ug/kg	500					
Fluorene	ND	ug/kg	500					
Phenanthrene	ND	ug/kg	500					
Dibenzo(a,h)anthracene	ND	ug/kg	500					
Indeno(1,2,3-cd)pyrene	ND	ug/kg	700					
Pyrene	ND	ug/kg	500					
Benzo(e)pyrene	ND	ug/kg	500					
Biphenyl	ND	ug/kg	500					
Perylene	ND	ug/kg	500					
1-Methylnaphthalene	ND	ug/kg	500					
2-Methylnaphthalene	ND	ug/kg	800					
Surrogate Recovery								
Nitrobenzene-d5	74.0	%						
2-Fluorobiphenyl	83.0	%						
4-Terphenyl-d14	77.0	%						

REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Update III, 1997.

30. Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

GLOSSARY OF TERMS AND SYMBOLS

REF Reference number in which test method may be found.

METHOD Method number by which analysis was performed.

ID Initials of the analyst.

LIMITATION OF LIABILITIES

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.

Quality Control Acceptance Criteria

Volatile Organics by Method 8260B

surrogate spike % recovery	AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL		
1,2-Dichloroethane-d_4	75%	125%	75%	125%		
4-Bromofluorobenzene	75%	125%	75%	125%		
Toluene-d_8	75%	125%	75%	125%		
Dibromofluoromethane	75%	125%	75%	125%		
matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	**percent recovery AQ Limits LCL**	**AQ Limits UCL**	**Soil Limits LCL**	**Soil Limits UCL**	**duplicate and/or MSD AQ Limits RPD**	**Soil Limits RPD**
1,1-Dichloroethene	61%	145%	59%	172%	all target compounds	
Trichloroethene	71%	120%	62%	137%	20%	30%
Chlorobenzene	75%	130%	60%	133%		
Benzene	76%	127%	66%	142%		
Toluene	76%	125%	59%	139%		

Volatile Organics by Method 8021B

surrogate spike % recovery	AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL		
4-Bromochlorobenzene	70%	110%	70%	120%		
4-Bromofluorobenzene	70%	110%	70%	120%		
matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	**percent recovery AQ Limits LCL**	**AQ Limits UCL**	**Soil Limits LCL**	**Soil Limits UCL**	**duplicate and/or MSD AQ Limits RPD**	**Soil Limits RPD**
1,1-Dichloroethene	70%	130%	70%	130%	all target compounds	
Trichloroethene	70%	130%	70%	130%	20%	30%
Chlorobenzene	70%	130%	70%	130%		
Benzene	70%	130%	70%	130%		
Toluene	70%	130%	70%	130%		
Ethylbenzene	70%	130%	70%	130%		

Semi-Volatile Organics by Method 8270C (includes PAHs)

surrogate spike % recovery	AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL		
Nitrobenzene-d_5	23%	120%	23%	120%		
Phenol-d_6	10%	120%	10%	120%		
2-Fluorophenol	21%	120%	25%	120%		
2-Fluorobiphenyl	43%	120%	30%	120%		
p-Terphenyl-d_{14}	33%	120%	18%	120%		
2,4,6-Tribromophenol	10%	120%	19%	120%		
matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	**percent recovery AQ Limits LCL**	**AQ Limits UCL**	**Soil Limits LCL**	**Soil Limits UCL**	**duplicate and/or MSD AQ Limits RPD**	**Soil Limits RPD**
1,2,4-Trichlorobenzene	39%	98%	38%	107%	all target compounds	
Acenaphthene	46%	118%	31%	137%	40%	50%
2,4-Dinitrotoluene	24%	96%	28%	89%		
Pyrene	26%	127%	35%	142%		
N-Nitroso-di-n-propylamine	41%	116%	41%	126%		
1,4-Dichlorobenzene	36%	97%	28%	104%		
Pentachlorophenol	9%	103%	17%	109%		
Phenol	12%	110%	26%	90%		
2-Chlorophenol	27%	123%	25%	102%		
4-Chloro-3-methylphenol	23%	97%	26%	103%		
4-Nitrophenol	10%	80%	11%	114%		

Quality Control Acceptance Criteria

PCB/Pesticides by Method 8082/8081

surrogate spike % recovery	AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL		
2,4,5,6-Tetrachloro-m-xylene	40%	120%	40%	120%		
Decachlorobiphenyl	40%	120%	40%	120%		
matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	**percent recovery AQ Limits LCL**	**AQ Limits UCL**	**Soil Limits LCL**	**Soil Limits UCL**	**duplicate and/or MSD AQ Limits RPD**	**Soil Limits RPD**
Lindane	56%	123%	46%	127%	all target compounds	
Heptachlor	40%	131%	35%	130%	30%	50%
Aldrin	40%	120%	34%	132%		
Dieldrin	52%	126%	31%	134%		
Endrin	56%	121%	42%	139%		
4,4'-DDT	38%	127%	23%	134%		
Aroclor 1242/1016	40%	140%	40%	140%		
Aroclor 1260	40%	140%	40%	140%		

Volatile Petroleum Hydrocarbons (VPH) by MA DEP 98-1

surrogate spike % recovery	AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL		
2,5-Dibromotoluene	70%	130%	70%	130%		
laboratory control sample (LCS)	**percent recovery AQ Limits LCL**	**AQ Limits UCL**	**Soil Limits LCL**	**Soil Limits UCL**	**duplicate AQ Limits RPD**	**Soil Limits RPD**
all compounds	70%	130%	70%	130%	50%	50%

Extractable Petroleum Hydrocarbons (EPH) by MA DEP 98-1

surrogate spike % recovery	AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL		
Chloro-octadecane	40%	140%	40%	140%		
ortho-Terphenyl	40%	140%	40%	140%		
2-Fluorobiphenyl (fractionation)	40%	140%	40%	140%		
2-Bromonaphthalene (fractionation)	40%	140%	40%	140%		
laboratory control sample (LCS)	**percent recovery AQ Limits LCL**	**AQ Limits UCL**	**Soil Limits LCL**	**Soil Limits UCL**	**duplicate AQ Limits RPD**	**Soil Limits RPD**
all compounds	40%	140%	40%	140%	50%	50%

TPH (GC-FID) by Method 8100M

surrogate spike % recovery	AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL	duplicate AQ Limits RPD	duplicate Soil Limits RPD
ortho-Terphenyl	40%	140%	40%	140%	40%	40%

TPH by Method 418.1

matrix spike (MS) & laboratory control sample (LCS)	percent recovery AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL	duplicate AQ Limits RPD	duplicate Soil Limits RPD
TPH	60%	140%	60%	140%	40%	40%

Quality Control Acceptance Criteria

Trace Metals by Method 6010B/7000 series

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
target analyte	75%	125%	70%	140%	20%	35%

Mercury by Method 7470A/7471A

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
mercury	70%	130%	60%	140%	35%	45%

Total Cyanide by Method 9010B

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
cyanide	80%	120%	65%	135%	30%	40%

Total Phenol by Method 9065

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
phenol	70%	130%	65%	135%	20%	30%

HALEY & ALDRICH
Haley & Aldrich, Inc.
465 Medford St.,
Suite 2200,
Boston, MA 02129-1400

CHAIN OF CUSTODY RECORD

Phone (617) 886-7400
Fax (617) 886-7600

H&A FILE NO.	06558-631	LABORATORY	Alpha	DELIVERY DATE	2/22/02
PROJECT NAME	Former Malden MGP	ADDRESS	Westboro, MA	TURNAROUND TIME	Standard
H&A CONTACT	SRP	CONTACT	Pete Henrickson	PROJECT MANAGER	BAW

Analysis Requested

Sample No.	Date	Time	Depth	Type	1 VOA	2 ABNs PAH only	3 Metals RCRA (8) PB(13)	Pesticides PCBs	VPH Full Suite C-range only	EPH Full Suite C-range only	TPH (specify)	TCLP (specify)	Reactivity Ignitability Corrosivity	4			Number of Containers
02C-1011-MW/S1	2/22/02	0715	4-6	Soil	✓	✓	✓							✓			4
02B-922-MW/S9	2/22/02	0900	17-19	Soil	✓	✓	✓							✓			4
02B-923-MW/S8	2/22/02	1430	15-17	Soil	✓	✓	✓							✓			4

Comments (special instructions, precautions, additional method numbers, etc.)

1 VOC 8260 High
2 PAH 8270
3 RCRA 8 Metals Total CN
4 Total Solids

Sampled and Relinquished by	Received by
Sign [signature]	Sign [signature]
Print S. SHAW	Print [signature]
Firm Haley & Aldrich	Firm [signature]
Date 2/22/02 Time 1645	Date 2/22/02 Time 1645
Relinquished by	**Received by**
Sign [signature]	Sign [signature]
Print	Print 2-22-02
Firm	Firm 1830
Date Time	Date Time
Relinquished by	**Received by**
Sign	Sign
Print	Print
Firm	Firm
Date Time	Date Time

LIQUID

VOA Vial												
Amber Glass												
Plastic Bottle												
Preservative												
Volume												

SOLID

VOA Vial	✓											
Amber Glass		✓	✓									
Clear Plastic										✓		
Preservative	A6	A	A							A		
Volume	40	100	100							207		

Sampling Comments

02C-1011-MW/S1 Black staining w/ sheen.
02B-922-MW/S9 Black staining w/ sheen
02B-923-MW/S8 from bottom 6" of sample Blk Stain /odor

Evidence samples were tampered with? YES NO
If YES, please explain in section below.

PRESERVATION KEY

A Sample chilled	C NaOH	E H_2SO_4	G Methanol
B Sample filtered	D HNO_3	F HCL	H Sodium Bisulfate

WHITE - Laboratory CANARY - Project Manager PINK - Haley & Aldrich Laboratory GOLDENROD Haley & Aldrich Contact

RECEIVED
AUG 07 2002
Haley & Aldrich, Inc.

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220 www.alphalab.com

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

Client: Haley & Aldrich, Inc.

Address: 465 Medford Street, Suite 2200
Boston, MA 02129-1400

Attn: Mr. Steve Provencal

Project Number: 06558-631

Site: MALDEN MGP

Laboratory Job Number: L0207442

Invoice Number: 66490

Date Received: 29-JUL-02

Date Reported: 05-AUG-02

Delivery Method: Alpha

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0207442-01	02B-B924 S7	
L0207442-02	02B-B924 S8	

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by: James R. Roth, PhD

James R. Roth, PhD - Technical Director
This document electronically signed

Laboratory Job Number: L0207442

Alpha Report L0207442:

Volatile Organics

Alpha Samples L0207442-01 and -02 have elevated limits of detection due to the dilutions required by the elevated concentrations of target compounds in the samples.

Polynuclear Aromatic Hydrocarbons

One or more Laboratory Control Sample and Matrix Spike/Matrix Spike Duplicate percent recoveries are outside the individual acceptance criteria for the compounds, but within the overall method allowances. No further action was taken.

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0207442-01
02B-B924 S7
Sample Matrix: SOIL

Date Collected: 28-JUL-2002 09:00
Date Received : 29-JUL-2002
Date Reported : 05-AUG-2002

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Amber,1-Plastic,1-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Solids, Total	84.	%	0.10	30	2540G		0730 16:35	NL
Total Metals				1	3051			
Arsenic, Total	1.4	mg/kg	0.47	1	6010B	0730 15:30	0731 17:38	MG
Barium, Total	12.	mg/kg	0.47	1	6010B	0730 15:30	0731 17:38	MG
Cadmium, Total	ND	mg/kg	0.47	1	6010B	0730 15:30	0731 17:38	MG
Chromium, Total	8.2	mg/kg	0.47	1	6010B	0730 15:30	0731 17:38	MG
Lead, Total	2.9	mg/kg	2.4	1	6010B	0730 15:30	0731 17:38	MG
Mercury, Total	ND	mg/kg	0.09	1	7471A	0801 18:55	0802 09:32	DM
Selenium, Total	ND	mg/kg	0.94	1	6010B	0730 15:30	0731 17:38	MG
Silver, Total	ND	mg/kg	0.47	1	6010B	0730 15:30	0731 17:38	MG
Volatile Organics 8260 via High 5035				1	8260B		0730 20:00	BT
Methylene chloride	ND	ug/kg	72000					
1,1-Dichloroethane	ND	ug/kg	11000					
Chloroform	ND	ug/kg	11000					
Carbon tetrachloride	ND	ug/kg	7200					
1,2-Dichloropropane	ND	ug/kg	25000					
Dibromochloromethane	ND	ug/kg	7200					
1,1,2-Trichloroethane	ND	ug/kg	11000					
Tetrachloroethene	ND	ug/kg	7200					
Chlorobenzene	ND	ug/kg	7200					
Trichlorofluoromethane	ND	ug/kg	36000					
1,2-Dichloroethane	ND	ug/kg	7200					
1,1,1-Trichloroethane	ND	ug/kg	7200					
Bromodichloromethane	ND	ug/kg	7200					
trans-1,3-Dichloropropene	ND	ug/kg	7200					
cis-1,3-Dichloropropene	ND	ug/kg	7200					
1,1-Dichloropropene	ND	ug/kg	36000					
Bromoform	ND	ug/kg	7200					
1,1,2,2-Tetrachloroethane	ND	ug/kg	7200					
Benzene	180000	ug/kg	7200					
Toluene	380000	ug/kg	11000					
Ethylbenzene	20000	ug/kg	7200					
Chloromethane	ND	ug/kg	36000					
Bromomethane	ND	ug/kg	14000					
Vinyl chloride	ND	ug/kg	14000					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0207442-01
02B-B924 S7

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics 8260 via High 5035 continued				1	8260B		0730 20:00	BT
Chloroethane	ND	ug/kg	14000					
1,1-Dichloroethene	ND	ug/kg	7200					
trans-1,2-Dichloroethene	ND	ug/kg	11000					
Trichloroethene	ND	ug/kg	7200					
1,2-Dichlorobenzene	ND	ug/kg	36000					
1,3-Dichlorobenzene	ND	ug/kg	36000					
1,4-Dichlorobenzene	ND	ug/kg	36000					
Methyl tert butyl ether	ND	ug/kg	14000					
p/m-Xylene	120000	ug/kg	7200					
o-Xylene	23000	ug/kg	7200					
cis-1,2-Dichloroethene	ND	ug/kg	7200					
Dibromomethane	ND	ug/kg	72000					
1,4-Dichlorobutane	ND	ug/kg	72000					
Iodomethane	ND	ug/kg	72000					
1,2,3-Trichloropropane	ND	ug/kg	72000					
Styrene	160000	ug/kg	7200					
Dichlorodifluoromethane	ND	ug/kg	72000					
Acetone	ND	ug/kg	72000					
Carbon disulfide	ND	ug/kg	72000					
2-Butanone	ND	ug/kg	72000					
Vinyl acetate	ND	ug/kg	72000					
4-Methyl-2-pentanone	ND	ug/kg	72000					
2-Hexanone	ND	ug/kg	72000					
Ethyl methacrylate	ND	ug/kg	72000					
Acrolein	ND	ug/kg	180000					
Acrylonitrile	ND	ug/kg	72000					
Bromochloromethane	ND	ug/kg	36000					
Tetrahydrofuran	ND	ug/kg	140000					
2,2-Dichloropropane	ND	ug/kg	36000					
1,2-Dibromoethane	ND	ug/kg	36000					
1,3-Dichloropropane	ND	ug/kg	36000					
1,1,1,2-Tetrachloroethane	ND	ug/kg	7200					
Bromobenzene	ND	ug/kg	36000					
n-Butylbenzene	ND	ug/kg	7200					
sec-Butylbenzene	ND	ug/kg	7200					
tert-Butylbenzene	ND	ug/kg	36000					
o-Chlorotoluene	ND	ug/kg	36000					
p-Chlorotoluene	ND	ug/kg	36000					
1,2-Dibromo-3-chloropropane	ND	ug/kg	36000					
Hexachlorobutadiene	ND	ug/kg	36000					
Isopropylbenzene	ND	ug/kg	7200					
p-Isopropyltoluene	ND	ug/kg	7200					
Naphthalene	53000	ug/kg	36000					
n-Propylbenzene	ND	ug/kg	7200					
1,2,3-Trichlorobenzene	ND	ug/kg	36000					
1,2,4-Trichlorobenzene	ND	ug/kg	36000					
1,3,5-Trimethylbenzene	ND	ug/kg	36000					
1,2,4-Trimethylbenzene	ND	ug/kg	36000					
trans-1,4-Dichloro-2-butene	ND	ug/kg	36000					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0207442-01
02B-B924 S7

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics 8260 via High 5035 continued				1	8260B		0730 20:00	BT
Ethyl ether	ND	ug/kg	36000					
Surrogate Recovery								
1,2-Dichloroethane-d4	101.	%						
Toluene-d8	96.0	%						
4-Bromofluorobenzene	103.	%						
Dibromofluoromethane	91.0	%						
PNA's by GC/MS 8270				1	8270C	0730 15:15	0801 10:02	HL
Acenaphthene	ND	ug/kg	600					
2-Chloronaphthalene	ND	ug/kg	710					
Fluoranthene	ND	ug/kg	600					
Naphthalene	ND	ug/kg	600					
Benzo(a)anthracene	ND	ug/kg	600					
Benzo(a)pyrene	ND	ug/kg	600					
Benzo(b)fluoranthene	ND	ug/kg	600					
Benzo(k)fluoranthene	ND	ug/kg	600					
Chrysene	ND	ug/kg	600					
Acenaphthylene	ND	ug/kg	600					
Anthracene	ND	ug/kg	600					
Benzo(ghi)perylene	ND	ug/kg	600					
Fluorene	ND	ug/kg	600					
Phenanthrene	770	ug/kg	600					
Dibenzo(a,h)anthracene	ND	ug/kg	600					
Indeno(1,2,3-cd)pyrene	ND	ug/kg	600					
Pyrene	ND	ug/kg	600					
Benzo(e)pyrene	ND	ug/kg	600					
Biphenyl	ND	ug/kg	600					
Perylene	ND	ug/kg	600					
1-Methylnaphthalene	ND	ug/kg	600					
2-Methylnaphthalene	ND	ug/kg	950					
Surrogate Recovery								
Nitrobenzene-d5	45.0	%						
2-Fluorobiphenyl	50.0	%						
4-Terphenyl-d14	73.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0207442-02
02B-B924 S8
Sample Matrix: SOIL

Date Collected: 28-JUL-2002 10:00
Date Received : 29-JUL-2002
Date Reported : 05-AUG-2002

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Amber,1-Plastic,1-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Solids, Total	81.	%	0.10	30	2540G		0730 16:35	NL
Total Metals				1	3051			
Arsenic, Total	1.2	mg/kg	0.48	1	6010B	0730 15:30	0731 17:48	MG
Barium, Total	9.6	mg/kg	0.48	1	6010B	0730 15:30	0731 17:48	MG
Cadmium, Total	ND	mg/kg	0.48	1	6010B	0730 15:30	0731 17:48	MG
Chromium, Total	7.4	mg/kg	0.48	1	6010B	0730 15:30	0731 17:48	MG
Lead, Total	2.4	mg/kg	2.4	1	6010B	0730 15:30	0731 17:48	MG
Mercury, Total	ND	mg/kg	0.09	1	7471A	0801 18:55	0802 09:32	DM
Selenium, Total	ND	mg/kg	0.97	1	6010B	0730 15:30	0731 17:48	MG
Silver, Total	ND	mg/kg	0.48	1	6010B	0730 15:30	0731 17:48	MG
Volatile Organics 8260 via High 5035				1	8260B		0731 13:22	BT
Methylene chloride	ND	ug/kg	3600					
1,1-Dichloroethane	ND	ug/kg	530					
Chloroform	ND	ug/kg	530					
Carbon tetrachloride	ND	ug/kg	360					
1,2-Dichloropropane	ND	ug/kg	1200					
Dibromochloromethane	ND	ug/kg	360					
1,1,2-Trichloroethane	ND	ug/kg	530					
Tetrachloroethene	ND	ug/kg	360					
Chlorobenzene	ND	ug/kg	360					
Trichlorofluoromethane	ND	ug/kg	1800					
1,2-Dichloroethane	ND	ug/kg	360					
1,1,1-Trichloroethane	ND	ug/kg	360					
Bromodichloromethane	ND	ug/kg	360					
trans-1,3-Dichloropropene	ND	ug/kg	360					
cis-1,3-Dichloropropene	ND	ug/kg	360					
1,1-Dichloropropene	ND	ug/kg	1800					
Bromoform	ND	ug/kg	360					
1,1,2,2-Tetrachloroethane	ND	ug/kg	360					
Benzene	8200	ug/kg	360					
Toluene	29000	ug/kg	530					
Ethylbenzene	2300	ug/kg	360					
Chloromethane	ND	ug/kg	1800					
Bromomethane	ND	ug/kg	710					
Vinyl chloride	ND	ug/kg	710					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0207442-02
02B-B924 S8

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics 8260 via High 5035 continued				1 8260B		0731 13:22	BT
Chloroethane	ND	ug/kg	710				
1,1-Dichloroethene	ND	ug/kg	360				
trans-1,2-Dichloroethene	ND	ug/kg	530				
Trichloroethene	ND	ug/kg	360				
1,2-Dichlorobenzene	ND	ug/kg	1800				
1,3-Dichlorobenzene	ND	ug/kg	1800				
1,4-Dichlorobenzene	ND	ug/kg	1800				
Methyl tert butyl ether	ND	ug/kg	710				
p/m-Xylene	14000	ug/kg	360				
o-Xylene	3400	ug/kg	360				
cis-1,2-Dichloroethene	ND	ug/kg	360				
Dibromomethane	ND	ug/kg	3600				
1,4-Dichlorobutane	ND	ug/kg	3600				
Iodomethane	ND	ug/kg	3600				
1,2,3-Trichloropropane	ND	ug/kg	3600				
Styrene	18000	ug/kg	360				
Dichlorodifluoromethane	ND	ug/kg	3600				
Acetone	ND	ug/kg	3600				
Carbon disulfide	ND	ug/kg	3600				
2-Butanone	ND	ug/kg	3600				
Vinyl acetate	ND	ug/kg	3600				
4-Methyl-2-pentanone	ND	ug/kg	3600				
2-Hexanone	ND	ug/kg	3600				
Ethyl methacrylate	ND	ug/kg	3600				
Acrolein	ND	ug/kg	8900				
Acrylonitrile	ND	ug/kg	3600				
Bromochloromethane	ND	ug/kg	1800				
Tetrahydrofuran	ND	ug/kg	7100				
2,2-Dichloropropane	ND	ug/kg	1800				
1,2-Dibromoethane	ND	ug/kg	1800				
1,3-Dichloropropane	ND	ug/kg	1800				
1,1,1,2-Tetrachloroethane	ND	ug/kg	360				
Bromobenzene	ND	ug/kg	1800				
n-Butylbenzene	ND	ug/kg	360				
sec-Butylbenzene	ND	ug/kg	360				
tert-Butylbenzene	ND	ug/kg	1800				
o-Chlorotoluene	ND	ug/kg	1800				
p-Chlorotoluene	ND	ug/kg	1800				
1,2-Dibromo-3-chloropropane	ND	ug/kg	1800				
Hexachlorobutadiene	ND	ug/kg	1800				
Isopropylbenzene	ND	ug/kg	360				
p-Isopropyltoluene	ND	ug/kg	360				
Naphthalene	4900	ug/kg	1800				
n-Propylbenzene	ND	ug/kg	360				
1,2,3-Trichlorobenzene	ND	ug/kg	1800				
1,2,4-Trichlorobenzene	ND	ug/kg	1800				
1,3,5-Trimethylbenzene	ND	ug/kg	1800				
1,2,4-Trimethylbenzene	ND	ug/kg	1800				
trans-1,4-Dichloro-2-butene	ND	ug/kg	1800				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0207442-02
02B-B924 S8

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics 8260 via High 5035 continued				1	8260B		0731 13:22	BT
Ethyl ether	ND	ug/kg	1800					
Surrogate Recovery								
1,2-Dichloroethane-d4	99.0	%						
Toluene-d8	94.0	%						
4-Bromofluorobenzene	94.0	%						
Dibromofluoromethane	93.0	%						
PNA's by GC/MS 8270				1	8270C	0730 15:15	0801 10:56	NL
Acenaphthene	ND	ug/kg	620					
2-Chloronaphthalene	ND	ug/kg	740					
Fluoranthene	ND	ug/kg	620					
Naphthalene	ND	ug/kg	620					
Benzo(a)anthracene	ND	ug/kg	620					
Benzo(a)pyrene	ND	ug/kg	620					
Benzo(b)fluoranthene	ND	ug/kg	620					
Benzo(k)fluoranthene	ND	ug/kg	620					
Chrysene	ND	ug/kg	620					
Acenaphthylene	ND	ug/kg	620					
Anthracene	ND	ug/kg	620					
Benzo(ghi)perylene	ND	ug/kg	620					
Fluorene	ND	ug/kg	620					
Phenanthrene	ND	ug/kg	620					
Dibenzo(a,h)anthracene	ND	ug/kg	620					
Indeno(1,2,3-cd)pyrene	ND	ug/kg	620					
Pyrene	ND	ug/kg	620					
Benzo(e)pyrene	ND	ug/kg	620					
Biphenyl	ND	ug/kg	620					
Perylene	ND	ug/kg	620					
1-Methylnaphthalene	ND	ug/kg	620					
2-Methylnaphthalene	ND	ug/kg	990					
Surrogate Recovery								
Nitrobenzene-d5	48.0	%						
2-Fluorobiphenyl	52.0	%						
4-Terphenyl-d14	71.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0207442

Parameter	Value 1	Value 2	RPD	Units
Solids, Total for sample(s) 01-02 (L0207454-01, WG118776)				
Solids, Total	91.	91.	0	%
Total Metals for sample(s) 01-02 (L0207442-01, WG118828)				
Arsenic, Total	1.4	1.5	7	mg/kg
Barium, Total	12.	14.	15	mg/kg
Cadmium, Total	ND	ND	NC	mg/kg
Chromium, Total	8.2	10.	20	mg/kg
Lead, Total	2.9	3.3	13	mg/kg
Selenium, Total	ND	ND	NC	mg/kg
Silver, Total	ND	ND	NC	mg/kg
Total Metals for sample(s) 01-02 (L0207443-01, WG119021)				
Mercury, Total	ND	ND	NC	mg/kg

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0207442

Parameter	% Recovery
Total Metals LCS for sample(s) 01-02 (WG118828)	
Arsenic, Total	103
Barium, Total	95
Cadmium, Total	99
Chromium, Total	96
Lead, Total	99
Selenium, Total	103
Silver, Total	93
Total Metals LCS for sample(s) 01-02 (WG119021)	
Mercury, Total	125
Volatile Organics 8260 via High 5035 LCS for sample(s) 02 (WG119072)	
Chlorobenzene	95
Benzene	102
Toluene	99
1,1-Dichloroethene	97
Trichloroethene	101
Surrogate Recovery	
1,2-Dichloroethane-d4	108
Toluene-d8	102
4-Bromofluorobenzene	101
Dibromofluoromethane	103
Volatile Organics 8260 via High 5035 LCS for sample(s) 01 (WG118724)	
Chlorobenzene	97
Benzene	99
Toluene	98
1,1-Dichloroethene	82
Trichloroethene	101
Surrogate Recovery	
1,2-Dichloroethane-d4	106
Toluene-d8	105
4-Bromofluorobenzene	103
Dibromofluoromethane	102
PNA's by GC/MS 8270 LCS for sample(s) 01-02 (WG118802)	
Acenaphthene	46
1,2,4-Trichlorobenzene	37
2-Chloronaphthalene	43
1,2-Dichlorobenzene	36
1,4-Dichlorobenzene	36
2,4-Dinitrotoluene	200
2,6-Dinitrotoluene	91
Fluoranthene	93
4-Chlorophenyl phenyl ether	56
n-Nitrosodi-n-propylamine	37

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0207442

Continued

Parameter	% Recovery
PNA's by GC/MS 8270 LCS for sample(s) 01-02 (WG118802)	
Butyl benzyl phthalate	100
Anthracene	81
Pyrene	95
Hexachloropropene	41
P-Chloro-M-Cresol	51
2-Chlorophenol	35
2-Nitrophenol	38
4-Nitrophenol	24
2,4-Dinitrophenol	54
Pentachlorophenol	79
Phenol	34
Surrogate Recovery	
2-Fluorophenol	33
Phenol-d6	35
Nitrobenzene-d5	40
2-Fluorobiphenyl	40
2,4,6-Tribromophenol	81
4-Terphenyl-d14	80
Total Metals SPIKE for sample(s) 01-02 (L0207442-02, WG118828)	
Arsenic, Total	97
Barium, Total	93
Cadmium, Total	96
Chromium, Total	88
Lead, Total	99
Selenium, Total	102
Silver, Total	96
Total Metals SPIKE for sample(s) 01-02 (L0207443-03, WG119021)	
Mercury, Total	130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0207442

Parameter	MS %	MSD %	RPD
Volatile Organics 8260 via High 5035 for sample(s) 01 (L0207285-01, WG118724)			
Chlorobenzene	98	98	0
Benzene	100	95	5
Toluene	98	97	1
1,1-Dichloroethene	79	74	7
Trichloroethene	92	92	0
Volatile Organics 8260 via High 5035 for sample(s) 02 (L0207515-01, WG119072)			
Chlorobenzene	90	92	2
Benzene	100	100	0
Toluene	98	97	1
1,1-Dichloroethene	75	73	3
Trichloroethene	93	94	1
PNA's by GC/MS 8270 for sample(s) 01-02 (L0207410-37, WG118802)			
Acenaphthene	78	78	0
1,2,4-Trichlorobenzene	60	55	9
2-Chloronaphthalene	78	78	0
1,2-Dichlorobenzene	51	47	8
1,4-Dichlorobenzene	51	46	10
2,4-Dinitrotoluene	210	210	0
2,6-Dinitrotoluene	120	120	0
Fluoranthene	91	91	0
4-Chlorophenyl phenyl ether	91	91	0
n-Nitrosodi-n-propylamine	60	55	9
Butyl benzyl phthalate	100	100	0
Anthracene	85	85	0
Pyrene	85	91	7
Hexachloropropene	63	54	15
P-Chloro-M-Cresol	91	94	3
2-Chlorophenol	59	52	13
2-Nitrophenol	62	55	12
4-Nitrophenol	26	25	4
2,4-Dinitrophenol	39	39	0
Pentachlorophenol	75	72	4
Phenol	62	55	12

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0207442

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-02								
Total Metals				1	3051			
Arsenic, Total	ND	mg/kg	0.40	1	6010B	0730 15:30	0731 17:28	MG
Barium, Total	ND	mg/kg	0.40	1	6010B	0730 15:30	0731 17:28	MG
Cadmium, Total	ND	mg/kg	0.40	1	6010B	0730 15:30	0731 17:28	MG
Chromium, Total	ND	mg/kg	0.40	1	6010B	0730 15:30	0731 17:28	MG
Lead, Total	ND	mg/kg	2.0	1	6010B	0730 15:30	0731 17:28	MG
Selenium, Total	ND	mg/kg	0.80	1	6010B	0730 15:30	0731 17:28	MG
Silver, Total	ND	mg/kg	0.40	1	6010B	0730 15:30	0731 17:28	MG
Blank Analysis for sample(s) 01-02								
Total Metals								
Mercury, Total	ND	mg/kg	0.08	1	7471A	0801 18:55	0802 09:32	DM
Blank Analysis for sample(s) 01								
Volatile Organics 8260 via High 5035				1	8260B		0730 10:15	BT
Methylene chloride	ND	ug/kg	500					
1,1-Dichloroethane	ND	ug/kg	75.					
Chloroform	ND	ug/kg	75.					
Carbon tetrachloride	ND	ug/kg	50.					
1,2-Dichloropropane	ND	ug/kg	180					
Dibromochloromethane	ND	ug/kg	50.					
1,1,2-Trichloroethane	ND	ug/kg	75.					
Tetrachloroethene	ND	ug/kg	50.					
Chlorobenzene	ND	ug/kg	50.					
Trichlorofluoromethane	ND	ug/kg	250					
1,2-Dichloroethane	ND	ug/kg	50.					
1,1,1-Trichloroethane	ND	ug/kg	50.					
Bromodichloromethane	ND	ug/kg	50.					
trans-1,3-Dichloropropene	ND	ug/kg	50.					
cis-1,3-Dichloropropene	ND	ug/kg	50.					
1,1-Dichloropropene	ND	ug/kg	250					
Bromoform	ND	ug/kg	50.					
1,1,2,2-Tetrachloroethane	ND	ug/kg	50.					
Benzene	ND	ug/kg	50.					
Toluene	ND	ug/kg	75.					
Ethylbenzene	ND	ug/kg	50.					
Chloromethane	ND	ug/kg	250					
Bromomethane	ND	ug/kg	100					
Vinyl chloride	ND	ug/kg	100					
Chloroethane	ND	ug/kg	100					
1,1-Dichloroethene	ND	ug/kg	50.					
trans-1,2-Dichloroethene	ND	ug/kg	75.					
Trichloroethene	ND	ug/kg	50.					
1,2-Dichlorobenzene	ND	ug/kg	250					
1,3-Dichlorobenzene	ND	ug/kg	250					
1,4-Dichlorobenzene	ND	ug/kg	250					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0207442

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01								
Volatile Organics 8260 via High 5035 continued				1	8260B		0730 10:15	BT
Methyl tert butyl ether	ND	ug/kg	100					
p/m-Xylene	ND	ug/kg	50.					
o-Xylene	ND	ug/kg	50.					
cis-1,2-Dichloroethene	ND	ug/kg	50.					
Dibromomethane	ND	ug/kg	500					
1,4-Dichlorobutane	ND	ug/kg	500					
Iodomethane	ND	ug/kg	500					
1,2,3-Trichloropropane	ND	ug/kg	500					
Styrene	ND	ug/kg	50.					
Dichlorodifluoromethane	ND	ug/kg	500					
Acetone	ND	ug/kg	500					
Carbon disulfide	ND	ug/kg	500					
2-Butanone	ND	ug/kg	500					
Vinyl acetate	ND	ug/kg	500					
4-Methyl-2-pentanone	ND	ug/kg	500					
2-Hexanone	ND	ug/kg	500					
Ethyl methacrylate	ND	ug/kg	500					
Acrolein	ND	ug/kg	1200					
Acrylonitrile	ND	ug/kg	500					
Bromochloromethane	ND	ug/kg	250					
Tetrahydrofuran	ND	ug/kg	1000					
2,2-Dichloropropane	ND	ug/kg	250					
1,2-Dibromoethane	ND	ug/kg	250					
1,3-Dichloropropane	ND	ug/kg	250					
1,1,1,2-Tetrachloroethane	ND	ug/kg	50.					
Bromobenzene	ND	ug/kg	250					
n-Butylbenzene	ND	ug/kg	50.					
sec-Butylbenzene	ND	ug/kg	50.					
tert-Butylbenzene	ND	ug/kg	250					
o-Chlorotoluene	ND	ug/kg	250					
p-Chlorotoluene	ND	ug/kg	250					
1,2-Dibromo-3-chloropropane	ND	ug/kg	250					
Hexachlorobutadiene	ND	ug/kg	250					
Isopropylbenzene	ND	ug/kg	50.					
p-Isopropyltoluene	ND	ug/kg	50.					
Naphthalene	ND	ug/kg	250					
n-Propylbenzene	ND	ug/kg	50.					
1,2,3-Trichlorobenzene	ND	ug/kg	250					
1,2,4-Trichlorobenzene	ND	ug/kg	250					
1,3,5-Trimethylbenzene	ND	ug/kg	250					
1,2,4-Trimethylbenzene	ND	ug/kg	250					
trans-1,4-Dichloro-2-butene	ND	ug/kg	250					
Ethyl ether	ND	ug/kg	250					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0207442

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01								
Volatile Organics 8260 via High 5035 continued				1	8260B		0730 10:15	BT
Surrogate Recovery								
1,2-Dichloroethane-d4	98.0	%						
Toluene-d8	98.0	%						
4-Bromofluorobenzene	100.	%						
Dibromofluoromethane	97.0	%						
Blank Analysis for sample(s) 02								
Volatile Organics 8260 via High 5035				1	8260B		0731 10:21	BT
Methylene chloride	ND	ug/kg	500					
1,1-Dichloroethane	ND	ug/kg	75.					
Chloroform	ND	ug/kg	75.					
Carbon tetrachloride	ND	ug/kg	50.					
1,2-Dichloropropane	ND	ug/kg	180					
Dibromochloromethane	ND	ug/kg	50.					
1,1,2-Trichloroethane	ND	ug/kg	75.					
Tetrachloroethene	ND	ug/kg	50.					
Chlorobenzene	ND	ug/kg	50.					
Trichlorofluoromethane	ND	ug/kg	250					
1,2-Dichloroethane	ND	ug/kg	50.					
1,1,1-Trichloroethane	ND	ug/kg	50.					
Bromodichloromethane	ND	ug/kg	50.					
trans-1,3-Dichloropropene	ND	ug/kg	50.					
cis-1,3-Dichloropropene	ND	ug/kg	50.					
1,1-Dichloropropene	ND	ug/kg	250					
Bromoform	ND	ug/kg	50.					
1,1,2,2-Tetrachloroethane	ND	ug/kg	50.					
Benzene	ND	ug/kg	50.					
Toluene	ND	ug/kg	75.					
Ethylbenzene	ND	ug/kg	50.					
Chloromethane	ND	ug/kg	250					
Bromomethane	ND	ug/kg	100					
Vinyl chloride	ND	ug/kg	100					
Chloroethane	ND	ug/kg	100					
1,1-Dichloroethene	ND	ug/kg	50.					
trans-1,2-Dichloroethene	ND	ug/kg	75.					
Trichloroethene	ND	ug/kg	50.					
1,2-Dichlorobenzene	ND	ug/kg	250					
1,3-Dichlorobenzene	ND	ug/kg	250					
1,4-Dichlorobenzene	ND	ug/kg	250					
Methyl tert butyl ether	ND	ug/kg	100					
p/m-Xylene	ND	ug/kg	50.					
o-Xylene	ND	ug/kg	50.					
cis-1,2-Dichloroethene	ND	ug/kg	50.					
Dibromomethane	ND	ug/kg	500					
1,4-Dichlorobutane	ND	ug/kg	500					
Iodomethane	ND	ug/kg	500					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0207442

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 02								
Volatile Organics 8260 via High 5035 continued				1	8260B		0731 10:21	BT
1,2,3-Trichloropropane	ND	ug/kg	500					
Styrene	ND	ug/kg	50.					
Dichlorodifluoromethane	ND	ug/kg	500					
Acetone	ND	ug/kg	500					
Carbon disulfide	ND	ug/kg	500					
2-Butanone	ND	ug/kg	500					
Vinyl acetate	ND	ug/kg	500					
4-Methyl-2-pentanone	ND	ug/kg	500					
2-Hexanone	ND	ug/kg	500					
Ethyl methacrylate	ND	ug/kg	500					
Acrolein	ND	ug/kg	1200					
Acrylonitrile	ND	ug/kg	500					
Bromochloromethane	ND	ug/kg	250					
Tetrahydrofuran	ND	ug/kg	1000					
2,2-Dichloropropane	ND	ug/kg	250					
1,2-Dibromoethane	ND	ug/kg	250					
1,3-Dichloropropane	ND	ug/kg	250					
1,1,1,2-Tetrachloroethane	ND	ug/kg	50.					
Bromobenzene	ND	ug/kg	250					
n-Butylbenzene	ND	ug/kg	50.					
sec-Butylbenzene	ND	ug/kg	50.					
tert-Butylbenzene	ND	ug/kg	250					
o-Chlorotoluene	ND	ug/kg	250					
p-Chlorotoluene	ND	ug/kg	250					
1,2-Dibromo-3-chloropropane	ND	ug/kg	250					
Hexachlorobutadiene	ND	ug/kg	250					
Isopropylbenzene	ND	ug/kg	50.					
p-Isopropyltoluene	ND	ug/kg	50.					
Naphthalene	ND	ug/kg	250					
n-Propylbenzene	ND	ug/kg	50.					
1,2,3-Trichlorobenzene	ND	ug/kg	250					
1,2,4-Trichlorobenzene	ND	ug/kg	250					
1,3,5-Trimethylbenzene	ND	ug/kg	250					
1,2,4-Trimethylbenzene	ND	ug/kg	250					
trans-1,4-Dichloro-2-butene	ND	ug/kg	250					
Ethyl ether	ND	ug/kg	250					
Surrogate Recovery								
1,2-Dichloroethane-d4	107.	%						
Toluene-d8	97.0	%						
4-Bromofluorobenzene	99.0	%						
Dibromofluoromethane	105.	%						
Blank Analysis for sample(s) 01-02								
PNA's by GC/MS 8270				1	8270C	0730 15:15	0731 22:32	HL
Acenaphthene	ND	ug/kg	500					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0207442

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-02							
PNA's by GC/MS 8270 continued				1 8270C	0730 15:15	0731 22:32	HL
Hexachlorobenzene	ND	ug/kg	500				
2-Chloronaphthalene	ND	ug/kg	600				
Fluoranthene	ND	ug/kg	500				
Naphthalene	ND	ug/kg	500				
Benzo(a)anthracene	ND	ug/kg	500				
Benzo(a)pyrene	ND	ug/kg	500				
Benzo(b)fluoranthene	ND	ug/kg	500				
Benzo(k)fluoranthene	ND	ug/kg	500				
Chrysene	ND	ug/kg	500				
Acenaphthylene	ND	ug/kg	500				
Anthracene	ND	ug/kg	500				
Benzo(ghi)perylene	ND	ug/kg	500				
Fluorene	ND	ug/kg	500				
Phenanthrene	ND	ug/kg	500				
Dibenzo(a,h)anthracene	ND	ug/kg	500				
Indeno(1,2,3-cd)pyrene	ND	ug/kg	500				
Pyrene	ND	ug/kg	500				
Benzo(e)pyrene	ND	ug/kg	500				
Biphenyl	ND	ug/kg	500				
Perylene	ND	ug/kg	500				
1-Methylnaphthalene	ND	ug/kg	500				
2-Methylnaphthalene	ND	ug/kg	800				
Pentachlorophenol	ND	ug/kg	2000				
Surrogate Recovery							
Nitrobenzene-d5	55.0	%					
2-Fluorobiphenyl	58.0	%					
4-Terphenyl-d14	78.0	%					

REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Update III, 1997.

30. Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

GLOSSARY OF TERMS AND SYMBOLS

REF Reference number in which test method may be found.
METHOD Method number by which analysis was performed.
ID Initials of the analyst.

Please note that all solid samples are reported on dry weight basis unless noted otherwise.

LIMITATION OF LIABILITIES

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.

Quality Control Acceptance Criteria

Volatile Organics by Method 8260B

surrogate spike % recovery	AQ Limits		Soil Limits	
	LCL	UCL	LCL	UCL
1,2-Dichloroethane-d_4	75%	125%	75%	125%
4-Bromofluorobenzene	75%	125%	75%	125%
Toluene-d_8	75%	125%	75%	125%
Dibromofluoromethane	75%	125%	75%	125%

matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	percent recovery				duplicate and/or MSD	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
1,1-Dichloroethene	61%	145%	59%	172%	all target compounds	
Trichloroethene	71%	120%	62%	137%	20%	30%
Chlorobenzene	75%	130%	60%	133%		
Benzene	76%	127%	66%	142%		
Toluene	76%	125%	59%	139%		

Volatile Organics by Method 8021B

surrogate spike % recovery	AQ Limits		Soil Limits	
	LCL	UCL	LCL	UCL
4-Bromochlorobenzene	70%	110%	70%	120%
4-Bromofluorobenzene	70%	110%	70%	120%

matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	percent recovery				duplicate and/or MSD	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
1,1-Dichloroethene	70%	130%	70%	130%	all target compounds	
Trichloroethene	70%	130%	70%	130%	20%	30%
Chlorobenzene	70%	130%	70%	130%		
Benzene	70%	130%	70%	130%		
Toluene	70%	130%	70%	130%		
Ethylbenzene	70%	130%	70%	130%		

Semi-Volatile Organics by Method 8270C (includes PAHs)

surrogate spike % recovery	AQ Limits		Soil Limits	
	LCL	UCL	LCL	UCL
Nitrobenzene-d_5	23%	120%	23%	120%
Phenol-d_6	10%	120%	10%	120%
2-Fluorophenol	21%	120%	25%	120%
2-Fluorobiphenyl	43%	120%	30%	120%
p-Terphenyl-d_{14}	33%	120%	18%	120%
2,4,6-Tribromophenol	10%	120%	19%	120%

matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	percent recovery				duplicate and/or MSD	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
1,2,4-Trichlorobenzene	39%	98%	38%	107%	all target compounds	
Acenaphthene	46%	118%	31%	137%	40%	50%
2,4-Dinitrotoluene	24%	96%	28%	89%		
Pyrene	26%	127%	35%	142%		
N-Nitroso-di-n-propylamine	41%	116%	41%	126%		
1,4-Dichlorobenzene	36%	97%	28%	104%		
Pentachlorophenol	9%	103%	17%	109%		
Phenol	12%	110%	26%	90%		
2-Chlorophenol	27%	123%	25%	102%		
4-Chloro-3-methylphenol	23%	97%	26%	103%		
4-Nitrophenol	10%	80%	11%	114%		

Quality Control Acceptance Criteria

PCB/Pesticides by Method 8082/8081

surrogate spike % recovery	AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL		
2,4,5,6-Tetrachloro-m-xylene	40%	120%	40%	120%		
Decachlorobiphenyl	30%	150%	30%	150%		
matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	**percent recovery AQ Limits LCL**	**AQ Limits UCL**	**Soil Limits LCL**	**Soil Limits UCL**	**duplicate and/or MSD AQ Limits RPD**	**Soil Limits RPD**
Lindane	56%	123%	46%	127%	all target compounds	
Heptachlor	40%	131%	35%	130%	30%	50%
Aldrin	40%	120%	34%	132%		
Dieldrin	52%	126%	31%	134%		
Endrin	56%	121%	42%	139%		
4,4'-DDT	38%	127%	23%	134%		
Aroclor 1242/1016	40%	140%	40%	140%		
Aroclor 1260	40%	140%	40%	140%		

Volatile Petroleum Hydrocarbons (VPH) by MA DEP 98-1

surrogate spike % recovery	AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL		
2,5-Dibromotoluene	70%	130%	70%	130%		
laboratory control sample (LCS)	**percent recovery AQ Limits LCL**	**AQ Limits UCL**	**Soil Limits LCL**	**Soil Limits UCL**	**duplicate AQ Limits RPD**	**Soil Limits RPD**
all compounds	70%	130%	70%	130%	50%	50%

Extractable Petroleum Hydrocarbons (EPH) by MA DEP 98-1

surrogate spike % recovery	AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL		
Chloro-octadecane	40%	140%	40%	140%		
ortho-Terphenyl	40%	140%	40%	140%		
2-Fluorobiphenyl (fractionation)	40%	140%	40%	140%		
2-Bromonaphthalene (fractionation)	40%	140%	40%	140%		
laboratory control sample (LCS)	**percent recovery AQ Limits LCL**	**AQ Limits UCL**	**Soil Limits LCL**	**Soil Limits UCL**	**duplicate AQ Limits RPD**	**Soil Limits RPD**
all compounds	40%	140%	40%	140%	50%	50%

TPH (GC-FID) by Method 8100M

surrogate spike % recovery	AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL	duplicate AQ Limits RPD	duplicate Soil Limits RPD
ortho-Terphenyl	40%	140%	40%	140%	40%	40%

TPH by Method 418.1

matrix spike (MS) & laboratory control sample (LCS)	percent recovery AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL	duplicate AQ Limits RPD	duplicate Soil Limits RPD
TPH	60%	140%	60%	140%	40%	40%

ALPHA ANALYTICAL LABORATORIES

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MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

Client: Haley & Aldrich, Inc.

Address: 465 Medford Street, Suite 2200
Boston, MA 02129-1400

Attn: Mr. Steve Provencal

Project Number: 06558-631

Site: MALDEN MGP

Laboratory Job Number: L0207440

Invoice Number: 66501

Date Received: 29-JUL-02

Date Reported: 05-AUG-02

Delivery Method: Alpha

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0207440-01	02B-B923-OW	
L0207440-02	02B-B922-OW	
L0207440-03	02B-B918-OW	
L0207440-04	02B-AA-DUP	

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by: James R. Roth, PhD

James R. Roth, PhD - Technical Director
This document electronically signed

ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT

Laboratory Job Number: L0207440

Alpha Report L0207440:

Sample Receipt

The requested analyses of Nitrate and Nitrite were performed as combined Nitrate/Nitrite at the client's authorization.

Volatile Organics

Alpha Samples L0207440-01 through -04 have elevated limits of detection due to the dilutions required by the elevated concentrations of target compounds in the samples.

Polynuclear Aromatic Hydrocarbons

Alpha Samples L0207440-01 through -04 have elevated limits of detection due to the dilutions required by the matrix of the samples.

No surrogates could be recovered on Alpha Samples L0207440-01 and -02 due to sample matrix. The surrogates were diluted out in order to quantitate the samples.

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0207440-01
02B-B923-OW
Sample Matrix: WATER

Date Collected: 27-JUL-2002 11:40
Date Received : 29-JUL-2002
Date Reported : 05-AUG-2002

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,5-Plastic,3-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Alkalinity, Total	96.	mg CaCO3/L	2.0	30	2320B		0801 20:48	DP
Cyanide, Total	0.923	mg/l	0.100	1	9010B	0730 13:56	0730 16:30	ED
Cyanide, Physiologically Available	0.190	mg/l	0.005	45		0730 20:08	0801 11:16	ED
Nitrogen, Nitrate/Nitrite	11.	mg/l	0.50	30	4500NO3-F		0730 22:45	DD
Nitrogen, Total Kjeldahl	ND	mg/l	0.15	30	4500N-C	0801 19:00	0802 13:51	ED
Sulfate	75.	mg/l	20.	1	9038		0801 23:00	JT
Total Metals				1	3015			
Arsenic, Total	ND	mg/l	0.005	1	6010B	0730 10:30	0731 15:13	RW
Barium, Total	0.04	mg/l	0.01	1	6010B	0730 10:30	0731 15:13	RW
Cadmium, Total	ND	mg/l	0.005	1	6010B	0730 10:30	0731 15:13	RW
Chromium, Total	ND	mg/l	0.01	1	6010B	0730 10:30	0731 15:13	RW
Lead, Total	ND	mg/l	0.050	1	6010B	0730 10:30	0731 15:13	RW
Mercury, Total	ND	mg/l	0.0005	1	7470A	0730 14:00	0731 12:39	DM
Selenium, Total	ND	mg/l	0.005	1	6010B	0730 10:30	0731 15:13	RW
Silver, Total	ND	mg/l	0.007	1	6010B	0730 10:30	0731 15:13	RW
Volatile Organics by GC/MS 8260				1	8260B		0730 12:48	BT
Methylene chloride	ND	ug/l	500					
1,1-Dichloroethane	ND	ug/l	75.					
Chloroform	ND	ug/l	75.					
Carbon tetrachloride	ND	ug/l	50.					
1,2-Dichloropropane	ND	ug/l	180					
Dibromochloromethane	ND	ug/l	50.					
1,1,2-Trichloroethane	ND	ug/l	75.					
Tetrachloroethene	ND	ug/l	50.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0207440-01
02B-B923-OW

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1 8260B		0730 12:48	BT
Chlorobenzene	ND	ug/l	50.				
Trichlorofluoromethane	ND	ug/l	250				
1,2-Dichloroethane	ND	ug/l	50.				
1,1,1-Trichloroethane	ND	ug/l	50.				
Bromodichloromethane	ND	ug/l	50.				
trans-1,3-Dichloropropene	ND	ug/l	50.				
cis-1,3-Dichloropropene	ND	ug/l	50.				
1,1-Dichloropropene	ND	ug/l	250				
Bromoform	ND	ug/l	50.				
1,1,2,2-Tetrachloroethane	ND	ug/l	50.				
Benzene	370	ug/l	50.				
Toluene	110	ug/l	75.				
Ethylbenzene	130	ug/l	50.				
Chloromethane	ND	ug/l	250				
Bromomethane	ND	ug/l	100				
Vinyl chloride	ND	ug/l	100				
Chloroethane	ND	ug/l	100				
1,1-Dichloroethene	ND	ug/l	50.				
trans-1,2-Dichloroethene	ND	ug/l	75.				
Trichloroethene	ND	ug/l	50.				
1,2-Dichlorobenzene	ND	ug/l	250				
1,3-Dichlorobenzene	ND	ug/l	250				
1,4-Dichlorobenzene	ND	ug/l	250				
Methyl tert butyl ether	ND	ug/l	100				
p/m-Xylene	330	ug/l	50.				
o-Xylene	180	ug/l	50.				
cis-1,2-Dichloroethene	ND	ug/l	50.				
Dibromomethane	ND	ug/l	500				
1,4-Dichlorobutane	ND	ug/l	500				
Iodomethane	ND	ug/l	500				
1,2,3-Trichloropropane	ND	ug/l	500				
Styrene	ND	ug/l	50.				
Dichlorodifluoromethane	ND	ug/l	500				
Acetone	ND	ug/l	500				
Carbon disulfide	ND	ug/l	500				
2-Butanone	ND	ug/l	500				
Vinyl acetate	ND	ug/l	500				
4-Methyl-2-pentanone	ND	ug/l	500				
2-Hexanone	ND	ug/l	500				
Ethyl methacrylate	ND	ug/l	500				
Acrolein	ND	ug/l	1200				
Acrylonitrile	ND	ug/l	500				
Bromochloromethane	ND	ug/l	250				
Tetrahydrofuran	ND	ug/l	1000				
2,2-Dichloropropane	ND	ug/l	250				
1,2-Dibromoethane	ND	ug/l	250				
1,3-Dichloropropane	ND	ug/l	250				
1,1,1,2-Tetrachloroethane	ND	ug/l	50.				
Bromobenzene	ND	ug/l	250				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0207440-01
02B-B923-OW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		0730 12:48	BT
n-Butylbenzene	ND	ug/l	50.					
sec-Butylbenzene	ND	ug/l	50.					
tert-Butylbenzene	ND	ug/l	250					
o-Chlorotoluene	ND	ug/l	250					
p-Chlorotoluene	ND	ug/l	250					
1,2-Dibromo-3-chloropropane	ND	ug/l	250					
Hexachlorobutadiene	ND	ug/l	250					
Isopropylbenzene	ND	ug/l	50.					
p-Isopropyltoluene	ND	ug/l	50.					
Naphthalene	3600	ug/l	250					
n-Propylbenzene	ND	ug/l	50.					
1,2,3-Trichlorobenzene	ND	ug/l	250					
1,2,4-Trichlorobenzene	ND	ug/l	250					
1,3,5-Trimethylbenzene	ND	ug/l	250					
1,2,4-Trimethylbenzene	ND	ug/l	250					
trans-1,4-Dichloro-2-butene	ND	ug/l	250					
Ethyl ether	ND	ug/l	250					
Surrogate Recovery								
1,2-Dichloroethane-d4	111.	%						
Toluene-d8	105.	%						
4-Bromofluorobenzene	94.0	%						
Dibromofluoromethane	103.	%						
PNA's by GC/MS 8270				1	8270C	0730 09:40	0801 12:37	ML
Acenaphthene	ND	ug/l	100					
2-Chloronaphthalene	ND	ug/l	120					
Fluoranthene	ND	ug/l	100					
Naphthalene	1900	ug/l	100					
Benzo(a)anthracene	ND	ug/l	100					
Benzo(a)pyrene	ND	ug/l	100					
Benzo(b)fluoranthene	ND	ug/l	100					
Benzo(k)fluoranthene	ND	ug/l	100					
Chrysene	ND	ug/l	100					
Acenaphthylene	ND	ug/l	100					
Anthracene	ND	ug/l	100					
Benzo(ghi)perylene	ND	ug/l	100					
Fluorene	ND	ug/l	100					
Phenanthrene	ND	ug/l	100					
Dibenzo(a,h)anthracene	ND	ug/l	100					
Indeno(1,2,3-cd)pyrene	ND	ug/l	140					
Pyrene	ND	ug/l	100					
Benzo(e)pyrene	ND	ug/l	100					
Biphenyl	ND	ug/l	100					
Perylene	ND	ug/l	100					
1-Methylnaphthalene	220	ug/l	100					
2-Methylnaphthalene	230	ug/l	160					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0207440-01
02B-B923-OW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
PNA's by GC/MS 8270 continued				1	8270C	0730 09:40	0801 12:37	HL
Surrogate Recovery								
Nitrobenzene-d5	ND	%						
2-Fluorobiphenyl	ND	%						
4-Terphenyl-d14	ND	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0207440-02
02B-B922-OW
Sample Matrix: WATER

Date Collected: 27-JUL-2002 14:30
Date Received : 29-JUL-2002
Date Reported : 05-AUG-2002

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,6-Plastic,3-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Alkalinity, Total	68.	mg CaCO3/L	2.0	30	2320B		0801 20:48	DP
Cyanide, Total	0.328	mg/l	0.005	1	9010B	0730 13:56	0730 16:30	ED
Cyanide, Physiologically Available	0.032	mg/l	0.005	45		0730 20:08	0801 11:18	ED
Nitrogen, Nitrate/Nitrite	0.15	mg/l	0.10	30	4500NO3-F		0730 22:46	DD
Nitrogen, Total Kjeldahl	5.3	mg/l	0.15	30	4500N-C	0801 19:00	0802 13:52	ED
Sulfate	1100	mg/l	500	1	9038		0801 23:00	JT
Total Metals				1	3015			
Arsenic, Total	ND	mg/l	0.005	1	6010B	0730 10:30	0731 15:17	RW
Barium, Total	0.11	mg/l	0.01	1	6010B	0730 10:30	0731 15:17	RW
Cadmium, Total	ND	mg/l	0.005	1	6010B	0730 10:30	0731 15:17	RW
Chromium, Total	ND	mg/l	0.01	1	6010B	0730 10:30	0731 15:17	RW
Iron, Total	170	mg/l	0.05	1	6010B	0730 10:30	0731 15:17	RW
Lead, Total	ND	mg/l	0.050	1	6010B	0730 10:30	0731 15:17	RW
Mercury, Total	ND	mg/l	0.0005	1	7470A	0730 14:00	0731 12:41	DM
Selenium, Total	ND	mg/l	0.005	1	6010B	0730 10:30	0731 15:17	RW
Silver, Total	ND	mg/l	0.007	1	6010B	0730 10:30	0731 15:17	RW
Volatile Organics by GC/MS 8260				1	8260B		0730 13:26	BT
Methylene chloride	ND	ug/l	5000					
1,1-Dichloroethane	ND	ug/l	750					
Chloroform	ND	ug/l	750					
Carbon tetrachloride	ND	ug/l	500					
1,2-Dichloropropane	ND	ug/l	1800					
Dibromochloromethane	ND	ug/l	500					
1,1,2-Trichloroethane	ND	ug/l	750					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0207440-02
02B-B922-OW

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1 8260B		0730 13:26	BT
Tetrachloroethene	ND	ug/l	500				
Chlorobenzene	ND	ug/l	500				
Trichlorofluoromethane	ND	ug/l	2500				
1,2-Dichloroethane	ND	ug/l	500				
1,1,1-Trichloroethane	ND	ug/l	500				
Bromodichloromethane	ND	ug/l	500				
trans-1,3-Dichloropropene	ND	ug/l	500				
cis-1,3-Dichloropropene	ND	ug/l	500				
1,1-Dichloropropene	ND	ug/l	2500				
Bromoform	ND	ug/l	500				
1,1,2,2-Tetrachloroethane	ND	ug/l	500				
Benzene	6500	ug/l	500				
Toluene	54000	ug/l	750				
Ethylbenzene	7400	ug/l	500				
Chloromethane	ND	ug/l	2500				
Bromomethane	ND	ug/l	1000				
Vinyl chloride	ND	ug/l	1000				
Chloroethane	ND	ug/l	1000				
1,1-Dichloroethene	ND	ug/l	500				
trans-1,2-Dichloroethene	ND	ug/l	750				
Trichloroethene	ND	ug/l	500				
1,2-Dichlorobenzene	ND	ug/l	2500				
1,3-Dichlorobenzene	ND	ug/l	2500				
1,4-Dichlorobenzene	ND	ug/l	2500				
Methyl tert butyl ether	ND	ug/l	1000				
p/m-Xylene	7800	ug/l	500				
o-Xylene	3000	ug/l	500				
cis-1,2-Dichloroethene	ND	ug/l	500				
Dibromomethane	ND	ug/l	5000				
1,4-Dichlorobutane	ND	ug/l	5000				
Iodomethane	ND	ug/l	5000				
1,2,3-Trichloropropane	ND	ug/l	5000				
Styrene	2700	ug/l	500				
Dichlorodifluoromethane	ND	ug/l	5000				
Acetone	ND	ug/l	5000				
Carbon disulfide	ND	ug/l	5000				
2-Butanone	ND	ug/l	5000				
Vinyl acetate	ND	ug/l	5000				
4-Methyl-2-pentanone	ND	ug/l	5000				
2-Hexanone	ND	ug/l	5000				
Ethyl methacrylate	ND	ug/l	5000				
Acrolein	ND	ug/l	12000				
Acrylonitrile	ND	ug/l	5000				
Bromochloromethane	ND	ug/l	2500				
Tetrahydrofuran	ND	ug/l	10000				
2,2-Dichloropropane	ND	ug/l	2500				
1,2-Dibromoethane	ND	ug/l	2500				
1,3-Dichloropropane	ND	ug/l	2500				
1,1,1,2-Tetrachloroethane	ND	ug/l	500				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0207440-02
02B-B922-OW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		0730 13:26	BT
Bromobenzene	ND	ug/l	2500					
n-Butylbenzene	ND	ug/l	500					
sec-Butylbenzene	ND	ug/l	500					
tert-Butylbenzene	ND	ug/l	2500					
o-Chlorotoluene	ND	ug/l	2500					
p-Chlorotoluene	ND	ug/l	2500					
1,2-Dibromo-3-chloropropane	ND	ug/l	2500					
Hexachlorobutadiene	ND	ug/l	2500					
Isopropylbenzene	ND	ug/l	500					
p-Isopropyltoluene	ND	ug/l	500					
Naphthalene	5900	ug/l	2500					
n-Propylbenzene	ND	ug/l	500					
1,2,3-Trichlorobenzene	ND	ug/l	2500					
1,2,4-Trichlorobenzene	ND	ug/l	2500					
1,3,5-Trimethylbenzene	ND	ug/l	2500					
1,2,4-Trimethylbenzene	ND	ug/l	2500					
trans-1,4-Dichloro-2-butene	ND	ug/l	2500					
Ethyl ether	ND	ug/l	2500					
Surrogate Recovery								
1,2-Dichloroethane-d4	113.	%						
Toluene-d8	109.	%						
4-Bromofluorobenzene	97.0	%						
Dibromofluoromethane	104.	%						
PNA's by GC/MS 8270				1	8270C	0730 09:40	0801 13:34	HL
Acenaphthene	ND	ug/l	250					
2-Chloronaphthalene	ND	ug/l	300					
Fluoranthene	ND	ug/l	250					
Naphthalene	5600	ug/l	250					
Benzo(a)anthracene	ND	ug/l	250					
Benzo(a)pyrene	ND	ug/l	250					
Benzo(b)fluoranthene	ND	ug/l	250					
Benzo(k)fluoranthene	ND	ug/l	250					
Chrysene	ND	ug/l	250					
Acenaphthylene	ND	ug/l	250					
Anthracene	ND	ug/l	250					
Benzo(ghi)perylene	ND	ug/l	250					
Fluorene	ND	ug/l	250					
Phenanthrene	ND	ug/l	250					
Dibenzo(a,h)anthracene	ND	ug/l	250					
Indeno(1,2,3-cd)pyrene	ND	ug/l	350					
Pyrene	ND	ug/l	250					
Benzo(e)pyrene	ND	ug/l	250					
Biphenyl	ND	ug/l	250					
Perylene	ND	ug/l	250					
1-Methylnaphthalene	420	ug/l	250					
2-Methylnaphthalene	540	ug/l	400					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0207440-03
02B-B918-OW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
PNA's by GC/MS 8270 continued				1	8270C	0730 09:40	0801 14:25	KL
Surrogate Recovery								
Nitrobenzene-d5	77.0	%						
2-Fluorobiphenyl	84.0	%						
4-Terphenyl-d14	81.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0207440-04
02B-AA-DUP
Sample Matrix: WATER

Date Collected: 27-JUL-2002 00:00
Date Received : 29-JUL-2002
Date Reported : 05-AUG-2002

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,3-Plastic,3-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Cyanide, Total	0.129	mg/l	0.005	1	9010B	0730 13:56	0730 16:27	ED
Cyanide, Physiologically Available	0.035	mg/l	0.005	45		0730 20:08	0801 11:19	ED
Total Metals				1	3015			
Arsenic, Total	0.017	mg/l	0.005	1	6010B	0730 10:30	0731 15:25	RW
Barium, Total	0.08	mg/l	0.01	1	6010B	0730 10:30	0731 15:25	RW
Cadmium, Total	ND	mg/l	0.005	1	6010B	0730 10:30	0731 15:25	RW
Chromium, Total	ND	mg/l	0.01	1	6010B	0730 10:30	0731 15:25	RW
Lead, Total	ND	mg/l	0.050	1	6010B	0730 10:30	0731 15:25	RW
Mercury, Total	ND	mg/l	0.0005	1	7470A	0730 14:00	0731 12:48	DM
Selenium, Total	ND	mg/l	0.005	1	6010B	0730 10:30	0731 15:25	RW
Silver, Total	ND	mg/l	0.007	1	6010B	0730 10:30	0731 15:25	RW
Volatile Organics by GC/MS 8260				1	8260B		0730 14:42	BT
Methylene chloride	ND	ug/l	5000					
1,1-Dichloroethane	ND	ug/l	750					
Chloroform	ND	ug/l	750					
Carbon tetrachloride	ND	ug/l	500					
1,2-Dichloropropane	ND	ug/l	1800					
Dibromochloromethane	ND	ug/l	500					
1,1,2-Trichloroethane	ND	ug/l	750					
Tetrachloroethene	ND	ug/l	500					
Chlorobenzene	ND	ug/l	500					
Trichlorofluoromethane	ND	ug/l	2500					
1,2-Dichloroethane	ND	ug/l	500					
1,1,1-Trichloroethane	ND	ug/l	500					
Bromodichloromethane	ND	ug/l	500					
trans-1,3-Dichloropropene	ND	ug/l	500					
cis-1,3-Dichloropropene	ND	ug/l	500					
1,1-Dichloropropene	ND	ug/l	2500					
Bromoform	ND	ug/l	500					
1,1,2,2-Tetrachloroethane	ND	ug/l	500					
Benzene	36000	ug/l	500					
Toluene	20000	ug/l	750					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0207440-04
02B-AA-DUP

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1 8260B		073(14:42	BT
Ethylbenzene	8200	ug/l	500				
Chloromethane	ND	ug/l	2500				
Bromomethane	ND	ug/l	1000				
Vinyl chloride	ND	ug/l	1000				
Chloroethane	ND	ug/l	1000				
1,1-Dichloroethene	ND	ug/l	500				
trans-1,2-Dichloroethene	ND	ug/l	750				
Trichloroethene	ND	ug/l	500				
1,2-Dichlorobenzene	ND	ug/l	2500				
1,3-Dichlorobenzene	ND	ug/l	2500				
1,4-Dichlorobenzene	ND	ug/l	2500				
Methyl tert butyl ether	ND	ug/l	1000				
p/m-Xylene	2400	ug/l	500				
o-Xylene	760	ug/l	500				
cis-1,2-Dichloroethene	ND	ug/l	500				
Dibromomethane	ND	ug/l	5000				
1,4-Dichlorobutane	ND	ug/l	5000				
Iodomethane	ND	ug/l	5000				
1,2,3-Trichloropropane	ND	ug/l	5000				
Styrene	ND	ug/l	500				
Dichlorodifluoromethane	ND	ug/l	5000				
Acetone	ND	ug/l	5000				
Carbon disulfide	ND	ug/l	5000				
2-Butanone	ND	ug/l	5000				
Vinyl acetate	ND	ug/l	5000				
4-Methyl-2-pentanone	ND	ug/l	5000				
2-Hexanone	ND	ug/l	5000				
Ethyl methacrylate	ND	ug/l	5000				
Acrolein	ND	ug/l	12000				
Acrylonitrile	ND	ug/l	5000				
Bromochloromethane	ND	ug/l	2500				
Tetrahydrofuran	ND	ug/l	10000				
2,2-Dichloropropane	ND	ug/l	2500				
1,2-Dibromoethane	ND	ug/l	2500				
1,3-Dichloropropane	ND	ug/l	2500				
1,1,1,2-Tetrachloroethane	ND	ug/l	500				
Bromobenzene	ND	ug/l	2500				
n-Butylbenzene	ND	ug/l	500				
sec-Butylbenzene	ND	ug/l	500				
tert-Butylbenzene	ND	ug/l	2500				
o-Chlorotoluene	ND	ug/l	2500				
p-Chlorotoluene	ND	ug/l	2500				
1,2-Dibromo-3-chloropropane	ND	ug/l	2500				
Hexachlorobutadiene	ND	ug/l	2500				
Isopropylbenzene	ND	ug/l	500				
p-Isopropyltoluene	ND	ug/l	500				
Naphthalene	ND	ug/l	2500				
n-Propylbenzene	ND	ug/l	500				
1,2,3-Trichlorobenzene	ND	ug/l	2500				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0207440-04
02B-AA-DUP

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		0730 14:42	BT
1,2,4-Trichlorobenzene	ND	ug/l	2500					
1,3,5-Trimethylbenzene	ND	ug/l	2500					
1,2,4-Trimethylbenzene	ND	ug/l	2500					
trans-1,4-Dichloro-2-butene	ND	ug/l	2500					
Ethyl ether	ND	ug/l	2500					
Surrogate Recovery								
1,2-Dichloroethane-d4	112.	%						
Toluene-d8	117.	%						
4-Bromofluorobenzene	105.	%						
Dibromofluoromethane	108.	%						
PNA's by GC/MS 8270				1	8270C	0730 09:40	0801 15:19	ML
Acenaphthene	ND	ug/l	50.					
2-Chloronaphthalene	ND	ug/l	60.					
Fluoranthene	ND	ug/l	50.					
Naphthalene	1800	ug/l	50.					
Benzo(a)anthracene	ND	ug/l	50.					
Benzo(a)pyrene	ND	ug/l	50.					
Benzo(b)fluoranthene	ND	ug/l	50.					
Benzo(k)fluoranthene	ND	ug/l	50.					
Chrysene	ND	ug/l	50.					
Acenaphthylene	ND	ug/l	50.					
Anthracene	ND	ug/l	50.					
Benzo(ghi)perylene	ND	ug/l	50.					
Fluorene	ND	ug/l	50.					
Phenanthrene	ND	ug/l	50.					
Dibenzo(a,h)anthracene	ND	ug/l	50.					
Indeno(1,2,3-cd)pyrene	ND	ug/l	70.					
Pyrene	ND	ug/l	50.					
Benzo(e)pyrene	ND	ug/l	50.					
Biphenyl	ND	ug/l	50.					
Perylene	ND	ug/l	50.					
1-Methylnaphthalene	440	ug/l	50.					
2-Methylnaphthalene	210	ug/l	80.					
Surrogate Recovery								
Nitrobenzene-d5	91.0	%						
2-Fluorobiphenyl	97.0	%						
4-Terphenyl-d14	90.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0207440

Parameter	Value 1	Value 2	RPD	Units
Alkalinity, Total for sample(s) 01-03 (L0207440-03, WG119051)				
Alkalinity, Total	500	500	0	mg CaCO3/L
Cyanide, Total for sample(s) 01-04 (L0207404-01, WG118740)				
Cyanide, Total	ND	ND	NC	mg/l
Cyanide, Physiologically Available for sample(s) 01-04 (L0207440-01, WG118918)				
Cyanide, Physiologically Available	0.190	0.172	10	mg/l
Nitrogen, Nitrate/Nitrite for sample(s) 01-03 (L0207484-01, WG118793)				
Nitrogen, Nitrate/Nitrite	4.4	4.2	5	mg/l
Nitrogen, Total Kjeldahl for sample(s) 01-03 (L0207365-01, WG119042)				
Nitrogen, Total Kjeldahl	ND	ND	NC	mg/l
Sulfate for sample(s) 01-03 (L0207512-04, WG119054)				
Sulfate	27.	28.	4	mg/l
Total Metals for sample(s) 01-04 (L0207448-10, WG118827)				
Arsenic, Total	ND	ND	NC	mg/l
Cadmium, Total	ND	ND	NC	mg/l
Chromium, Total	ND	ND	NC	mg/l
Lead, Total	ND	ND	NC	mg/l
Selenium, Total	ND	ND	NC	mg/l
Silver, Total	ND	ND	NC	mg/l
Total Metals for sample(s) 01-04 (L0207404-02, WG118771)				
Mercury, Total	ND	ND	NC	mg/l

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0207440

Parameter	% Recovery
Alkalinity, Total LCS for sample(s) 01-03 (WG119051)	
Alkalinity, Total	103
Cyanide, Total LCS for sample(s) 01-04 (WG118740)	
Cyanide, Total	105
Cyanide, Physiologically Available LCS for sample(s) 01 (WG118918)	
Cyanide, Physiologically Available	0
Cyanide, Physiologically Available LCS for sample(s) 01-04 (WG118918)	
Cyanide, Physiologically Available	103
Nitrogen, Nitrate/Nitrite LCS for sample(s) 01-03 (WG118793)	
Nitrogen, Nitrate/Nitrite	100
Nitrogen, Total Kjeldahl LCS for sample(s) 01-03 (WG119042)	
Nitrogen, Total Kjeldahl	100
Sulfate LCS for sample(s) 01-03 (WG119054)	
Sulfate	105
Total Metals LCS for sample(s) 01-04 (WG118827)	
Arsenic, Total	103
Barium, Total	105
Cadmium, Total	110
Chromium, Total	105
Iron, Total	100
Lead, Total	109
Selenium, Total	102
Silver, Total	106
Total Metals LCS for sample(s) 01-04 (WG118771)	
Mercury, Total	113
Volatile Organics by GC/MS 8260 LCS for sample(s) 01-04 (WG118725)	
Chlorobenzene	97
Benzene	94
Toluene	97
1,1-Dichloroethene	88
Trichloroethene	92
Surrogate Recovery	
1,2-Dichloroethane-d4	113
Toluene-d8	109
4-Bromofluorobenzene	91
Dibromofluoromethane	110

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0207440

Continued

Parameter	% Recovery
PNA's by GC/MS 8270 LCS for sample(s) 01-04 (WG118807)	
Acenaphthene	85
2-Chloronaphthalene	82
Fluoranthene	99
Anthracene	88
Pyrene	99
Surrogate Recovery	
Nitrobenzene-d5	84
2-Fluorobiphenyl	81
4-Terphenyl-d14	84
Alkalinity, Total SPIKE for sample(s) 01-03 (L0207440-01, WG119051)	
Alkalinity, Total	102
Cyanide, Total SPIKE for sample(s) 01-04 (L0207404-01, WG118740)	
Cyanide, Total	106
Nitrogen, Nitrate/Nitrite SPIKE for sample(s) 01-03 (L0207440-01, WG118793)	
Nitrogen, Nitrate/Nitrite	105
Nitrogen, Total Kjeldahl SPIKE for sample(s) 01-03 (L0207512-01, WG119042)	
Nitrogen, Total Kjeldahl	101
Sulfate SPIKE for sample(s) 01-03 (L0207512-05, WG119054)	
Sulfate	110
Total Metals SPIKE for sample(s) 01-04 (L0207448-10, WG118827)	
Arsenic, Total	102
Barium, Total	104
Cadmium, Total	106
Chromium, Total	100
Iron, Total	100
Lead, Total	109
Selenium, Total	102
Silver, Total	106
Total Metals SPIKE for sample(s) 01-04 (L0207404-03, WG118771)	
Mercury, Total	134

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0207440

Parameter	MS %	MSD %	RPD
Volatile Organics by GC/MS 8260 for sample(s) 01-04 (L0207379-06, WG118725)			
Chlorobenzene	95	91	5
Benzene	90	89	1
Toluene	95	91	5
1,1-Dichloroethene	87	85	3
Trichloroethene	90	88	3
PNA's by GC/MS 8270 for sample(s) 01-04 (L0207440-01, WG118807)			
Acenaphthene	97	87	11
2-Chloronaphthalene	87	78	11
Fluoranthene	110	97	13
Anthracene	97	87	11
Pyrene	110	97	13

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0207440

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-03								
Alkalinity, Total	ND	mg CaCO3/L	2.0	30	2320B		0801 20:48	DP
Blank Analysis for sample(s) 01-04								
Cyanide, Total	ND	mg/l	0.005	1	9010B	0730 13:56	0730 16:06	ED
Blank Analysis for sample(s) 01-04								
Cyanide, Physiologically Available	ND	mg/l	0.005	45		0730 20:08	0801 11:14	ED
Blank Analysis for sample(s) 01-03								
Nitrogen, Nitrate/Nitrite	ND	mg/l	0.10	30	4500NO3-F		0730 21:45	DD
Blank Analysis for sample(s) 01-03								
Nitrogen, Total Kjeldahl	ND	mg/l	0.05	30	4500N-C	0801 19:00	0802 13:34	ED
Blank Analysis for sample(s) 01-03								
Sulfate	ND	mg/l	10.	1	9038		0801 23:00	JT
Blank Analysis for sample(s) 01-04								
Total Metals				1	3015			
Arsenic, Total	ND	mg/l	0.005	1	6010B	0730 10:30	0731 13:24	RW
Barium, Total	ND	mg/l	0.01	1	6010B	0730 10:30	0731 13:24	RW
Cadmium, Total	ND	mg/l	0.005	1	6010B	0730 10:30	0731 13:24	RW
Chromium, Total	ND	mg/l	0.01	1	6010B	0730 10:30	0731 13:24	RW
Iron, Total	ND	mg/l	0.05	1	6010B	0730 10:30	0731 13:24	RW
Lead, Total	ND	mg/l	0.050	1	6010B	0730 10:30	0731 13:24	RW
Selenium, Total	ND	mg/l	0.005	1	6010B	0730 10:30	0731 13:24	RW
Silver, Total	ND	mg/l	0.007	1	6010B	0730 10:30	0731 13:24	RW
Blank Analysis for sample(s) 01-04								
Total Metals								
Mercury, Total	ND	mg/l	0.0002	1	7470A	0730 14:00	0731 12:03	DM
Blank Analysis for sample(s) 01-04								
Volatile Organics by GC/MS 8260				1	8260B		0730 09:31	BT
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0207440

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-04							
Volatile Organics by GC/MS 8260 continued				1' 8260B		0730 09:31	BT
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	2.5				
Bromoform	ND	ug/l	0.50				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.75				
Ethylbenzene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0207440

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-04							
Volatile Organics by GC/MS 8260 continued				1 8260B		0730 09:31	BT
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.5				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	2.5				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Surrogate Recovery							
1,2-Dichloroethane-d4	110.	%					
Toluene-d8	110.	%					
4-Bromofluorobenzene	98.0	%					
Dibromofluoromethane	107.	%					
Blank Analysis for sample(s) 01-04							
PNA's by GC/MS 8270				1 8270C	0730 09:40	0801 02:07	KL
Acenaphthene	ND	ug/l	5.0				
2-Chloronaphthalene	ND	ug/l	6.0				
Fluoranthene	ND	ug/l	5.0				
Naphthalene	ND	ug/l	5.0				
Benzo(a)anthracene	ND	ug/l	5.0				
Benzo(a)pyrene	ND	ug/l	5.0				
Benzo(b)fluoranthene	ND	ug/l	5.0				
Benzo(k)fluoranthene	ND	ug/l	5.0				
Chrysene	ND	ug/l	5.0				
Acenaphthylene	ND	ug/l	5.0				
Anthracene	ND	ug/l	5.0				
Benzo(ghi)perylene	ND	ug/l	5.0				
Fluorene	ND	ug/l	5.0				
Phenanthrene	ND	ug/l	5.0				
Dibenzo(a,h)anthracene	ND	ug/l	5.0				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0207440

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-04							
PNA's by GC/MS 8270 continued				1 8270C	0730 09:40	0801 02:07	HL
Indeno(1,2,3-cd)pyrene	ND	ug/l	7.0				
Pyrene	ND	ug/l	5.0				
Benzo(e)pyrene	ND	ug/l	5.0				
Biphenyl	ND	ug/l	5.0				
Perylene	ND	ug/l	5.0				
1-Methylnaphthalene	ND	ug/l	5.0				
2-Methylnaphthalene	ND	ug/l	8.0				
Surrogate Recovery							
Nitrobenzene-d5	96.0	%					
2-Fluorobiphenyl	87.0	%					
4-Terphenyl-d14	88.0	%					

REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Update III, 1997.

30. Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

45. Physiologically Available Cyanide (PAC), January 1996 Protocol, Mass DEP 1996.

GLOSSARY OF TERMS AND SYMBOLS

REF Reference number in which test method may be found.
METHOD Method number by which analysis was performed.
ID Initials of the analyst.

Please note that all solid samples are reported on dry weight basis unless noted otherwise.

LIMITATION OF LIABILITIES

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.

Quality Control Acceptance Criteria

Volatile Organics by Method 8260B

surrogate spike % recovery	AQ Limits		Soil Limits	
	LCL	UCL	LCL	UCL
1,2-Dichloroethane-d_4	75%	125%	75%	125%
4-Bromofluorobenzene	75%	125%	75%	125%
Toluene-d_8	75%	125%	75%	125%
Dibromofluoromethane	75%	125%	75%	125%

matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	percent recovery				duplicate and/or MSD	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
1,1-Dichloroethene	61%	145%	59%	172%	all target compounds	
Trichloroethene	71%	120%	62%	137%	20%	30%
Chlorobenzene	75%	130%	60%	133%		
Benzene	76%	127%	66%	142%		
Toluene	76%	125%	59%	139%		

Volatile Organics by Method 8021B

surrogate spike % recovery	AQ Limits		Soil Limits	
	LCL	UCL	LCL	UCL
4-Bromochlorobenzene	70%	110%	70%	120%
4-Bromofluorobenzene	70%	110%	70%	120%

matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	percent recovery				duplicate and/or MSD	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
1,1-Dichloroethene	70%	130%	70%	130%	all target compounds	
Trichloroethene	70%	130%	70%	130%	20%	30%
Chlorobenzene	70%	130%	70%	130%		
Benzene	70%	130%	70%	130%		
Toluene	70%	130%	70%	130%		
Ethylbenzene	70%	130%	70%	130%		

Semi-Volatile Organics by Method 8270C (includes PAHs)

surrogate spike % recovery	AQ Limits		Soil Limits	
	LCL	UCL	LCL	UCL
Nitrobenzene-d_5	23%	120%	23%	120%
Phenol-d_6	10%	120%	10%	120%
2-Fluorophenol	21%	120%	25%	120%
2-Fluorobiphenyl	43%	120%	30%	120%
p-Terphenyl-d_{14}	33%	120%	18%	120%
2,4,6-Tribromophenol	10%	120%	19%	120%

matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	percent recovery				duplicate and/or MSD	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
1,2,4-Trichlorobenzene	39%	98%	38%	107%	all target compounds	
Acenaphthene	46%	118%	31%	137%	40%	50%
2,4-Dinitrotoluene	24%	96%	28%	89%		
Pyrene	26%	127%	35%	142%		
N-Nitroso-di-n-propylamine	41%	116%	41%	126%		
1,4-Dichlorobenzene	36%	97%	28%	104%		
Pentachlorophenol	9%	103%	17%	109%		
Phenol	12%	110%	26%	90%		
2-Chlorophenol	27%	123%	25%	102%		
4-Chloro-3-methylphenol	23%	97%	26%	103%		
4-Nitrophenol	10%	80%	11%	114%		

Quality Control Acceptance Criteria

PCB/Pesticides by Method 8082/8081

surrogate spike % recovery	AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL		
2,4,5,6-Tetrachloro-m-xylene	40%	120%	40%	120%		
Decachlorobiphenyl	30%	150%	30%	150%		
matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	**percent recovery**				**duplicate and/or MSD**	
	AQ Limits LCL	**AQ Limits UCL**	**Soil Limits LCL**	**Soil Limits UCL**	**AQ Limits RPD**	**Soil Limits RPD**
Lindane	56%	123%	46%	127%	all target compounds	
Heptachlor	40%	131%	35%	130%	30%	50%
Aldrin	40%	120%	34%	132%		
Dieldrin	52%	126%	31%	134%		
Endrin	56%	121%	42%	139%		
4,4'-DDT	38%	127%	23%	134%		
Aroclor 1242/1016	40%	140%	40%	140%		
Aroclor 1260	40%	140%	40%	140%		

Volatile Petroleum Hydrocarbons (VPH) by MA DEP 98-1

surrogate spike % recovery	AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL		
2,5-Dibromotoluene	70%	130%	70%	130%		
laboratory control sample (LCS)	**percent recovery**				**duplicate**	
	AQ Limits LCL	**AQ Limits UCL**	**Soil Limits LCL**	**Soil Limits UCL**	**AQ Limits RPD**	**Soil Limits RPD**
all compounds	70%	130%	70%	130%	50%	50%

Extractable Petroleum Hydrocarbons (EPH) by MA DEP 98-1

surrogate spike % recovery	AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL		
Chloro-octadecane	40%	140%	40%	140%		
ortho-Terphenyl	40%	140%	40%	140%		
2-Fluorobiphenyl (fractionation)	40%	140%	40%	140%		
2-Bromonaphthalene (fractionation)	40%	140%	40%	140%		
laboratory control sample (LCS)	**percent recovery**				**duplicate**	
	AQ Limits LCL	**AQ Limits UCL**	**Soil Limits LCL**	**Soil Limits UCL**	**AQ Limits RPD**	**Soil Limits RPD**
all compounds	40%	140%	40%	140%	50%	50%

TPH (GC-FID) by Method 8100M

surrogate spike % recovery	AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL	duplicate AQ Limits RPD	duplicate Soil Limits RPD
ortho-Terphenyl	40%	140%	40%	140%	40%	40%

TPH by Method 418.1

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits LCL	**AQ Limits UCL**	**Soil Limits LCL**	**Soil Limits UCL**	**AQ Limits RPD**	**Soil Limits RPD**
TPH	60%	140%	60%	140%	40%	40%

Quality Control Acceptance Criteria

Trace Metals by Method 6010B/7000 series

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
target analyte	75%	125%	70%	140%	20%	35%

Mercury by Method 7470A/7471A

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
mercury	70%	130%	60%	140%	35%	45%

Total Cyanide by Method 9010B

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
cyanide	80%	120%	65%	135%	30%	40%

Total Phenol by Method 9065

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
phenol	70%	130%	65%	135%	20%	30%

HALEY & ALDRICH
Haley & Aldrich, Inc.
465 Medford St.,
Suite 2200,
Boston, MA 02129-1400

CHAIN OF CUSTODY RECORD

Phone (617) 886-7400
Fax (617) 886-7600

H&A FILE NO. 06558-631
PROJECT NAME Malden MGP
H&A CONTACT Steve Provencal

LABORATORY Alpha Analytical
ADDRESS Westboro MA
CONTACT Pete Hendrickson

DELIVERY DATE 7/29/02
TURNAROUND TIME Standard
PROJECT MANAGER B. Wilkinson

Analysis Requested

Sample No.	Date	Time	Depth	Type	VOA	ABNs (All only)	Metals (RCRA 8 PRTT)	①	②	③	TPH (specify)	TCLP (specify)	④	⑤				Number of Containers	Comments (special instructions, precautions, additional contract numbers, etc.)
02B-B923-OW	7-27-02	11:40		Water	X	X	X	X	X	X			X					10	① Total cyanide
02B-B922-OW	7-27-02	14:30		Water	X	X	X	X	X	X			X	X				11	② Physiological Cyanide - Analyze if TCN is > Detection limit
02B-B918-OW	7-27-02	16:30		Water	X	X	X	X	X	X			X	X				11	
02B-AA-DUP	7-27-02			Water	X	X	X	X	X									8	③ NO_3, NO_2, SO_4 *
																			④ TKN
																			⑤ Total Fe

SMC 7/29/02

Sampled and Relinquished by
Sign
Print Sean M. Carroll
Firm Haley & Aldrich
Date 7/29/02 Time 9:00AM

Received by
Sign
Print Karl Bryan Jr.
Firm H&A
Date 7/29/02 Time 09:00

Relinquished by
Sign
Print Karl Bryan Jr.
Firm H&A
Date 7/29/02 Time 11:10

Received by
Sign
Print Doug Kunen
Firm
Date 7/29/02 Time 11:10

Relinquished by
Sign
Print
Firm
Date 7/29/02 Time

Received by
Sign
Print Peter Doscot
Firm
Date 7/29/02 Time 12:10

LIQUID

VOA Vial	A													
Amber Glass		A												
Plastic Bottle			A/B	A/C	A	A				A/E	A/D			
Preservative														
Volume														

SOLID

VOA Vial														
Amber Glass														
Clear Glass														
Preservative														
Volume														

PRESERVATION KEY

A Sample chilled
B Sample filtered
C NaOH
D HNO_3
E H_2SO_4
F HCL
G Methanol
H Sodium Bisulfate

Sampling Comments

All 4 samples have distinct MGP odor - expect high VOC/PAH levels.

* Note short holding time for some samples. Expires at time, Mon, 7/29

Evidence samples were tampered with? YES NO
If YES, please explain in section below.

UNDERGROUND
ENGINEERING &
ENVIRONMENTAL
SOLUTIONS

Haley & Aldrich, Inc.
465 Medford St., Suite 2200
Boston, MA 02129-1400
Tel: 617.886.7400
Fax: 617.886.7600
www.HaleyAldrich.com

HALEY & ALDRICH

Fax Transmittal Sheet

Date	29 July 2002
File Number	06558-631
From	Sean M. Carroll
To	Alpha Analytical
Attention	Pete Hendrickson / Katie O'Brien
Fax Number	508-898-9193
Page 1 of	1

Message

Peter and Katie,

I submitted four water samples from the Malden MGP Site for analysis on 7/29/02. Following are the sample IDs, dates and times for your reference:

02B-B923-OW, 7/27/02, 11:40
02B-B922-OW, 7/27/02, 14:30
02B-B918-OW, 7/27/02, 16:30
02B-AA-DUP, 7/27/02

I would like to request that Total Alkalinity be added to the analysis list for the first three samples, B923, B922, and B918, assuming there is enough sample volume to run the analysis.

Thank you for your help, please feel free to call with any questions.

Sean Carroll

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Please call 617.886.7374 if there is a problem with this fax transmission.

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220 www.alphalab.com

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935-Army:USACE

CERTIFICATE OF ANALYSIS

Client: Haley & Aldrich, Inc.

Address: 465 Medford Street, Suite 2200
Boston, MA 02129-1400

Attn: Mr. Steve Provencal

Project Number: 06558-631

Site: FORMER MGP SITE

Laboratory Job Number: L0207615

Invoice Number: 66706

Date Received: 01-AUG-02

Date Reported: 08-AUG-02

Delivery Method: Alpha

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0207615-01	MW-1	MALDEN, MA
L0207615-02	NC-1	MALDEN, MA
L0207615-03	MW-5	MALDEN, MA

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by: Scott McLean

Scott McLean - Technical Director
This document electronically signed

Laboratory Job Number: L0207615

Alpha Report L0207615:

Polynuclear Aromatic Hydrocarbons

One or more Laboratory Control Sample and Matrix Spike/Matrix Spike Duplicate percent recoveries are outside the individual acceptance criteria for the compounds, but within the overall method allowances. No further action was taken.

Volatile Organics

Alpha Sample L0207615-02 has elevated limits of detection due to the dilutions required by the elevated concentrations of target compounds in the sample.

Alpha Sample L0207615-03 was re-analyzed on dilution in order to quantitate the sample within the range of the calibration. The results are reported as greater than values for any compound that exceeded the calibration on the initial analysis. The re-analyses were performed only for those compounds which exceeded the range of the calibration.

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0207615-01
MW-1
Sample Matrix: WATER

Date Collected: 31-JUL-2002 10:30
Date Received : 01-AUG-2002
Date Reported : 08-AUG-2002

Condition of Sample: Satisfactory

Field Prep: Field Filtered

Number & Type of Containers: 2-Amber,6-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Alkalinity, Total	63.	mg CaCO3/L	2.0	30	2320B		0802 19:18	DP
Cyanide, Total	0.032	mg/l	0.005	1	9010B	0802 17:05	0806 13:49	ED
Cyanide, Physiologically Available	0.011	mg/l	0.005	45		0806 17:26	0808 12:46	ED
Nitrogen, Nitrite	ND	mg/l	0.10	30	4500NO3-F		0801 21:13	DD
Nitrogen, Nitrate	5.7	mg/l	0.10	30	4500NO3-F		0801 21:13	DD
Nitrogen, Total Kjeldahl	ND	mg/l	0.15	30	4500N-C	0805 19:00	0807 13:51	ED
Sulfate	38.	mg/l	10.	1	9038		0807 16:00	DD
Dissolved Metals								
Arsenic, Dissolved	ND	mg/l	0.005	1	6010B	0802 09:50	0805 09:09	RW
Barium, Dissolved	0.03	mg/l	0.01	1	6010B	0802 09:50	0805 09:09	RW
Cadmium, Dissolved	ND	mg/l	0.005	1	6010B	0802 09:50	0805 09:09	RW
Chromium, Dissolved	ND	mg/l	0.01	1	6010B	0802 09:50	0805 09:09	RW
Lead, Dissolved	ND	mg/l	0.010	1	6010B	0802 09:50	0805 09:09	RW
Mercury, Dissolved	ND	mg/l	0.0005	1	7470A	0802 15:00	0804 14:37	DM
Selenium, Dissolved	ND	mg/l	0.005	1	6010B	0802 09:50	0805 09:09	RW
Silver, Dissolved	ND	mg/l	0.007	1	6010B	0802 09:50	0805 09:09	RW
Volatile Organics by GC/MS 8260				1	8260B		0805 12:52	RY
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0207615-01
MW-1

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		0805 12:52	RY
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	0.50					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	0.77	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	ND	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	ND	ug/l	1.0					
p/m-Xylene	ND	ug/l	0.50					
o-Xylene	ND	ug/l	0.50					
cis-1,2-Dichloroethene	ND	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,4-Dichlorobutane	ND	ug/l	5.0					
Iodomethane	ND	ug/l	5.0					
1,2,3-Trichloropropane	ND	ug/l	5.0					
Styrene	ND	ug/l	0.50					
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
Vinyl acetate	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Ethyl methacrylate	ND	ug/l	5.0					
Acrolein	ND	ug/l	12.					
Acrylonitrile	ND	ug/l	5.0					
Bromochloromethane	ND	ug/l	2.5					
Tetrahydrofuran	ND	ug/l	10.					
2,2-Dichloropropane	ND	ug/l	2.5					
1,2-Dibromoethane	ND	ug/l	2.5					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0207615-01
MW-1

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		0805 12:52	RY
1,3-Dichloropropane	ND	ug/l	2.5					
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50					
Bromobenzene	ND	ug/l	2.5					
n-Butylbenzene	ND	ug/l	0.50					
sec-Butylbenzene	ND	ug/l	0.50					
tert-Butylbenzene	ND	ug/l	2.5					
o-Chlorotoluene	ND	ug/l	2.5					
p-Chlorotoluene	ND	ug/l	2.5					
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	2.5					
Isopropylbenzene	ND	ug/l	0.50					
p-Isopropyltoluene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	2.5					
n-Propylbenzene	ND	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					
Surrogate Recovery								
1,2-Dichloroethane-d4	101.	%						
Toluene-d8	102.	%						
4-Bromofluorobenzene	111.	%						
Dibromofluoromethane	95.0	%						
PNA's by GC/MS 8270				1	8270C	0802 19:45	0805 01:14	HL
Acenaphthene	ND	ug/l	5.3					
2-Chloronaphthalene	ND	ug/l	6.4					
Fluoranthene	ND	ug/l	5.3					
Naphthalene	ND	ug/l	5.3					
Benzo(a)anthracene	ND	ug/l	5.3					
Benzo(a)pyrene	ND	ug/l	5.3					
Benzo(b)fluoranthene	ND	ug/l	5.3					
Benzo(k)fluoranthene	ND	ug/l	5.3					
Chrysene	ND	ug/l	5.3					
Acenaphthylene	ND	ug/l	5.3					
Anthracene	ND	ug/l	5.3					
Benzo(ghi)perylene	ND	ug/l	5.3					
Fluorene	ND	ug/l	5.3					
Phenanthrene	ND	ug/l	5.3					
Dibenzo(a,h)anthracene	ND	ug/l	5.3					
Indeno(1,2,3-cd)pyrene	ND	ug/l	7.4					
Pyrene	ND	ug/l	5.3					
Benzo(e)pyrene	ND	ug/l	5.3					
Biphenyl	ND	ug/l	5.3					
Perylene	ND	ug/l	5.3					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0207615-01
MW-1

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
PNA's by GC/MS 8270 continued				1	8270C	0802 19:45	0805 01:14	HL
1-Methylnaphthalene	ND	ug/l	5.3					
2-Methylnaphthalene	ND	ug/l	8.5					
Surrogate Recovery								
Nitrobenzene-d5	61.0	%						
2-Fluorobiphenyl	63.0	%						
4-Terphenyl-d14	81.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0207615-02
NC-1
Sample Matrix: WATER

Date Collected: 31-JUL-2002 12:30
Date Received : 01-AUG-2002
Date Reported : 08-AUG-2002

Condition of Sample: Satisfactory

Field Prep: Field Filtered

Number & Type of Containers: 2-Amber,3-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Cyanide, Total	0.018	mg/l	0.005	1	9010B	0802 17:05	0806 13:49	ED
Cyanide, Physiologically Available	ND	mg/l	0.005	45		0806 17:26	0808 12:46	ED
Dissolved Metals								
Arsenic, Dissolved	0.031	mg/l	0.005	1	6010B	0802 09:50	0805 09:13	RW
Barium, Dissolved	0.08	mg/l	0.01	1	6010B	0802 09:50	0805 09:13	RW
Cadmium, Dissolved	ND	mg/l	0.005	1	6010B	0802 09:50	0805 09:13	RW
Chromium, Dissolved	ND	mg/l	0.01	1	6010B	0802 09:50	0805 09:13	RW
Lead, Dissolved	ND	mg/l	0.010	1	6010B	0802 09:50	0805 09:13	RW
Mercury, Dissolved	ND	mg/l	0.0005	1	7470A	0802 15:00	0804 14:43	DM
Selenium, Dissolved	ND	mg/l	0.005	1	6010B	0802 09:50	0805 09:13	RW
Silver, Dissolved	ND	mg/l	0.007	1	6010B	0802 09:50	0805 09:13	RW
Volatile Organics by GC/MS 8260				1	8260B		0805 13:30	RY
Methylene chloride	ND	ug/l	10.					
1,1-Dichloroethane	ND	ug/l	1.5					
Chloroform	ND	ug/l	1.5					
Carbon tetrachloride	ND	ug/l	1.0					
1,2-Dichloropropane	ND	ug/l	3.5					
Dibromochloromethane	ND	ug/l	1.0					
1,1,2-Trichloroethane	ND	ug/l	1.5					
Tetrachloroethene	ND	ug/l	1.0					
Chlorobenzene	3.3	ug/l	1.0					
Trichlorofluoromethane	ND	ug/l	5.0					
1,2-Dichloroethane	ND	ug/l	1.0					
1,1,1-Trichloroethane	ND	ug/l	1.0					
Bromodichloromethane	ND	ug/l	1.0					
trans-1,3-Dichloropropene	ND	ug/l	1.0					
cis-1,3-Dichloropropene	ND	ug/l	1.0					
1,1-Dichloropropene	ND	ug/l	5.0					
Bromoform	ND	ug/l	1.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0					
Benzene	3.0	ug/l	1.0					
Toluene	ND	ug/l	1.5					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0207615-02
NC-1

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		0805 13:30	RY
Ethylbenzene	ND	ug/l	1.0					
Chloromethane	ND	ug/l	5.0					
Bromomethane	ND	ug/l	2.0					
Vinyl chloride	ND	ug/l	2.0					
Chloroethane	ND	ug/l	2.0					
1,1-Dichloroethene	ND	ug/l	1.0					
trans-1,2-Dichloroethene	2.3	ug/l	1.5					
Trichloroethene	ND	ug/l	1.0					
1,2-Dichlorobenzene	ND	ug/l	5.0					
1,3-Dichlorobenzene	ND	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	5.0					
Methyl tert butyl ether	ND	ug/l	2.0					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					
cis-1,2-Dichloroethene	1.6	ug/l	1.0					
Dibromomethane	ND	ug/l	10.					
1,4-Dichlorobutane	ND	ug/l	10.					
Iodomethane	ND	ug/l	10.					
1,2,3-Trichloropropane	ND	ug/l	10.					
Styrene	ND	ug/l	1.0					
Dichlorodifluoromethane	ND	ug/l	10.					
Acetone	ND	ug/l	10.					
Carbon disulfide	ND	ug/l	10.					
2-Butanone	ND	ug/l	10.					
Vinyl acetate	ND	ug/l	10.					
4-Methyl-2-pentanone	ND	ug/l	10.					
2-Hexanone	ND	ug/l	10.					
Ethyl methacrylate	ND	ug/l	10.					
Acrolein	ND	ug/l	25.					
Acrylonitrile	ND	ug/l	10.					
Bromochloromethane	ND	ug/l	5.0					
Tetrahydrofuran	ND	ug/l	20.					
2,2-Dichloropropane	ND	ug/l	5.0					
1,2-Dibromoethane	ND	ug/l	5.0					
1,3-Dichloropropane	ND	ug/l	5.0					
1,1,1,2-Tetrachloroethane	ND	ug/l	1.0					
Bromobenzene	ND	ug/l	5.0					
n-Butylbenzene	10.	ug/l	1.0					
sec-Butylbenzene	17.	ug/l	1.0					
tert-Butylbenzene	8.6	ug/l	5.0					
o-Chlorotoluene	29.	ug/l	5.0					
p-Chlorotoluene	ND	ug/l	5.0					
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0					
Hexachlorobutadiene	ND	ug/l	5.0					
Isopropylbenzene	20.	ug/l	1.0					
p-Isopropyltoluene	ND	ug/l	1.0					
Naphthalene	ND	ug/l	5.0					
n-Propylbenzene	31.	ug/l	1.0					
1,2,3-Trichlorobenzene	ND	ug/l	5.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0207615-02
NC-1

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		0805 13:30	RY
1,2,4-Trichlorobenzene	ND	ug/l	5.0					
1,3,5-Trimethylbenzene	ND	ug/l	5.0					
1,2,4-Trimethylbenzene	ND	ug/l	5.0					
trans-1,4-Dichloro-2-butene	ND	ug/l	5.0					
Ethyl ether	ND	ug/l	5.0					
Surrogate Recovery								
1,2-Dichloroethane-d4	99.0	%						
Toluene-d8	100.	%						
4-Bromofluorobenzene	118.	%						
Dibromofluoromethane	101.	%						
PNA's by GC/MS 8270				1	8270C	0802 19:45	0805 01:59	ML
Acenaphthene	ND	ug/l	5.1					
2-Chloronaphthalene	ND	ug/l	6.1					
Fluoranthene	ND	ug/l	5.1					
Naphthalene	ND	ug/l	5.1					
Benzo(a)anthracene	ND	ug/l	5.1					
Benzo(a)pyrene	ND	ug/l	5.1					
Benzo(b)fluoranthene	ND	ug/l	5.1					
Benzo(k)fluoranthene	ND	ug/l	5.1					
Chrysene	ND	ug/l	5.1					
Acenaphthylene	ND	ug/l	5.1					
Anthracene	ND	ug/l	5.1					
Benzo(ghi)perylene	ND	ug/l	5.1					
Fluorene	ND	ug/l	5.1					
Phenanthrene	ND	ug/l	5.1					
Dibenzo(a,h)anthracene	ND	ug/l	5.1					
Indeno(1,2,3-cd)pyrene	ND	ug/l	7.1					
Pyrene	ND	ug/l	5.1					
Benzo(e)pyrene	ND	ug/l	5.1					
Biphenyl	ND	ug/l	5.1					
Perylene	ND	ug/l	5.1					
1-Methylnaphthalene	ND	ug/l	5.1					
2-Methylnaphthalene	ND	ug/l	8.2					
Surrogate Recovery								
Nitrobenzene-d5	71.0	%						
2-Fluorobiphenyl	77.0	%						
4-Terphenyl-d14	78.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0207615-03
MW-5
Sample Matrix: WATER

Date Collected: 31-JUL-2002 15:00
Date Received : 01-AUG-2002
Date Reported : 08-AUG-2002

Condition of Sample: Satisfactory

Field Prep: Field Filtered

Number & Type of Containers: 2-Amber,6-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Alkalinity, Total	94.	mg CaCO3/L	2.0	30	2320B		0802 19:18	DP
Cyanide, Total	0.090	mg/l	0.005	1	9010B	0802 17:09	0806 13:50	ED
Cyanide, Physiologically Available	0.008	mg/l	0.005	45		0806 17:26	0808 12:47	ED
Nitrogen, Nitrite	ND	mg/l	0.10	30	4500NO3-F		0801 21:15	DD
Nitrogen, Nitrate	ND	mg/l	0.10	30	4500NO3-F		0801 21:15	DD
Nitrogen, Total Kjeldahl	1.7	mg/l	0.15	30	4500N-C	0805 19:00	0807 13:52	ED
Sulfate	36.	mg/l	10.	1	9038		0807 16:00	DD
Dissolved Metals								
Arsenic, Dissolved	0.036	mg/l	0.005	1	6010B	0802 09:50	0805 09:18	RW
Barium, Dissolved	0.07	mg/l	0.01	1	6010B	0802 09:50	0805 09:18	RW
Cadmium, Dissolved	ND	mg/l	0.005	1	6010B	0802 09:50	0805 09:18	RW
Chromium, Dissolved	ND	mg/l	0.01	1	6010B	0802 09:50	0805 09:18	RW
Lead, Dissolved	ND	mg/l	0.010	1	6010B	0802 09:50	0805 09:18	RW
Mercury, Dissolved	ND	mg/l	0.0005	1	7470A	0802 15:00	0804 14:52	DM
Selenium, Dissolved	ND	mg/l	0.005	1	6010B	0802 09:50	0805 09:18	RW
Silver, Dissolved	ND	mg/l	0.007	1	6010B	0802 09:50	0805 09:18	RW
Volatile Organics by GC/MS 8260				1	8260B		0805 14:09	RY
Methylene chloride	ND	ug/l	10.					
1,1-Dichloroethane	ND	ug/l	1.5					
Chloroform	ND	ug/l	1.5					
Carbon tetrachloride	ND	ug/l	1.0					
1,2-Dichloropropane	ND	ug/l	3.5					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0207615-03
MW-5

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1 8260B		0805 14:09	RY
Dibromochloromethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.5				
Tetrachloroethene	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	5.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1,1-Trichloroethane	ND	ug/l	1.0				
Bromodichloromethane	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
1,1-Dichloropropene	ND	ug/l	5.0				
Bromoform	ND	ug/l	1.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Benzene	>100	ug/l	1				
Toluene	ND	ug/l	1.5				
Ethylbenzene	>100	ug/l	1				
Chloromethane	ND	ug/l	5.0				
Bromomethane	ND	ug/l	2.0				
Vinyl chloride	ND	ug/l	2.0				
Chloroethane	ND	ug/l	2.0				
1,1-Dichloroethene	ND	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.5				
Trichloroethene	ND	ug/l	1.0				
1,2-Dichlorobenzene	ND	ug/l	5.0				
1,3-Dichlorobenzene	ND	ug/l	5.0				
1,4-Dichlorobenzene	ND	ug/l	5.0				
Methyl tert butyl ether	ND	ug/l	2.0				
p/m-Xylene	ND	ug/l	1.0				
o-Xylene	7.2	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
Dibromomethane	ND	ug/l	10.				
1,4-Dichlorobutane	ND	ug/l	10.				
Iodomethane	ND	ug/l	10.				
1,2,3-Trichloropropane	ND	ug/l	10.				
Styrene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
Acetone	ND	ug/l	10.				
Carbon disulfide	ND	ug/l	10.				
2-Butanone	ND	ug/l	10.				
Vinyl acetate	ND	ug/l	10.				
4-Methyl-2-pentanone	ND	ug/l	10.				
2-Hexanone	ND	ug/l	10.				
Ethyl methacrylate	ND	ug/l	10.				
Acrolein	ND	ug/l	25.				
Acrylonitrile	ND	ug/l	10.				
Bromochloromethane	ND	ug/l	5.0				
Tetrahydrofuran	ND	ug/l	20.				
2,2-Dichloropropane	ND	ug/l	5.0				
1,2-Dibromoethane	ND	ug/l	5.0				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0207615-03
MW-5

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		0805 14:09	RY
1,3-Dichloropropane	ND	ug/l	5.0					
1,1,1,2-Tetrachloroethane	ND	ug/l	1.0					
Bromobenzene	ND	ug/l	5.0					
n-Butylbenzene	ND	ug/l	1.0					
sec-Butylbenzene	ND	ug/l	1.0					
tert-Butylbenzene	ND	ug/l	5.0					
o-Chlorotoluene	ND	ug/l	5.0					
p-Chlorotoluene	ND	ug/l	5.0					
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0					
Hexachlorobutadiene	ND	ug/l	5.0					
Isopropylbenzene	20.	ug/l	1.0					
p-Isopropyltoluene	ND	ug/l	1.0					
Naphthalene	9.3	ug/l	5.0					
n-Propylbenzene	7.9	ug/l	1.0					
1,2,3-Trichlorobenzene	ND	ug/l	5.0					
1,2,4-Trichlorobenzene	ND	ug/l	5.0					
1,3,5-Trimethylbenzene	ND	ug/l	5.0					
1,2,4-Trimethylbenzene	ND	ug/l	5.0					
trans-1,4-Dichloro-2-butene	ND	ug/l	5.0					
Ethyl ether	ND	ug/l	5.0					
Surrogate Recovery								
1,2-Dichloroethane-d4	100.	%						
Toluene-d8	102.	%						
4-Bromofluorobenzene	105.	%						
Dibromofluoromethane	100.	%						
Volatile Organics by GC/MS 8260				1	8260B		0806 18:39	RY
Benzene	250	ug/l	5.0					
Ethylbenzene	180	ug/l	5.0					
Surrogate Recovery								
1,2-Dichloroethane-d4	108.	%						
Toluene-d8	101.	%						
4-Bromofluorobenzene	117.	%						
Dibromofluoromethane	104.	%						
PNA's by GC/MS 8270				1	8270C	0802 19:45	0805 15:47	HL
Acenaphthene	ND	ug/l	5.2					
2-Chloronaphthalene	ND	ug/l	6.2					
Fluoranthene	ND	ug/l	5.2					
Naphthalene	ND	ug/l	5.2					
Benzo(a)anthracene	ND	ug/l	5.2					
Benzo(a)pyrene	ND	ug/l	5.2					
Benzo(b)fluoranthene	ND	ug/l	5.2					
Benzo(k)fluoranthene	ND	ug/l	5.2					
Chrysene	ND	ug/l	5.2					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0207615-03
MW-5

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
PNA's by GC/MS 8270 continued				1 8270C	0802 19:45	0805 15:47	HL
Acenaphthylene	ND	ug/l	5.2				
Anthracene	ND	ug/l	5.2				
Benzo(ghi)perylene	ND	ug/l	5.2				
Fluorene	ND	ug/l	5.2				
Phenanthrene	ND	ug/l	5.2				
Dibenzo(a,h)anthracene	ND	ug/l	5.2				
Indeno(1,2,3-cd)pyrene	ND	ug/l	7.3				
Pyrene	ND	ug/l	5.2				
Benzo(e)pyrene	ND	ug/l	5.2				
Biphenyl	ND	ug/l	5.2				
Perylene	ND	ug/l	5.2				
1-Methylnaphthalene	13.	ug/l	5.2				
2-Methylnaphthalene	ND	ug/l	8.3				
Surrogate Recovery							
Nitrobenzene-d5	60.0	%					
2-Fluorobiphenyl	65.0	%					
4-Terphenyl-d14	75.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0207615

Parameter	Value 1	Value 2	RPD	Units
Alkalinity, Total for sample(s) 01,03 (L0207618-01, WG119169)				
Alkalinity, Total	330	330	0	mg CaCO3/L
Cyanide, Total for sample(s) 01-03 (L0207618-03, WG119157)				
Cyanide, Total	7.00	7.42	6	mg/l
Cyanide, Physiologically Available for sample(s) 01-03 (L0207647-17, WG119424)				
Cyanide, Physiologically Available	0.011	0.011	3	mg/l
Nitrogen, Nitrite for sample(s) 01,03 (L0207618-01, WG119039)				
Nitrogen, Nitrite	0.12	0.12	0	mg/l
Nitrogen, Nitrate for sample(s) 01,03 (L0207587-04, WG119024)				
Nitrogen, Nitrate	ND	ND	NC	mg/l
Nitrogen, Total Kjeldahl for sample(s) 01,03 (L0207365-24, WG119292)				
Nitrogen, Total Kjeldahl	ND	ND	NC	mg/l
Sulfate for sample(s) 01,03 (L0207647-11, WG119505)				
Sulfate	28.	28.	0	mg/l
Dissolved Metals for sample(s) 01-03 (L0207618-03, WG119203)				
Arsenic, Dissolved	ND	ND	NC	mg/l
Barium, Dissolved	0.04	0.04	0	mg/l
Cadmium, Dissolved	ND	ND	NC	mg/l
Chromium, Dissolved	ND	ND	NC	mg/l
Lead, Dissolved	ND	ND	NC	mg/l
Selenium, Dissolved	ND	ND	NC	mg/l
Silver, Dissolved	ND	ND	NC	mg/l
Dissolved Metals for sample(s) 01-03 (L0207618-03, WG119126)				
Mercury, Dissolved	ND	ND	NC	mg/l

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0207615

Parameter	% Recovery
Alkalinity, Total LCS for sample(s) 01,03 (WG119169)	
Alkalinity, Total	102
Cyanide, Total LCS for sample(s) 01-03 (WG119157)	
Cyanide, Total	108
Cyanide, Physiologically Available LCS for sample(s) 01-03 (WG119424)	
Cyanide, Physiologically Available	112
Nitrogen, Nitrite LCS for sample(s) 01,03 (WG119039)	
Nitrogen, Nitrite	100
Nitrogen, Nitrate LCS for sample(s) 01,03 (WG119024)	
Nitrogen, Nitrate	100
Nitrogen, Total Kjeldahl LCS for sample(s) 01,03 (WG119292)	
Nitrogen, Total Kjeldahl	98
Sulfate LCS for sample(s) 01,03 (WG119505)	
Sulfate	100
Dissolved Metals LCS for sample(s) 01-03 (WG119203)	
Arsenic, Dissolved	104
Barium, Dissolved	100
Cadmium, Dissolved	107
Chromium, Dissolved	100
Lead, Dissolved	105
Selenium, Dissolved	103
Silver, Dissolved	98
Dissolved Metals LCS for sample(s) 01-03 (WG119126)	
Mercury, Dissolved	112
Volatile Organics by GC/MS 8260 LCS for sample(s) 01-03 (WG119334)	
Chlorobenzene	112
Benzene	110
Toluene	113
1,1-Dichloroethene	109
Trichloroethene	111
Surrogate Recovery	
1,2-Dichloroethane-d4	103
Toluene-d8	99
4-Bromofluorobenzene	100
Dibromofluoromethane	101

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0207615

Continued

Parameter	% Recovery
Volatile Organics by GC/MS 8260 LCS for sample(s) 03 (WG119334)	
Chlorobenzene	97
Benzene	97
Toluene	99
1,1-Dichloroethene	91
Trichloroethene	97
Surrogate Recovery	
1,2-Dichloroethane-d4	103
Toluene-d8	101
4-Bromofluorobenzene	101
Dibromofluoromethane	102
PNA's by GC/MS 8270 LCS for sample(s) 01-03 (WG119178)	
Acenaphthene	82
1,2,4-Trichlorobenzene	71
2-Chloronaphthalene	84
1,2-Dichlorobenzene	64
1,4-Dichlorobenzene	64
2,4-Dinitrotoluene	190
2,6-Dinitrotoluene	130
Fluoranthene	100
4-Chlorophenyl phenyl ether	89
n-Nitrosodi-n-propylamine	74
Butyl benzyl phthalate	110
Anthracene	94
Pyrene	100
Hexachloropropene	74
P-Chloro-M-Cresol	90
2-Chlorophenol	66
2-Nitrophenol	76
4-Nitrophenol	14
2,4-Dinitrophenol	81
Pentachlorophenol	88
Phenol	29
Surrogate Recovery	
2-Fluorophenol	41
Phenol-d6	30
Nitrobenzene-d5	81
2-Fluorobiphenyl	81
2,4,6-Tribromophenol	115
4-Terphenyl-d14	86
Alkalinity, Total SPIKE for sample(s) 01,03 (L0207359-01, WG119169)	
Alkalinity, Total	102

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0207615

Continued

Parameter	% Recovery
Nitrogen, Nitrite SPIKE for sample(s) 01,03 (L0207615-01, WG119039)	
Nitrogen, Nitrite	100
Nitrogen, Nitrate SPIKE for sample(s) 01,03 (L0207587-01, WG119024)	
Nitrogen, Nitrate	100
Nitrogen, Total Kjeldahl SPIKE for sample(s) 01,03 (L0207365-17, WG119292)	
Nitrogen, Total Kjeldahl	96
Sulfate SPIKE for sample(s) 01,03 (L0207615-01, WG119505)	
Sulfate	101
Dissolved Metals SPIKE for sample(s) 01-03 (L0207618-03, WG119203)	
Arsenic, Dissolved	106
Barium, Dissolved	98
Cadmium, Dissolved	101
Chromium, Dissolved	95
Lead, Dissolved	100
Selenium, Dissolved	106
Silver, Dissolved	96
Dissolved Metals SPIKE for sample(s) 01-03 (L0207618-03, WG119126)	
Mercury, Dissolved	123

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0207615

Parameter	MS %	MSD %	RPD
Volatile Organics by GC/MS 8260 for sample(s) 01-03 (L0207581-01, WG119334)			
Chlorobenzene	109	112	3
Benzene	107	103	4
Toluene	104	115	10
1,1-Dichloroethene	111	105	6
Trichloroethene	116	111	4
PNA's by GC/MS 8270 for sample(s) 01-03 (L0207618-03, WG119178)			
Acenaphthene	84	79	6
1,2,4-Trichlorobenzene	74	59	23
2-Chloronaphthalene	89	79	12
1,2-Dichlorobenzene	74	54	31
1,4-Dichlorobenzene	74	59	23
2,4-Dinitrotoluene	210	190	10
2,6-Dinitrotoluene	120	120	0
Fluoranthene	99	94	5
4-Chlorophenyl phenyl ether	89	84	6
n-Nitrosodi-n-propylamine	74	59	23
Butyl benzyl phthalate	100	100	0
Anthracene	89	89	0
Pyrene	99	99	0
Hexachloropropene	79	64	21
P-Chloro-M-Cresol	97	92	5
2-Chlorophenol	72	57	23
2-Nitrophenol	79	62	24
4-Nitrophenol	23	23	0
2,4-Dinitrophenol	64	59	8
Pentachlorophenol	79	74	7
Phenol	47	40	16

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0207615

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01,03								
Alkalinity, Total	ND	mg CaCO3/L	2.0	30	2320B		0802 19:16	DP
Blank Analysis for sample(s) 01-03								
Cyanide, Total	ND	mg/l	0.005	1	9010B	0802 17:09	0806 13:38	ED
Blank Analysis for sample(s) 01-03								
Cyanide, Physiologically Available	ND	mg/l	0.005	45		0806 17:26	0808 12:43	ED
Blank Analysis for sample(s) 01,03								
Nitrogen, Nitrite	ND	mg/l	0.10	30	4500NO3-F		0801 21:12	DD
Blank Analysis for sample(s) 01,03								
Nitrogen, Nitrate	ND	mg/l	0.10	30	4500NO3-F		0801 20:35	DD
Blank Analysis for sample(s) 01,03								
Nitrogen, Total Kjeldahl	ND	mg/l	0.05	30	4500N-C	0805 19:00	0807 13:36	ED
Blank Analysis for sample(s) 01,03								
Sulfate	ND	mg/l	10.	1	9038		0807 16:00	DD
Blank Analysis for sample(s) 01-03								
Dissolved Metals								
Arsenic, Dissolved	ND	mg/l	0.005	1	6010B	0802 09:50	0805 08:59	RW
Barium, Dissolved	ND	mg/l	0.01	1	6010B	0802 09:50	0805 08:59	RW
Cadmium, Dissolved	ND	mg/l	0.005	1	6010B	0802 09:50	0805 08:59	RW
Chromium, Dissolved	ND	mg/l	0.01	1	6010B	0802 09:50	0805 08:59	RW
Lead, Dissolved	ND	mg/l	0.010	1	6010B	0802 09:50	0805 08:59	RW
Selenium, Dissolved	ND	mg/l	0.005	1	6010B	0802 09:50	0805 08:59	RW
Silver, Dissolved	ND	mg/l	0.007	1	6010B	0802 09:50	0805 08:59	RW
Blank Analysis for sample(s) 01-03								
Dissolved Metals								
Mercury, Dissolved	ND	mg/l	0.0005	1	7470A	0802 15:00	0804 14:15	DM
Blank Analysis for sample(s) 01-03								
Volatile Organics by GC/MS 8260				1	8260B		0805 10:10	RY
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0207615

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-03								
Volatile Organics by GC/MS 8260 continued				1	8260B		0805 10:10	RY
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	0.50					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	ND	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	ND	ug/l	1.0					
p/m-Xylene	ND	ug/l	0.50					
o-Xylene	ND	ug/l	0.50					
cis-1,2-Dichloroethene	ND	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,4-Dichlorobutane	ND	ug/l	5.0					
Iodomethane	ND	ug/l	5.0					
1,2,3-Trichloropropane	ND	ug/l	5.0					
Styrene	ND	ug/l	0.50					
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
Vinyl acetate	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Ethyl methacrylate	ND	ug/l	5.0					
Acrolein	ND	ug/l	12.					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0207615

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-03							
Volatile Organics by GC/MS 8260 continued				1 8260B		0805 13:10	RY
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.5				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	2.5				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Surrogate Recovery							
1,2-Dichloroethane-d4	102.	%					
Toluene-d8	100.	%					
4-Bromofluorobenzene	113.	%					
Dibromofluoromethane	102.	%					
Blank Analysis for sample(s) 03							
Volatile Organics by GC/MS 8260				1 8260B		0806 10:51	RY
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	ND	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0207615

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 03								
Volatile Organics by GC/MS 8260 continued				1	8260B		0806 10:51	RY
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	0.50					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	ND	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	ND	ug/l	1.0					
p/m-Xylene	ND	ug/l	0.50					
o-Xylene	ND	ug/l	0.50					
cis-1,2-Dichloroethene	ND	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,4-Dichlorobutane	ND	ug/l	5.0					
Iodomethane	ND	ug/l	5.0					
1,2,3-Trichloropropane	ND	ug/l	5.0					
Styrene	ND	ug/l	0.50					
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
Vinyl acetate	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Ethyl methacrylate	ND	ug/l	5.0					
Acrolein	ND	ug/l	12.					
Acrylonitrile	ND	ug/l	5.0					
Bromochloromethane	ND	ug/l	2.5					
Tetrahydrofuran	ND	ug/l	10.					
2,2-Dichloropropane	ND	ug/l	2.5					
1,2-Dibromoethane	ND	ug/l	2.5					
1,3-Dichloropropane	ND	ug/l	2.5					
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50					
Bromobenzene	ND	ug/l	2.5					
n-Butylbenzene	ND	ug/l	0.50					
sec-Butylbenzene	ND	ug/l	0.50					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0207615

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 03							
Volatile Organics by GC/MS 8260 continued				1 8260B		0806 10:51	RY
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	2.5				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Surrogate Recovery							
1,2-Dichloroethane-d4	106.	%					
Toluene-d8	103.	%					
4-Bromofluorobenzene	115.	%					
Dibromofluoromethane	105.	%					
Blank Analysis for sample(s) 01-03							
PNA's by GC/MS 8270				1 8270C	0802 19:45	0804 20:47	HL
Acenaphthene	ND	ug/l	5.0				
Hexachlorobenzene	ND	ug/l	5.0				
2-Chloronaphthalene	ND	ug/l	5.0				
Fluoranthene	ND	ug/l	5.0				
Naphthalene	ND	ug/l	5.0				
Benzo(a)anthracene	ND	ug/l	5.0				
Benzo(a)pyrene	ND	ug/l	5.0				
Benzo(b)fluoranthene	ND	ug/l	5.0				
Benzo(k)fluoranthene	ND	ug/l	5.0				
Chrysene	ND	ug/l	5.0				
Acenaphthylene	ND	ug/l	5.0				
Anthracene	ND	ug/l	5.0				
Benzo(ghi)perylene	ND	ug/l	5.0				
Fluorene	ND	ug/l	5.0				
Phenanthrene	ND	ug/l	5.0				
Dibenzo(a,h)anthracene	ND	ug/l	5.0				
Indeno(1,2,3-cd)pyrene	ND	ug/l	5.0				
Pyrene	ND	ug/l	5.0				
Benzo(e)pyrene	ND	ug/l	5.0				
Biphenyl	ND	ug/l	5.0				
Perylene	ND	ug/l	5.0				
1-Methylnaphthalene	ND	ug/l	5.0				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: LC207615

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-03								
PNA's by GC/MS 8270 continued				1	8270C	0802 19:45	0804 20:47	HL
2-Methylnaphthalene	ND	ug/l	5.0					
Pentachlorophenol	ND	ug/l	5.0					
Surrogate Recovery								
Nitrobenzene-d5	64.0	%						
2-Fluorobiphenyl	60.0	%						
4-Terphenyl-d14	88.0	%						

REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Update III, 1997.

30. Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

45. Physiologically Available Cyanide (PAC), January 1996 Protocol, Mass DEP 1996.

GLOSSARY OF TERMS AND SYMBOLS

REF Reference number in which test method may be found.
METHOD Method number by which analysis was performed.
ID Initials of the analyst.

Please note that all solid samples are reported on dry weight basis unless noted otherwise.

LIMITATION OF LIABILITIES

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.

Quality Control Acceptance Criteria

Volatile Organics by Method 8260B

surrogate spike % recovery	AQ Limits		Soil Limits	
	LCL	UCL	LCL	UCL
1,2-Dichloroethane-d_4	75%	125%	75%	125%
4-Bromofluorobenzene	75%	125%	75%	125%
Toluene-d_8	75%	125%	75%	125%
Dibromofluoromethane	75%	125%	75%	125%

matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	percent recovery				duplicate and/or MSD	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
1,1-Dichloroethene	61%	145%	59%	172%	all target compounds	
Trichloroethene	71%	120%	62%	137%	20%	30%
Chlorobenzene	75%	130%	60%	133%		
Benzene	76%	127%	66%	142%		
Toluene	76%	125%	59%	139%		

Volatile Organics by Method 8021B

surrogate spike % recovery	AQ Limits		Soil Limits	
	LCL	UCL	LCL	UCL
4-Bromochlorobenzene	70%	110%	70%	120%
4-Bromofluorobenzene	70%	110%	70%	120%

matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	percent recovery				duplicate and/or MSD	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
1,1-Dichloroethene	70%	130%	70%	130%	all target compounds	
Trichloroethene	70%	130%	70%	130%	20%	30%
Chlorobenzene	70%	130%	70%	130%		
Benzene	70%	130%	70%	130%		
Toluene	70%	130%	70%	130%		
Ethylbenzene	70%	130%	70%	130%		

Semi-Volatile Organics by Method 8270C (includes PAHs)

surrogate spike % recovery	AQ Limits		Soil Limits	
	LCL	UCL	LCL	UCL
Nitrobenzene-d_5	23%	120%	23%	120%
Phenol-d_6	10%	120%	10%	120%
2-Fluorophenol	21%	120%	25%	120%
2-Fluorobiphenyl	43%	120%	30%	120%
p-Terphenyl-d_{14}	33%	120%	18%	120%
2,4,6-Tribromophenol	10%	120%	19%	120%

matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	percent recovery				duplicate and/or MSD	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
1,2,4-Trichlorobenzene	39%	98%	38%	107%	all target compounds	
Acenaphthene	46%	118%	31%	137%	40%	50%
2,4-Dinitrotoluene	24%	96%	28%	89%		
Pyrene	26%	127%	35%	142%		
N-Nitroso-di-n-propylamine	41%	116%	41%	126%		
1,4-Dichlorobenzene	36%	97%	28%	104%		
Pentachlorophenol	9%	103%	17%	109%		
Phenol	12%	110%	26%	90%		
2-Chlorophenol	27%	123%	25%	102%		
4-Chloro-3-methylphenol	23%	97%	26%	103%		
4-Nitrophenol	10%	80%	11%	114%		

Quality Control Acceptance Criteria

PCB/Pesticides by Method 8082/8081

surrogate spike % recovery	AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL		
2,4,5,6-Tetrachloro-m-xylene	40%	120%	40%	120%		
Decachlorobiphenyl	30%	150%	30%	150%		
matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	**percent recovery**				**duplicate and/or MSD**	
	AQ Limits		**Soil Limits**		**AQ Limits**	**Soil Limits**
	LCL	**UCL**	**LCL**	**UCL**	**RPD**	**RPD**
Lindane	56%	123%	46%	127%	all target compounds	
Heptachlor	40%	131%	35%	130%	30%	50%
Aldrin	40%	120%	34%	132%		
Dieldrin	52%	126%	31%	134%		
Endrin	56%	121%	42%	139%		
4,4'-DDT	38%	127%	23%	134%		
Aroclor 1242/1016	40%	140%	40%	140%		
Aroclor 1260	40%	140%	40%	140%		

Volatile Petroleum Hydrocarbons (VPH) by MA DEP 98-1

surrogate spike % recovery	AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL		
2,5-Dibromotoluene	70%	130%	70%	130%		
	percent recovery				**duplicate**	
laboratory control sample (LCS)	**AQ Limits**		**Soil Limits**		**AQ Limits**	**Soil Limits**
	LCL	**UCL**	**LCL**	**UCL**	**RPD**	**RPD**
all compounds	70%	130%	70%	130%	50%	50%

Extractable Petroleum Hydrocarbons (EPH) by MA DEP 98-1

surrogate spike % recovery	AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL		
Chloro-octadecane	40%	140%	40%	140%		
ortho-Terphenyl	40%	140%	40%	140%		
2-Fluorobiphenyl (fractionation)	40%	140%	40%	140%		
2-Bromonaphthalene (fractionation)	40%	140%	40%	140%		
	percent recovery				**duplicate**	
laboratory control sample (LCS)	**AQ Limits**		**Soil Limits**		**AQ Limits**	**Soil Limits**
	LCL	**UCL**	**LCL**	**UCL**	**RPD**	**RPD**
all compounds	40%	140%	40%	140%	50%	50%

TPH (GC-FID) by Method 8100M

surrogate spike % recovery	AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL	duplicate AQ Limits RPD	duplicate Soil Limits RPD
ortho-Terphenyl	40%	140%	40%	140%	40%	40%

TPH by Method 418.1

matrix spike (MS) & laboratory control sample (LCS)	percent recovery AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL	duplicate AQ Limits RPD	duplicate Soil Limits RPD
TPH	60%	140%	60%	140%	40%	40%

Quality Control Acceptance Criteria

Trace Metals by Method 6010B/7000 series

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
target analyte	75%	125%	70%	140%	20%	35%

Mercury by Method 7470A/7471A

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
mercury	70%	130%	60%	140%	35%	45%

Total Cyanide by Method 9010B

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
cyanide	80%	120%	65%	135%	30%	40%

Total Phenol by Method 9065

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
phenol	70%	130%	65%	135%	20%	30%

HALEY & ALDRICH
Haley & Aldrich, Inc.
465 Medford St.,
Suite 2200,
Boston, MA 02129-1400

CHAIN OF CUSTODY RECORD

Phone (617) 886-7400
Fax (617) 886-7600

H&A FILE NO. 06558 631
PROJECT NAME Former MGP Site, Malden, MA
H&A CONTACT S. Carroll

LABORATORY Alpha Analytical
ADDRESS Westborough, MA
CONTACT Peter Hetrick/Joan

DELIVERY DATE 8/1/02
TURNAROUND TIME Standard
PROJECT MANAGER Bruce Wilkins

Analysis Requested

Sample No.	Date	Time	Depth	Type	(1) VOC	(2) PAH (SVOC)	(3) Metals RCRA (8) PP(13)	(4) Pesticides PCBs	(5) VPH TPH Cyanide	(6) EPH Full Scan Cyanide	(7) TPH	(8) TCLP (all)	Reactivity Ignitability Corrosivity				Number of Containers
MW-1	7-31-02	1030	GW	GW	X	X	X	X	X	X	X	X					10
NC-1		1230			X	X	X		X	X							7
MW-5		1500			X	X	X	X	X	X	X	X					10

Comments (special instructions, precautions, additional method numbers, etc.)

(1) VOC 8260
(2) SVOC 8270 (PAH ONLY)
(3) RCRA 8 METALS (Field Filtered)
(4) NO_2, NO_3, SO_4
(5) TCN
(6) PAC
(7) TKN
(8) TOTAL ALKALINITY

LIQUID 27 TOTAL

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
VOA Vial	X							
Amber Glass		X						
Plastic Bottle			X	X	X	X	X	X
Preservative	A,F	A	A,D	A	A,C	A	A,E	A
Volume	40ml	1L	500ml	500ml	250ml	250ml	250ml	250ml

SOLID

VOA Vial								
Amber Glass								
Clear Glass								
Preservative								
Volume								

Sampling Comments
Run PAC only if TCN detected
NOTE: 48 Hr Holding Time For NO_2

Evidence samples were tampered with? YES NO
If YES, please explain in section below.

Sampled and Relinquished by	Received by
Sign [signature]	Sign [signature]
Print Dwight Warner	Print [signature]
Firm H&A	Firm H&A
Date 7-31-02 Time 1700	Date 7/31/02 Time 17:00
Relinquished by	**Received by**
Sign [signature]	Sign [signature]
Print [signature]	Print Lunsford
Firm H&A	Firm Alpha
Date 8/1/02 Time 6:30	Date 8/1/02 Time 630
Relinquished by	**Received by**
Sign [signature]	Sign [signature]
Print	Print
Firm	Firm
Date Time	Date 8/1 Time 1915

PRESERVATION KEY

A Sample chilled
B Sample filtered
C NaOH
D HNO_3
E H_2SO_4
F HCL
G Methanol
H Sodium Bisulfate

WHITE - Laboratory CANARY - Project Manager PINK - Haley & Aldrich Laboratory GOLDENROD - Haley & Aldrich Contact

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220 www.alphalab.com

AUG 12 2002
Haley & Aldrich

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

Client: Haley & Aldrich, Inc.

Address: 465 Medford Street, Suite 2200
Boston, MA 02129-1400

Attn: Mr. Steve Provencal

Project Number: 06558-631

Site: FORMER MGP SITE

Laboratory Job Number: L0207618

Invoice Number: 66705

Date Received: 01-AUG-02

Date Reported: 08-AUG-02

Delivery Method: Alpha

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0207618-01	NC-3	MALDEN, MA
L0207618-02	BO2-1	MALDEN, MA
L0207618-03	97B-B628OW	MALDEN, MA
L0207618-04	97B-B627OW	MALDEN, MA
L0207618-05	97B-B617OW	MALDEN, MA

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by: Scott McLean

Scott McLean - Technical Director
This document electronically signed

ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT

Laboratory Job Number: L0207618

Alpha Report L0207618:

SemiVolatile Organics

One or more Laboratory Control Sample and Matrix Spike/Matrix Spike Duplicate percent recoveries are outside the individual acceptance criteria for the compounds, but within the overall method allowances. No further action was taken.

Alpha Samples L0207618-01 through -03 and -05 have elevated limits of detection due to analytical dilutions required by the matrix of the samples.

No surrogates could be recovered on Alpha Sample L0207618-05 due to sample matrix. The surrogates were diluted out in order to quantitate the sample.

Volatile Organics

Alpha Samples L0207618-01, -02 and -05 have elevated limits of detection due to the dilutions required by the elevated concentrations of target compounds in the samples.

Physiologically Available Cyanide

The matrix spike percent recovery is invalid because the sample concentration is greater than four times the spike amount added.

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0207618-01
NC-3
Sample Matrix: WATER

Date Collected: 01-AUG-2002 08:30
Date Received : 01-AUG-2002
Date Reported : 08-AUG-2002

Condition of Sample: Satisfactory

Field Prep: Field Filtered

Number & Type of Containers: 2-Amber,6-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Alkalinity, Total	330	mg CaCO3/L	2.0	30	2320B		0802 19:18	DP
Cyanide, Total	0.157	mg/l	0.005	1	9010B	0802 17:09	0806 14:06	ED
Cyanide, Physiologically Available	0.010	mg/l	0.005	45		0807 16:51	0808 13:32	ED
Nitrogen, Nitrite	0.12	mg/l	0.10	30	4500NO3-F		0801 21:16	DD
Nitrogen, Nitrate	1.3	mg/l	0.10	30	4500NO3-F		0801 21:16	DD
Nitrogen, Total Kjeldahl	1.3	mg/l	0.15	30	4500N-C	0805 19:00	0807 13:53	ED
Sulfate	59.	mg/l	20.	1	9038		0807 16:30	DD
Dissolved Metals								
Arsenic, Dissolved	0.022	mg/l	0.005	1	6010B	0802 09:50	0805 09:22	RW
Barium, Dissolved	0.11	mg/l	0.01	1	6010B	0802 09:50	0805 09:22	RW
Cadmium, Dissolved	ND	mg/l	0.005	1	6010B	0802 09:50	0805 09:22	RW
Chromium, Dissolved	ND	mg/l	0.01	1	6010B	0802 09:50	0805 09:22	RW
Lead, Dissolved	ND	mg/l	0.010	1	6010B	0802 09:50	0805 09:22	RW
Mercury, Dissolved	ND	mg/l	0.0005	1	7470A	0802 15:00	0804 14:54	DM
Selenium, Dissolved	ND	mg/l	0.005	1	6010B	0802 09:50	0805 09:22	RW
Silver, Dissolved	ND	mg/l	0.007	1	6010B	0802 09:50	0805 09:22	RW
Volatile Organics by GC/MS 8260				1	8260B		0806 18:38	AR
Methylene chloride	ND	ug/l	1000					
1,1-Dichloroethane	ND	ug/l	150					
Chloroform	ND	ug/l	150					
Carbon tetrachloride	ND	ug/l	100					
1,2-Dichloropropane	ND	ug/l	350					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0207618-01
NC-3

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1 8260B		0806 18:38	AR
Dibromochloromethane	ND	ug/l	100				
1,1,2-Trichloroethane	ND	ug/l	150				
Tetrachloroethene	ND	ug/l	100				
Chlorobenzene	ND	ug/l	100				
Trichlorofluoromethane	ND	ug/l	500				
1,2-Dichloroethane	ND	ug/l	100				
1,1,1-Trichloroethane	ND	ug/l	100				
Bromodichloromethane	ND	ug/l	100				
trans-1,3-Dichloropropene	ND	ug/l	100				
cis-1,3-Dichloropropene	ND	ug/l	100				
1,1-Dichloropropene	ND	ug/l	500				
Bromoform	ND	ug/l	100				
1,1,2,2-Tetrachloroethane	ND	ug/l	100				
Benzene	12000	ug/l	100				
Toluene	250	ug/l	150				
Ethylbenzene	1300	ug/l	100				
Chloromethane	ND	ug/l	500				
Bromomethane	ND	ug/l	200				
Vinyl chloride	ND	ug/l	200				
Chloroethane	ND	ug/l	200				
1,1-Dichloroethene	ND	ug/l	100				
trans-1,2-Dichloroethene	ND	ug/l	150				
Trichloroethene	ND	ug/l	100				
1,2-Dichlorobenzene	ND	ug/l	500				
1,3-Dichlorobenzene	ND	ug/l	500				
1,4-Dichlorobenzene	ND	ug/l	500				
Methyl tert butyl ether	ND	ug/l	200				
p/m-Xylene	190	ug/l	100				
o-Xylene	ND	ug/l	100				
cis-1,2-Dichloroethene	ND	ug/l	100				
Dibromomethane	ND	ug/l	1000				
1,4-Dichlorobutane	ND	ug/l	1000				
Iodomethane	ND	ug/l	1000				
1,2,3-Trichloropropane	ND	ug/l	1000				
Styrene	ND	ug/l	100				
Dichlorodifluoromethane	ND	ug/l	1000				
Acetone	ND	ug/l	1000				
Carbon disulfide	ND	ug/l	1000				
2-Butanone	ND	ug/l	1000				
Vinyl acetate	ND	ug/l	1000				
4-Methyl-2-pentanone	ND	ug/l	1000				
2-Hexanone	ND	ug/l	1000				
Ethyl methacrylate	ND	ug/l	1000				
Acrolein	ND	ug/l	2500				
Acrylonitrile	ND	ug/l	1000				
Bromochloromethane	ND	ug/l	500				
Tetrahydrofuran	ND	ug/l	2000				
2,2-Dichloropropane	ND	ug/l	500				
1,2-Dibromoethane	ND	ug/l	500				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0207618-01
NC-3

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		0806 18:38	AR
1,3-Dichloropropane	ND	ug/l	500					
1,1,1,2-Tetrachloroethane	ND	ug/l	100					
Bromobenzene	ND	ug/l	500					
n-Butylbenzene	ND	ug/l	100					
sec-Butylbenzene	ND	ug/l	100					
tert-Butylbenzene	ND	ug/l	500					
o-Chlorotoluene	ND	ug/l	500					
p-Chlorotoluene	ND	ug/l	500					
1,2-Dibromo-3-chloropropane	ND	ug/l	500					
Hexachlorobutadiene	ND	ug/l	500					
Isopropylbenzene	ND	ug/l	100					
p-Isopropyltoluene	ND	ug/l	100					
Naphthalene	ND	ug/l	500					
n-Propylbenzene	ND	ug/l	100					
1,2,3-Trichlorobenzene	ND	ug/l	500					
1,2,4-Trichlorobenzene	ND	ug/l	500					
1,3,5-Trimethylbenzene	ND	ug/l	500					
1,2,4-Trimethylbenzene	ND	ug/l	500					
trans-1,4-Dichloro-2-butene	ND	ug/l	500					
Ethyl ether	ND	ug/l	500					
Surrogate Recovery								
1,2-Dichloroethane-d4	94.0	%						
Toluene-d8	102.	%						
4-Bromofluorobenzene	110.	%						
Dibromofluoromethane	98.0	%						
SVOC's by GC/MS 8270				1	8270C	0802 19:45	0804 23:50	HL
Acenaphthene	ND	ug/l	10.					
Benzidine	ND	ug/l	100					
1,2,4-Trichlorobenzene	ND	ug/l	10.					
Hexachlorobenzene	ND	ug/l	10.					
Bis(2-chloroethyl)ether	ND	ug/l	10.					
1-Chloronaphthalene	ND	ug/l	10.					
2-Chloronaphthalene	ND	ug/l	12.					
1,2-Dichlorobenzene	ND	ug/l	10.					
1,3-Dichlorobenzene	ND	ug/l	10.					
1,4-Dichlorobenzene	ND	ug/l	10.					
3,3'-Dichlorobenzidine	ND	ug/l	100					
2,4-Dinitrotoluene	ND	ug/l	12.					
2,6-Dinitrotoluene	ND	ug/l	10.					
Azobenzene	ND	ug/l	10.					
Fluoranthene	ND	ug/l	10.					
4-Chlorophenyl phenyl ether	ND	ug/l	10.					
4-Bromophenyl phenyl ether	ND	ug/l	10.					
Bis(2-chloroisopropyl)ether	ND	ug/l	10.					
Bis(2-chloroethoxy)methane	ND	ug/l	10.					
Hexachlorobutadiene	ND	ug/l	20.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0207618-01
NC-3

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1	8270C	0802 19:45	0804 23:50	HL
Hexachlorocyclopentadiene	ND	ug/l	20.					
Hexachloroethane	ND	ug/l	10.					
Isophorone	ND	ug/l	10.					
Naphthalene	72.	ug/l	10.					
Nitrobenzene	ND	ug/l	10.					
NDPA/DPA	ND	ug/l	30.					
n-Nitrosodi-n-propylamine	ND	ug/l	10.					
Bis(2-ethylhexyl)phthalate	ND	ug/l	20.					
Butyl benzyl phthalate	ND	ug/l	10.					
Di-n-butylphthalate	ND	ug/l	10.					
Di-n-octylphthalate	ND	ug/l	10.					
Diethyl phthalate	ND	ug/l	10.					
Dimethyl phthalate	ND	ug/l	10.					
Benzo(a)anthracene	ND	ug/l	10.					
Benzo(a)pyrene	ND	ug/l	10.					
Benzo(b)fluoranthene	ND	ug/l	10.					
Benzo(k)fluoranthene	ND	ug/l	10.					
Chrysene	ND	ug/l	10.					
Acenaphthylene	ND	ug/l	10.					
Anthracene	ND	ug/l	10.					
Benzo(ghi)perylene	ND	ug/l	10.					
Fluorene	ND	ug/l	10.					
Phenanthrene	ND	ug/l	10.					
Dibenzo(a,h)anthracene	ND	ug/l	10.					
Indeno(1,2,3-cd)pyrene	ND	ug/l	14.					
Pyrene	ND	ug/l	10.					
Benzo(e)pyrene	ND	ug/l	10.					
Biphenyl	ND	ug/l	10.					
Perylene	ND	ug/l	10.					
Aniline	ND	ug/l	20.					
4-Chloroaniline	ND	ug/l	10.					
1-Methylnaphthalene	25.	ug/l	10.					
2-Nitroaniline	ND	ug/l	10.					
3-Nitroaniline	ND	ug/l	10.					
4-Nitroaniline	ND	ug/l	14.					
Dibenzofuran	ND	ug/l	10.					
a,a-Dimethylphenethylamine	ND	ug/l	100					
Hexachloropropene	ND	ug/l	100					
Nitrosodi-n-butylamine	ND	ug/l	20.					
2-Methylnaphthalene	ND	ug/l	16.					
1,2,4,5-Tetrachlorobenzene	ND	ug/l	40.					
Pentachlorobenzene	ND	ug/l	40.					
a-Naphthylamine	ND	ug/l	40.					
b-Naphthylamine	ND	ug/l	40.					
Phenacetin	ND	ug/l	20.					
Dimethoate	ND	ug/l	40.					
4-Aminobiphenyl	ND	ug/l	20.					
Pentachloronitrobenzene	ND	ug/l	20.					
Isodrin	ND	ug/l	20.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0207618-01
NC-3

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1	8270C	0802 19:45	0804 23:50	HL
p-Dimethylaminoazobenzene	ND	ug/l	20.					
Chlorobenzilate	ND	ug/l	40.					
3-Methylcholanthrene	ND	ug/l	40.					
Ethyl Methanesulfonate	ND	ug/l	30.					
Acetophenone	ND	ug/l	40.					
Nitrosodipiperidine	ND	ug/l	40.					
7,12-Dimethylbenz(a)anthracene	ND	ug/l	20.					
n-Nitrosodimethylamine	ND	ug/l	100					
2,4,6-Trichlorophenol	ND	ug/l	10.					
p-Chloro-m-cresol	ND	ug/l	10.					
2-Chlorophenol	ND	ug/l	12.					
2,4-Dichlorophenol	ND	ug/l	20.					
2,4-Dimethylphenol	ND	ug/l	20.					
2-Nitrophenol	ND	ug/l	40.					
4-Nitrophenol	ND	ug/l	20.					
2,4-Dinitrophenol	ND	ug/l	40.					
4,6-Dinitro-o-cresol	ND	ug/l	40.					
Pentachlorophenol	ND	ug/l	40.					
Phenol	ND	ug/l	14.					
2-Methylphenol	ND	ug/l	12.					
3-Methylphenol/4-Methylphenol	ND	ug/l	12.					
2,4,5-Trichlorophenol	ND	ug/l	10.					
2,6-Dichlorophenol	ND	ug/l	20.					
Benzoic Acid	ND	ug/l	100					
Benzyl Alcohol	ND	ug/l	20.					
Carbazole	ND	ug/l	10.					
Pyridine	ND	ug/l	100					
2-Picoline	ND	ug/l	40.					
Pronamide	ND	ug/l	40.					
Methyl methanesulfonate	ND	ug/l	40.					
Surrogate Recovery								
2-Fluorophenol	33.0	%						
Phenol-d6	24.0	%						
Nitrobenzene-d5	67.0	%						
2-Fluorobiphenyl	72.0	%						
2,4,6-Tribromophenol	119.	%						
4-Terphenyl-d14	91.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0207618-02
BO2-1
Sample Matrix: WATER

Date Collected: 01-AUG-2002 09:30
Date Received : 01-AUG-2002
Date Reported : 08-AUG-2002

Condition of Sample: Satisfactory

Field Prep: Field Filtered

Number & Type of Containers: 2-Amber,3-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Cyanide, Total	0.164	mg/l	0.005	1	9010B	0802 17:09	0805 14:07	ED
Cyanide, Physiologically Available	0.008	mg/l	0.005	45		0807 16:51	0808 14:14	ED
Dissolved Metals								
Arsenic, Dissolved	0.022	mg/l	0.005	1	6010B	0802 09:50	0805 09:27	RW
Barium, Dissolved	0.11	mg/l	0.01	1	6010B	0802 09:50	0805 09:27	RW
Cadmium, Dissolved	ND	mg/l	0.005	1	6010B	0802 09:50	0805 09:27	RW
Chromium, Dissolved	ND	mg/l	0.01	1	6010B	0802 09:50	0805 09:27	RW
Lead, Dissolved	ND	mg/l	0.010	1	6010B	0802 09:50	0805 09:27	RW
Mercury, Dissolved	ND	mg/l	0.0005	1	7470A	0802 15:00	0804 14:56	DM
Selenium, Dissolved	ND	mg/l	0.005	1	6010B	0802 09:50	0805 09:27	RW
Silver, Dissolved	ND	mg/l	0.007	1	6010B	0802 09:50	0805 09:27	RW
Volatile Organics by GC/MS 8260				1	8260B		0805 16:08	AR
Methylene chloride	ND	ug/l	1000					
1,1-Dichloroethane	ND	ug/l	150					
Chloroform	ND	ug/l	150					
Carbon tetrachloride	ND	ug/l	100					
1,2-Dichloropropane	ND	ug/l	350					
Dibromochloromethane	ND	ug/l	100					
1,1,2-Trichloroethane	ND	ug/l	150					
Tetrachloroethene	ND	ug/l	100					
Chlorobenzene	ND	ug/l	100					
Trichlorofluoromethane	ND	ug/l	500					
1,2-Dichloroethane	ND	ug/l	100					
1,1,1-Trichloroethane	ND	ug/l	100					
Bromodichloromethane	ND	ug/l	100					
trans-1,3-Dichloropropene	ND	ug/l	100					
cis-1,3-Dichloropropene	ND	ug/l	100					
1,1-Dichloropropene	ND	ug/l	500					
Bromoform	ND	ug/l	100					
1,1,2,2-Tetrachloroethane	ND	ug/l	100					
Benzene	11000	ug/l	100					
Toluene	210	ug/l	150					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0207618-02
BO2-1

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1 8260B		0805 16:08	AR
Ethylbenzene	1200	ug/l	100				
Chloromethane	ND	ug/l	500				
Bromomethane	ND	ug/l	200				
Vinyl chloride	ND	ug/l	200				
Chloroethane	ND	ug/l	200				
1,1-Dichloroethene	ND	ug/l	100				
trans-1,2-Dichloroethene	ND	ug/l	150				
Trichloroethene	ND	ug/l	100				
1,2-Dichlorobenzene	ND	ug/l	500				
1,3-Dichlorobenzene	ND	ug/l	500				
1,4-Dichlorobenzene	ND	ug/l	500				
Methyl tert butyl ether	ND	ug/l	200				
p/m-Xylene	110	ug/l	100				
o-Xylene	ND	ug/l	100				
cis-1,2-Dichloroethene	ND	ug/l	100				
Dibromomethane	ND	ug/l	1000				
1,4-Dichlorobutane	ND	ug/l	1000				
Iodomethane	ND	ug/l	1000				
1,2,3-Trichloropropane	ND	ug/l	1000				
Styrene	ND	ug/l	100				
Dichlorodifluoromethane	ND	ug/l	1000				
Acetone	ND	ug/l	1000				
Carbon disulfide	ND	ug/l	1000				
2-Butanone	ND	ug/l	1000				
Vinyl acetate	ND	ug/l	1000				
4-Methyl-2-pentanone	ND	ug/l	1000				
2-Hexanone	ND	ug/l	1000				
Ethyl methacrylate	ND	ug/l	1000				
Acrolein	ND	ug/l	2500				
Acrylonitrile	ND	ug/l	1000				
Bromochloromethane	ND	ug/l	500				
Tetrahydrofuran	ND	ug/l	2000				
2,2-Dichloropropane	ND	ug/l	500				
1,2-Dibromoethane	ND	ug/l	500				
1,3-Dichloropropane	ND	ug/l	500				
1,1,1,2-Tetrachloroethane	ND	ug/l	100				
Bromobenzene	ND	ug/l	500				
n-Butylbenzene	ND	ug/l	100				
sec-Butylbenzene	ND	ug/l	100				
tert-Butylbenzene	ND	ug/l	500				
o-Chlorotoluene	ND	ug/l	500				
p-Chlorotoluene	ND	ug/l	500				
1,2-Dibromo-3-chloropropane	ND	ug/l	500				
Hexachlorobutadiene	ND	ug/l	500				
Isopropylbenzene	ND	ug/l	100				
p-Isopropyltoluene	ND	ug/l	100				
Naphthalene	ND	ug/l	500				
n-Propylbenzene	ND	ug/l	100				
1,2,3-Trichlorobenzene	ND	ug/l	500				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0207618-02
BO2-1

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		0805 16:08	AR
1,2,4-Trichlorobenzene	ND	ug/l	500					
1,3,5-Trimethylbenzene	ND	ug/l	500					
1,2,4-Trimethylbenzene	ND	ug/l	500					
trans-1,4-Dichloro-2-butene	ND	ug/l	500					
Ethyl ether	ND	ug/l	500					
Surrogate Recovery								
1,2-Dichloroethane-d4	98.0	%						
Toluene-d8	98.0	%						
4-Bromofluorobenzene	108.	%						
Dibromofluoromethane	99.0	%						
SVOC's by GC/MS 8270				1	8270C	0802 19:45	0805 00:36	HL
Acenaphthene	ND	ug/l	10.					
Benzidine	ND	ug/l	100					
1,2,4-Trichlorobenzene	ND	ug/l	10.					
Hexachlorobenzene	ND	ug/l	10.					
Bis(2-chloroethyl)ether	ND	ug/l	10.					
1-Chloronaphthalene	ND	ug/l	10.					
2-Chloronaphthalene	ND	ug/l	12.					
1,2-Dichlorobenzene	ND	ug/l	10.					
1,3-Dichlorobenzene	ND	ug/l	10.					
1,4-Dichlorobenzene	ND	ug/l	10.					
3,3'-Dichlorobenzidine	ND	ug/l	100					
2,4-Dinitrotoluene	ND	ug/l	12.					
2,6-Dinitrotoluene	ND	ug/l	10.					
Azobenzene	ND	ug/l	10.					
Fluoranthene	ND	ug/l	10.					
4-Chlorophenyl phenyl ether	ND	ug/l	10.					
4-Bromophenyl phenyl ether	ND	ug/l	10.					
Bis(2-chloroisopropyl)ether	ND	ug/l	10.					
Bis(2-chloroethoxy)methane	ND	ug/l	10.					
Hexachlorobutadiene	ND	ug/l	20.					
Hexachlorocyclopentadiene	ND	ug/l	20.					
Hexachloroethane	ND	ug/l	10.					
Isophorone	ND	ug/l	10.					
Naphthalene	120	ug/l	10.					
Nitrobenzene	ND	ug/l	10.					
NDPA/DPA	ND	ug/l	30.					
n-Nitrosodi-n-propylamine	ND	ug/l	10.					
Bis(2-ethylhexyl)phthalate	ND	ug/l	20.					
Butyl benzyl phthalate	ND	ug/l	10.					
Di-n-butylphthalate	ND	ug/l	10.					
Di-n-octylphthalate	ND	ug/l	10.					
Diethyl phthalate	ND	ug/l	10.					
Dimethyl phthalate	ND	ug/l	10.					
Benzo(a)anthracene	ND	ug/l	10.					
Benzo(a)pyrene	ND	ug/l	10.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0207618-02
BO2-1

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1	8270C	0802 19:45	0805 00:36	HL
Benzo(b)fluoranthene	ND	ug/l	10.					
Benzo(k)fluoranthene	ND	ug/l	10.					
Chrysene	ND	ug/l	10.					
Acenaphthylene	ND	ug/l	10.					
Anthracene	ND	ug/l	10.					
Benzo(ghi)perylene	ND	ug/l	10.					
Fluorene	ND	ug/l	10.					
Phenanthrene	ND	ug/l	10.					
Dibenzo(a,h)anthracene	ND	ug/l	10.					
Indeno(1,2,3-cd)pyrene	ND	ug/l	14.					
Pyrene	ND	ug/l	10.					
Benzo(e)pyrene	ND	ug/l	10.					
Biphenyl	ND	ug/l	10.					
Perylene	ND	ug/l	10.					
Aniline	ND	ug/l	20.					
4-Chloroaniline	ND	ug/l	10.					
1-Methylnaphthalene	34.	ug/l	10.					
2-Nitroaniline	ND	ug/l	10.					
3-Nitroaniline	ND	ug/l	10.					
4-Nitroaniline	ND	ug/l	14.					
Dibenzofuran	ND	ug/l	10.					
a,a-Dimethylphenethylamine	ND	ug/l	100					
Hexachloropropene	ND	ug/l	100					
Nitrosodi-n-butylamine	ND	ug/l	20.					
2-Methylnaphthalene	ND	ug/l	16.					
1,2,4,5-Tetrachlorobenzene	ND	ug/l	40.					
Pentachlorobenzene	ND	ug/l	40.					
a-Naphthylamine	ND	ug/l	40.					
b-Naphthylamine	ND	ug/l	40.					
Phenacetin	ND	ug/l	20.					
Dimethoate	ND	ug/l	40.					
4-Aminobiphenyl	ND	ug/l	20.					
Pentachloronitrobenzene	ND	ug/l	20.					
Isodrin	ND	ug/l	20.					
p-Dimethylaminoazobenzene	ND	ug/l	20.					
Chlorobenzilate	ND	ug/l	40.					
3-Methylcholanthrene	ND	ug/l	40.					
Ethyl Methanesulfonate	ND	ug/l	30.					
Acetophenone	ND	ug/l	40.					
Nitrosodipiperidine	ND	ug/l	40.					
7,12-Dimethylbenz(a)anthracene	ND	ug/l	20.					
n-Nitrosodimethylamine	ND	ug/l	100					
2,4,6-Trichlorophenol	ND	ug/l	10.					
p-Chloro-m-cresol	ND	ug/l	10.					
2-Chlorophenol	ND	ug/l	12.					
2,4-Dichlorophenol	ND	ug/l	20.					
2,4-Dimethylphenol	ND	ug/l	20.					
2-Nitrophenol	ND	ug/l	40.					
4-Nitrophenol	ND	ug/l	20.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0207618-02
BO2-1

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1	8270C	0802 19:45	0805 10:36	HL
2,4-Dinitrophenol	ND	ug/l	40.					
4,6-Dinitro-o-cresol	ND	ug/l	40.					
Pentachlorophenol	ND	ug/l	40.					
Phenol	ND	ug/l	14.					
2-Methylphenol	ND	ug/l	12.					
3-Methylphenol/4-Methylphenol	ND	ug/l	12.					
2,4,5-Trichlorophenol	ND	ug/l	10.					
2,6-Dichlorophenol	ND	ug/l	20.					
Benzoic Acid	ND	ug/l	100					
Benzyl Alcohol	ND	ug/l	20.					
Carbazole	ND	ug/l	10.					
Pyridine	ND	ug/l	100					
2-Picoline	ND	ug/l	40.					
Pronamide	ND	ug/l	40.					
Methyl methanesulfonate	ND	ug/l	40.					
Surrogate Recovery								
2-Fluorophenol	36.0	%						
Phenol-d6	27.0	%						
Nitrobenzene-d5	74.0	%						
2-Fluorobiphenyl	78.0	%						
2,4,6-Tribromophenol	123.	%						
4-Terphenyl-d14	93.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0207618-03
97B-B628OW
Sample Matrix: WATER

Date Collected: 01-AUG-2002 11:45
Date Received : 01-AUG-2002
Date Reported : 08-AUG-2002

Condition of Sample: Satisfactory

Field Prep: Field Filtered

Number & Type of Containers: 4-Amber,6-Plastic,4-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Cyanide, Total	7.00	mg/l	0.250	1	9010B	0802 17:09	0806 14:00	ED
Cyanide, Physiologically Available	1.02	mg/l	0.100	45		0807 16:51	0808 14:07	ED
Dissolved Metals								
Arsenic, Dissolved	ND	mg/l	0.005	1	6010B	0802 09:50	0805 09:31	RW
Barium, Dissolved	0.04	mg/l	0.01	1	6010B	0802 09:50	0805 09:31	RW
Cadmium, Dissolved	ND	mg/l	0.005	1	6010B	0802 09:50	0805 09:31	RW
Chromium, Dissolved	ND	mg/l	0.01	1	6010B	0802 09:50	0805 09:31	RW
Lead, Dissolved	ND	mg/l	0.010	1	6010B	0802 09:50	0805 09:31	RW
Mercury, Dissolved	ND	mg/l	0.0005	1	7470A	0802 15:00	0804 14:58	DM
Selenium, Dissolved	ND	mg/l	0.005	1	6010B	0802 09:50	0805 09:31	RW
Silver, Dissolved	ND	mg/l	0.007	1	6010B	0802 09:50	0805 09:31	RW
Volatile Organics by GC/MS 8260				1	8260B		0806 16:31	AR
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	0.50					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	1.0	ug/l	0.50					
Toluene	ND	ug/l	0.75					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0207618-03
97B-B628OW

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1 8260B		0806 16:31	AR
Ethylbenzene	2.0	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.5				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	2.5				
Isopropylbenzene	0.63	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	6.5	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0207618-03
97B-B628OW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		0806 16:31	AR
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					
Surrogate Recovery								
1,2-Dichloroethane-d4	102.	%						
Toluene-d8	102.	%						
4-Bromofluorobenzene	107.	%						
Dibromofluoromethane	106.	%						
SVOC's by GC/MS 8270				1	8270C	0802 19:45	0805 01:21	WL
Acenaphthene	ND	ug/l	10.					
Benzidine	ND	ug/l	100					
1,2,4-Trichlorobenzene	ND	ug/l	10.					
Hexachlorobenzene	ND	ug/l	10.					
Bis(2-chloroethyl)ether	ND	ug/l	10.					
1-Chloronaphthalene	ND	ug/l	10.					
2-Chloronaphthalene	ND	ug/l	12.					
1,2-Dichlorobenzene	ND	ug/l	10.					
1,3-Dichlorobenzene	ND	ug/l	10.					
1,4-Dichlorobenzene	ND	ug/l	10.					
3,3'-Dichlorobenzidine	ND	ug/l	100					
2,4-Dinitrotoluene	ND	ug/l	12.					
2,6-Dinitrotoluene	ND	ug/l	10.					
Azobenzene	ND	ug/l	10.					
Fluoranthene	ND	ug/l	10.					
4-Chlorophenyl phenyl ether	ND	ug/l	10.					
4-Bromophenyl phenyl ether	ND	ug/l	10.					
Bis(2-chloroisopropyl)ether	ND	ug/l	10.					
Bis(2-chloroethoxy)methane	ND	ug/l	10.					
Hexachlorobutadiene	ND	ug/l	20.					
Hexachlorocyclopentadiene	ND	ug/l	20.					
Hexachloroethane	ND	ug/l	10.					
Isophorone	ND	ug/l	10.					
Naphthalene	ND	ug/l	10.					
Nitrobenzene	ND	ug/l	10.					
NDPA/DPA	ND	ug/l	30.					
n-Nitrosodi-n-propylamine	ND	ug/l	10.					
Bis(2-ethylhexyl)phthalate	ND	ug/l	20.					
Butyl benzyl phthalate	ND	ug/l	10.					
Di-n-butylphthalate	ND	ug/l	10.					
Di-n-octylphthalate	ND	ug/l	10.					
Diethyl phthalate	ND	ug/l	10.					
Dimethyl phthalate	ND	ug/l	10.					
Benzo(a)anthracene	ND	ug/l	10.					
Benzo(a)pyrene	ND	ug/l	10.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0207618-03
97B-B628OW

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1 8270C	0802 19:45	0805 01:21	HL
Benzo(b)fluoranthene	ND	ug/l	10.				
Benzo(k)fluoranthene	ND	ug/l	10.				
Chrysene	ND	ug/l	10.				
Acenaphthylene	ND	ug/l	10.				
Anthracene	ND	ug/l	10.				
Benzo(ghi)perylene	ND	ug/l	10.				
Fluorene	ND	ug/l	10.				
Phenanthrene	ND	ug/l	10.				
Dibenzo(a,h)anthracene	ND	ug/l	10.				
Indeno(1,2,3-cd)pyrene	ND	ug/l	14.				
Pyrene	ND	ug/l	10.				
Benzo(e)pyrene	ND	ug/l	10.				
Biphenyl	ND	ug/l	10.				
Perylene	ND	ug/l	10.				
Aniline	ND	ug/l	20.				
4-Chloroaniline	ND	ug/l	10.				
1-Methylnaphthalene	ND	ug/l	10.				
2-Nitroaniline	ND	ug/l	10.				
3-Nitroaniline	ND	ug/l	10.				
4-Nitroaniline	ND	ug/l	14.				
Dibenzofuran	ND	ug/l	10.				
a,a-Dimethylphenethylamine	ND	ug/l	100				
Hexachloropropene	ND	ug/l	100				
Nitrosodi-n-butylamine	ND	ug/l	20.				
2-Methylnaphthalene	ND	ug/l	16.				
1,2,4,5-Tetrachlorobenzene	ND	ug/l	40.				
Pentachlorobenzene	ND	ug/l	40.				
a-Naphthylamine	ND	ug/l	40.				
b-Naphthylamine	ND	ug/l	40.				
Phenacetin	ND	ug/l	20.				
Dimethoate	ND	ug/l	40.				
4-Aminobiphenyl	ND	ug/l	20.				
Pentachloronitrobenzene	ND	ug/l	20.				
Isodrin	ND	ug/l	20.				
p-Dimethylaminoazobenzene	ND	ug/l	20.				
Chlorobenzilate	ND	ug/l	40.				
3-Methylcholanthrene	ND	ug/l	40.				
Ethyl Methanesulfonate	ND	ug/l	30.				
Acetophenone	ND	ug/l	40.				
Nitrosodipiperidine	ND	ug/l	40.				
7,12-Dimethylbenz(a)anthracene	ND	ug/l	20.				
n-Nitrosodimethylamine	ND	ug/l	100				
2,4,6-Trichlorophenol	ND	ug/l	10.				
p-Chloro-m-cresol	ND	ug/l	10.				
2-Chlorophenol	ND	ug/l	12.				
2,4-Dichlorophenol	ND	ug/l	20.				
2,4-Dimethylphenol	ND	ug/l	20.				
2-Nitrophenol	ND	ug/l	40.				
4-Nitrophenol	ND	ug/l	20.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0207618-03
97B-B628OW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1	8270C	0802 19:45	0805 01:21	KL
2,4-Dinitrophenol	ND	ug/l	40.					
4,6-Dinitro-o-cresol	ND	ug/l	40.					
Pentachlorophenol	ND	ug/l	40.					
Phenol	ND	ug/l	14.					
2-Methylphenol	ND	ug/l	12.					
3-Methylphenol/4-Methylphenol	ND	ug/l	12.					
2,4,5-Trichlorophenol	ND	ug/l	10.					
2,6-Dichlorophenol	ND	ug/l	20.					
Benzoic Acid	ND	ug/l	100					
Benzyl Alcohol	ND	ug/l	20.					
Carbazole	ND	ug/l	10.					
Pyridine	ND	ug/l	100					
2-Picoline	ND	ug/l	40.					
Pronamide	ND	ug/l	40.					
Methyl methanesulfonate	ND	ug/l	40.					
Surrogate Recovery								
2-Fluorophenol	38.0	%						
Phenol-d6	30.0	%						
Nitrobenzene-d5	78.0	%						
2-Fluorobiphenyl	87.0	%						
2,4,6-Tribromophenol	125.	%						
4-Terphenyl-d14	89.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0207618-04
97B-B627OW
Sample Matrix: WATER

Date Collected: 01-AUG-2002 13:45
Date Received : 01-AUG-2002
Date Reported : 08-AUG-2002

Condition of Sample: Satisfactory

Field Prep: Field Filtered

Number & Type of Containers: 2-Amber,3-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Cyanide, Total	0.745	mg/l	0.050	1	9010B	0802 17:09	0805 14:11	ED
Cyanide, Physiologically Available	0.057	mg/l	0.005	45		0807 16:51	0803 13:36	ED
Dissolved Metals								
Arsenic, Dissolved	ND	mg/l	0.005	1	6010B	0802 09:50	0805 09:58	RW
Barium, Dissolved	0.14	mg/l	0.01	1	6010B	0802 09:50	0805 09:58	RW
Cadmium, Dissolved	ND	mg/l	0.005	1	6010B	0802 09:50	0805 09:58	RW
Chromium, Dissolved	ND	mg/l	0.01	1	6010B	0802 09:50	0805 09:58	RW
Lead, Dissolved	ND	mg/l	0.010	1	6010B	0802 09:50	0805 09:58	RW
Mercury, Dissolved	ND	mg/l	0.0005	1	7470A	0802 15:00	0804 15:03	DM
Selenium, Dissolved	ND	mg/l	0.005	1	6010B	0802 09:50	0805 09:58	RW
Silver, Dissolved	ND	mg/l	0.007	1	6010B	0802 09:50	0805 09:58	RW
Volatile Organics by GC/MS 8260				1	8260B		0803 14:06	AR
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	0.50					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0207618-04
97B-B6270W

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1 8260B		0805 14:06	AR
Ethylbenzene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	5.2	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.5				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	2.5				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0207618-04
97B-B627OW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		0805 14:06	AR
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					
Surrogate Recovery								
1,2-Dichloroethane-d4	104.	%						
Toluene-d8	105.	%						
4-Bromofluorobenzene	106.	%						
Dibromofluoromethane	106.	%						
SVOC's by GC/MS 8270				1	8270C	0802 19:45	0805 02:06	WL
Acenaphthene	ND	ug/l	5.0					
Benzidine	ND	ug/l	50.					
1,2,4-Trichlorobenzene	ND	ug/l	5.0					
Hexachlorobenzene	ND	ug/l	5.0					
Bis(2-chloroethyl)ether	ND	ug/l	5.0					
1-Chloronaphthalene	ND	ug/l	5.0					
2-Chloronaphthalene	ND	ug/l	6.0					
1,2-Dichlorobenzene	ND	ug/l	5.0					
1,3-Dichlorobenzene	ND	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	5.0					
3,3'-Dichlorobenzidine	ND	ug/l	50.					
2,4-Dinitrotoluene	ND	ug/l	6.0					
2,6-Dinitrotoluene	ND	ug/l	5.0					
Azobenzene	ND	ug/l	5.0					
Fluoranthene	ND	ug/l	5.0					
4-Chlorophenyl phenyl ether	ND	ug/l	5.0					
4-Bromophenyl phenyl ether	ND	ug/l	5.0					
Bis(2-chloroisopropyl)ether	ND	ug/l	5.0					
Bis(2-chloroethoxy)methane	ND	ug/l	5.0					
Hexachlorobutadiene	ND	ug/l	10.					
Hexachlorocyclopentadiene	ND	ug/l	10.					
Hexachloroethane	ND	ug/l	5.0					
Isophorone	ND	ug/l	5.0					
Naphthalene	ND	ug/l	5.0					
Nitrobenzene	ND	ug/l	5.0					
NDPA/DPA	ND	ug/l	15.					
n-Nitrosodi-n-propylamine	ND	ug/l	5.0					
Bis(2-ethylhexyl)phthalate	ND	ug/l	10.					
Butyl benzyl phthalate	ND	ug/l	5.0					
Di-n-butylphthalate	ND	ug/l	5.0					
Di-n-octylphthalate	ND	ug/l	5.0					
Diethyl phthalate	ND	ug/l	5.0					
Dimethyl phthalate	ND	ug/l	5.0					
Benzo(a)anthracene	ND	ug/l	5.0					
Benzo(a)pyrene	ND	ug/l	5.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0207618-04
97B-B627OW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1	8270C	0802 19:45	0805 02:06	HL
Benzo(b)fluoranthene	ND	ug/l	5.0					
Benzo(k)fluoranthene	ND	ug/l	5.0					
Chrysene	ND	ug/l	5.0					
Acenaphthylene	ND	ug/l	5.0					
Anthracene	ND	ug/l	5.0					
Benzo(ghi)perylene	ND	ug/l	5.0					
Fluorene	ND	ug/l	5.0					
Phenanthrene	ND	ug/l	5.0					
Dibenzo(a,h)anthracene	ND	ug/l	5.0					
Indeno(1,2,3-cd)pyrene	ND	ug/l	7.0					
Pyrene	ND	ug/l	5.0					
Benzo(e)pyrene	ND	ug/l	5.0					
Biphenyl	ND	ug/l	5.0					
Perylene	ND	ug/l	5.0					
Aniline	ND	ug/l	10.					
4-Chloroaniline	ND	ug/l	5.0					
1-Methylnaphthalene	ND	ug/l	5.0					
2-Nitroaniline	ND	ug/l	5.0					
3-Nitroaniline	ND	ug/l	5.0					
4-Nitroaniline	ND	ug/l	7.0					
Dibenzofuran	ND	ug/l	5.0					
a,a-Dimethylphenethylamine	ND	ug/l	50.					
Hexachloropropene	ND	ug/l	50.					
Nitrosodi-n-butylamine	ND	ug/l	10.					
2-Methylnaphthalene	ND	ug/l	8.0					
1,2,4,5-Tetrachlorobenzene	ND	ug/l	20.					
Pentachlorobenzene	ND	ug/l	20.					
a-Naphthylamine	ND	ug/l	20.					
b-Naphthylamine	ND	ug/l	20.					
Phenacetin	ND	ug/l	10.					
Dimethoate	ND	ug/l	20.					
4-Aminobiphenyl	ND	ug/l	10.					
Pentachloronitrobenzene	ND	ug/l	10.					
Isodrin	ND	ug/l	10.					
p-Dimethylaminoazobenzene	ND	ug/l	10.					
Chlorobenzilate	ND	ug/l	20.					
3-Methylcholanthrene	ND	ug/l	20.					
Ethyl Methanesulfonate	ND	ug/l	15.					
Acetophenone	ND	ug/l	20.					
Nitrosodipiperidine	ND	ug/l	20.					
7,12-Dimethylbenz(a)anthracene	ND	ug/l	10.					
n-Nitrosodimethylamine	ND	ug/l	50.					
2,4,6-Trichlorophenol	ND	ug/l	5.0					
p-Chloro-m-cresol	ND	ug/l	5.0					
2-Chlorophenol	ND	ug/l	6.0					
2,4-Dichlorophenol	ND	ug/l	10.					
2,4-Dimethylphenol	ND	ug/l	10.					
2-Nitrophenol	ND	ug/l	20.					
4-Nitrophenol	ND	ug/l	10.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0207618-04
97B-B627OW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1	8270C	0802 19:45	0805 02:06	HL
2,4-Dinitrophenol	ND	ug/l	20.					
4,6-Dinitro-o-cresol	ND	ug/l	20.					
Pentachlorophenol	ND	ug/l	20.					
Phenol	ND	ug/l	7.0					
2-Methylphenol	ND	ug/l	6.0					
3-Methylphenol/4-Methylphenol	ND	ug/l	6.0					
2,4,5-Trichlorophenol	ND	ug/l	5.0					
2,6-Dichlorophenol	ND	ug/l	10.					
Benzoic Acid	ND	ug/l	50.					
Benzyl Alcohol	ND	ug/l	10.					
Carbazole	ND	ug/l	5.0					
Pyridine	ND	ug/l	50.					
2-Picoline	ND	ug/l	20.					
Pronamide	ND	ug/l	20.					
Methyl methanesulfonate	ND	ug/l	20.					
Surrogate Recovery								
2-Fluorophenol	32.0	%						
Phenol-d6	21.0	%						
Nitrobenzene-d5	75.0	%						
2-Fluorobiphenyl	78.0	%						
2,4,6-Tribromophenol	109.	%						
4-Terphenyl-d14	87.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0207618-05
97B-B617OW
Sample Matrix: WATER

Date Collected: 01-AUG-2002 15:30
Date Received : 01-AUG-2002
Date Reported : 08-AUG-2002

Condition of Sample: Satisfactory

Field Prep: Field Filtered

Number & Type of Containers: 2-Amber,6-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Alkalinity, Total	75.	mg CaCO3/L	2.0	30	2320B		0802 19:18	DP
Cyanide, Total	0.024	mg/l	0.005	1	9010B	0802 17:09	0806 14:12	ED
Cyanide, Physiologically Available	ND	mg/l	0.005	45		0807 16:51	0808 13:36	ED
Nitrogen, Nitrite	0.10	mg/l	0.10	30	4500NO3-F		0801 21:17	DD
Nitrogen, Nitrate	1.7	mg/l	0.10	30	4500NO3-F		0801 21:17	DD
Sulfate	340	mg/l	120	1	9038		0807 16:00	DD
Dissolved Metals								
Arsenic, Dissolved	0.009	mg/l	0.005	1	6010B	0802 09:50	0805 10:10	RW
Barium, Dissolved	0.04	mg/l	0.01	1	6010B	0802 09:50	0805 10:10	RW
Cadmium, Dissolved	ND	mg/l	0.005	1	6010B	0802 09:50	0805 10:10	RW
Chromium, Dissolved	ND	mg/l	0.01	1	6010B	0802 09:50	0805 10:10	RW
Lead, Dissolved	ND	mg/l	0.010	1	6010B	0802 09:50	0805 10:10	RW
Mercury, Dissolved	ND	mg/l	0.0005	1	7470A	0802 15:00	0804 15:05	DM
Selenium, Dissolved	ND	mg/l	0.005	1	6010B	0802 09:50	0805 10:10	RW
Silver, Dissolved	ND	mg/l	0.007	1	6010B	0802 09:50	0805 10:10	RW
Volatile Organics by GC/MS 8260				1	8260B		0805 16:48	AR
Methylene chloride	ND	ug/l	2500					
1,1-Dichloroethane	ND	ug/l	380					
Chloroform	ND	ug/l	380					
Carbon tetrachloride	ND	ug/l	250					
1,2-Dichloropropane	ND	ug/l	880					
Dibromochloromethane	ND	ug/l	250					
1,1,2-Trichloroethane	ND	ug/l	380					
Tetrachloroethene	ND	ug/l	250					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0207618-05
97B-B617OW

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1 8260B		0805 16:48	AR
Chlorobenzene	ND	ug/l	250				
Trichlorofluoromethane	ND	ug/l	1200				
1,2-Dichloroethane	ND	ug/l	250				
1,1,1-Trichloroethane	ND	ug/l	250				
Bromodichloromethane	ND	ug/l	250				
trans-1,3-Dichloropropene	ND	ug/l	250				
cis-1,3-Dichloropropene	ND	ug/l	250				
1,1-Dichloropropene	ND	ug/l	1200				
Bromoform	ND	ug/l	250				
1,1,2,2-Tetrachloroethane	ND	ug/l	250				
Benzene	ND	ug/l	250				
Toluene	37000	ug/l	380				
Ethylbenzene	7400	ug/l	250				
Chloromethane	ND	ug/l	1200				
Bromomethane	ND	ug/l	500				
Vinyl chloride	ND	ug/l	500				
Chloroethane	ND	ug/l	500				
1,1-Dichloroethene	ND	ug/l	250				
trans-1,2-Dichloroethene	ND	ug/l	380				
Trichloroethene	ND	ug/l	250				
1,2-Dichlorobenzene	ND	ug/l	1200				
1,3-Dichlorobenzene	ND	ug/l	1200				
1,4-Dichlorobenzene	ND	ug/l	1200				
Methyl tert butyl ether	ND	ug/l	500				
p/m-Xylene	10000	ug/l	250				
o-Xylene	3400	ug/l	250				
cis-1,2-Dichloroethene	ND	ug/l	250				
Dibromomethane	ND	ug/l	2500				
1,4-Dichlorobutane	ND	ug/l	2500				
Iodomethane	ND	ug/l	2500				
1,2,3-Trichloropropane	ND	ug/l	2500				
Styrene	20000	ug/l	250				
Dichlorodifluoromethane	ND	ug/l	2500				
Acetone	ND	ug/l	2500				
Carbon disulfide	ND	ug/l	2500				
2-Butanone	ND	ug/l	2500				
Vinyl acetate	ND	ug/l	2500				
4-Methyl-2-pentanone	ND	ug/l	2500				
2-Hexanone	ND	ug/l	2500				
Ethyl methacrylate	ND	ug/l	2500				
Acrolein	ND	ug/l	6200				
Acrylonitrile	ND	ug/l	2500				
Bromochloromethane	ND	ug/l	1200				
Tetrahydrofuran	ND	ug/l	5000				
2,2-Dichloropropane	ND	ug/l	1200				
1,2-Dibromoethane	ND	ug/l	1200				
1,3-Dichloropropane	ND	ug/l	1200				
1,1,1,2-Tetrachloroethane	ND	ug/l	250				
Bromobenzene	ND	ug/l	1200				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0207618-05
97B-B617OW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		0805 16:48	AR
n-Butylbenzene	ND	ug/l	250					
sec-Butylbenzene	ND	ug/l	250					
tert-Butylbenzene	ND	ug/l	1200					
o-Chlorotoluene	ND	ug/l	1200					
p-Chlorotoluene	ND	ug/l	1200					
1,2-Dibromo-3-chloropropane	ND	ug/l	1200					
Hexachlorobutadiene	ND	ug/l	1200					
Isopropylbenzene	ND	ug/l	250					
p-Isopropyltoluene	ND	ug/l	250					
Naphthalene	3000	ug/l	1200					
n-Propylbenzene	ND	ug/l	250					
1,2,3-Trichlorobenzene	ND	ug/l	1200					
1,2,4-Trichlorobenzene	ND	ug/l	1200					
1,3,5-Trimethylbenzene	ND	ug/l	1200					
1,2,4-Trimethylbenzene	ND	ug/l	1200					
trans-1,4-Dichloro-2-butene	ND	ug/l	1200					
Ethyl ether	ND	ug/l	1200					
Surrogate Recovery								
1,2-Dichloroethane-d4	98.0	%						
Toluene-d8	97.0	%						
4-Bromofluorobenzene	105.	%						
Dibromofluoromethane	103.	%						
SVOC's by GC/MS 8270				1	8270C	0802 19:45	0805 02:51	HL
Acenaphthene	ND	ug/l	120					
Benzidine	ND	ug/l	1200					
1,2,4-Trichlorobenzene	ND	ug/l	120					
Hexachlorobenzene	ND	ug/l	120					
Bis(2-chloroethyl)ether	ND	ug/l	120					
1-Chloronaphthalene	ND	ug/l	120					
2-Chloronaphthalene	ND	ug/l	150					
1,2-Dichlorobenzene	ND	ug/l	120					
1,3-Dichlorobenzene	ND	ug/l	120					
1,4-Dichlorobenzene	ND	ug/l	120					
3,3'-Dichlorobenzidine	ND	ug/l	1200					
2,4-Dinitrotoluene	ND	ug/l	150					
2,6-Dinitrotoluene	ND	ug/l	120					
Azobenzene	ND	ug/l	120					
Fluoranthene	ND	ug/l	120					
4-Chlorophenyl phenyl ether	ND	ug/l	120					
4-Bromophenyl phenyl ether	ND	ug/l	120					
Bis(2-chloroisopropyl)ether	ND	ug/l	120					
Bis(2-chloroethoxy)methane	ND	ug/l	120					
Hexachlorobutadiene	ND	ug/l	250					
Hexachlorocyclopentadiene	ND	ug/l	250					
Hexachloroethane	ND	ug/l	120					
Isophorone	ND	ug/l	120					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0207618-05
97B-B617OW

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1 8270C	0802 19:45	0805 02:51	HL
Naphthalene	1800	ug/l	120				
Nitrobenzene	ND	ug/l	120				
NDPA/DPA	ND	ug/l	380				
n-Nitrosodi-n-propylamine	ND	ug/l	120				
Bis(2-ethylhexyl)phthalate	ND	ug/l	250				
Butyl benzyl phthalate	ND	ug/l	120				
Di-n-butylphthalate	ND	ug/l	120				
Di-n-octylphthalate	ND	ug/l	120				
Diethyl phthalate	ND	ug/l	120				
Dimethyl phthalate	ND	ug/l	120				
Benzo(a)anthracene	ND	ug/l	120				
Benzo(a)pyrene	ND	ug/l	120				
Benzo(b)fluoranthene	ND	ug/l	120				
Benzo(k)fluoranthene	ND	ug/l	120				
Chrysene	ND	ug/l	120				
Acenaphthylene	ND	ug/l	120				
Anthracene	ND	ug/l	120				
Benzo(ghi)perylene	ND	ug/l	120				
Fluorene	ND	ug/l	120				
Phenanthrene	ND	ug/l	120				
Dibenzo(a,h)anthracene	ND	ug/l	120				
Indeno(1,2,3-cd)pyrene	ND	ug/l	180				
Pyrene	ND	ug/l	120				
Benzo(e)pyrene	ND	ug/l	120				
Biphenyl	ND	ug/l	120				
Perylene	ND	ug/l	120				
Aniline	ND	ug/l	250				
4-Chloroaniline	ND	ug/l	120				
1-Methylnaphthalene	230	ug/l	120				
2-Nitroaniline	ND	ug/l	120				
3-Nitroaniline	ND	ug/l	120				
4-Nitroaniline	ND	ug/l	180				
Dibenzofuran	ND	ug/l	120				
a,a-Dimethylphenethylamine	ND	ug/l	1200				
Hexachloropropene	ND	ug/l	1200				
Nitrosodi-n-butylamine	ND	ug/l	250				
2-Methylnaphthalene	ND	ug/l	200				
1,2,4,5-Tetrachlorobenzene	ND	ug/l	500				
Pentachlorobenzene	ND	ug/l	500				
a-Naphthylamine	ND	ug/l	500				
b-Naphthylamine	ND	ug/l	500				
Phenacetin	ND	ug/l	250				
Dimethoate	ND	ug/l	500				
4-Aminobiphenyl	ND	ug/l	250				
Pentachloronitrobenzene	ND	ug/l	250				
Isodrin	ND	ug/l	250				
p-Dimethylaminoazobenzene	ND	ug/l	250				
Chlorobenzilate	ND	ug/l	500				
3-Methylcholanthrene	ND	ug/l	500				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0207618-05
97B-B617OW

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1 8270C	0802 19:45	0805 02:51	ML
Ethyl Methanesulfonate	ND	ug/l	380				
Acetophenone	ND	ug/l	500				
Nitrosodipiperidine	ND	ug/l	500				
7,12-Dimethylbenz(a)anthracene	ND	ug/l	250				
n-Nitrosodimethylamine	ND	ug/l	1200				
2,4,6-Trichlorophenol	ND	ug/l	120				
p-Chloro-m-cresol	ND	ug/l	120				
2-Chlorophenol	ND	ug/l	150				
2,4-Dichlorophenol	ND	ug/l	250				
2,4-Dimethylphenol	ND	ug/l	250				
2-Nitrophenol	ND	ug/l	500				
4-Nitrophenol	ND	ug/l	250				
2,4-Dinitrophenol	ND	ug/l	500				
4,6-Dinitro-o-cresol	ND	ug/l	500				
Pentachlorophenol	ND	ug/l	500				
Phenol	ND	ug/l	180				
2-Methylphenol	180	ug/l	150				
3-Methylphenol/4-Methylphenol	ND	ug/l	150				
2,4,5-Trichlorophenol	ND	ug/l	120				
2,6-Dichlorophenol	ND	ug/l	250				
Benzoic Acid	ND	ug/l	1200				
Benzyl Alcohol	ND	ug/l	250				
Carbazole	ND	ug/l	120				
Pyridine	ND	ug/l	1200				
2-Picoline	ND	ug/l	500				
Pronamide	ND	ug/l	500				
Methyl methanesulfonate	ND	ug/l	500				
Surrogate Recovery							
2-Fluorophenol	50.0	%					
Phenol-d6	35.0	%					
Nitrobenzene-d5	99.0	%					
2-Fluorobiphenyl	99.0	%					
2,4,6-Tribromophenol	134.	%					
4-Terphenyl-d14	98.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0207618

Parameter	Value 1	Value 2	RPD	Units
Alkalinity, Total for sample(s) 01,05 (L0207618-01, WG119169)				
Alkalinity, Total	330	330	0	mg CaCO3/L
Cyanide, Total for sample(s) 01-05 (L0207618-03, WG119157)				
Cyanide, Total	7.00	7.42	6	mg/l
Cyanide, Physiologically Available for sample(s) 01-05 (L0207618-03, WG119520)				
Cyanide, Physiologically Available	1.02	1.34	27	mg/l
Nitrogen, Nitrite for sample(s) 01,05 (L0207618-01, WG119039)				
Nitrogen, Nitrite	0.12	0.12	0	mg/l
Nitrogen, Nitrate for sample(s) 01,05 (L0207587-04, WG119024)				
Nitrogen, Nitrate	ND	ND	NC	mg/l
Nitrogen, Total Kjeldahl for sample(s) 01 (L0207365-24, WG119292)				
Nitrogen, Total Kjeldahl	ND	ND	NC	mg/l
Sulfate for sample(s) 01,05 (L0207647-11, WG119505)				
Sulfate	28.	28.	0	mg/l
Dissolved Metals for sample(s) 01-05 (L0207618-03, WG119203)				
Arsenic, Dissolved	ND	ND	NC	mg/l
Barium, Dissolved	0.04	0.04	0	mg/l
Cadmium, Dissolved	ND	ND	NC	mg/l
Chromium, Dissolved	ND	ND	NC	mg/l
Lead, Dissolved	ND	ND	NC	mg/l
Selenium, Dissolved	ND	ND	NC	mg/l
Silver, Dissolved	ND	ND	NC	mg/l
Dissolved Metals for sample(s) 01-05 (L0207618-03, WG119126)				
Mercury, Dissolved	ND	ND	NC	mg/l

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0207618

Parameter	% Recovery
Alkalinity, Total LCS for sample(s) 01,05 (WG119169)	
Alkalinity, Total	102
Cyanide, Total LCS for sample(s) 01-05 (WG119157)	
Cyanide, Total	108
Cyanide, Physiologically Available LCS for sample(s) 01-05 (WG119520)	
Cyanide, Physiologically Available	107
Nitrogen, Nitrite LCS for sample(s) 01,05 (WG119039)	
Nitrogen, Nitrite	100
Nitrogen, Nitrate LCS for sample(s) 01,05 (WG119024)	
Nitrogen, Nitrate	100
Nitrogen, Total Kjeldahl LCS for sample(s) 01 (WG119292)	
Nitrogen, Total Kjeldahl	98
Sulfate LCS for sample(s) 01,05 (WG119505)	
Sulfate	100
Dissolved Metals LCS for sample(s) 01-05 (WG119203)	
Arsenic, Dissolved	104
Barium, Dissolved	100
Cadmium, Dissolved	107
Chromium, Dissolved	100
Lead, Dissolved	105
Selenium, Dissolved	103
Silver, Dissolved	98
Dissolved Metals LCS for sample(s) 01-05 (WG119126)	
Mercury, Dissolved	112
Volatile Organics by GC/MS 8260 LCS for sample(s) 02,04-05 (WG119346)	
Chlorobenzene	100
Benzene	100
Toluene	98
1,1-Dichloroethene	100
Trichloroethene	101
Surrogate Recovery	
1,2-Dichloroethane-d4	98
Toluene-d8	100
4-Bromofluorobenzene	100
Dibromofluoromethane	99

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0207618

Continued

Parameter	% Recovery
Volatile Organics by GC/MS 8260 LCS for sample(s) 01,03 (WG119346)	
Chlorobenzene	102
Benzene	107
Toluene	100
1,1-Dichloroethene	105
Trichloroethene	95
Surrogate Recovery	
1,2-Dichloroethane-d4	101
Toluene-d8	101
4-Bromofluorobenzene	96
Dibromofluoromethane	104
SVOC's by GC/MS 8270 LCS for sample(s) 01-05 (WG119178)	
Acenaphthene	82
1,2,4-Trichlorobenzene	71
2-Chloronaphthalene	84
1,2-Dichlorobenzene	64
1,4-Dichlorobenzene	64
2,4-Dinitrotoluene	190
2,6-Dinitrotoluene	130
Fluoranthene	100
4-Chlorophenyl phenyl ether	89
n-Nitrosodi-n-propylamine	74
Butyl benzyl phthalate	110
Anthracene	94
Pyrene	100
Hexachloropropene	74
P-Chloro-M-Cresol	90
2-Chlorophenol	66
2-Nitrophenol	76
4-Nitrophenol	14
2,4-Dinitrophenol	81
Pentachlorophenol	88
Phenol	29
Surrogate Recovery	
2-Fluorophenol	41
Phenol-d6	30
Nitrobenzene-d5	81
2-Fluorobiphenyl	81
2,4,6-Tribromophenol	115
4-Terphenyl-d14	86
Alkalinity, Total SPIKE for sample(s) 01,05 (L0207359-01, WG119169)	
Alkalinity, Total	102

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0207618

Continued

Parameter	% Recovery
Cyanide, Total SPIKE for sample(s) 01-02,04-05 (L0207618-03, WG119157)	
Cyanide, Total	33
Cyanide, Physiologically Available SPIKE for sample(s) 02 (L0207618-03, WG119520)	
Cyanide, Physiologically Available	375
Nitrogen, Nitrite SPIKE for sample(s) 01,05 (L0207615-01, WG119039)	
Nitrogen, Nitrite	100
Nitrogen, Nitrate SPIKE for sample(s) 01,05 (L0207587-01, WG119024)	
Nitrogen, Nitrate	100
Nitrogen, Total Kjeldahl SPIKE for sample(s) 01 (L0207365-17, WG119292)	
Nitrogen, Total Kjeldahl	96
Sulfate SPIKE for sample(s) 01,05 (L0207615-01, WG119505)	
Sulfate	101
Dissolved Metals SPIKE for sample(s) 01-05 (L0207618-03, WG119203)	
Arsenic, Dissolved	106
Barium, Dissolved	98
Cadmium, Dissolved	101
Chromium, Dissolved	95
Lead, Dissolved	100
Selenium, Dissolved	106
Silver, Dissolved	96
Dissolved Metals SPIKE for sample(s) 01-05 (L0207618-03, WG119126)	
Mercury, Dissolved	123

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0207618

Parameter	MS %	MSD %	RPD
Volatile Organics by GC/MS 8260 for sample(s) 01-05 (L0207618-03, WG119346)			
Chlorobenzene	86	85	1
Benzene	83	83	1
Toluene	86	84	2
1,1-Dichloroethene	91	90	1
Trichloroethene	79	79	0
SVOC's by GC/MS 8270 for sample(s) 01-05 (L0207618-03, WG119178)			
Acenaphthene	84	79	6
1,2,4-Trichlorobenzene	74	59	23
2-Chloronaphthalene	89	79	12
1,2-Dichlorobenzene	74	54	31
1,4-Dichlorobenzene	74	59	23
2,4-Dinitrotoluene	210	190	10
2,6-Dinitrotoluene	120	120	0
Fluoranthene	99	94	5
4-Chlorophenyl phenyl ether	89	84	6
n-Nitrosodi-n-propylamine	74	59	23
Butyl benzyl phthalate	100	100	0
Anthracene	89	89	0
Pyrene	99	99	0
Hexachloropropene	79	64	21
P-Chloro-M-Cresol	97	92	5
2-Chlorophenol	72	57	23
2-Nitrophenol	79	62	24
4-Nitrophenol	23	23	0
2,4-Dinitrophenol	64	59	8
Pentachlorophenol	79	74	7
Phenol	47	40	16

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0207618

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01,05								
Alkalinity, Total	ND	mg CaCO3/L	2.0	30	2320B		0802 19:18	DP
Blank Analysis for sample(s) 01-05								
Cyanide, Total	ND	mg/l	0.005	1	9010B	0802 17:09	0806 13:38	ED
Blank Analysis for sample(s) 01-05								
Cyanide, Physiologically Available	ND	mg/l	0.005	45		0807 16:51	0808 13:17	ED
Blank Analysis for sample(s) 01,05								
Nitrogen, Nitrite	ND	mg/l	0.10	30	4500NO3-F		0801 21:12	DD
Blank Analysis for sample(s) 01,05								
Nitrogen, Nitrate	ND	mg/l	0.10	30	4500NO3-F		0801 20:35	DD
Blank Analysis for sample(s) 01								
Nitrogen, Total Kjeldahl	ND	mg/l	0.05	30	4500N-C	0805 19:00	0807 13:36	ED
Blank Analysis for sample(s) 01,05								
Sulfate	ND	mg/l	10.	1	9038		0807 16:00	DD
Blank Analysis for sample(s) 01-05								
Dissolved Metals								
Arsenic, Dissolved	ND	mg/l	0.005	1	6010B	0802 09:50	0805 08:59	RW
Barium, Dissolved	ND	mg/l	0.01	1	6010B	0802 09:50	0805 08:59	RW
Cadmium, Dissolved	ND	mg/l	0.005	1	6010B	0802 09:50	0805 08:59	RW
Chromium, Dissolved	ND	mg/l	0.01	1	6010B	0802 09:50	0805 08:59	RW
Lead, Dissolved	ND	mg/l	0.010	1	6010B	0802 09:50	0805 08:59	RW
Selenium, Dissolved	ND	mg/l	0.005	1	6010B	0802 09:50	0805 08:59	RW
Silver, Dissolved	ND	mg/l	0.007	1	6010B	0802 09:50	0805 08:59	RW
Blank Analysis for sample(s) 01-05								
Dissolved Metals								
Mercury, Dissolved	ND	mg/l	0.0005	1	7470A	0802 15:00	0804 14:15	DM
Blank Analysis for sample(s) 02,04-05								
Volatile Organics by GC/MS 8260				1	8260B		0805 10:43	AR
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0207618

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 02,04-05							
Volatile Organics by GC/MS 8260 continued				1 8260B		0805 10:43 AR	
Chloroform	ND	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	2.5				
Bromoform	ND	ug/l	0.50				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.75				
Ethylbenzene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0207618

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 02,04-05							
Volatile Organics by GC/MS 8260 continued				1 8260B		0805 10:43	AR
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.5				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	2.5				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Surrogate Recovery							
1,2-Dichloroethane-d4	100.	%					
Toluene-d8	101.	%					
4-Bromofluorobenzene	103.	%					
Dibromofluoromethane	104.	%					
Blank Analysis for sample(s) 01,03							
Volatile Organics by GC/MS 8260				1 8260B		0806 15:25	AR
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	ND	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0207618

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01,03							
Volatile Organics by GC/MS 8260 continued				1 8260B		0805 15:25	AR
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	2.5				
Bromoform	ND	ug/l	0.50				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.75				
Ethylbenzene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.5				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0207618

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01,03							
Volatile Organics by GC/MS 8260 continued				1 8260B		0806 15:25	AR
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	2.5				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Surrogate Recovery							
1,2-Dichloroethane-d4	97.0	%					
Toluene-d8	98.0	%					
4-Bromofluorobenzene	107.	%					
Dibromofluoromethane	99.0	%					
Blank Analysis for sample(s) 01-05							
SVOC's by GC/MS 8270				1 8270C	0802 19:45	0804 20:47	HL
Acenaphthene	ND	ug/l	5.0				
Benzidine	ND	ug/l	5.0				
1,2,4-Trichlorobenzene	ND	ug/l	5.0				
Hexachlorobenzene	ND	ug/l	5.0				
Bis(2-chloroethyl)ether	ND	ug/l	5.0				
1-Chloronaphthalene	ND	ug/l	5.0				
2-Chloronaphthalene	ND	ug/l	5.0				
1,2-Dichlorobenzene	ND	ug/l	5.0				
1,3-Dichlorobenzene	ND	ug/l	5.0				
1,4-Dichlorobenzene	ND	ug/l	5.0				
3,3'-Dichlorobenzidine	ND	ug/l	5.0				
2,4-Dinitrotoluene	ND	ug/l	5.0				
2,6-Dinitrotoluene	ND	ug/l	5.0				
Azobenzene	ND	ug/l	5.0				
Fluoranthene	ND	ug/l	5.0				
4-Chlorophenyl phenyl ether	ND	ug/l	5.0				
4-Bromophenyl phenyl ether	ND	ug/l	5.0				
Bis(2-chloroisopropyl)ether	ND	ug/l	5.0				
Bis(2-chloroethoxy)methane	ND	ug/l	5.0				
Hexachlorobutadiene	ND	ug/l	5.0				
Hexachlorocyclopentadiene	ND	ug/l	5.0				
Hexachloroethane	ND	ug/l	5.0				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0207618

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-05							
SVOC's by GC/MS 8270 continued				1 8270C	0802 19:45	0804 20:47	HL
Isophorone	ND	ug/l	5.0				
Naphthalene	ND	ug/l	5.0				
Nitrobenzene	ND	ug/l	5.0				
NDPA/DPA	ND	ug/l	5.0				
n-Nitrosodi-n-propylamine	ND	ug/l	5.0				
Bis(2-ethylhexyl)phthalate	ND	ug/l	5.0				
Butyl benzyl phthalate	ND	ug/l	5.0				
Di-n-butylphthalate	ND	ug/l	5.0				
Di-n-octylphthalate	ND	ug/l	5.0				
Diethyl phthalate	ND	ug/l	5.0				
Dimethyl phthalate	ND	ug/l	5.0				
Benzo(a)anthracene	ND	ug/l	5.0				
Benzo(a)pyrene	ND	ug/l	5.0				
Benzo(b)fluoranthene	ND	ug/l	5.0				
Benzo(k)fluoranthene	ND	ug/l	5.0				
Chrysene	ND	ug/l	5.0				
Acenaphthylene	ND	ug/l	5.0				
Anthracene	ND	ug/l	5.0				
Benzo(ghi)perylene	ND	ug/l	5.0				
Fluorene	ND	ug/l	5.0				
Phenanthrene	ND	ug/l	5.0				
Dibenzo(a,h)anthracene	ND	ug/l	5.0				
Indeno(1,2,3-cd)pyrene	ND	ug/l	5.0				
Pyrene	ND	ug/l	5.0				
Benzo(e)pyrene	ND	ug/l	5.0				
Biphenyl	ND	ug/l	5.0				
Perylene	ND	ug/l	5.0				
Aniline	ND	ug/l	5.0				
4-Chloroaniline	ND	ug/l	5.0				
1-Methylnaphthalene	ND	ug/l	5.0				
2-Nitroaniline	ND	ug/l	5.0				
3-Nitroaniline	ND	ug/l	5.0				
4-Nitroaniline	ND	ug/l	5.0				
Dibenzofuran	ND	ug/l	5.0				
a,a-Dimethylphenethylamine	ND	ug/l	5.0				
Hexachloropropene	ND	ug/l	5.0				
Nitrosodi-n-butylamine	ND	ug/l	5.0				
2-Methylnaphthalene	ND	ug/l	5.0				
1,2,4,5-Tetrachlorobenzene	ND	ug/l	5.0				
Pentachlorobenzene	ND	ug/l	5.0				
a-Naphthylamine	ND	ug/l	5.0				
b-Naphthylamine	ND	ug/l	5.0				
Phenacetin	ND	ug/l	5.0				
Dimethoate	ND	ug/l	5.0				
4-Aminobiphenyl	ND	ug/l	5.0				
Pentachloronitrobenzene	ND	ug/l	5.0				
Isodrin	ND	ug/l	5.0				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0207618

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-05							
SVOC's by GC/MS 8270 continued				1 8270C	0802 19:45	0804 20:47	HL
p-Dimethylaminoazobenzene	ND	ug/l	5.0				
Chlorobenzilate	ND	ug/l	5.0				
3-Methylcholanthrene	ND	ug/l	5.0				
Ethyl Methanesulfonate	ND	ug/l	5.0				
Acetophenone	ND	ug/l	5.0				
Nitrosodipiperidine	ND	ug/l	5.0				
7,12-Dimethylbenz(a)anthracene	ND	ug/l	5.0				
n-Nitrosodimethylamine	ND	ug/l	5.0				
2,4,6-Trichlorophenol	ND	ug/l	5.0				
p-Chloro-m-cresol	ND	ug/l	5.0				
2-Chlorophenol	ND	ug/l	5.0				
2,4-Dichlorophenol	ND	ug/l	5.0				
2,4-Dimethylphenol	ND	ug/l	5.0				
2-Nitrophenol	ND	ug/l	5.0				
4-Nitrophenol	ND	ug/l	5.0				
2,4-Dinitrophenol	ND	ug/l	5.0				
4,6-Dinitro-o-cresol	ND	ug/l	5.0				
Pentachlorophenol	ND	ug/l	5.0				
Phenol	ND	ug/l	5.0				
2-Methylphenol	ND	ug/l	5.0				
3-Methylphenol/4-Methylphenol	ND	ug/l	5.0				
2,4,5-Trichlorophenol	ND	ug/l	5.0				
2,6-Dichlorophenol	ND	ug/l	5.0				
Benzoic Acid	ND	ug/l	5.0				
Benzyl Alcohol	ND	ug/l	5.0				
Carbazole	ND	ug/l	5.0				
Pyridine	ND	ug/l	5.0				
2-Picoline	ND	ug/l	5.0				
Pronamide	ND	ug/l	5.0				
Methyl methanesulfonate	ND	ug/l	5.0				
Surrogate Recovery							
2-Fluorophenol	33.0	%					
Phenol-d6	23.0	%					
Nitrobenzene-d5	64.0	%					
2-Fluorobiphenyl	60.0	%					
2,4,6-Tribromophenol	102.	%					
4-Terphenyl-d14	88.0	%					

REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Update III, 1997.

30. Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

45. Physiologically Available Cyanide (PAC), January 1996 Protocol, Mass DEP 1996.

GLOSSARY OF TERMS AND SYMBOLS

REF Reference number in which test method may be found.
METHOD Method number by which analysis was performed.
ID Initials of the analyst.

Please note that all solid samples are reported on dry weight basis unless noted otherwise

LIMITATION OF LIABILITIES

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.

Quality Control Acceptance Criteria

Volatile Organics by Method 8260B

surrogate spike % recovery	AQ Limits		Soil Limits	
	LCL	UCL	LCL	UCL
1,2-Dichloroethane-d_4	75%	125%	75%	125%
4-Bromofluorobenzene	75%	125%	75%	125%
Toluene-d_8	75%	125%	75%	125%
Dibromofluoromethane	75%	125%	75%	125%

matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	percent recovery				duplicate and/or MSD	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
1,1-Dichloroethene	61%	145%	59%	172%	all target compounds	
Trichloroethene	71%	120%	62%	137%	20%	30%
Chlorobenzene	75%	130%	60%	133%		
Benzene	76%	127%	66%	142%		
Toluene	76%	125%	59%	139%		

Volatile Organics by Method 8021B

surrogate spike % recovery	AQ Limits		Soil Limits	
	LCL	UCL	LCL	UCL
4-Bromochlorobenzene	70%	110%	70%	120%
4-Bromofluorobenzene	70%	110%	70%	120%

matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	percent recovery				duplicate and/or MSD	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
1,1-Dichloroethene	70%	130%	70%	130%	all target compounds	
Trichloroethene	70%	130%	70%	130%	20%	30%
Chlorobenzene	70%	130%	70%	130%		
Benzene	70%	130%	70%	130%		
Toluene	70%	130%	70%	130%		
Ethylbenzene	70%	130%	70%	130%		

Semi-Volatile Organics by Method 8270C (includes PAHs)

surrogate spike % recovery	AQ Limits		Soil Limits	
	LCL	UCL	LCL	UCL
Nitrobenzene-d_5	23%	120%	23%	120%
Phenol-d_6	10%	120%	10%	120%
2-Fluorophenol	21%	120%	25%	120%
2-Fluorobiphenyl	43%	120%	30%	120%
p-Terphenyl-d_{14}	33%	120%	18%	120%
2,4,6-Tribromophenol	10%	120%	19%	120%

matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	percent recovery				duplicate and/or MSD	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
1,2,4-Trichlorobenzene	39%	98%	38%	107%	all target compounds	
Acenaphthene	46%	118%	31%	137%	40%	50%
2,4-Dinitrotoluene	24%	96%	28%	89%		
Pyrene	26%	127%	35%	142%		
N-Nitroso-di-n-propylamine	41%	116%	41%	126%		
1,4-Dichlorobenzene	36%	97%	28%	104%		
Pentachlorophenol	9%	103%	17%	109%		
Phenol	12%	110%	26%	90%		
2-Chlorophenol	27%	123%	25%	102%		
4-Chloro-3-methylphenol	23%	97%	26%	103%		
4-Nitrophenol	10%	80%	11%	114%		

Quality Control Acceptance Criteria

PCB/Pesticides by Method 8082/8081

surrogate spike % recovery	AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL		
2,4,5,6-Tetrachloro-m-xylene	40%	120%	40%	120%		
Decachlorobiphenyl	30%	150%	30%	150%		
matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	**percent recovery AQ Limits LCL**	**AQ Limits UCL**	**Soil Limits LCL**	**Soil Limits UCL**	**duplicate and/or MSD AQ Limits RPD**	**Soil Limits RPD**
Lindane	56%	123%	46%	127%	all target compounds	
Heptachlor	40%	131%	35%	130%	30%	50%
Aldrin	40%	120%	34%	132%		
Dieldrin	52%	126%	31%	134%		
Endrin	56%	121%	42%	139%		
4,4'-DDT	38%	127%	23%	134%		
Aroclor 1242/1016	40%	140%	40%	140%		
Aroclor 1260	40%	140%	40%	140%		

Volatile Petroleum Hydrocarbons (VPH) by MA DEP 98-1

surrogate spike % recovery	AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL		
2,5-Dibromotoluene	70%	130%	70%	130%		
laboratory control sample (LCS)	**percent recovery AQ Limits LCL**	**AQ Limits UCL**	**Soil Limits LCL**	**Soil Limits UCL**	**duplicate AQ Limits RPD**	**Soil Limits RPD**
all compounds	70%	130%	70%	130%	50%	50%

Extractable Petroleum Hydrocarbons (EPH) by MA DEP 98-1

surrogate spike % recovery	AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL		
Chloro-octadecane	40%	140%	40%	140%		
ortho-Terphenyl	40%	140%	40%	140%		
2-Fluorobiphenyl (fractionation)	40%	140%	40%	140%		
2-Bromonaphthalene (fractionation)	40%	140%	40%	140%		
laboratory control sample (LCS)	**percent recovery AQ Limits LCL**	**AQ Limits UCL**	**Soil Limits LCL**	**Soil Limits UCL**	**duplicate AQ Limits RPD**	**Soil Limits RPD**
all compounds	40%	140%	40%	140%	50%	50%

TPH (GC-FID) by Method 8100M

surrogate spike % recovery	AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL	duplicate AQ Limits RPD	duplicate Soil Limits RPD
ortho-Terphenyl	40%	140%	40%	140%	40%	40%

TPH by Method 418.1

matrix spike (MS) & laboratory control sample (LCS)	percent recovery AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL	duplicate AQ Limits RPD	duplicate Soil Limits RPD
TPH	60%	140%	60%	140%	40%	40%

Quality Control Acceptance Criteria

Trace Metals by Method 6010B/7000 series

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
target analyte	75%	125%	70%	140%	20%	35%

Mercury by Method 7470A/7471A

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
mercury	70%	130%	60%	140%	35%	45%

Total Cyanide by Method 9010B

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
cyanide	80%	120%	65%	135%	30%	40%

Total Phenol by Method 9065

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
phenol	70%	130%	65%	135%	20%	30%

HALEY & ALDRICH
Haley & Aldrich, Inc.
465 Medford St.,
Suite 2200,
Boston, MA 02129-1400

CHAIN OF CUSTODY RECORD

Phone (617) 886-7400
Fax (617) 886-7600

H&A FILE NO. 06558 G31
PROJECT NAME Former MGC Site, Malden, MA
H&A CONTACT [illegible] S. Carroll

LABORATORY Alpha Analytical
ADDRESS Westborough, MA
CONTACT

DELIVERY DATE 1 AUG 07
TURNAROUND TIME Standard
PROJECT MANAGER Bruce Wilkinson

(Analysis Requested)

Sample No.	Date	Time	Depth	Type	(1) VOC 8260	(2) SVOC 8270	(3) RCRA 8 Metals (Field Filtered)	(4) PCB	(5) TCN	(6) Total Cyanide	(7) TPH	(8) TCLP	Reactivity Ignitability Corrosivity				Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)
NC-3	1 AUG 07	0830	GW	GW	X	X	X	X	X	X	X	X					10	(1) VOC 8260
BOZ-1		0930			X	X	X		X	X							7	(2) SVOC 8270
97B-B6280W		1145			X	X	X		X	X							7	(3) RCRA 8 Metals - Field Filtered
MS/MSD FROM		1145			X	X	X		X	X							7	(4) NO_2, NO_3, SO_4
97B-B6280W																		(5) TCN
																		(6) PAC
																		(7) TKN
97B-B6270W		1345			X	X	X		X	X							7	(8) TOTAL ALKALINITY
97B-B6170W		1530			X	X	X	X	X	X		X					10	* Substitute 2-250 ml. Bottles for 1-500 ml. bottle.

NO GLASSWARE

*

LIQUID 48 TOTAL

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
VOA Vial	X							
Amber Glass		X						
Plastic Bottle			X	X	X	X	X	X
Preservative	A,F	A	A,D	A	A,C	A	A,E	A
Volume	40 ml	1L	500 ml	500 ml	250 ml	250 ml	250 ml	250 ml

SOLID

VOA Vial	X	X
Amber Glass	X	X
Clear Glass	X	X
Preservative	A,F	A
Volume	40 ml	1L

Sampled and Relinquished by
Sign [illegible]
Print Dwight Wilson
Firm H&A
Date 1 AUG 07 Time 1715

Received by
Sign [illegible]
Print [illegible]
Firm [illegible]
Date [illegible] Time

Relinquished by
Sign [illegible]
Print
Firm
Date Time

Received by
Sign [illegible]
Print
Firm
Date 8/1 Time 1415

Relinquished by
Sign
Print
Firm
Date Time

Received by
Sign
Print
Firm
Date Time

Sampling Comments
Run PAC only if TCN detected

NOTE: 48 Hr Holding Time For NO_3

Evidence samples were tampered with? YES NO
If YES, please explain in section below.

PRESERVATION KEY

A Sample chilled	C NaOH	E H_2SO_4	G Methanol
B Sample filtered	D HNO_3	F HCL	H Sodium Bisulfate

WHITE Laboratory CANARY Project Manager PINK - Haley & Aldrich Laboratory GOLDENROD - Haley & Aldrich Contact

RECEIVED
AUG 15 2002
Haley & Aldrich, Inc.

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220 www.alphalab.com

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

Client: Haley & Aldrich, Inc.

Address: 465 Medford Street, Suite 2200
Boston, MA 02129-1400

Attn: Mr. Steve Provencal

Project Number: 06558-631

Site: FORMER MGP SITE

Laboratory Job Number: L0207678

Invoice Number: 66747

Date Received: 02-AUG-02

Date Reported: 09-AUG-02

Delivery Method: Alpha

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0207678-01	GP98-103 OW	MALDEN, MA
L0207678-02	NC-2	MALDEN, MA
L0207678-03	TRIP BLANK	ALPHA

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by: James R. Roth, PhD

James R. Roth, PhD - Technical Director
This document electronically signed

ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT

Laboratory Job Number: L0207678

Alpha Report L0207678:

It should be noted that no significant deviations were encountered during preparation or analysis of these samples unless noted below.

Volatile Organics

Alpha Sample L0207678-02 was re-analyzed on dilution in order to quantitate the sample within the range of the calibration. The results are reported as greater than values for any compound that exceeded the calibration on the initial analysis. The re-analyses were performed only for those compounds which exceeded the range of the calibration.

Semivolatile Organics

One or more laboratory control sample percent recoveries associated with Alpha Samples L0207678-01 through -02 are outside the individual acceptance criteria for the compounds, but within the overall method allowances. No further actions were required.

One or more matrix spike/matrix spike duplicate percent recoveries associated with Alpha Samples L0207678-01 through -02 are outside the acceptance criteria for the method. The unacceptable recoveries have been attributed to matrix interferences in the sample utilized for the MS/MSD.

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0207678-01
GP98-103 OW
Sample Matrix: WATER

Date Collected: 02-AUG-2002 10:30
Date Received : 02-AUG-2002
Date Reported : 09-AUG-2002

Condition of Sample: Satisfactory

Field Prep: Field Filtered

Number & Type of Containers: 2-Amber,3-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Cyanide, Total	0.005	mg/l	0.005	1	9010B	0806 16:50	0808 12:00	ED
Cyanide, Physiologically Available	ND	mg/l	0.005	45		0806 17:26	0808 13:05	ED
Dissolved Metals								
Arsenic, Dissolved	ND	mg/l	0.005	1	6010B	0805 08:10	0806 09:01	RW
Barium, Dissolved	0.03	mg/l	0.01	1	6010B	0805 08:10	0806 09:01	RW
Cadmium, Dissolved	ND	mg/l	0.005	1	6010B	0805 08:10	0806 09:01	RW
Chromium, Dissolved	ND	mg/l	0.01	1	6010B	0805 08:10	0806 09:01	RW
Lead, Dissolved	ND	mg/l	0.010	1	6010B	0805 08:10	0806 09:01	RW
Mercury, Dissolved	ND	mg/l	0.0005	1	7470A	0808 15:45	0809 09:55	DM
Selenium, Dissolved	ND	mg/l	0.005	1	6010B	0805 08:10	0806 09:01	RW
Silver, Dissolved	ND	mg/l	0.007	1	6010B	0805 08:10	0806 09:01	RW
Volatile Organics by GC/MS 8260				1	8260B		0805 14:24	BT
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	0.50					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0207678-01
GP98-103 OW

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1 8260B		0805 14:24	BT
Ethylbenzene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.5				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	2.5				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0207678-01
GP98-103 OW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		0805 14:24	BT
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					
Surrogate Recovery								
1,2-Dichloroethane-d4	101.	%						
Toluene-d8	97.0	%						
4-Bromofluorobenzene	100.	%						
Dibromofluoromethane	100.	%						
PNA's by GC/MS 8270				1	8270C	0805 16:50	0807 13:52	HL
Acenaphthene	ND	ug/l	5.0					
2-Chloronaphthalene	ND	ug/l	6.0					
Fluoranthene	ND	ug/l	5.0					
Naphthalene	ND	ug/l	5.0					
Benzo(a)anthracene	ND	ug/l	5.0					
Benzo(a)pyrene	ND	ug/l	5.0					
Benzo(b)fluoranthene	ND	ug/l	5.0					
Benzo(k)fluoranthene	ND	ug/l	5.0					
Chrysene	ND	ug/l	5.0					
Acenaphthylene	ND	ug/l	5.0					
Anthracene	ND	ug/l	5.0					
Benzo(ghi)perylene	ND	ug/l	5.0					
Fluorene	ND	ug/l	5.0					
Phenanthrene	ND	ug/l	5.0					
Dibenzo(a,h)anthracene	ND	ug/l	5.0					
Indeno(1,2,3-cd)pyrene	ND	ug/l	7.0					
Pyrene	ND	ug/l	5.0					
Benzo(e)pyrene	ND	ug/l	5.0					
Biphenyl	ND	ug/l	5.0					
Perylene	ND	ug/l	5.0					
1-Methylnaphthalene	ND	ug/l	5.0					
2-Methylnaphthalene	ND	ug/l	8.0					
Surrogate Recovery								
Nitrobenzene-d5	79.0	%						
2-Fluorobiphenyl	76.0	%						
4-Terphenyl-d14	84.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0207678-02
NC-2
Sample Matrix: WATER

Date Collected: 02-AUG-2002 12:30
Date Received : 02-AUG-2002
Date Reported : 09-AUG-2002

Condition of Sample: Satisfactory

Field Prep: Field Filtered

Number & Type of Containers: 2-Amber,3-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Cyanide, Total	0.026	mg/l	0.005	1	9010B	0806 16:50	0808 12:01	ED
Cyanide, Physiologically Available	ND	mg/l	0.005	45		0806 17:26	0808 13:06	ED
Dissolved Metals								
Arsenic, Dissolved	0.012	mg/l	0.005	1	6010B	0805 08:10	0806 09:05	RW
Barium, Dissolved	0.02	mg/l	0.01	1	6010B	0805 08:10	0806 09:05	RW
Cadmium, Dissolved	ND	mg/l	0.005	1	6010B	0805 08:10	0806 09:05	RW
Chromium, Dissolved	ND	mg/l	0.01	1	6010B	0805 08:10	0806 09:05	RW
Lead, Dissolved	ND	mg/l	0.010	1	6010B	0805 08:10	0806 09:05	RW
Mercury, Dissolved	ND	mg/l	0.0005	1	7470A	0808 15:45	0809 09:57	DM
Selenium, Dissolved	ND	mg/l	0.005	1	6010B	0805 08:10	0806 09:05	RW
Silver, Dissolved	ND	mg/l	0.007	1	6010B	0805 08:10	0806 09:05	RW
Volatile Organics by GC/MS 8260				1	8260B		0805 15:02	BT
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	0.50					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	>100	ug/l	0.5					
Toluene	2.8	ug/l	0.75					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0207678-02
NC-2

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1 8260B		0805 15:02 BT	
Ethylbenzene	7.3	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	0.61	ug/l	0.50				
o-Xylene	0.68	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	0.56	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.5				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	1.7	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	2.5				
Isopropylbenzene	1.9	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	4.2	ug/l	2.5				
n-Propylbenzene	0.54	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0207678-02
NC-2

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		0805 15:02	BT
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					
Surrogate Recovery								
1,2-Dichloroethane-d4	98.0	%						
Toluene-d8	99.0	%						
4-Bromofluorobenzene	109.	%						
Dibromofluoromethane	95.0	%						
Volatile Organics by GC/MS 8260				1	8260B		0806 13:16	BT
Benzene	160	ug/l	2.0					
Surrogate Recovery								
1,2-Dichloroethane-d4	102.	%						
Toluene-d8	97.0	%						
4-Bromofluorobenzene	100.	%						
Dibromofluoromethane	95.0	%						
PNA's by GC/MS 8270				1	8270C	0805 16:53	0807 14:40	HL
Acenaphthene	ND	ug/l	5.0					
2-Chloronaphthalene	ND	ug/l	6.0					
Fluoranthene	ND	ug/l	5.0					
Naphthalene	ND	ug/l	5.0					
Benzo(a)anthracene	ND	ug/l	5.0					
Benzo(a)pyrene	ND	ug/l	5.0					
Benzo(b)fluoranthene	ND	ug/l	5.0					
Benzo(k)fluoranthene	ND	ug/l	5.0					
Chrysene	ND	ug/l	5.0					
Acenaphthylene	ND	ug/l	5.0					
Anthracene	ND	ug/l	5.0					
Benzo(ghi)perylene	ND	ug/l	5.0					
Fluorene	ND	ug/l	5.0					
Phenanthrene	ND	ug/l	5.0					
Dibenzo(a,h)anthracene	ND	ug/l	5.0					
Indeno(1,2,3-cd)pyrene	ND	ug/l	7.0					
Pyrene	ND	ug/l	5.0					
Benzo(e)pyrene	ND	ug/l	5.0					
Biphenyl	ND	ug/l	5.0					
Perylene	ND	ug/l	5.0					
1-Methylnaphthalene	ND	ug/l	5.0					
2-Methylnaphthalene	ND	ug/l	8.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0207678-02
NC-2

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
PNA's by GC/MS 8270 continued				1	8270C	0805 16:50	0807 14:40	KL
Surrogate Recovery								
Nitrobenzene-d5	72.0	%						
2-Fluorobiphenyl	71.0	%						
4-Terphenyl-d14	82.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0207678-03
TRIP BLANK
Sample Matrix: WATER

Date Collected: 26-JUL-2002 08:35
Date Received : 02-AUG-2002
Date Reported : 09-AUG-2002

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260				1	8260B		0805 15:40	BT
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	0.50					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	ND	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	ND	ug/l	1.0					
p/m-Xylene	ND	ug/l	0.50					
o-Xylene	ND	ug/l	0.50					
cis-1,2-Dichloroethene	ND	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,4-Dichlorobutane	ND	ug/l	5.0					
Iodomethane	ND	ug/l	5.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0207678-03
TRIP BLANK

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1 8260B		0805 15:40	BT
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.5				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	2.5				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Surrogate Recovery							
1,2-Dichloroethane-d4	96.0	%					
Toluene-d8	96.0	%					
4-Bromofluorobenzene	99.0	%					
Dibromofluoromethane	97.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0207678

Parameter	Value 1	Value 2	RPD	Units
Cyanide, Total for sample(s) 01-02 (L0207647-18, WG119398)				
Cyanide, Total	0.053	0.052	2	mg/l
Cyanide, Physiologically Available for sample(s) 01-02 (L0207647-17, WG119424)				
Cyanide, Physiologically Available	0.011	0.011	3	mg/l
Dissolved Metals for sample(s) 01-02 (L0207647-03, WG119234)				
Arsenic, Dissolved	ND	ND	NC	mg/l
Barium, Dissolved	0.10	0.09	2	mg/l
Cadmium, Dissolved	ND	ND	NC	mg/l
Chromium, Dissolved	ND	ND	NC	mg/l
Lead, Dissolved	ND	ND	NC	mg/l
Selenium, Dissolved	ND	ND	NC	mg/l
Silver, Dissolved	ND	ND	NC	mg/l
Dissolved Metals for sample(s) 01-02 (L0207647-11, WG119609)				
Mercury, Dissolved	ND	ND	NC	mg/l

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0207678

Parameter	% Recovery
Cyanide, Total LCS for sample(s) 01-02 (WG119398)	
Cyanide, Total	106
Cyanide, Physiologically Available LCS for sample(s) 01-02 (WG119424)	
Cyanide, Physiologically Available	112
Dissolved Metals LCS for sample(s) 01-02 (WG119234)	
Arsenic, Dissolved	105
Barium, Dissolved	100
Cadmium, Dissolved	108
Chromium, Dissolved	100
Lead, Dissolved	108
Selenium, Dissolved	106
Silver, Dissolved	103
Dissolved Metals LCS for sample(s) 01-02 (WG119609)	
Mercury, Dissolved	109
Volatile Organics by GC/MS 8260 LCS for sample(s) 01-03 (WG118859)	
Chlorobenzene	98
Benzene	101
Toluene	100
1,1-Dichloroethene	98
Trichloroethene	105
Surrogate Recovery	
1,2-Dichloroethane-d4	94
Toluene-d8	96
4-Bromofluorobenzene	94
Dibromofluoromethane	97
PNA's by GC/MS 8270 LCS for sample(s) 01-02 (WG119270)	
Acenaphthene	81
1,2,4-Trichlorobenzene	69
2-Chloronaphthalene	84
1,2-Dichlorobenzene	70
1,4-Dichlorobenzene	69
2,4-Dinitrotoluene	110
2,6-Dinitrotoluene	65
Fluoranthene	100
4-Chlorophenyl phenyl ether	83
n-Nitrosodi-n-propylamine	91
Butyl benzyl phthalate	120
Anthracene	93
Pyrene	100
Hexachloropropene	63
P-Chloro-M-Cresol	91
2-Chlorophenol	73
2-Nitrophenol	89

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0207678

Continued

Parameter	% Recovery
PNA's by GC/MS 8270 LCS for sample(s) 01-02 (WG119270)	
4-Nitrophenol	49
2,4-Dinitrophenol	95
Pentachlorophenol	93
Phenol	36
Surrogate Recovery	
2-Fluorophenol	50
Phenol-d6	38
Nitrobenzene-d5	84
2-Fluorobiphenyl	84
2,4,6-Tribromophenol	46
4-Terphenyl-d14	85
Cyanide, Total SPIKE for sample(s) 01-02 (L0207647-18, WG119398)	
Cyanide, Total	110
Dissolved Metals SPIKE for sample(s) 01-02 (L0207647-05, WG119234)	
Arsenic, Dissolved	106
Barium, Dissolved	98
Cadmium, Dissolved	108
Chromium, Dissolved	100
Lead, Dissolved	110
Selenium, Dissolved	92
Silver, Dissolved	105
Dissolved Metals SPIKE for sample(s) 01-02 (L0207647-15, WG119609)	
Mercury, Dissolved	125

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0207678

Parameter	MS %	MSD %	RPD
Volatile Organics by GC/MS 8260 for sample(s) 01-03 (L0207457-01, WG118859)			
Chlorobenzene	95	93	2
Benzene	93	89	4
Toluene	95	93	2
1,1-Dichloroethene	83	84	1
Trichloroethene	96	91	6
PNA's by GC/MS 8270 for sample(s) 01-02 (L0207581-01, WG119270)			
Acenaphthene	73	70	4
1,2,4-Trichlorobenzene	64	62	3
2-Chloronaphthalene	75	73	3
1,2-Dichlorobenzene	53	53	0
1,4-Dichlorobenzene	53	53	0
2,4-Dinitrotoluene	210	210	0
2,6-Dinitrotoluene	110	110	0
Fluoranthene	88	88	0
4-Chlorophenyl phenyl ether	77	75	3
n-Nitrosodi-n-propylamine	59	59	0
Butyl benzyl phthalate	100	100	0
Anthracene	79	81	3
Pyrene	88	86	2
Hexachloropropene	70	66	6
P-Chloro-M-Cresol	85	84	1
2-Chlorophenol	54	54	0
2-Nitrophenol	57	58	2
4-Nitrophenol	23	24	4
2,4-Dinitrophenol	73	75	3
Pentachlorophenol	87	88	1
Phenol	47	48	2

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0207678

PARAMETER	RESULT	UNITS	RDL	REP	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-02								
Cyanide, Total	ND	mg/l	0.005	1	9010B	0806 16:50	0808 11:42	ED
Blank Analysis for sample(s) 01-02								
Cyanide, Physiologically Available	ND	mg/l	0.005	45		0806 17:26	0808 13:43	ED
Blank Analysis for sample(s) 01-02								
Dissolved Metals								
Arsenic, Dissolved	ND	mg/l	0.005	1	6010B	0805 08:10	0806 03:08	RW
Barium, Dissolved	ND	mg/l	0.01	1	6010B	0805 08:10	0806 03:08	RW
Cadmium, Dissolved	ND	mg/l	0.005	1	6010B	0805 08:10	0806 03:08	RW
Chromium, Dissolved	ND	mg/l	0.01	1	6010B	0805 08:10	0806 03:08	RW
Lead, Dissolved	ND	mg/l	0.010	1	6010B	0805 08:10	0806 03:08	RW
Selenium, Dissolved	ND	mg/l	0.005	1	6010B	0805 08:10	0806 03:08	RW
Silver, Dissolved	ND	mg/l	0.007	1	6010B	0805 08:10	0806 03:08	RW
Blank Analysis for sample(s) 01-02								
Dissolved Metals								
Mercury, Dissolved	ND	mg/l	0.0005	1	7470A	0808 15:45	0809 09:33	DM
Blank Analysis for sample(s) 01-03								
Volatile Organics by GC/MS 8260				1	8260B		0805 11:32	BT
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	0.50					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0207678

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-03								
Volatile Organics by GC/MS 8260 continued				1	8260B		0805 11:32 BT	
Bromomethane	ND	ug/l	1.0					
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	ND	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	ND	ug/l	1.0					
p/m-Xylene	ND	ug/l	0.50					
o-Xylene	ND	ug/l	0.50					
cis-1,2-Dichloroethene	ND	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,4-Dichlorobutane	ND	ug/l	5.0					
Iodomethane	ND	ug/l	5.0					
1,2,3-Trichloropropane	ND	ug/l	5.0					
Styrene	ND	ug/l	0.50					
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
Vinyl acetate	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Ethyl methacrylate	ND	ug/l	5.0					
Acrolein	ND	ug/l	12.					
Acrylonitrile	ND	ug/l	5.0					
Bromochloromethane	ND	ug/l	2.5					
Tetrahydrofuran	ND	ug/l	10.					
2,2-Dichloropropane	ND	ug/l	2.5					
1,2-Dibromoethane	ND	ug/l	2.5					
1,3-Dichloropropane	ND	ug/l	2.5					
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50					
Bromobenzene	ND	ug/l	2.5					
n-Butylbenzene	ND	ug/l	0.50					
sec-Butylbenzene	ND	ug/l	0.50					
tert-Butylbenzene	ND	ug/l	2.5					
o-Chlorotoluene	ND	ug/l	2.5					
p-Chlorotoluene	ND	ug/l	2.5					
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	2.5					
Isopropylbenzene	ND	ug/l	0.50					
p-Isopropyltoluene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	2.5					
n-Propylbenzene	ND	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0207678

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-03							
Volatile Organics by GC/MS 8260 continued				1 8260B		0805 11:32	BT
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Surrogate Recovery							
1,2-Dichloroethane-d4	98.0	%					
Toluene-d8	96.0	%					
4-Bromofluorobenzene	98.0	%					
Dibromofluoromethane	96.0	%					
Blank Analysis for sample(s) 01-02							
PNA's by GC/MS 8270				1 8270C	0805 16:50	0807 11:22	HL
Acenaphthene	ND	ug/l	5.0				
Hexachlorobenzene	ND	ug/l	5.0				
2-Chloronaphthalene	ND	ug/l	6.0				
Fluoranthene	ND	ug/l	5.0				
Naphthalene	ND	ug/l	5.0				
Benzo(a)anthracene	ND	ug/l	5.0				
Benzo(a)pyrene	ND	ug/l	5.0				
Benzo(b)fluoranthene	ND	ug/l	5.0				
Benzo(k)fluoranthene	ND	ug/l	5.0				
Chrysene	ND	ug/l	5.0				
Acenaphthylene	ND	ug/l	5.0				
Anthracene	ND	ug/l	5.0				
Benzo(ghi)perylene	ND	ug/l	5.0				
Fluorene	ND	ug/l	5.0				
Phenanthrene	ND	ug/l	5.0				
Dibenzo(a,h)anthracene	ND	ug/l	5.0				
Indeno(1,2,3-cd)pyrene	ND	ug/l	7.0				
Pyrene	ND	ug/l	5.0				
Benzo(e)pyrene	ND	ug/l	5.0				
Biphenyl	ND	ug/l	5.0				
Perylene	ND	ug/l	5.0				
1-Methylnaphthalene	ND	ug/l	5.0				
2-Methylnaphthalene	ND	ug/l	8.0				
Pentachlorophenol	ND	ug/l	20.				
Surrogate Recovery							
Nitrobenzene-d5	86.0	%					
2-Fluorobiphenyl	84.0	%					
4-Terphenyl-d14	86.0	%					

REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Update III, 1997.

45. Physiologically Available Cyanide (PAC), January 1996 Protocol, Mass DEP 1996.

GLOSSARY OF TERMS AND SYMBOLS

REF Reference number in which test method may be found.
METHOD Method number by which analysis was performed.
ID Initials of the analyst.

Please note that all solid samples are reported on dry weight basis unless noted otherwise.

LIMITATION OF LIABILITIES

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive respcnsibility of Alpha Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.

Quality Control Acceptance Criteria

Volatile Organics by Method 8260B

surrogate spike % recovery	AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL		
1,2-Dichloroethane-d_4	75%	125%	75%	125%		
4-Bromofluorobenzene	75%	125%	75%	125%		
Toluene-d_8	75%	125%	75%	125%		
Dibromofluoromethane	75%	125%	75%	125%		
matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	**percent recovery AQ Limits LCL**	**AQ Limits UCL**	**Soil Limits LCL**	**Soil Limits UCL**	**duplicate and/or MSD AQ Limits RPD**	**duplicate and/or MSD Soil Limits RPD**
1,1-Dichloroethene	61%	145%	59%	172%	all target compounds	
Trichloroethene	71%	120%	62%	137%	20%	30%
Chlorobenzene	75%	130%	60%	133%	–	
Benzene	76%	127%	66%	142%		
Toluene	76%	125%	59%	139%		

Volatile Organics by Method 8021B

surrogate spike % recovery	AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL		
4-Bromochlorobenzene	70%	110%	70%	120%		
4-Bromofluorobenzene	70%	110%	70%	120%		
matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	**percent recovery AQ Limits LCL**	**AQ Limits UCL**	**Soil Limits LCL**	**Soil Limits UCL**	**duplicate and/or MSD AQ Limits RPD**	**duplicate and/or MSD Soil Limits RPD**
1,1-Dichloroethene	70%	130%	70%	130%	all target compounds	
Trichloroethene	70%	130%	70%	130%	20%	30%
Chlorobenzene	70%	130%	70%	130%		
Benzene	70%	130%	70%	130%		
Toluene	70%	130%	70%	130%		
Ethylbenzene	70%	130%	70%	130%		

Semi-Volatile Organics by Method 8270C (includes PAHs)

surrogate spike % recovery	AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL		
Nitrobenzene-d_5	23%	120%	23%	120%		
Phenol-d_6	10%	120%	10%	120%		
2-Fluorophenol	21%	120%	25%	120%		
2-Fluorobiphenyl	43%	120%	30%	120%		
p-Terphenyl-d_{14}	33%	120%	18%	120%		
2,4,6-Tribromophenol	10%	120%	19%	120%		
matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	**percent recovery AQ Limits LCL**	**AQ Limits UCL**	**Soil Limits LCL**	**Soil Limits UCL**	**duplicate and/or MSD AQ Limits RPD**	**duplicate and/or MSD Soil Limits RPD**
1,2,4-Trichlorobenzene	39%	98%	38%	107%	all target compounds	
Acenaphthene	46%	118%	31%	137%	40%	50%
2,4-Dinitrotoluene	24%	96%	28%	89%		
Pyrene	26%	127%	35%	142%		
N-Nitroso-di-n-propylamine	41%	116%	41%	126%		
1,4-Dichlorobenzene	36%	97%	28%	104%		
Pentachlorophenol	9%	103%	17%	109%		
Phenol	12%	110%	26%	90%		
2-Chlorophenol	27%	123%	25%	102%		
4-Chloro-3-methylphenol	23%	97%	26%	103%		
4-Nitrophenol	10%	80%	11%	114%		

Quality Control Acceptance Criteria

PCB/Pesticides by Method 8082/8081

surrogate spike % recovery	AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL		
2,4,5,6-Tetrachloro-m-xylene	40%	120%	40%	120%		
Decachlorobiphenyl	30%	150%	30%	150%		
matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	**percent recovery**				**duplicate and/or MSD**	
	AQ Limits		**Soil Limits**		**AQ Limits**	**Soil Limits**
	LCL	**UCL**	**LCL**	**UCL**	**RPD**	**RPD**
Lindane	56%	123%	46%	127%	all target compounds	
Heptachlor	40%	131%	35%	130%	30%	50%
Aldrin	40%	120%	34%	132%		
Dieldrin	52%	126%	31%	134%		
Endrin	56%	121%	42%	139%		
4,4'-DDT	38%	127%	23%	134%		
Aroclor 1242/1016	40%	140%	40%	140%		
Aroclor 1260	40%	140%	40%	140%		

Volatile Petroleum Hydrocarbons (VPH) by MA DEP 98-1

surrogate spike % recovery	AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL		
2,5-Dibromotoluene	70%	130%	70%	130%		
laboratory control sample (LCS)	**percent recovery**				**duplicate**	
	AQ Limits		**Soil Limits**		**AQ Limits**	**Soil Limits**
	LCL	**UCL**	**LCL**	**UCL**	**RPD**	**RPD**
all compounds	70%	130%	70%	130%	50%	50%

Extractable Petroleum Hydrocarbons (EPH) by MA DEP 98-1

surrogate spike % recovery	AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL		
Chloro-octadecane	40%	140%	40%	140%		
ortho-Terphenyl	40%	140%	40%	140%		
2-Fluorobiphenyl (fractionation)	40%	140%	40%	140%		
2-Bromonaphthalene (fractionation)	40%	140%	40%	140%		
laboratory control sample (LCS)	**percent recovery**				**duplicate**	
	AQ Limits		**Soil Limits**		**AQ Limits**	**Soil Limits**
	LCL	**UCL**	**LCL**	**UCL**	**RPD**	**RPD**
all compounds	40%	140%	40%	140%	50%	50%

TPH (GC-FID) by Method 8100M

surrogate spike % recovery	AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL	duplicate AQ Limits RPD	duplicate Soil Limits RPD
ortho-Terphenyl	40%	140%	40%	140%	40%	40%

TPH by Method 418.1

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		**Soil Limits**		**AQ Limits**	**Soil Limits**
	LCL	**UCL**	**LCL**	**UCL**	**RPD**	**RPD**
TPH	60%	140%	60%	140%	40%	40%

Quality Control Acceptance Criteria

Trace Metals by Method 6010B/7000 series

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
target analyte	75%	125%	70%	140%	20%	35%

Mercury by Method 7470A/7471A

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
mercury	70%	130%	60%	140%	35%	45%

Total Cyanide by Method 9010B

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
cyanide	80%	120%	65%	135%	30%	40%

Total Phenol by Method 9065

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
phenol	70%	130%	65%	135%	20%	30%

HALEY & ALDRICH
Haley & Aldrich, Inc.
465 Medford St.,
Suite 2200,
Boston, MA 02129-1400

CHAIN OF CUSTODY RECORD

Phone (617) 886-7400
Fax (617) 886-7600

H&A FILE NO. 06558631
PROJECT NAME Former MGP Site, Malden, Ma
H&A CONTACT S. Caswell

LABORATORY Alpha Analytical
ADDRESS Westborough, Ma
CONTACT Peter Hobbrickson

DELIVERY DATE 8/2/02
TURNAROUND TIME Standard
PROJECT MANAGER Bruce Wilkinson

Analysis Requested

Sample No.	Date	Time	Depth	Type	(1) VOC 8260 (2) SVOC 8270 (PAH ONLY)	(3) RCRA (Field Filtered) Metals	(4) Cyanide	(5) PAH Full Scan Compounds	EPH Full Scan Compounds only	TPH (specify)	TCLP (specify)	Reactivity Ignitability Corrosivity				Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)
GP96-103OW	8/2/02	1030	GW	GW	X	X	X	X	X							7	(1) VOC 8260
NC-2		1230			X	X	X	X	X							7	(2) SVOC 8270 (PAH ONLY)
~~[illegible]~~					~~[illegible]~~											~~[illegible]~~	(3) RCRA & Metals (Field Filtered)
																	(4) TCN
TRIP BLANK					X											1	(5) PAH

Sampled and Relinquished by	Received by
Sign [illegible]	Sign [illegible]
Print [illegible]	Print Ralph Bryant Jr.
Firm H&A	Firm H&A Inc.
Date 8-2-02 Time 1445	Date 8/2/02 Time 14:45
Relinquished by	**Received by**
Sign [illegible]	Sign [illegible]
Print Ralph Bryant Jr.	Print [illegible]
Firm H&A Inc.	Firm [illegible]
Date 8/2/02 Time 16:50	Date 8/2/02 Time 1610
Relinquished by	**Received by**
Sign [illegible]	Sign Denise Ladebauche
Print	Print D. Ladebauche
Firm	Firm Alpha
Date Time	Date 8/6/02 Time 1910

LIQUID	(1)	(2)	(3)	(4)	(5)							
VOA Vial	X											
Amber Glass		X										
Plastic Bottle			X	X	X							
Preservative	A,F	A	A,D	A,C	A							
Volume	40 ml	1L	500 ml	250 ml	250 ml							

SOLID												
VOA Vial												
Amber Glass												
Clear Glass												
Preservative												
Volume												

PRESERVATION KEY

A Sample chilled	C NaOH	E H_2SO_4	G Methanol
B Sample filtered	D HNO_3	F HCL	H Sodium Bisulfate

Sampling Comments

Run PAH only if TCN detected

Evidence samples were tampered with? YES NO
If YES, please explain in section below.

Laboratory CANARY Project Manager PINK - Haley & Aldrich Laboratory GOLDENROD - Haley & Aldrich Contact

RECEIVED

MAR 2 1 2002

Haley & Aldrich, Inc.

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65 NY:11148

CERTIFICATE OF ANALYSIS

Client: Haley & Aldrich, Inc.

Address: 465 Medford Street, Suite 2200
Boston, MA 02129-1400

Attn: Mr. Steve Provencal

Project Number: 06558-631

Site: MALDEN MGC

Laboratory Job Number: L0202411

Invoice Number: 61218

Date Received: 12-MAR-02

Date Reported: 19-MAR-02

Delivery Method: Alpha

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0202411-01	02B-B900-DUP	
L0202411-02	02B-B918-OW	
L0202411-03	02B-B920-OW	
L0202411-04	02B-B921-OW	
L0202411-05	02B-B618-OW	
L0202411-06	MW-1	
L0202411-07	NC-1	

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by: Scott McLean

Scott McLean - Technical Director
This document electronically signed

ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT

Laboratory Job Number: L0202411

Alpha Report L0202411:

Semi-Volatile Organics

Alpha Sample L0202411-07 required analysis on dilution due to sample matrix interference.

One or more of the matrix spike/matrix spike duplicate percent recoveries for _____ analysis associated with Alpha Sample(s) L0202411-01 through -07 are outside the acceptance criteria for the method. This has been attributed to matrix interference.

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0202411-01
02B-B900-DUP
Sample Matrix: WATER

Date Collected: 10-MAR-2002 15:00
Date Received : 12-MAR-2002
Date Reported : 19-MAR-2002

Condition of Sample: Satisfactory

Field Prep: field filtered

Number & Type of Containers: 3-Amber,3-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Cyanide, Total	0.836	mg/l	0.050	1	9010B	0313 18:00	0315 13:21	ED
Cyanide, Physiologically Available	0.087	mg/l	0.005	45		0314 11:00	0315 14:52	ED
Dissolved Metals								
Arsenic, Dissolved	0.025	mg/l	0.010	1	6010B		0315 23:33	RW
Barium, Dissolved	0.08	mg/l	0.01	1	6010B		0315 23:33	RW
Cadmium, Dissolved	ND	mg/l	0.005	1	6010B		0315 23:33	RW
Chromium, Dissolved	ND	mg/l	0.01	1	6010B		0315 23:33	RW
Lead, Dissolved	ND	mg/l	0.010	1	6010B		0315 23:33	RW
Mercury, Dissolved	ND	mg/l	0.0005	1	7470A	0318 12:10	0319 10:02	DM
Selenium, Dissolved	ND	mg/l	0.050	1	6010B		0315 23:33	RW
Silver, Dissolved	ND	mg/l	0.007	1	6010B		0318 13:26	RW
Volatile Organics by GC/MS 8260				1	8260B		0314 19:53	RY
Methylene chloride	ND	ug/l	10000					
1,1-Dichloroethane	ND	ug/l	1500					
Chloroform	ND	ug/l	1500					
Carbon tetrachloride	ND	ug/l	1000					
1,2-Dichloropropane	ND	ug/l	3500					
Dibromochloromethane	ND	ug/l	1000					
1,1,2-Trichloroethane	ND	ug/l	1500					
Tetrachloroethene	ND	ug/l	1000					
Chlorobenzene	ND	ug/l	1000					
Trichlorofluoromethane	ND	ug/l	5000					
1,2-Dichloroethane	ND	ug/l	1000					
1,1,1-Trichloroethane	ND	ug/l	1000					
Bromodichloromethane	ND	ug/l	1000					
trans-1,3-Dichloropropene	ND	ug/l	1000					
cis-1,3-Dichloropropene	ND	ug/l	1000					
1,1-Dichloropropene	ND	ug/l	5000					
Bromoform	ND	ug/l	1000					
1,1,2,2-Tetrachloroethane	ND	ug/l	1000					
Benzene	66000	ug/l	1000					
Toluene	38000	ug/l	1500					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0202411-01
02B-B900-DUP

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1 8260B		0314 19:53	RY
Ethylbenzene	10000	ug/l	1000				
Chloromethane	ND	ug/l	5000				
Bromomethane	ND	ug/l	2000				
Vinyl chloride	ND	ug/l	2000				
Chloroethane	ND	ug/l	2000				
1,1-Dichloroethene	ND	ug/l	1000				
trans-1,2-Dichloroethene	ND	ug/l	1500				
Trichloroethene	ND	ug/l	1000				
1,2-Dichlorobenzene	ND	ug/l	5000				
1,3-Dichlorobenzene	ND	ug/l	5000				
1,4-Dichlorobenzene	ND	ug/l	5000				
Methyl tert butyl ether	ND	ug/l	2000				
p/m-Xylene	5100	ug/l	1000				
o-Xylene	1600	ug/l	1000				
cis-1,2-Dichloroethene	ND	ug/l	1000				
Dibromomethane	ND	ug/l	10000				
1,4-Dichlorobutane	ND	ug/l	10000				
Iodomethane	ND	ug/l	10000				
1,2,3-Trichloropropane	ND	ug/l	10000				
Styrene	ND	ug/l	1000				
Dichlorodifluoromethane	ND	ug/l	10000				
Acetone	ND	ug/l	10000				
Carbon disulfide	ND	ug/l	10000				
2-Butanone	ND	ug/l	10000				
Vinyl acetate	ND	ug/l	10000				
4-Methyl-2-pentanone	ND	ug/l	10000				
2-Hexanone	ND	ug/l	10000				
Ethyl methacrylate	ND	ug/l	10000				
Acrolein	ND	ug/l	25000				
Acrylonitrile	ND	ug/l	10000				
Bromochloromethane	ND	ug/l	5000				
Tetrahydrofuran	ND	ug/l	20000				
2,2-Dichloropropane	ND	ug/l	5000				
1,2-Dibromoethane	ND	ug/l	5000				
1,3-Dichloropropane	ND	ug/l	5000				
1,1,1,2-Tetrachloroethane	ND	ug/l	1000				
Bromobenzene	ND	ug/l	5000				
n-Butylbenzene	ND	ug/l	1000				
sec-Butylbenzene	ND	ug/l	1000				
tert-Butylbenzene	ND	ug/l	5000				
o-Chlorotoluene	ND	ug/l	5000				
p-Chlorotoluene	ND	ug/l	5000				
1,2-Dibromo-3-chloropropane	ND	ug/l	5000				
Hexachlorobutadiene	ND	ug/l	5000				
Isopropylbenzene	ND	ug/l	1000				
p-Isopropyltoluene	ND	ug/l	1000				
Naphthalene	ND	ug/l	5000				
n-Propylbenzene	ND	ug/l	1000				
1,2,3-Trichlorobenzene	ND	ug/l	5000				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0202411-01
02B-B900-DUP

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		0314 19:53	RY
1,2,4-Trichlorobenzene	ND	ug/l	5000					
1,3,5-Trimethylbenzene	ND	ug/l	5000					
1,2,4-Trimethylbenzene	ND	ug/l	5000					
trans-1,4-Dichloro-2-butene	ND	ug/l	5000					
Ethyl ether	ND	ug/l	5000					
Surrogate Recovery								
1,2-Dichloroethane-d4	91.0	%						
Toluene-d8	100.	%						
4-Bromofluorobenzene	97.0	%						
Dibromofluoromethane	90.0	%						
SVOC's by GC/MS 8270				1	8270C	0313 16:30	0319 11:40	HL
Acenaphthene	ND	ug/l	130					
Benzidine	ND	ug/l	1300					
1,2,4-Trichlorobenzene	ND	ug/l	130					
Hexachlorobenzene	ND	ug/l	130					
Bis(2-chloroethyl)ether	ND	ug/l	130					
1-Chloronaphthalene	ND	ug/l	130					
2-Chloronaphthalene	ND	ug/l	150					
1,2-Dichlorobenzene	ND	ug/l	130					
1,3-Dichlorobenzene	ND	ug/l	130					
1,4-Dichlorobenzene	ND	ug/l	130					
3,3'-Dichlorobenzidine	ND	ug/l	1300					
2,4-Dinitrotoluene	ND	ug/l	150					
2,6-Dinitrotoluene	ND	ug/l	130					
Azobenzene	ND	ug/l	130					
Fluoranthene	ND	ug/l	130					
4-Chlorophenyl phenyl ether	ND	ug/l	130					
4-Bromophenyl phenyl ether	ND	ug/l	130					
Bis(2-chloroisopropyl)ether	ND	ug/l	130					
Bis(2-chloroethoxy)methane	ND	ug/l	130					
Hexachlorobutadiene	ND	ug/l	250					
Hexachlorocyclopentadiene	ND	ug/l	250					
Hexachloroethane	ND	ug/l	130					
Isophorone	ND	ug/l	130					
Naphthalene	1700	ug/l	130					
Nitrobenzene	ND	ug/l	130					
NDPA/DPA	ND	ug/l	380					
n-Nitrosodi-n-propylamine	ND	ug/l	130					
Bis(2-ethylhexyl)phthalate	ND	ug/l	250					
Butyl benzyl phthalate	ND	ug/l	130					
Di-n-butylphthalate	ND	ug/l	130					
Di-n-octylphthalate	ND	ug/l	130					
Diethyl phthalate	ND	ug/l	130					
Dimethyl phthalate	ND	ug/l	130					
Benzo(a)anthracene	ND	ug/l	130					
Benzo(a)pyrene	ND	ug/l	130					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0202411-01
02B-B900-DUP

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1 8270C	0313 16:30	0313 11:40	HL
Benzo(b)fluoranthene	ND	ug/l	130				
Benzo(k)fluoranthene	ND	ug/l	130				
Chrysene	ND	ug/l	130				
Acenaphthylene	ND	ug/l	130				
Anthracene	ND	ug/l	130				
Benzo(ghi)perylene	ND	ug/l	130				
Fluorene	ND	ug/l	130				
Phenanthrene	ND	ug/l	130				
Dibenzo(a,h)anthracene	ND	ug/l	130				
Indeno(1,2,3-cd)pyrene	ND	ug/l	180				
Pyrene	ND	ug/l	130				
Benzo(e)pyrene	ND	ug/l	130				
Biphenyl	ND	ug/l	130				
Perylene	ND	ug/l	130				
Aniline	ND	ug/l	250				
4-Chloroaniline	ND	ug/l	130				
1-Methylnaphthalene	260	ug/l	130				
2-Nitroaniline	ND	ug/l	130				
3-Nitroaniline	ND	ug/l	130				
4-Nitroaniline	ND	ug/l	180				
Dibenzofuran	ND	ug/l	130				
a,a-Dimethylphenethylamine	ND	ug/l	1300				
Hexachloropropene	ND	ug/l	1300				
Nitrosodi-n-butylamine	ND	ug/l	250				
2-Methylnaphthalene	ND	ug/l	200				
1,2,4,5-Tetrachlorobenzene	ND	ug/l	500				
Pentachlorobenzene	ND	ug/l	500				
a-Naphthylamine	ND	ug/l	500				
b-Naphthylamine	ND	ug/l	500				
Phenacetin	ND	ug/l	250				
Dimethoate	ND	ug/l	500				
4-Aminobiphenyl	ND	ug/l	250				
Pentachloronitrobenzene	ND	ug/l	250				
Isodrin	ND	ug/l	250				
p-Dimethylaminoazobenzene	ND	ug/l	250				
Chlorobenzilate	ND	ug/l	500				
3-Methylcholanthrene	ND	ug/l	500				
Ethyl Methanesulfonate	ND	ug/l	380				
Acetophenone	ND	ug/l	500				
Nitrosodipiperidine	ND	ug/l	500				
7,12-Dimethylbenz(a)anthracene	ND	ug/l	250				
n-Nitrosodimethylamine	ND	ug/l	1300				
2,4,6-Trichlorophenol	ND	ug/l	130				
p-Chloro-m-cresol	ND	ug/l	130				
2-Chlorophenol	ND	ug/l	150				
2,4-Dichlorophenol	ND	ug/l	250				
2,4-Dimethylphenol	ND	ug/l	250				
2-Nitrophenol	ND	ug/l	500				
4-Nitrophenol	ND	ug/l	250				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0202411-01
02B-B900-DUP

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1	8270C	0313 16:30	0319 11:40	KL
2,4-Dinitrophenol	ND	ug/l	500					
4,6-Dinitro-o-cresol	ND	ug/l	500					
Pentachlorophenol	ND	ug/l	500					
Phenol	180	ug/l	180					
2-Methylphenol	ND	ug/l	150					
3-Methylphenol/4-Methylphenol	ND	ug/l	150					
2,4,5-Trichlorophenol	ND	ug/l	130					
2,6-Dichlorophenol	ND	ug/l	250					
Benzoic Acid	ND	ug/l	1300					
Benzyl Alcohol	ND	ug/l	250					
Carbazole	ND	ug/l	130					
Pyridine	ND	ug/l	1300					
2-Picoline	ND	ug/l	500					
Pronamide	ND	ug/l	500					
Methyl methanesulfonate	ND	ug/l	500					
Surrogate Recovery								
2-Fluorophenol	33.0	%						
Phenol-d6	20.0	%						
Nitrobenzene-d5	54.0	%						
2-Fluorobiphenyl	58.0	%						
2,4,6-Tribromophenol	59.0	%						
4-Terphenyl-d14	54.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0202411-02
02B-B918-OW
Sample Matrix: WATER

Date Collected: 10-MAR-2002 13:15
Date Received : 12-MAR-2002
Date Reported : 19-MAR-2002

Condition of Sample: Satisfactory

Field Prep: field filtered

Number & Type of Containers: 3-Amber,3-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Cyanide, Total	0.786	mg/l	0.050	1	9010B	0313 18:00	0315 13:25	ED
Cyanide, Physiologically Available	0.094	mg/l	0.005	45		0314 11:00	0315 14:53	ED
Dissolved Metals								
Arsenic, Dissolved	0.028	mg/l	0.010	1	6010B		0315 23:45	RW
Barium, Dissolved	0.08	mg/l	0.01	1	6010B		0315 23:45	RW
Cadmium, Dissolved	ND	mg/l	0.005	1	6010B		0315 23:45	RW
Chromium, Dissolved	ND	mg/l	0.01	1	6010B		0315 23:45	RW
Lead, Dissolved	ND	mg/l	0.010	1	6010B		0315 23:45	RW
Mercury, Dissolved	ND	mg/l	0.0005	1	7470A	0318 12:10	0319 10:05	DM
Selenium, Dissolved	ND	mg/l	0.050	1	6010B		0313 13:36	RW
Silver, Dissolved	ND	mg/l	0.007	1	6010B		0313 13:36	RW
Volatile Organics by GC/MS 8260				1	8260B		0314 20:35	RY
Methylene chloride	ND	ug/l	10000					
1,1-Dichloroethane	ND	ug/l	1500					
Chloroform	ND	ug/l	1500					
Carbon tetrachloride	ND	ug/l	1000					
1,2-Dichloropropane	ND	ug/l	3500					
Dibromochloromethane	ND	ug/l	1000					
1,1,2-Trichloroethane	ND	ug/l	1500					
Tetrachloroethene	ND	ug/l	1000					
Chlorobenzene	ND	ug/l	1000					
Trichlorofluoromethane	ND	ug/l	5000					
1,2-Dichloroethane	ND	ug/l	1000					
1,1,1-Trichloroethane	ND	ug/l	1000					
Bromodichloromethane	ND	ug/l	1000					
trans-1,3-Dichloropropene	ND	ug/l	1000					
cis-1,3-Dichloropropene	ND	ug/l	1000					
1,1-Dichloropropene	ND	ug/l	5000					
Bromoform	ND	ug/l	1000					
1,1,2,2-Tetrachloroethane	ND	ug/l	1000					
Benzene	56000	ug/l	1000					
Toluene	30000	ug/l	1500					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0202411-02
02B-B918-OW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		0314 20:35	RY
Ethylbenzene	7100	ug/l	1000					
Chloromethane	ND	ug/l	5000					
Bromomethane	ND	ug/l	2000					
Vinyl chloride	ND	ug/l	2000					
Chloroethane	ND	ug/l	2000					
1,1-Dichloroethene	ND	ug/l	1000					
trans-1,2-Dichloroethene	ND	ug/l	1500					
Trichloroethene	ND	ug/l	1000					
1,2-Dichlorobenzene	ND	ug/l	5000					
1,3-Dichlorobenzene	ND	ug/l	5000					
1,4-Dichlorobenzene	ND	ug/l	5000					
Methyl tert butyl ether	ND	ug/l	2000					
p/m-Xylene	3700	ug/l	1000					
o-Xylene	1200	ug/l	1000					
cis-1,2-Dichloroethene	ND	ug/l	1000					
Dibromomethane	ND	ug/l	10000					
1,4-Dichlorobutane	ND	ug/l	10000					
Iodomethane	ND	ug/l	10000					
1,2,3-Trichloropropane	ND	ug/l	10000					
Styrene	ND	ug/l	1000					
Dichlorodifluoromethane	ND	ug/l	10000					
Acetone	ND	ug/l	10000					
Carbon disulfide	ND	ug/l	10000					
2-Butanone	ND	ug/l	10000					
Vinyl acetate	ND	ug/l	10000					
4-Methyl-2-pentanone	ND	ug/l	10000					
2-Hexanone	ND	ug/l	10000					
Ethyl methacrylate	ND	ug/l	10000					
Acrolein	ND	ug/l	25000					
Acrylonitrile	ND	ug/l	10000					
Bromochloromethane	ND	ug/l	5000					
Tetrahydrofuran	ND	ug/l	20000					
2,2-Dichloropropane	ND	ug/l	5000					
1,2-Dibromoethane	ND	ug/l	5000					
1,3-Dichloropropane	ND	ug/l	5000					
1,1,1,2-Tetrachloroethane	ND	ug/l	1000					
Bromobenzene	ND	ug/l	5000					
n-Butylbenzene	ND	ug/l	1000					
sec-Butylbenzene	ND	ug/l	1000					
tert-Butylbenzene	ND	ug/l	5000					
o-Chlorotoluene	ND	ug/l	5000					
p-Chlorotoluene	ND	ug/l	5000					
1,2-Dibromo-3-chloropropane	ND	ug/l	5000					
Hexachlorobutadiene	ND	ug/l	5000					
Isopropylbenzene	ND	ug/l	1000					
p-Isopropyltoluene	ND	ug/l	1000					
Naphthalene	ND	ug/l	5000					
n-Propylbenzene	ND	ug/l	1000					
1,2,3-Trichlorobenzene	ND	ug/l	5000					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0202411-02
02B-B918-OW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		0314 20:35	RY
1,2,4-Trichlorobenzene	ND	ug/l	5000					
1,3,5-Trimethylbenzene	ND	ug/l	5000					
1,2,4-Trimethylbenzene	ND	ug/l	5000					
trans-1,4-Dichloro-2-butene	ND	ug/l	5000					
Ethyl ether	ND	ug/l	5000					
Surrogate Recovery								
1,2-Dichloroethane-d4	92.0	%						
Toluene-d8	97.0	%						
4-Bromofluorobenzene	100.	%						
Dibromofluoromethane	90.0	%						
SVOC's by GC/MS 8270				1	8270C	0313 16:30	0315 12:27	HL
Acenaphthene	ND	ug/l	250					
Benzidine	ND	ug/l	2500					
1,2,4-Trichlorobenzene	ND	ug/l	250					
Hexachlorobenzene	ND	ug/l	250					
Bis(2-chloroethyl)ether	ND	ug/l	250					
1-Chloronaphthalene	ND	ug/l	250					
2-Chloronaphthalene	ND	ug/l	300					
1,2-Dichlorobenzene	ND	ug/l	250					
1,3-Dichlorobenzene	ND	ug/l	250					
1,4-Dichlorobenzene	ND	ug/l	250					
3,3'-Dichlorobenzidine	ND	ug/l	2500					
2,4-Dinitrotoluene	ND	ug/l	300					
2,6-Dinitrotoluene	ND	ug/l	250					
Azobenzene	ND	ug/l	250					
Fluoranthene	ND	ug/l	250					
4-Chlorophenyl phenyl ether	ND	ug/l	250					
4-Bromophenyl phenyl ether	ND	ug/l	250					
Bis(2-chloroisopropyl)ether	ND	ug/l	250					
Bis(2-chloroethoxy)methane	ND	ug/l	250					
Hexachlorobutadiene	ND	ug/l	500					
Hexachlorocyclopentadiene	ND	ug/l	500					
Hexachloroethane	ND	ug/l	250					
Isophorone	ND	ug/l	250					
Naphthalene	2700	ug/l	250					
Nitrobenzene	ND	ug/l	250					
NDPA/DPA	ND	ug/l	760					
n-Nitrosodi-n-propylamine	ND	ug/l	250					
Bis(2-ethylhexyl)phthalate	ND	ug/l	500					
Butyl benzyl phthalate	ND	ug/l	250					
Di-n-butylphthalate	ND	ug/l	250					
Di-n-octylphthalate	ND	ug/l	250					
Diethyl phthalate	ND	ug/l	250					
Dimethyl phthalate	ND	ug/l	250					
Benzo(a)anthracene	ND	ug/l	250					
Benzo(a)pyrene	ND	ug/l	250					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0202411-02
02B-B918-OW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1	8270C	0313 16:30	0319 12:27	NL
Benzo(b)fluoranthene	ND	ug/l	250					
Benzo(k)fluoranthene	ND	ug/l	250					
Chrysene	ND	ug/l	250					
Acenaphthylene	ND	ug/l	250					
Anthracene	ND	ug/l	250					
Benzo(ghi)perylene	ND	ug/l	250					
Fluorene	ND	ug/l	250					
Phenanthrene	ND	ug/l	250					
Dibenzo(a,h)anthracene	ND	ug/l	250					
Indeno(1,2,3-cd)pyrene	ND	ug/l	350					
Pyrene	ND	ug/l	250					
Benzo(e)pyrene	ND	ug/l	250					
Biphenyl	ND	ug/l	250					
Perylene	ND	ug/l	250					
Aniline	ND	ug/l	500					
4-Chloroaniline	ND	ug/l	250					
1-Methylnaphthalene	420	ug/l	250					
2-Nitroaniline	ND	ug/l	250					
3-Nitroaniline	ND	ug/l	250					
4-Nitroaniline	ND	ug/l	350					
Dibenzofuran	ND	ug/l	250					
a,a-Dimethylphenethylamine	ND	ug/l	2500					
Hexachloropropene	ND	ug/l	2500					
Nitrosodi-n-butylamine	ND	ug/l	500					
2-Methylnaphthalene	ND	ug/l	400					
1,2,4,5-Tetrachlorobenzene	ND	ug/l	1000					
Pentachlorobenzene	ND	ug/l	1000					
a-Naphthylamine	ND	ug/l	1000					
b-Naphthylamine	ND	ug/l	1000					
Phenacetin	ND	ug/l	500					
Dimethoate	ND	ug/l	1000					
4-Aminobiphenyl	ND	ug/l	500					
Pentachloronitrobenzene	ND	ug/l	500					
Isodrin	ND	ug/l	500					
p-Dimethylaminoazobenzene	ND	ug/l	500					
Chlorobenzilate	ND	ug/l	1000					
3-Methylcholanthrene	ND	ug/l	1000					
Ethyl Methanesulfonate	ND	ug/l	760					
Acetophenone	ND	ug/l	1000					
Nitrosodipiperidine	ND	ug/l	1000					
7,12-Dimethylbenz(a)anthracene	ND	ug/l	500					
n-Nitrosodimethylamine	ND	ug/l	2500					
2,4,6-Trichlorophenol	ND	ug/l	250					
p-Chloro-m-cresol	ND	ug/l	250					
2-Chlorophenol	ND	ug/l	300					
2,4-Dichlorophenol	ND	ug/l	500					
2,4-Dimethylphenol	ND	ug/l	500					
2-Nitrophenol	ND	ug/l	1000					
4-Nitrophenol	ND	ug/l	500					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0202411-02
02B-B918-OW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1	8270C	0313 16:30	0319 12:27	HL
2,4-Dinitrophenol	ND	ug/l	1000					
4,6-Dinitro-o-cresol	ND	ug/l	1000					
Pentachlorophenol	ND	ug/l	1000					
Phenol	ND	ug/l	350					
2-Methylphenol	ND	ug/l	300					
3-Methylphenol/4-Methylphenol	ND	ug/l	300					
2,4,5-Trichlorophenol	ND	ug/l	250					
2,6-Dichlorophenol	ND	ug/l	500					
Benzoic Acid	ND	ug/l	2500					
Benzyl Alcohol	ND	ug/l	500					
Carbazole	ND	ug/l	250					
Pyridine	ND	ug/l	2500					
2-Picoline	ND	ug/l	1000					
Pronamide	ND	ug/l	1000					
Methyl methanesulfonate	ND	ug/l	1000					
Surrogate Recovery								
2-Fluorophenol	47.0	%						
Phenol-d6	30.0	%						
Nitrobenzene-d5	72.0	%						
2-Fluorobiphenyl	88.0	%						
2,4,6-Tribromophenol	78.0	%						
4-Terphenyl-d14	79.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0202411-03
02B-B920-OW
Sample Matrix: WATER

Date Collected: 10-MAR-2002 09:50
Date Received : 12-MAR-2002
Date Reported : 19-MAR-2002

Condition of Sample: Satisfactory

Field Prep: field filtered

Number & Type of Containers: 3-Amber,3-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Cyanide, Total	0.513	mg/l	0.050	1	9010B	0313 18:00	0315 13:27	ED
Cyanide, Physiologically Available	0.081	mg/l	0.005	45		0314 11:00	0315 14:53	ED
Dissolved Metals								
Arsenic, Dissolved	0.032	mg/l	0.010	1	6010B		0315 23:59	RW
Barium, Dissolved	0.13	mg/l	0.01	1	6010B		0315 23:59	RW
Cadmium, Dissolved	ND	mg/l	0.005	1	6010B		0315 23:59	RW
Chromium, Dissolved	ND	mg/l	0.01	1	6010B		0315 23:59	RW
Lead, Dissolved	ND	mg/l	0.010	1	6010B		0315 23:59	RW
Mercury, Dissolved	ND	mg/l	0.0005	1	7470A	0318 12:10	0319 10:09	DM
Selenium, Dissolved	ND	mg/l	0.050	1	6010B		0315 23:59	RW
Silver, Dissolved	ND	mg/l	0.007	1	6010B		0318 15:08	RW
Volatile Organics by GC/MS 8260				1	8260B		0317 02:17	BT
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	0.50					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	8.0	ug/l	0.50					
Toluene	ND	ug/l	0.75					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0202411-03
02B-B920-OW

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1 8260B		0317 02:17	BT
Ethylbenzene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	0.50				
o-Xylene	1.1	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.5				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	2.5				
Isopropylbenzene	1.4	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0202411-03
02B-B920-OW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		0317 02:17	BT
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	5.3	ug/l	2.5					
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					
Surrogate Recovery								
1,2-Dichloroethane-d4	89.0	%						
Toluene-d8	88.0	%						
4-Bromofluorobenzene	95.0	%						
Dibromofluoromethane	87.0	%						
SVOC's by GC/MS 8270				1	8270C	0313 16:30	0318 23:16	HL
Acenaphthene	7.5	ug/l	5.0					
Benzidine	ND	ug/l	50.					
1,2,4-Trichlorobenzene	ND	ug/l	5.0					
Hexachlorobenzene	ND	ug/l	5.0					
Bis(2-chloroethyl)ether	ND	ug/l	5.0					
1-Chloronaphthalene	ND	ug/l	5.0					
2-Chloronaphthalene	ND	ug/l	6.1					
1,2-Dichlorobenzene	ND	ug/l	5.0					
1,3-Dichlorobenzene	ND	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	5.0					
3,3'-Dichlorobenzidine	ND	ug/l	50.					
2,4-Dinitrotoluene	ND	ug/l	6.1					
2,6-Dinitrotoluene	ND	ug/l	5.0					
Azobenzene	ND	ug/l	5.0					
Fluoranthene	ND	ug/l	5.0					
4-Chlorophenyl phenyl ether	ND	ug/l	5.0					
4-Bromophenyl phenyl ether	ND	ug/l	5.0					
Bis(2-chloroisopropyl)ether	ND	ug/l	5.0					
Bis(2-chloroethoxy)methane	ND	ug/l	5.0					
Hexachlorobutadiene	ND	ug/l	10.					
Hexachlorocyclopentadiene	ND	ug/l	10.					
Hexachloroethane	ND	ug/l	5.0					
Isophorone	ND	ug/l	5.0					
Naphthalene	ND	ug/l	5.0					
Nitrobenzene	ND	ug/l	5.0					
NDPA/DPA	ND	ug/l	15.					
n-Nitrosodi-n-propylamine	ND	ug/l	5.0					
Bis(2-ethylhexyl)phthalate	ND	ug/l	10.					
Butyl benzyl phthalate	ND	ug/l	5.0					
Di-n-butylphthalate	ND	ug/l	5.0					
Di-n-octylphthalate	ND	ug/l	5.0					
Diethyl phthalate	ND	ug/l	5.0					
Dimethyl phthalate	ND	ug/l	5.0					
Benzo(a)anthracene	ND	ug/l	5.0					
Benzo(a)pyrene	ND	ug/l	5.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0202411-03
02B-B920-OW

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1 8270C	0313 16:30	0318 23:16	HL
Benzo(b)fluoranthene	ND	ug/l	5.0				
Benzo(k)fluoranthene	ND	ug/l	5.0				
Chrysene	ND	ug/l	5.0				
Acenaphthylene	ND	ug/l	5.0				
Anthracene	ND	ug/l	5.0				
Benzo(ghi)perylene	ND	ug/l	5.0				
Fluorene	12.	ug/l	5.0				
Phenanthrene	ND	ug/l	5.0				
Dibenzo(a,h)anthracene	ND	ug/l	5.0				
Indeno(1,2,3-cd)pyrene	ND	ug/l	7.1				
Pyrene	ND	ug/l	5.0				
Benzo(e)pyrene	ND	ug/l	5.0				
Biphenyl	ND	ug/l	5.0				
Perylene	ND	ug/l	5.0				
Aniline	ND	ug/l	10.				
4-Chloroaniline	ND	ug/l	5.0				
1-Methylnaphthalene	ND	ug/l	5.0				
2-Nitroaniline	ND	ug/l	5.0				
3-Nitroaniline	ND	ug/l	5.0				
4-Nitroaniline	ND	ug/l	7.1				
Dibenzofuran	ND	ug/l	5.0				
a,a-Dimethylphenethylamine	ND	ug/l	50.				
Hexachloropropene	ND	ug/l	50.				
Nitrosodi-n-butylamine	ND	ug/l	10.				
2-Methylnaphthalene	ND	ug/l	8.1				
1,2,4,5-Tetrachlorobenzene	ND	ug/l	20.				
Pentachlorobenzene	ND	ug/l	20.				
a-Naphthylamine	ND	ug/l	20.				
b-Naphthylamine	ND	ug/l	20.				
Phenacetin	ND	ug/l	10.				
Dimethoate	ND	ug/l	20.				
4-Aminobiphenyl	ND	ug/l	10.				
Pentachloronitrobenzene	ND	ug/l	10.				
Isodrin	ND	ug/l	10.				
p-Dimethylaminoazobenzene	ND	ug/l	10.				
Chlorobenzilate	ND	ug/l	20.				
3-Methylcholanthrene	ND	ug/l	20.				
Ethyl Methanesulfonate	ND	ug/l	15.				
Acetophenone	ND	ug/l	20.				
Nitrosodipiperidine	ND	ug/l	20.				
7,12-Dimethylbenz(a)anthracene	ND	ug/l	10.				
n-Nitrosodimethylamine	ND	ug/l	50.				
2,4,6-Trichlorophenol	ND	ug/l	5.0				
p-Chloro-m-cresol	ND	ug/l	5.0				
2-Chlorophenol	ND	ug/l	6.1				
2,4-Dichlorophenol	ND	ug/l	10.				
2,4-Dimethylphenol	ND	ug/l	10.				
2-Nitrophenol	ND	ug/l	20.				
4-Nitrophenol	ND	ug/l	10.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0202411-03
02B-B920-OW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1	8270C	0313 16:30	0318 23:16	HL
2,4-Dinitrophenol	ND	ug/l	20.					
4,6-Dinitro-o-cresol	ND	ug/l	20.					
Pentachlorophenol	ND	ug/l	20.					
Phenol	ND	ug/l	7.1					
2-Methylphenol	ND	ug/l	6.1					
3-Methylphenol/4-Methylphenol	ND	ug/l	6.1					
2,4,5-Trichlorophenol	ND	ug/l	5.0					
2,6-Dichlorophenol	ND	ug/l	10.					
Benzoic Acid	ND	ug/l	50.					
Benzyl Alcohol	ND	ug/l	10.					
Carbazole	ND	ug/l	5.0					
Pyridine	ND	ug/l	50.					
2-Picoline	ND	ug/l	20.					
Pronamide	ND	ug/l	20.					
Methyl methanesulfonate	ND	ug/l	20.					
Surrogate Recovery								
2-Fluorophenol	39.0	%						
Phenol-d6	27.0	%						
Nitrobenzene-d5	65.0	%						
2-Fluorobiphenyl	73.0	%						
2,4,6-Tribromophenol	79.0	%						
4-Terphenyl-d14	75.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0202411-04
02B-B921-OW
Sample Matrix: WATER

Date Collected: 10-MAR-2002 10:40
Date Received : 12-MAR-2002
Date Reported : 19-MAR-2002

Condition of Sample: Satisfactory

Field Prep: field filtered

Number & Type of Containers: 3-Amber,3-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Cyanide, Total	0.940	mg/l	0.050	1	9010B	0313 18:00	0315 13:29	ED
Cyanide, Physiologically Available	0.076	mg/l	0.005	45		0314 11:00	0315 14:54	ED
Dissolved Metals								
Arsenic, Dissolved	ND	mg/l	0.010	1	6010B		0316 00:05	RW
Barium, Dissolved	0.14	mg/l	0.01	1	6010B		0316 00:05	RW
Cadmium, Dissolved	ND	mg/l	0.005	1	6010B		0316 00:05	RW
Chromium, Dissolved	ND	mg/l	0.01	1	6010B		0316 00:05	RW
Lead, Dissolved	ND	mg/l	0.010	1	6010B		0316 00:05	RW
Mercury, Dissolved	ND	mg/l	0.0005	1	7470A	0318 12:10	0319 10:11	DM
Selenium, Dissolved	ND	mg/l	0.050	1	6010B		0316 00:05	RW
Silver, Dissolved	ND	mg/l	0.007	1	6010B		0318 15:12	RW
Volatile Organics by GC/MS 8260				1	8260B		0317 02:58	BT
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	0.50					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	40.	ug/l	0.50					
Toluene	1.6	ug/l	0.75					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0202411-04
02B-B921-OW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		0317 02:58	BT
Ethylbenzene	29.	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	ND	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	ND	ug/l	1.0					
p/m-Xylene	1.9	ug/l	0.50					
o-Xylene	4.0	ug/l	0.50					
cis-1,2-Dichloroethene	ND	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,4-Dichlorobutane	ND	ug/l	5.0					
Iodomethane	ND	ug/l	5.0					
1,2,3-Trichloropropane	ND	ug/l	5.0					
Styrene	ND	ug/l	0.50					
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
Vinyl acetate	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Ethyl methacrylate	ND	ug/l	5.0					
Acrolein	ND	ug/l	12.					
Acrylonitrile	ND	ug/l	5.0					
Bromochloromethane	ND	ug/l	2.5					
Tetrahydrofuran	ND	ug/l	10.					
2,2-Dichloropropane	ND	ug/l	2.5					
1,2-Dibromoethane	ND	ug/l	2.5					
1,3-Dichloropropane	ND	ug/l	2.5					
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50					
Bromobenzene	ND	ug/l	2.5					
n-Butylbenzene	ND	ug/l	0.50					
sec-Butylbenzene	2.7	ug/l	0.50					
tert-Butylbenzene	ND	ug/l	2.5					
o-Chlorotoluene	ND	ug/l	2.5					
p-Chlorotoluene	ND	ug/l	2.5					
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	2.5					
Isopropylbenzene	10.	ug/l	0.50					
p-Isopropyltoluene	9.3	ug/l	0.50					
Naphthalene	20.	ug/l	2.5					
n-Propylbenzene	2.6	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0202411-04
02B-B921-OW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		0317 02:58	BT
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	5.8	ug/l	2.5					
1,2,4-Trimethylbenzene	28.	ug/l	2.5					
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					
Surrogate Recovery								
1,2-Dichloroethane-d4	93.0	%						
Toluene-d8	99.0	%						
4-Bromofluorobenzene	96.0	%						
Dibromofluoromethane	93.0	%						
SVOC's by GC/MS 8270				1	8270C	0313 16:30	0319 00:04	HL
Acenaphthene	ND	ug/l	25.					
Benzidine	ND	ug/l	250					
1,2,4-Trichlorobenzene	ND	ug/l	25.					
Hexachlorobenzene	ND	ug/l	25.					
Bis(2-chloroethyl)ether	ND	ug/l	25.					
1-Chloronaphthalene	ND	ug/l	25.					
2-Chloronaphthalene	ND	ug/l	30.					
1,2-Dichlorobenzene	ND	ug/l	25.					
1,3-Dichlorobenzene	ND	ug/l	25.					
1,4-Dichlorobenzene	ND	ug/l	25.					
3,3'-Dichlorobenzidine	ND	ug/l	250					
2,4-Dinitrotoluene	ND	ug/l	30.					
2,6-Dinitrotoluene	ND	ug/l	25.					
Azobenzene	ND	ug/l	25.					
Fluoranthene	ND	ug/l	25.					
4-Chlorophenyl phenyl ether	ND	ug/l	25.					
4-Bromophenyl phenyl ether	ND	ug/l	25.					
Bis(2-chloroisopropyl)ether	ND	ug/l	25.					
Bis(2-chloroethoxy)methane	ND	ug/l	25.					
Hexachlorobutadiene	ND	ug/l	50.					
Hexachlorocyclopentadiene	ND	ug/l	50.					
Hexachloroethane	ND	ug/l	25.					
Isophorone	ND	ug/l	25.					
Naphthalene	ND	ug/l	25.					
Nitrobenzene	ND	ug/l	25.					
NDPA/DPA	ND	ug/l	76.					
n-Nitrosodi-n-propylamine	ND	ug/l	25.					
Bis(2-ethylhexyl)phthalate	ND	ug/l	50.					
Butyl benzyl phthalate	ND	ug/l	25.					
Di-n-butylphthalate	ND	ug/l	25.					
Di-n-octylphthalate	ND	ug/l	25.					
Diethyl phthalate	ND	ug/l	25.					
Dimethyl phthalate	ND	ug/l	25.					
Benzo(a)anthracene	ND	ug/l	25.					
Benzo(a)pyrene	ND	ug/l	25.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0202411-04
02B-B921-OW

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1 8270C	0313 16:30	0319 00:04	HL
Benzo(b)fluoranthene	ND	ug/l	25.				
Benzo(k)fluoranthene	ND	ug/l	25.				
Chrysene	ND	ug/l	25.				
Acenaphthylene	ND	ug/l	25.				
Anthracene	ND	ug/l	25.				
Benzo(ghi)perylene	ND	ug/l	25.				
Fluorene	ND	ug/l	25.				
Phenanthrene	ND	ug/l	25.				
Dibenzo(a,h)anthracene	ND	ug/l	25.				
Indeno(1,2,3-cd)pyrene	ND	ug/l	35.				
Pyrene	ND	ug/l	25.				
Benzo(e)pyrene	ND	ug/l	25.				
Biphenyl	ND	ug/l	25.				
Perylene	ND	ug/l	25.				
Aniline	ND	ug/l	50.				
4-Chloroaniline	ND	ug/l	25.				
1-Methylnaphthalene	430	ug/l	25.				
2-Nitroaniline	ND	ug/l	25.				
3-Nitroaniline	ND	ug/l	25.				
4-Nitroaniline	ND	ug/l	35.				
Dibenzofuran	ND	ug/l	25.				
a,a-Dimethylphenethylamine	ND	ug/l	250				
Hexachloropropene	ND	ug/l	250				
Nitrosodi-n-butylamine	ND	ug/l	50.				
2-Methylnaphthalene	ND	ug/l	40.				
1,2,4,5-Tetrachlorobenzene	ND	ug/l	100				
Pentachlorobenzene	ND	ug/l	100				
a-Naphthylamine	ND	ug/l	100				
b-Naphthylamine	ND	ug/l	100				
Phenacetin	ND	ug/l	50.				
Dimethoate	ND	ug/l	100				
4-Aminobiphenyl	ND	ug/l	50.				
Pentachloronitrobenzene	ND	ug/l	50.				
Isodrin	ND	ug/l	50.				
p-Dimethylaminoazobenzene	ND	ug/l	50.				
Chlorobenzilate	ND	ug/l	100				
3-Methylcholanthrene	ND	ug/l	100				
Ethyl Methanesulfonate	ND	ug/l	76.				
Acetophenone	ND	ug/l	100				
Nitrosodipiperidine	ND	ug/l	100				
7,12-Dimethylbenz(a)anthracene	ND	ug/l	50.				
n-Nitrosodimethylamine	ND	ug/l	250				
2,4,6-Trichlorophenol	ND	ug/l	25.				
p-Chloro-m-cresol	ND	ug/l	25.				
2-Chlorophenol	ND	ug/l	30.				
2,4-Dichlorophenol	ND	ug/l	50.				
2,4-Dimethylphenol	ND	ug/l	50.				
2-Nitrophenol	ND	ug/l	100				
4-Nitrophenol	ND	ug/l	50.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0202411-04
02B-B921-OW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1	8270C	0313 16:30	0319 00:04	HL
2,4-Dinitrophenol	ND	ug/l	100					
4,6-Dinitro-o-cresol	ND	ug/l	100					
Pentachlorophenol	ND	ug/l	100					
Phenol	ND	ug/l	35.					
2-Methylphenol	ND	ug/l	30.					
3-Methylphenol/4-Methylphenol	ND	ug/l	30.					
2,4,5-Trichlorophenol	ND	ug/l	25.					
2,6-Dichlorophenol	ND	ug/l	50.					
Benzoic Acid	ND	ug/l	250					
Benzyl Alcohol	ND	ug/l	50.					
Carbazole	ND	ug/l	25.					
Pyridine	ND	ug/l	250					
2-Picoline	ND	ug/l	100					
Pronamide	ND	ug/l	100					
Methyl methanesulfonate	ND	ug/l	100					
Surrogate Recovery								
2-Fluorophenol	43.0	%						
Phenol-d6	27.0	%						
Nitrobenzene-d5	68.0	%						
2-Fluorobiphenyl	66.0	%						
2,4,6-Tribromophenol	78.0	%						
4-Terphenyl-d14	65.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0202411-05
02B-B618-OW
Sample Matrix: WATER

Date Collected: 11-MAR-2002 14:00
Date Received : 12-MAR-2002
Date Reported : 19-MAR-2002

Condition of Sample: Satisfactory

Field Prep: field filtered

Number & Type of Containers: 3-Amber,3-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Cyanide, Total	0.090	mg/l	0.005	1	9010B	0313 18:00	0315 13:29	ED
Cyanide, Physiologically Available	ND	mg/l	0.005	45		0314 11:00	0315 14:56	ED
Dissolved Metals								
Arsenic, Dissolved	ND	mg/l	0.010	1	6010B		0316 00:11	RW
Barium, Dissolved	0.02	mg/l	0.01	1	6010B		0316 00:11	RW
Cadmium, Dissolved	ND	mg/l	0.005	1	6010B		0316 00:11	RW
Chromium, Dissolved	ND	mg/l	0.01	1	6010B		0316 00:11	RW
Lead, Dissolved	ND	mg/l	0.010	1	6010B		0316 00:11	RW
Mercury, Dissolved	ND	mg/l	0.0005	1	7470A	0318 12:10	0319 10:13	DM
Selenium, Dissolved	ND	mg/l	0.050	1	6010B		0316 00:11	RW
Silver, Dissolved	ND	mg/l	0.007	1	6010B		0318 15:17	RW
Volatile Organics by GC/MS 8260				1	8260B		0317 04:20	BT
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	0.50					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	3.2	ug/l	0.50					
Toluene	ND	ug/l	0.75					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0202411-05
02B-B618-OW

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1 8260B		0317 04:20	BT
Ethylbenzene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	5.3	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	21.	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.5				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	2.5				
Isopropylbenzene	3.7	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				

Comments: Complete list of References and Glossary of Terms found in Addendum 1

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0202411-05
02B-B618-OW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		0317 04:20	BT
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					
Surrogate Recovery								
1,2-Dichloroethane-d4	95.0	%						
Toluene-d8	100.	%						
4-Bromofluorobenzene	117.	%						
Dibromofluoromethane	92.0	%						
SVOC's by GC/MS 8270				1	8270C	0313 16:30	0319 00:51	NL
Acenaphthene	ND	ug/l	5.2					
Benzidine	ND	ug/l	52.					
1,2,4-Trichlorobenzene	ND	ug/l	5.2					
Hexachlorobenzene	ND	ug/l	5.2					
Bis(2-chloroethyl)ether	ND	ug/l	5.2					
1-Chloronaphthalene	ND	ug/l	5.2					
2-Chloronaphthalene	ND	ug/l	6.2					
1,2-Dichlorobenzene	ND	ug/l	5.2					
1,3-Dichlorobenzene	ND	ug/l	5.2					
1,4-Dichlorobenzene	ND	ug/l	5.2					
3,3'-Dichlorobenzidine	ND	ug/l	52.					
2,4-Dinitrotoluene	ND	ug/l	6.2					
2,6-Dinitrotoluene	ND	ug/l	5.2					
Azobenzene	ND	ug/l	5.2					
Fluoranthene	ND	ug/l	5.2					
4-Chlorophenyl phenyl ether	ND	ug/l	5.2					
4-Bromophenyl phenyl ether	ND	ug/l	5.2					
Bis(2-chloroisopropyl)ether	ND	ug/l	5.2					
Bis(2-chloroethoxy)methane	ND	ug/l	5.2					
Hexachlorobutadiene	ND	ug/l	10.					
Hexachlorocyclopentadiene	ND	ug/l	10.					
Hexachloroethane	ND	ug/l	5.2					
Isophorone	ND	ug/l	5.2					
Naphthalene	ND	ug/l	5.2					
Nitrobenzene	ND	ug/l	5.2					
NDPA/DPA	ND	ug/l	16.					
n-Nitrosodi-n-propylamine	ND	ug/l	5.2					
Bis(2-ethylhexyl)phthalate	ND	ug/l	10.					
Butyl benzyl phthalate	ND	ug/l	5.2					
Di-n-butylphthalate	ND	ug/l	5.2					
Di-n-octylphthalate	ND	ug/l	5.2					
Diethyl phthalate	ND	ug/l	5.2					
Dimethyl phthalate	ND	ug/l	5.2					
Benzo(a)anthracene	ND	ug/l	5.2					
Benzo(a)pyrene	ND	ug/l	5.2					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0202411-05
02B-B618-OW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1	8270C	0313 16:30	0319 03:51	HL
Benzo(b)fluoranthene	ND	ug/l	5.2					
Benzo(k)fluoranthene	ND	ug/l	5.2					
Chrysene	ND	ug/l	5.2					
Acenaphthylene	ND	ug/l	5.2					
Anthracene	ND	ug/l	5.2					
Benzo(ghi)perylene	ND	ug/l	5.2					
Fluorene	ND	ug/l	5.2					
Phenanthrene	ND	ug/l	5.2					
Dibenzo(a,h)anthracene	ND	ug/l	5.2					
Indeno(1,2,3-cd)pyrene	ND	ug/l	7.3					
Pyrene	ND	ug/l	5.2					
Benzo(e)pyrene	ND	ug/l	5.2					
Biphenyl	ND	ug/l	5.2					
Perylene	ND	ug/l	5.2					
Aniline	ND	ug/l	10.					
4-Chloroaniline	ND	ug/l	5.2					
1-Methylnaphthalene	ND	ug/l	5.2					
2-Nitroaniline	ND	ug/l	5.2					
3-Nitroaniline	ND	ug/l	5.2					
4-Nitroaniline	ND	ug/l	7.3					
Dibenzofuran	ND	ug/l	5.2					
a,a-Dimethylphenethylamine	ND	ug/l	52.					
Hexachloropropene	ND	ug/l	52.					
Nitrosodi-n-butylamine	ND	ug/l	10.					
2-Methylnaphthalene	ND	ug/l	8.3					
1,2,4,5-Tetrachlorobenzene	ND	ug/l	21.					
Pentachlorobenzene	ND	ug/l	21.					
a-Naphthylamine	ND	ug/l	21.					
b-Naphthylamine	ND	ug/l	21.					
Phenacetin	ND	ug/l	10.					
Dimethoate	ND	ug/l	21.					
4-Aminobiphenyl	ND	ug/l	10.					
Pentachloronitrobenzene	ND	ug/l	10.					
Isodrin	ND	ug/l	10.					
p-Dimethylaminoazobenzene	ND	ug/l	10.					
Chlorobenzilate	ND	ug/l	21.					
3-Methylcholanthrene	ND	ug/l	21.					
Ethyl Methanesulfonate	ND	ug/l	16.					
Acetophenone	ND	ug/l	21.					
Nitrosodipiperidine	ND	ug/l	21.					
7,12-Dimethylbenz(a)anthracene	ND	ug/l	10.					
n-Nitrosodimethylamine	ND	ug/l	52.					
2,4,6-Trichlorophenol	ND	ug/l	5.2					
p-Chloro-m-cresol	ND	ug/l	5.2					
2-Chlorophenol	ND	ug/l	6.2					
2,4-Dichlorophenol	ND	ug/l	10.					
2,4-Dimethylphenol	ND	ug/l	10.					
2-Nitrophenol	ND	ug/l	21.					
4-Nitrophenol	ND	ug/l	10.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0202411-05
02B-B618-OW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1	8270C	0313 16:30	0319 00:51	ML
2,4-Dinitrophenol	ND	ug/l	21.					
4,6-Dinitro-o-cresol	ND	ug/l	21.					
Pentachlorophenol	ND	ug/l	21.					
Phenol	ND	ug/l	7.3					
2-Methylphenol	ND	ug/l	6.2					
3-Methylphenol/4-Methylphenol	ND	ug/l	6.2					
2,4,5-Trichlorophenol	ND	ug/l	5.2					
2,5-Dichlorophenol	ND	ug/l	10.					
Benzoic Acid	ND	ug/l	52.					
Benzyl Alcohol	ND	ug/l	10.					
Carbazole	ND	ug/l	5.2					
Pyridine	ND	ug/l	52.					
2-Picoline	ND	ug/l	21.					
Pronamide	ND	ug/l	21.					
Methyl methanesulfonate	ND	ug/l	21.					
Surrogate Recovery								
2-Fluorophenol	48.0	%						
Phenol-d6	31.0	%						
Nitrobenzene-d5	75.0	%						
2-Fluorobiphenyl	76.0	%						
2,4,6-Tribromophenol	78.0	%						
4-Terphenyl-d14	77.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0202411-06
MW-1
Sample Matrix: WATER

Date Collected: 11-MAR-2002 12:10
Date Received : 12-MAR-2002
Date Reported : 19-MAR-2002

Condition of Sample: Satisfactory

Field Prep: field filtered

Number & Type of Containers: 3-Amber,3-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Cyanide, Total	0.016	mg/l	0.005	1	9010B	0313 18:00	0315 12:53	ED
Cyanide, Physiologically Available	ND	mg/l	0.005	45		0314 11:00	0315 14:59	ED
Dissolved Metals								
Arsenic, Dissolved	ND	mg/l	0.010	1	6010B		0316 00:18	RW
Barium, Dissolved	0.03	mg/l	0.01	1	6010B		0316 00:18	RW
Cadmium, Dissolved	ND	mg/l	0.005	1	6010B		0316 00:18	RW
Chromium, Dissolved	ND	mg/l	0.01	1	6010B		0316 00:18	RW
Lead, Dissolved	ND	mg/l	0.010	1	6010B		0316 00:18	RW
Mercury, Dissolved	ND	mg/l	0.0005	1	7470A	0318 12:10	0319 10:14	DM
Selenium, Dissolved	ND	mg/l	0.050	1	6010B		0316 00:18	RW
Silver, Dissolved	ND	mg/l	0.007	1	6010B		0318 15:22	RW
Volatile Organics by GC/MS 8260				1	8260B		0317 03:39	BT
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	0.50					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	32.	ug/l	0.50					
Toluene	ND	ug/l	0.75					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0202411-06
MW-1

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1 8260B		0317 03:39	BT
Ethylbenzene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	0.50				
o-Xylene	1.6	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.5				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	2.5				
Isopropylbenzene	0.72	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	7.2	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0202411-06
MW-1

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		0317 03:39	BT
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					
Surrogate Recovery								
1,2-Dichloroethane-d4	93.0	%						
Toluene-d8	98.0	%						
4-Bromofluorobenzene	105.	%						
Dibromofluoromethane	93.0	%						
SVOC's by GC/MS 8270				1	8270C	0313 16:33	0319 01:36	NL
Acenaphthene	ND	ug/l	5.2					
Benzidine	ND	ug/l	52.					
1,2,4-Trichlorobenzene	ND	ug/l	5.2					
Hexachlorobenzene	ND	ug/l	5.2					
Bis(2-chloroethyl)ether	ND	ug/l	5.2					
1-Chloronaphthalene	ND	ug/l	5.2					
2-Chloronaphthalene	ND	ug/l	6.2					
1,2-Dichlorobenzene	ND	ug/l	5.2					
1,3-Dichlorobenzene	ND	ug/l	5.2					
1,4-Dichlorobenzene	ND	ug/l	5.2					
3,3'-Dichlorobenzidine	ND	ug/l	52.					
2,4-Dinitrotoluene	ND	ug/l	6.2					
2,6-Dinitrotoluene	ND	ug/l	5.2					
Azobenzene	ND	ug/l	5.2					
Fluoranthene	ND	ug/l	5.2					
4-Chlorophenyl phenyl ether	ND	ug/l	5.2					
4-Bromophenyl phenyl ether	ND	ug/l	5.2					
Bis(2-chloroisopropyl)ether	ND	ug/l	5.2					
Bis(2-chloroethoxy)methane	ND	ug/l	5.2					
Hexachlorobutadiene	ND	ug/l	10.					
Hexachlorocyclopentadiene	ND	ug/l	10.					
Hexachloroethane	ND	ug/l	5.2					
Isophorone	ND	ug/l	5.2					
Naphthalene	5.4	ug/l	5.2					
Nitrobenzene	ND	ug/l	5.2					
NDPA/DPA	ND	ug/l	16.					
n-Nitrosodi-n-propylamine	ND	ug/l	5.2					
Bis(2-ethylhexyl)phthalate	ND	ug/l	10.					
Butyl benzyl phthalate	ND	ug/l	5.2					
Di-n-butylphthalate	ND	ug/l	5.2					
Di-n-octylphthalate	ND	ug/l	5.2					
Diethyl phthalate	ND	ug/l	5.2					
Dimethyl phthalate	ND	ug/l	5.2					
Benzo(a)anthracene	ND	ug/l	5.2					
Benzo(a)pyrene	ND	ug/l	5.2					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0202411-06
MW-1

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1	8270C	0313 16:30	0319 01:38	HL
Benzo(b)fluoranthene	ND	ug/l	5.2					
Benzo(k)fluoranthene	ND	ug/l	5.2					
Chrysene	ND	ug/l	5.2					
Acenaphthylene	ND	ug/l	5.2					
Anthracene	ND	ug/l	5.2					
Benzo(ghi)perylene	ND	ug/l	5.2					
Fluorene	ND	ug/l	5.2					
Phenanthrene	ND	ug/l	5.2					
Dibenzo(a,h)anthracene	ND	ug/l	5.2					
Indeno(1,2,3-cd)pyrene	ND	ug/l	7.3					
Pyrene	ND	ug/l	5.2					
Benzo(e)pyrene	ND	ug/l	5.2					
Biphenyl	ND	ug/l	5.2					
Perylene	ND	ug/l	5.2					
Aniline	ND	ug/l	10.					
4-Chloroaniline	ND	ug/l	5.2					
1-Methylnaphthalene	ND	ug/l	5.2					
2-Nitroaniline	ND	ug/l	5.2					
3-Nitroaniline	ND	ug/l	5.2					
4-Nitroaniline	ND	ug/l	7.3					
Dibenzofuran	ND	ug/l	5.2					
a,a-Dimethylphenethylamine	ND	ug/l	52.					
Hexachloropropene	ND	ug/l	52.					
Nitrosodi-n-butylamine	ND	ug/l	10.					
2-Methylnaphthalene	ND	ug/l	8.3					
1,2,4,5-Tetrachlorobenzene	ND	ug/l	21.					
Pentachlorobenzene	ND	ug/l	21.					
a-Naphthylamine	ND	ug/l	21.					
b-Naphthylamine	ND	ug/l	21.					
Phenacetin	ND	ug/l	10.					
Dimethoate	ND	ug/l	21.					
4-Aminobiphenyl	ND	ug/l	10.					
Pentachloronitrobenzene	ND	ug/l	10.					
Isodrin	ND	ug/l	10.					
p-Dimethylaminoazobenzene	ND	ug/l	10.					
Chlorobenzilate	ND	ug/l	21.					
3-Methylcholanthrene	ND	ug/l	21.					
Ethyl Methanesulfonate	ND	ug/l	16.					
Acetophenone	ND	ug/l	21.					
Nitrosodipiperidine	ND	ug/l	21.					
7,12-Dimethylbenz(a)anthracene	ND	ug/l	10.					
n-Nitrosodimethylamine	ND	ug/l	52.					
2,4,6-Trichlorophenol	ND	ug/l	5.2					
p-Chloro-m-cresol	ND	ug/l	5.2					
2-Chlorophenol	ND	ug/l	6.2					
2,4-Dichlorophenol	ND	ug/l	10.					
2,4-Dimethylphenol	ND	ug/l	10.					
2-Nitrophenol	ND	ug/l	21.					
4-Nitrophenol	ND	ug/l	10.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0202411-06
MW-1

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1	8270C	0313 16:30	0319 01:33	HL
2,4-Dinitrophenol	ND	ug/l	21.					
4,6-Dinitro-o-cresol	ND	ug/l	21.					
Pentachlorophenol	ND	ug/l	21.					
Phenol	ND	ug/l	7.3					
2-Methylphenol	ND	ug/l	6.2					
3-Methylphenol/4-Methylphenol	ND	ug/l	6.2					
2,4,5-Trichlorophenol	ND	ug/l	5.2					
2,6-Dichlorophenol	ND	ug/l	10.					
Benzoic Acid	ND	ug/l	52.					
Benzyl Alcohol	ND	ug/l	10.					
Carbazole	ND	ug/l	5.2					
Pyridine	ND	ug/l	52.					
2-Picoline	ND	ug/l	21.					
Pronamide	ND	ug/l	21.					
Methyl methanesulfonate	ND	ug/l	21.					
Surrogate Recovery								
2-Fluorophenol	49.0	%						
Phenol-d6	32.0	%						
Nitrobenzene-d5	79.0	%						
2-Fluorobiphenyl	79.0	%						
2,4,6-Tribromophenol	81.0	%						
4-Terphenyl-d14	80.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0202411-07
NC-1
Sample Matrix: WATER

Date Collected: 11-MAR-2002 10:30
Date Received : 12-MAR-2002
Date Reported : 19-MAR-2002

Condition of Sample: Satisfactory

Field Prep: field filtered

Number & Type of Containers: 3-Amber,3-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Cyanide, Total	0.017	mg/l	0.005	1	9010B	0313 18:00	0315 12:54	ED
Cyanide, Physiologically Available	0.006	mg/l	0.005	45		0314 11:00	0315 15:00	ED
Dissolved Metals								
Arsenic, Dissolved	0.032	mg/l	0.010	1	6010B		0316 00:24	RW
Barium, Dissolved	0.11	mg/l	0.01	1	6010B		0316 00:24	RW
Cadmium, Dissolved	ND	mg/l	0.005	1	6010B		0316 00:24	RW
Chromium, Dissolved	ND	mg/l	0.01	1	6010B		0316 00:24	RW
Lead, Dissolved	ND	mg/l	0.010	1	6010B		0316 00:24	RW
Mercury, Dissolved	ND	mg/l	0.0005	1	7470A	0318 12:10	0319 10:20	DM
Selenium, Dissolved	ND	mg/l	0.050	1	6010B		0316 00:24	RW
Silver, Dissolved	ND	mg/l	0.007	1	6010B		0318 15:27	RW
Volatile Organics by GC/MS 8260				1	8260B		0317 05:00	BT
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	2.6	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	0.50					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	2.8	ug/l	0.50					
Toluene	ND	ug/l	0.75					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0202411-07
NC-1

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1 8260B		0317 05:00	BT
Ethylbenzene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	0.50				
o-Xylene	1.8	ug/l	0.50				
cis-1,2-Dichloroethene	0.54	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.5				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	9.5	ug/l	0.50				
sec-Butylbenzene	19.	ug/l	0.50				
tert-Butylbenzene	9.1	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	2.5				
Isopropylbenzene	32.	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	33.	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0202411-07
NC-1

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		0317 05:00	BT
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					
Surrogate Recovery								
1,2-Dichloroethane-d4	97.0	%						
Toluene-d8	96.0	%						
4-Bromofluorobenzene	137.	%						
Dibromofluoromethane	96.0	%						
SVOC's by GC/MS 8270				1	8270C	0313 16:30	0319 02:25	HL
Acenaphthene	ND	ug/l	26.					
Benzidine	ND	ug/l	260					
1,2,4-Trichlorobenzene	ND	ug/l	26.					
Hexachlorobenzene	ND	ug/l	26.					
Bis(2-chloroethyl)ether	ND	ug/l	26.					
1-Chloronaphthalene	ND	ug/l	26.					
2-Chloronaphthalene	ND	ug/l	31.					
1,2-Dichlorobenzene	ND	ug/l	26.					
1,3-Dichlorobenzene	ND	ug/l	26.					
1,4-Dichlorobenzene	ND	ug/l	26.					
3,3'-Dichlorobenzidine	ND	ug/l	260					
2,4-Dinitrotoluene	ND	ug/l	31.					
2,6-Dinitrotoluene	ND	ug/l	26.					
Azobenzene	ND	ug/l	26.					
Fluoranthene	ND	ug/l	26.					
4-Chlorophenyl phenyl ether	ND	ug/l	26.					
4-Bromophenyl phenyl ether	ND	ug/l	26.					
Bis(2-chloroisopropyl)ether	ND	ug/l	26.					
Bis(2-chloroethoxy)methane	ND	ug/l	26.					
Hexachlorobutadiene	ND	ug/l	52.					
Hexachlorocyclopentadiene	ND	ug/l	52.					
Hexachloroethane	ND	ug/l	26.					
Isophorone	ND	ug/l	26.					
Naphthalene	ND	ug/l	26.					
Nitrobenzene	ND	ug/l	26.					
NDPA/DPA	ND	ug/l	77.					
n-Nitrosodi-n-propylamine	ND	ug/l	26.					
Bis(2-ethylhexyl)phthalate	ND	ug/l	52.					
Butyl benzyl phthalate	ND	ug/l	26.					
Di-n-butylphthalate	ND	ug/l	26.					
Di-n-octylphthalate	ND	ug/l	26.					
Diethyl phthalate	ND	ug/l	26.					
Dimethyl phthalate	ND	ug/l	26.					
Benzo(a)anthracene	ND	ug/l	26.					
Benzo(a)pyrene	ND	ug/l	26.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0202411-07
NC-1

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1 8270C	0313 16:30	0315 02:25	HL
Benzo(b)fluoranthene	ND	ug/l	26.				
Benzo(k)fluoranthene	ND	ug/l	26.				
Chrysene	ND	ug/l	26.				
Acenaphthylene	ND	ug/l	26.				
Anthracene	ND	ug/l	26.				
Benzo(ghi)perylene	ND	ug/l	26.				
Fluorene	ND	ug/l	26.				
Phenanthrene	ND	ug/l	26.				
Dibenzo(a,h)anthracene	ND	ug/l	26.				
Indeno(1,2,3-cd)pyrene	ND	ug/l	36.				
Pyrene	ND	ug/l	26.				
Benzo(e)pyrene	ND	ug/l	26.				
Biphenyl	ND	ug/l	26.				
Perylene	ND	ug/l	26.				
Aniline	ND	ug/l	52.				
4-Chloroaniline	ND	ug/l	26.				
1-Methylnaphthalene	ND	ug/l	26.				
2-Nitroaniline	ND	ug/l	26.				
3-Nitroaniline	ND	ug/l	26.				
4-Nitroaniline	ND	ug/l	36.				
Dibenzofuran	ND	ug/l	26.				
a,a-Dimethylphenethylamine	ND	ug/l	260				
Hexachloropropene	ND	ug/l	260				
Nitrosodi-n-butylamine	ND	ug/l	52.				
2-Methylnaphthalene	ND	ug/l	41.				
1,2,4,5-Tetrachlorobenzene	ND	ug/l	100				
Pentachlorobenzene	ND	ug/l	100				
a-Naphthylamine	ND	ug/l	100				
b-Naphthylamine	ND	ug/l	100				
Phenacetin	ND	ug/l	52.				
Dimethoate	ND	ug/l	100				
4-Aminobiphenyl	ND	ug/l	52.				
Pentachloronitrobenzene	ND	ug/l	52.				
Isodrin	ND	ug/l	52.				
p-Dimethylaminoazobenzene	ND	ug/l	52.				
Chlorobenzilate	ND	ug/l	100				
3-Methylcholanthrene	ND	ug/l	100				
Ethyl Methanesulfonate	ND	ug/l	77.				
Acetophenone	ND	ug/l	100				
Nitrosodipiperidine	ND	ug/l	100				
7,12-Dimethylbenz(a)anthracene	ND	ug/l	52.				
n-Nitrosodimethylamine	ND	ug/l	260				
2,4,6-Trichlorophenol	ND	ug/l	26.				
p-Chloro-m-cresol	ND	ug/l	26.				
2-Chlorophenol	ND	ug/l	31.				
2,4-Dichlorophenol	ND	ug/l	52.				
2,4-Dimethylphenol	ND	ug/l	52.				
2-Nitrophenol	ND	ug/l	100				
4-Nitrophenol	ND	ug/l	52.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0202411-07
NC-1

PARAMETER	RESULT	UNITS	RDL	REP	METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1	8270C	0313 16:30	0319 02:25	ML
2,4-Dinitrophenol	ND	ug/l	100					
4,6-Dinitro-o-cresol	ND	ug/l	100					
Pentachlorophenol	ND	ug/l	100					
Phenol	ND	ug/l	36.					
2 Methylphenol	ND	ug/l	31.					
3-Methylphenol/4-Methylphenol	ND	ug/l	31.					
2,4,5-Trichlorophenol	ND	ug/l	26.					
2,6-Dichlorophenol	ND	ug/l	52.					
Benzoic Acid	ND	ug/l	260					
Benzyl Alcohol	ND	ug/l	52.					
Carbazole	ND	ug/l	26.					
Pyridine	ND	ug/l	260					
2-Picoline	ND	ug/l	100					
Pronamide	ND	ug/l	100					
Methyl methanesulfonate	ND	ug/l	100					
Surrogate Recovery								
2-Fluorophenol	52.0	%						
Phenol-d6	34.0	%						
Nitrobenzene-d5	82.0	%						
2-Fluorobiphenyl	84.0	%						
2,4,6-Tribromophenol	96.0	%						
4-Terphenyl-d14	81.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0202411

Parameter	Value 1	Value 2	RPD	Units
Cyanide, Total for sample(s) 01-07 (L0202411-01, WG107471)				
Cyanide, Total	0.836	0.796	5	mg/l
Cyanide, Physiologically Available for sample(s) 01-07 (L0202411-04, WG107561)				
Cyanide, Physiologically Available	0.076	0.071	7	mg/l
Dissolved Metals for sample(s) 01-07 (L0202411-01, WG107539)				
Arsenic, Dissolved	0.025	0.025	4	mg/l
Barium, Dissolved	0.08	0.08	0	mg/l
Cadmium, Dissolved	ND	ND	NC	mg/l
Chromium, Dissolved	ND	ND	NC	mg/l
Lead, Dissolved	ND	ND	NC	mg/l
Selenium, Dissolved	ND	ND	NC	mg/l
Silver, Dissolved	ND	ND	NC	mg/l
Dissolved Metals for sample(s) 01-07 (L0202411-01, WG107870)				
Mercury, Dissolved	ND	ND	NC	mg/l

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0202411

Parameter	% Recovery
Cyanide, Total LCS for sample(s) 01-07 (WG107471)	
Cyanide, Total	102
Cyanide, Physiologically Available LCS for sample(s) 01-07 (WG107561)	
Cyanide, Physiologically Available	106
Dissolved Metals LCS for sample(s) 01-07 (WG107870)	
Mercury, Dissolved	118
Volatile Organics by GC/MS 8260 LCS for sample(s) 01-02 (WG107118)	
Chlorobenzene	103
Benzene	101
Toluene	105
1,1-Dichloroethene	114
Trichloroethene	97
Surrogate Recovery	
1,2-Dichloroethane-d4	87
Toluene-d8	99
4-Bromofluorobenzene	100
Dibromofluoromethane	92
Volatile Organics by GC/MS 8260 LCS for sample(s) 03-07 (WG107846)	
Chlorobenzene	101
Benzene	105
Toluene	102
1,1-Dichloroethene	106
Trichloroethene	102
Surrogate Recovery	
1,2-Dichloroethane-d4	95
Toluene-d8	102
4-Bromofluorobenzene	104
Dibromofluoromethane	97
SVOC's by GC/MS 8270 LCS for sample(s) 01-07 (WG107530)	
Acenaphthene	64
1,2,4-Trichlorobenzene	51
2-Chloronaphthalene	60
1,2-Dichlorobenzene	50
1,4-Dichlorobenzene	49
2,4-Dinitrotoluene	73
2,6-Dinitrotoluene	75
Fluoranthene	78
4-Chlorophenyl phenyl ether	64
n-Nitrosodi-n-propylamine	66
Butyl benzyl phthalate	77
Anthracene	73
Pyrene	79

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0202411

Continued

Parameter	% Recovery
SVOC's by GC/MS 8270 LCS for sample(s) 01-07 (WG107530)	
Hexachloropropene	36
P-Chloro-M-Cresol	71
2-Chlorophenol	60
2-Nitrophenol	67
4-Nitrophenol	35
2,4-Dinitrophenol	60
Pentachlorophenol	69
Phenol	23
Surrogate Recovery	
2-Fluorophenol	26
Phenol-d6	22
Nitrobenzene-d5	68
2-Fluorobiphenyl	72
2,4,6-Tribromophenol	73
4-Terphenyl-d14	68
Cyanide, Total SPIKE for sample(s) 01-07 (L0202411-07, WG107471)	
Cyanide, Total	104
Dissolved Metals SPIKE for sample(s) 01-07 (L0202411-02, WG107539)	
Arsenic, Dissolved	101
Barium, Dissolved	101
Cadmium, Dissolved	102
Chromium, Dissolved	95
Lead, Dissolved	103
Selenium, Dissolved	113
Silver, Dissolved	87
Dissolved Metals SPIKE for sample(s) 01-07 (L0202411-02, WG107870)	
Mercury, Dissolved	132

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0202411

Parameter	MS %	MSD %	RPD
Volatile Organics by GC/MS 8260 for sample(s) 01-02 (L0202045-09, WG107118)			
Chlorobenzene	94	89	5
Benzene	88	85	3
Toluene	96	91	4
1,1-Dichloroethene	96	90	6
Trichloroethene	87	85	3
Volatile Organics by GC/MS 8260 for sample(s) 03-07 (L0202374-01, WG107846)			
Chlorobenzene	96	96	0
Benzene	88	88	1
Toluene	100	98	1
1,1-Dichloroethene	93	96	4
Trichloroethene	87	87	1
SVOC's by GC/MS 8270 for sample(s) 01-07 (L0202411-01, WG107530)			
Acenaphthene	42	69	49
1,2,4-Trichlorobenzene	34	54	45
2-Chloronaphthalene	37	59	46
1,2-Dichlorobenzene	35	59	51
1,4-Dichlorobenzene	34	54	45
2,4-Dinitrotoluene	98	130	28
2,6-Dinitrotoluene	83	110	28
Fluoranthene	47	83	55
4-Chlorophenyl phenyl ether	41	69	51
n-Nitrosodi-n-propylamine	41	78	62
Butyl benzyl phthalate	41	78	62
Anthracene	41	69	51
Pyrene	48	83	53
Hexachloropropene	20	32	46
P-Chloro-M-Cresol	44	76	53
2-Chlorophenol	39	74	62
2-Nitrophenol	49	78	46
4-Nitrophenol	49	71	37
2,4-Dinitrophenol	69	93	30
Pentachlorophenol	61	93	42
Phenol	91	160	55

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0202411

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-07								
Cyanide, Total	ND	mg/l	0.005	1	9010B	0313 18:00	0315 12:44	ED
Blank Analysis for sample(s) 01-07								
Cyanide, Physiologically Available	ND	mg/l	0.005	45		0314 11:00	0315 14:50	ED
Blank Analysis for sample(s) 01-07								
Dissolved Metals								
Mercury, Dissolved	ND	mg/l	0.0005	1	7470A	0318 12:10	0319 09:58	DM
Blank Analysis for sample(s) 01-02								
Volatile Organics by GC/MS 8260				1	8260B		0314 10:20	RY
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	0.50					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	ND	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	ND	ug/l	1.0					
p/m-Xylene	ND	ug/l	0.50					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0202411

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-02								
Volatile Organics by GC/MS 8260 continued				1	8260B		0314 10:20	RY
o-Xylene	ND	ug/l	0.50					
cis-1,2-Dichloroethene	ND	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,4-Dichlorobutane	ND	ug/l	5.0					
Iodomethane	ND	ug/l	5.0					
1,2,3-Trichloropropane	ND	ug/l	5.0					
Styrene	ND	ug/l	0.50					
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
Vinyl acetate	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Ethyl methacrylate	ND	ug/l	5.0					
Acrolein	ND	ug/l	12.					
Acrylonitrile	ND	ug/l	5.0					
Bromochloromethane	ND	ug/l	2.5					
Tetrahydrofuran	ND	ug/l	10.					
2,2-Dichloropropane	ND	ug/l	2.5					
1,2-Dibromoethane	ND	ug/l	2.5					
1,3-Dichloropropane	ND	ug/l	2.5					
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50					
Bromobenzene	ND	ug/l	2.5					
n-Butylbenzene	ND	ug/l	0.50					
sec-Butylbenzene	ND	ug/l	0.50					
tert-Butylbenzene	ND	ug/l	2.5					
o-Chlorotoluene	ND	ug/l	2.5					
p-Chlorotoluene	ND	ug/l	2.5					
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	2.5					
Isopropylbenzene	ND	ug/l	0.50					
p-Isopropyltoluene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	2.5					
n-Propylbenzene	ND	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					
Surrogate Recovery								
1,2-Dichloroethane-d4	87.0	%						
Toluene-d8	100.	%						
4-Bromofluorobenzene	101.	%						

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0202411

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-02							
Volatile Organics by GC/MS 8260 continued				1 8260B		0314 10:20	RY
Dibromofluoromethane	88.0	%					
Blank Analysis for sample(s) 03-07							
Volatile Organics by GC/MS 8260				1 8260B		0316 18:46	BT
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	ND	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	2.5				
Bromoform	ND	ug/l	0.50				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.75				
Ethylbenzene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0202411

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 03-07							
Volatile Organics by GC/MS 8260 continued				1 8260B		0316 18:46	BT
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.5				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	2.5				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Surrogate Recovery							
1,2-Dichloroethane-d4	100.	%					
Toluene-d8	97.0	%					
4-Bromofluorobenzene	123.	%					
Dibromofluoromethane	100.	%					
Blank Analysis for sample(s) 01-07							
SVOC's by GC/MS 8270				1 8270C	0313 16:30	0318 18:32	HL
Acenaphthene	ND	ug/l	5.0				
Benzidine	ND	ug/l	50.				
1,2,4-Trichlorobenzene	ND	ug/l	5.0				
Hexachlorobenzene	ND	ug/l	5.0				
Bis(2-chloroethyl)ether	ND	ug/l	5.0				
1-Chloronaphthalene	ND	ug/l	5.0				

3-Methylphenol/4-Methylphenol	ND	ug/l	6.0
2,4,5-Trichlorophenol	ND	ug/l	6.0
2,6-Dichlorophenol	ND	ug/l	5.0
Benzoic Acid	ND	ug/l	10.
Benzyl Alcohol	ND	ug/l	50.
Carbazole	ND	ug/l	10.
Pyridine	ND	ug/l	5.0
2-Picoline	ND	ug/l	50.
Pronamide	ND	ug/l	20.
Methyl methanesulfonate	ND	ug/l	20.
	ND	ug/l	20.

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0202411

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-07								
SVOC's by GC/MS 8270 continued								
2-Chloronaphthalene	ND	ug/l	6.0	1	8270C	0313 16:30	0318 18:32	HL
1,2-Dichlorobenzene	ND	ug/l	5.0					
1,3-Dichlorobenzene	ND	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	5.0					
3,3'-Dichlorobenzidine	ND	ug/l	5.0					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0202411

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-07								
SVOC's by GC/MS 8270 continued				1	8270C	0313 16:30	0318 18:32	HL
Surrogate Recovery								
2-Fluorophenol	26.0	%						
Phenol-d6	21.0	%						
Nitrobenzene-d5	69.0	%						
2-Fluorobiphenyl	73.0	%						
2,4,6-Tribromophenol	67.0	%						
4-Terphenyl-d14	72.0	%						

REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Update III, 1997.

45. Physiologically Available Cyanide (PAC), January 1996 Protocol, Mass DEP 1996.

GLOSSARY OF TERMS AND SYMBOLS

REF Reference number in which test method may be found.

METHOD Method number by which analysis was performed.

ID Initials of the analyst.

LIMITATION OF LIABILITIES

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We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.

Quality Control Acceptance Criteria

Volatile Organics by Method 8260B

surrogate spike % recovery	AQ Limits		Soil Limits	
	LCL	UCL	LCL	UCL
1,2-Dichloroethane-d_4	75%	125%	75%	125%
4-Bromofluorobenzene	75%	125%	75%	125%
Toluene-d_8	75%	125%	75%	125%
Dibromofluoromethane	75%	125%	75%	125%

matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	percent recovery				duplicate and/or MSD	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
1,1-Dichloroethene	61%	145%	59%	172%	all target compounds	
Trichloroethene	71%	120%	62%	137%	20%	30%
Chlorobenzene	75%	130%	60%	133%		
Benzene	76%	127%	66%	142%		
Toluene	76%	125%	59%	139%		

Volatile Organics by Method 8021B

surrogate spike % recovery	AQ Limits		Soil Limits	
	LCL	UCL	LCL	UCL
4-Bromochlorobenzene	70%	110%	70%	120%
4-Bromofluorobenzene	70%	110%	70%	120%

matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	percent recovery				duplicate and/or MSD	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
1,1-Dichloroethene	70%	130%	70%	130%	all target compounds	
Trichloroethene	70%	130%	70%	130%	20%	30%
Chlorobenzene	70%	130%	70%	130%		
Benzene	70%	130%	70%	130%		
Toluene	70%	130%	70%	130%		
Ethylbenzene	70%	130%	70%	130%		

Semi-Volatile Organics by Method 8270C (includes PAHs)

surrogate spike % recovery	AQ Limits		Soil Limits	
	LCL	UCL	LCL	UCL
Nitrobenzene-d_5	23%	120%	23%	120%
Phenol-d_6	10%	120%	10%	120%
2-Fluorophenol	21%	120%	25%	120%
2-Fluorobiphenyl	43%	120%	30%	120%
p-Terphenyl-d_{14}	33%	120%	18%	120%
2,4,6-Tribromophenol	10%	120%	19%	120%

matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	percent recovery				duplicate and/or MSD	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
1,2,4-Trichlorobenzene	39%	98%	38%	107%	all target compounds	
Acenaphthene	46%	118%	31%	137%	40%	50%
2,4-Dinitrotoluene	24%	96%	28%	89%		
Pyrene	26%	127%	35%	142%		
N-Nitroso-di-n-propylamine	41%	116%	41%	126%		
1,4-Dichlorobenzene	36%	97%	28%	104%		
Pentachlorophenol	9%	103%	17%	109%		
Phenol	12%	110%	26%	90%		
2-Chlorophenol	27%	123%	25%	102%		
4-Chloro-3-methylphenol	23%	97%	26%	103%		
4-Nitrophenol	10%	80%	11%	114%		

Quality Control Acceptance Criteria

PCB/Pesticides by Method 8082/8081

surrogate spike % recovery	AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL		
2,4,5,6-Tetrachloro-m-xylene	40%	120%	40%	120%		
Decachlorobiphenyl	40%	120%	40%	120%		
matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	**percent recovery AQ Limits LCL**	**AQ Limits UCL**	**Soil Limits LCL**	**Soil Limits UCL**	**duplicate and/or MSD AQ Limits RPD**	**Soil Limits RPD**
Lindane	56%	123%	46%	127%	all target compounds	
Heptachlor	40%	131%	35%	130%	30%	50%
Aldrin	40%	120%	34%	132%		
Dieldrin	52%	126%	31%	134%		
Endrin	56%	121%	42%	139%		
4,4'-DDT	38%	127%	23%	134%		
Aroclor 1242/1016	40%	140%	40%	140%		
Aroclor 1260	40%	140%	40%	140%		

Volatile Petroleum Hydrocarbons (VPH) by MA DEP 98-1

surrogate spike % recovery	AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL		
2,5-Dibromotoluene	70%	130%	70%	130%		
laboratory control sample (LCS)	**percent recovery AQ Limits LCL**	**AQ Limits UCL**	**Soil Limits LCL**	**Soil Limits UCL**	**duplicate AQ Limits RPD**	**Soil Limits RPD**
all compounds	70%	130%	70%	130%	50%	50%

Extractable Petroleum Hydrocarbons (EPH) by MA DEP 98-1

surrogate spike % recovery	AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL		
Chloro-octadecane	40%	140%	40%	140%		
ortho-Terphenyl	40%	140%	40%	140%		
2-Fluorobiphenyl (fractionation)	40%	140%	40%	140%		
2-Bromonaphthalene (fractionation)	40%	140%	40%	140%		
laboratory control sample (LCS)	**percent recovery AQ Limits LCL**	**AQ Limits UCL**	**Soil Limits LCL**	**Soil Limits UCL**	**duplicate AQ Limits RPD**	**Soil Limits RPD**
all compounds	40%	140%	40%	140%	50%	50%

TPH (GC-FID) by Method 8100M

surrogate spike % recovery	AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL	duplicate AQ Limits RPD	duplicate Soil Limits RPD
ortho-Terphenyl	40%	140%	40%	140%	40%	40%

TPH by Method 418.1

matrix spike (MS) & laboratory control sample (LCS)	percent recovery AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL	duplicate AQ Limits RPD	duplicate Soil Limits RPD
TPH	60%	140%	60%	140%	40%	40%

Quality Control Acceptance Criteria

Trace Metals by Method 6010B/7000 series

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
target analyte	75%	125%	70%	140%	20%	35%

Mercury by Method 7470A/7471A

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
mercury	70%	130%	60%	140%	35%	45%

Total Cyanide by Method 9010B

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
cyanide	80%	120%	65%	135%	30%	40%

Total Phenol by Method 9065

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
phenol	70%	130%	65%	135%	20%	30%

HALEY & ALDRICH
Haley & Aldrich, Inc.
465 Medford St.,
Suite 2200.
Boston, MA 02129-1400
Phone (617) 886-7400
Fax (617) 886-7600

CHAIN OF CUSTODY RECORD

H&A FILE NO. 06558-631
PROJECT NAME Malden MGP
H&A CONTACT S. Provencal

LABORATORY Alpha
ADDRESS Westborough MA
CONTACT Doug Stone

DELIVERY DATE 3/12/02
TURNAROUND TIME Standard
PROJECT MANAGER P. Wilkinson

Analysis Requested

Sample No.	Date	Time	Depth	Type	(1) VOA	(2) ABNs PAH only	(3) Metals RCRA (or PPL)	Pesticides PCBs	TPH Fuel Fuel Chromatograph	EPH Fuel Fuel Chromatograph	TPH (specify)	TCLP (specify)	Reactivity Ignitability Corrosivity	(4) TCN	(5) PAC		Number of Containers
02B-B900-DUP	3/10/02	1500		Aqueous	X	X	X							X	X		8
02B-B918-OW	3/10/02	1315		Aqueous	X	X	X							X	X		8
02B-B920-OW	3/10/02	0950		Aqueous	X	X	X							X	X		8
02B-B921-OW	3/10/02	1040		Aqueous	X	X	X							X	X		8
02B-B618-OW	3/11/02	1400		Aqueous	X	X	X							X	X		8
MW-1	3/11/02	1210		Aqueous	X	X	X							X	X		8
NC-1	3/11/02	1030		Aqueous	X	X	X							X	X		8
																	56

Comments (special instructions, precautions, additional method numbers, etc.)

(1) VOCs by EPA method 8260
(2) SVOCs - Full List by 8270
(3) RCRA 8 Metals - Dissolved *
(4) Total Cyanide
(5) Physiologically Available Cyanide - Run only if TCN Detected.

LIQUID

	(1) VOA	(2) ABNs PAH only	(3) Metals RCRA (or PPL)	(4) TCN	(5) PAC
VOA Vial	X				
Amber Glass		X			
Plastic Bottle			X	X	X
Preservative	A/F	A	A/D	A/C	A
Volume	40 ml	1L	500 ml	250 ml	250 ml

SOLID

VOA Vial					
Amber Glass					
Clear Glass					
Preservative					
Volume					

Sampling Comments

* Metals sample filtered in field + then preserved

Evidence samples were tampered with? YES NO
If YES, please explain in section below.

Sampled and Relinquished by
Sign Louis A. Brez
Print Louis A. Brez
Firm Haley + Aldrich Inc
Date 3/11/02 Time 1630

Received by
Sign [illegible]
Print BOB KUNEN
Firm
Date 3/12/02 Time 15:30

Relinquished by
Sign [illegible]
Print
Firm
Date 3/12/02 Time

Received by
Sign [illegible]
Print
Firm
Date 3/12 Time 1715

Relinquished by
Sign
Print
Firm
Date Time

Received by
Sign
Print
Firm
Date Time

PRESERVATION KEY

A Sample chilled
B Sample filtered
C NaOH
D HNO_3
E H_2SO_4
F HCL
G Methanol
H Sodium Bisulfate

WHITE - Laboratory CANARY - Project Manager PINK - Haley & Aldrich Laboratory GOLDENROD - Haley & Aldrich Contact

RECEIVED

MAR 2 6 2002

Haley & Aldrich, Inc.

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65 NY:11148

CERTIFICATE OF ANALYSIS

Client: Haley & Aldrich, Inc.

Address: 465 Medford Street, Suite 2200
Boston, MA 02129-1400

Attn: Mr. Steve Provencal

Project Number: 06558-631

Site: MALDEN MGP

Laboratory Job Number: L0202463

Invoice Number: 61296

Date Received: 13-MAR-02

Date Reported: 20-MAR-02

Delivery Method: Alpha

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0202463-01	NC-DUP	
L0202463-02	NC-2	
L0202463-03	NC-3	
L0202463-04	97B-B617-OW	
L0202463-05	97B-B627-OW	
L0202463-06	97B-B628-OW	
L0202463-07	GP98-103-OW	
L0202463-08	TRIP BLANK	

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by: Scott McLean

Scott McLean - Technical Director
This document electronically signed

Laboratory Job Number: L0202463

Alpha Report L0202463:

Semi-Volatile Organics

One or more laboratory control sample and matrix spike percent recoveries are above the in-house acceptance criteria for the method. All associated samples were non-detect for the affected compounds, therefore no further action was taken.

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0202463-01
NC-DUP
Sample Matrix: WATER

Date Collected: 11-MAR-2002 15:30
Date Received : 13-MAR-2002
Date Reported : 20-MAR-2002

Condition of Sample: Satisfactory

Field Prep: field filtered

Number & Type of Containers: 3-Amber,3-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Cyanide, Total	0.217	mg/l	0.005	1	9010B	0314 15:25	0315 13:48	ED
Cyanide, Physiologically Available	0.022	mg/l	0.005	46		0314 11:00	0315 15:00	ED
Dissolved Metals								
Arsenic, Dissolved	0.030	mg/l	0.010	1	6010B		0316 00:30	RW
Barium, Dissolved	0.12	mg/l	0.01	1	6010B		0316 00:30	RW
Cadmium, Dissolved	ND	mg/l	0.005	1	6010B		0316 00:30	RW
Chromium, Dissolved	ND	mg/l	0.01	1	6010B		0316 00:30	RW
Lead, Dissolved	ND	mg/l	0.010	1	6010B		0316 00:30	RW
Mercury, Dissolved	ND	mg/l	0.0005	1	7470A	0318 12:10	0319 10:22	DM
Selenium, Dissolved	ND	mg/l	0.020	1	6010B		0316 00:30	RW
Silver, Dissolved	ND	mg/l	0.007	1	6010B		0318 15:32	RW
Volatile Organics by GC/MS 8260				1	8260B		0320 11:20	RY
Methylene chloride	ND	ug/l	1000					
1,1-Dichloroethane	ND	ug/l	150					
Chloroform	ND	ug/l	150					
Carbon tetrachloride	ND	ug/l	100					
1,2-Dichloropropane	ND	ug/l	350					
Dibromochloromethane	ND	ug/l	100					
1,1,2-Trichloroethane	ND	ug/l	150					
Tetrachloroethene	ND	ug/l	100					
Chlorobenzene	ND	ug/l	100					
Trichlorofluoromethane	ND	ug/l	500					
1,2-Dichloroethane	ND	ug/l	100					
1,1,1-Trichloroethane	ND	ug/l	100					
Bromodichloromethane	ND	ug/l	100					
trans-1,3-Dichloropropene	ND	ug/l	100					
cis-1,3-Dichloropropene	ND	ug/l	100					
1,1-Dichloropropene	ND	ug/l	500					
Bromoform	ND	ug/l	100					
1,1,2,2-Tetrachloroethane	ND	ug/l	100					
Benzene	10000	ug/l	100					
Toluene	ND	ug/l	150					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0202463-01
NC-DUP

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1 8260B		0320 11:20	RY
Ethylbenzene	990	ug/l	100				
Chloromethane	ND	ug/l	500				
Bromomethane	ND	ug/l	200				
Vinyl chloride	ND	ug/l	200				
Chloroethane	ND	ug/l	200				
1,1-Dichloroethene	ND	ug/l	100				
trans-1,2-Dichloroethene	ND	ug/l	150				
Trichloroethene	ND	ug/l	100				
1,2-Dichlorobenzene	ND	ug/l	500				
1,3-Dichlorobenzene	ND	ug/l	500				
1,4-Dichlorobenzene	ND	ug/l	500				
Methyl tert butyl ether	ND	ug/l	200				
p/m-Xylene	ND	ug/l	100				
o-Xylene	110	ug/l	100				
cis-1,2-Dichloroethene	ND	ug/l	100				
Dibromomethane	ND	ug/l	1000				
1,4-Dichlorobutane	ND	ug/l	1000				
Iodomethane	ND	ug/l	1000				
1,2,3-Trichloropropane	ND	ug/l	1000				
Styrene	ND	ug/l	100				
Dichlorodifluoromethane	ND	ug/l	1000				
Acetone	ND	ug/l	1000				
Carbon disulfide	ND	ug/l	1000				
2-Butanone	ND	ug/l	1000				
Vinyl acetate	ND	ug/l	1000				
4-Methyl-2-pentanone	ND	ug/l	1000				
2-Hexanone	ND	ug/l	1000				
Ethyl methacrylate	ND	ug/l	1000				
Acrolein	ND	ug/l	2500				
Acrylonitrile	ND	ug/l	1000				
Bromochloromethane	ND	ug/l	500				
Tetrahydrofuran	ND	ug/l	2000				
2,2-Dichloropropane	ND	ug/l	500				
1,2-Dibromoethane	ND	ug/l	500				
1,3-Dichloropropane	ND	ug/l	500				
1,1,1,2-Tetrachloroethane	ND	ug/l	100				
Bromobenzene	ND	ug/l	500				
n-Butylbenzene	ND	ug/l	100				
sec-Butylbenzene	ND	ug/l	100				
tert-Butylbenzene	ND	ug/l	500				
o-Chlorotoluene	ND	ug/l	500				
p-Chlorotoluene	ND	ug/l	500				
1,2-Dibromo-3-chloropropane	ND	ug/l	500				
Hexachlorobutadiene	ND	ug/l	500				
Isopropylbenzene	ND	ug/l	100				
p-Isopropyltoluene	ND	ug/l	100				
Naphthalene	ND	ug/l	500				
n-Propylbenzene	ND	ug/l	100				
1,2,3-Trichlorobenzene	ND	ug/l	500				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0202463-01
NC-DUP

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		0320 11:20	RY
1,2,4-Trichlorobenzene	ND	ug/l	500					
1,3,5-Trimethylbenzene	ND	ug/l	500					
1,2,4-Trimethylbenzene	ND	ug/l	500					
trans-1,4-Dichloro-2-butene	ND	ug/l	500					
Ethyl ether	ND	ug/l	500					
Surrogate Recovery								
1,2-Dichloroethane-d4	101.	%						
Toluene-d8	98.0	%						
4-Bromofluorobenzene	104.	%						
Dibromofluoromethane	95.0	%						
SVOC's by GC/MS 8270				1	8270C	0314 10:50	0319 23:37	HL
Acenaphthene	ND	ug/l	53.					
Benzidine	ND	ug/l	530					
1,2,4-Trichlorobenzene	ND	ug/l	53.					
Hexachlorobenzene	ND	ug/l	53.					
Bis(2-chloroethyl)ether	ND	ug/l	53.					
1-Chloronaphthalene	ND	ug/l	53.					
2-Chloronaphthalene	ND	ug/l	63.					
1,2-Dichlorobenzene	ND	ug/l	53.					
1,3-Dichlorobenzene	ND	ug/l	53.					
1,4-Dichlorobenzene	ND	ug/l	53.					
3,3'-Dichlorobenzidine	ND	ug/l	530					
2,4-Dinitrotoluene	ND	ug/l	63.					
2,6-Dinitrotoluene	ND	ug/l	53.					
Azobenzene	ND	ug/l	53.					
Fluoranthene	ND	ug/l	53.					
4-Chlorophenyl phenyl ether	ND	ug/l	53.					
4-Bromophenyl phenyl ether	ND	ug/l	53.					
Bis(2-chloroisopropyl)ether	ND	ug/l	53.					
Bis(2-chloroethoxy)methane	ND	ug/l	53.					
Hexachlorobutadiene	ND	ug/l	100					
Hexachlorocyclopentadiene	ND	ug/l	100					
Hexachloroethane	ND	ug/l	53.					
Isophorone	ND	ug/l	53.					
Naphthalene	280	ug/l	53.					
Nitrobenzene	ND	ug/l	53.					
NDPA/DPA	ND	ug/l	160					
n-Nitrosodi-n-propylamine	ND	ug/l	53.					
Bis(2-ethylhexyl)phthalate	ND	ug/l	100					
Butyl benzyl phthalate	ND	ug/l	53.					
Di-n-butylphthalate	ND	ug/l	53.					
Di-n-octylphthalate	ND	ug/l	53.					
Diethyl phthalate	ND	ug/l	53.					
Dimethyl phthalate	ND	ug/l	53.					
Benzo(a)anthracene	ND	ug/l	53.					
Benzo(a)pyrene	ND	ug/l	53.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0202463-01
NC-DUP

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1	8270C	0314 10:50	0319 23:37	HL
Benzo(b)fluoranthene	ND	ug/l	53.					
Benzo(k)fluoranthene	ND	ug/l	53.					
Chrysene	ND	ug/l	53.					
Acenaphthylene	ND	ug/l	53.					
Anthracene	ND	ug/l	53.					
Benzo(ghi)perylene	ND	ug/l	53.					
Fluorene	ND	ug/l	53.					
Phenanthrene	ND	ug/l	53.					
Dibenzo(a,h)anthracene	ND	ug/l	53.					
Indeno(1,2,3-cd)pyrene	ND	ug/l	74.					
Pyrene	ND	ug/l	53.					
Benzo(e)pyrene	ND	ug/l	53.					
Biphenyl	ND	ug/l	53.					
Perylene	ND	ug/l	53.					
Aniline	ND	ug/l	100					
4-Chloroaniline	ND	ug/l	53.					
1-Methylnaphthalene	ND	ug/l	53.					
2-Nitroaniline	ND	ug/l	53.					
3-Nitroaniline	ND	ug/l	53.					
4-Nitroaniline	ND	ug/l	74.					
Dibenzofuran	ND	ug/l	53.					
a,a-Dimethylphenethylamine	ND	ug/l	530					
Hexachloropropene	ND	ug/l	530					
Nitrosodi-n-butylamine	ND	ug/l	100					
2-Methylnaphthalene	ND	ug/l	84.					
1,2,4,5-Tetrachlorobenzene	ND	ug/l	210					
Pentachlorobenzene	ND	ug/l	210					
a-Naphthylamine	ND	ug/l	210					
b-Naphthylamine	ND	ug/l	210					
Phenacetin	ND	ug/l	100					
Dimethoate	ND	ug/l	210					
4-Aminobiphenyl	ND	ug/l	100					
Pentachloronitrobenzene	ND	ug/l	100					
Isodrin	ND	ug/l	100					
p-Dimethylaminoazobenzene	ND	ug/l	100					
Chlorobenzilate	ND	ug/l	210					
3-Methylcholanthrene	ND	ug/l	210					
Ethyl Methanesulfonate	ND	ug/l	160					
Acetophenone	ND	ug/l	210					
Nitrosodipiperidine	ND	ug/l	210					
7,12-Dimethylbenz(a)anthracene	ND	ug/l	100					
n-Nitrosodimethylamine	ND	ug/l	530					
2,4,6-Trichlorophenol	ND	ug/l	53.					
p-Chloro-m-cresol	ND	ug/l	53.					
2-Chlorophenol	ND	ug/l	63.					
2,4-Dichlorophenol	ND	ug/l	100					
2,4-Dimethylphenol	ND	ug/l	100					
2-Nitrophenol	ND	ug/l	210					
4-Nitrophenol	ND	ug/l	100					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0202463-01
NC-DUP

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1	8270C	0314 10:50	0319 23:37	HL
2,4-Dinitrophenol	ND	ug/l	210					
4,6-Dinitro-o-cresol	ND	ug/l	210					
Pentachlorophenol	ND	ug/l	210					
Phenol	ND	ug/l	74.					
2-Methylphenol	ND	ug/l	63.					
3-Methylphenol/4-Methylphenol	ND	ug/l	63.					
2,4,5-Trichlorophenol	ND	ug/l	53.					
2,6-Dichlorophenol	ND	ug/l	100					
Benzoic Acid	ND	ug/l	530					
Benzyl Alcohol	ND	ug/l	100					
Carbazole	ND	ug/l	53.					
Pyridine	ND	ug/l	530					
2-Picoline	ND	ug/l	210					
Pronamide	ND	ug/l	210					
Methyl methanesulfonate	ND	ug/l	210					
Surrogate Recovery								
2-Fluorophenol	49.0	%						
Phenol-d6	33.0	%						
Nitrobenzene-d5	86.0	%						
2-Fluorobiphenyl	99.0	%						
2,4,6-Tribromophenol	99.0	%						
4-Terphenyl-d14	94.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0202463-02
NC-2
Sample Matrix: WATER

Date Collected: 11-MAR-2002 12:40
Date Received : 13-MAR-2002
Date Reported : 20-MAR-2002

Condition of Sample: Satisfactory

Field Prep: field filtered

Number & Type of Containers: 3-Amber,3-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Cyanide, Total	0.028	mg/l	0.005	1	9010B	0314 15:25	0315 14:24	ED
Cyanide, Physiologically Available	0.009	mg/l	0.005	45		0314 11:00	0315 15:01	ED
Dissolved Metals								
Arsenic, Dissolved	0.014	mg/l	0.010	1	6010B		0316 00:53	RW
Barium, Dissolved	0.02	mg/l	0.01	1	6010B		0316 00:53	RW
Cadmium, Dissolved	ND	mg/l	0.005	1	6010B		0316 00:53	RW
Chromium, Dissolved	ND	mg/l	0.01	1	6010B		0316 00:53	RW
Lead, Dissolved	ND	mg/l	0.010	1	6010B		0316 00:53	RW
Mercury, Dissolved	ND	mg/l	0.0005	1	7470A	0318 12:10	0319 10:23	DM
Selenium, Dissolved	ND	mg/l	0.020	1	6010B		0316 00:53	RW
Silver, Dissolved	ND	mg/l	0.007	1	6010B		0318 15:37	RW
Volatile Organics by GC/MS 8260				1	8260B		0319 01:29	RY
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	0.50					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	26.	ug/l	0.50					
Toluene	ND	ug/l	0.75					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0202463-02
NC-2

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1 8260B		0319 01:29	RY
Ethylbenzene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.5				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	0.78	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	2.5				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0202463-02
NC-2

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		0319 01:29	RY
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					
Surrogate Recovery								
1,2-Dichloroethane-d4	101.	%						
Toluene-d8	98.0	%						
4-Bromofluorobenzene	101.	%						
Dibromofluoromethane	100.	%						
SVOC's by GC/MS 8270				1	8270C	0314 10:50	0320 00:25	HL
Acenaphthene	ND	ug/l	5.2					
Benzidine	ND	ug/l	52.					
1,2,4-Trichlorobenzene	ND	ug/l	5.2					
Hexachlorobenzene	ND	ug/l	5.2					
Bis(2-chloroethyl)ether	ND	ug/l	5.2					
1-Chloronaphthalene	ND	ug/l	5.2					
2-Chloronaphthalene	ND	ug/l	6.2					
1,2-Dichlorobenzene	ND	ug/l	5.2					
1,3-Dichlorobenzene	ND	ug/l	5.2					
1,4-Dichlorobenzene	ND	ug/l	5.2					
3,3'-Dichlorobenzidine	ND	ug/l	52.					
2,4-Dinitrotoluene	ND	ug/l	6.2					
2,6-Dinitrotoluene	ND	ug/l	5.2					
Azobenzene	ND	ug/l	5.2					
Fluoranthene	ND	ug/l	5.2					
4-Chlorophenyl phenyl ether	ND	ug/l	5.2					
4-Bromophenyl phenyl ether	ND	ug/l	5.2					
Bis(2-chloroisopropyl)ether	ND	ug/l	5.2					
Bis(2-chloroethoxy)methane	ND	ug/l	5.2					
Hexachlorobutadiene	ND	ug/l	10.					
Hexachlorocyclopentadiene	ND	ug/l	10.					
Hexachloroethane	ND	ug/l	5.2					
Isophorone	ND	ug/l	5.2					
Naphthalene	ND	ug/l	5.2					
Nitrobenzene	ND	ug/l	5.2					
NDPA/DPA	ND	ug/l	15.					
n-Nitrosodi-n-propylamine	ND	ug/l	5.2					
Bis(2-ethylhexyl)phthalate	ND	ug/l	10.					
Butyl benzyl phthalate	ND	ug/l	5.2					
Di-n-butylphthalate	ND	ug/l	5.2					
Di-n-octylphthalate	ND	ug/l	5.2					
Diethyl phthalate	ND	ug/l	5.2					
Dimethyl phthalate	ND	ug/l	5.2					
Benzo(a)anthracene	ND	ug/l	5.2					
Benzo(a)pyrene	ND	ug/l	5.2					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0202463-02
NC-2

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1	8270C	3314 10:50	0320 00:25	NL
Benzo(b)fluoranthene	ND	ug/l	5.2					
Benzo(k)fluoranthene	ND	ug/l	5.2					
Chrysene	ND	ug/l	5.2					
Acenaphthylene	ND	ug/l	5.2					
Anthracene	ND	ug/l	5.2					
Benzo(ghi)perylene	ND	ug/l	5.2					
Fluorene	ND	ug/l	5.2					
Phenanthrene	ND	ug/l	5.2					
Dibenzo(a,h)anthracene	ND	ug/l	5.2					
Indeno(1,2,3-cd)pyrene	ND	ug/l	7.2					
Pyrene	ND	ug/l	5.2					
Benzo(e)pyrene	ND	ug/l	5.2					
Biphenyl	ND	ug/l	5.2					
Perylene	ND	ug/l	5.2					
Aniline	ND	ug/l	10.					
4-Chloroaniline	ND	ug/l	5.2					
1-Methylnaphthalene	ND	ug/l	5.2					
2-Nitroaniline	ND	ug/l	5.2					
3-Nitroaniline	ND	ug/l	5.2					
4-Nitroaniline	ND	ug/l	7.2					
Dibenzofuran	ND	ug/l	5.2					
a,a-Dimethylphenethylamine	ND	ug/l	52.					
Hexachloropropene	ND	ug/l	52.					
Nitrosodi-n-butylamine	ND	ug/l	10.					
2-Methylnaphthalene	ND	ug/l	8.2					
1,2,4,5-Tetrachlorobenzene	ND	ug/l	21.					
Pentachlorobenzene	ND	ug/l	21.					
a-Naphthylamine	ND	ug/l	21.					
b-Naphthylamine	ND	ug/l	21.					
Phenacetin	ND	ug/l	10.					
Dimethoate	ND	ug/l	21.					
4-Aminobiphenyl	ND	ug/l	10.					
Pentachloronitrobenzene	ND	ug/l	10.					
Isodrin	ND	ug/l	10.					
p-Dimethylaminoazobenzene	ND	ug/l	10.					
Chlorobenzilate	ND	ug/l	21.					
3-Methylcholanthrene	ND	ug/l	21.					
Ethyl Methanesulfonate	ND	ug/l	15.					
Acetophenone	ND	ug/l	21.					
Nitrosodipiperidine	ND	ug/l	21.					
7,12-Dimethylbenz(a)anthracene	ND	ug/l	10.					
n-Nitrosodimethylamine	ND	ug/l	52.					
2,4,6-Trichlorophenol	ND	ug/l	5.2					
p-Chloro-m-cresol	ND	ug/l	5.2					
2-Chlorophenol	ND	ug/l	6.2					
2,4-Dichlorophenol	ND	ug/l	10.					
2,4-Dimethylphenol	ND	ug/l	10.					
2-Nitrophenol	ND	ug/l	21.					
4-Nitrophenol	ND	ug/l	10.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0202463-02
NC-2

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1	8270C	0314 10:50	0320 00:25	HL
2,4-Dinitrophenol	ND	ug/l	21.					
4,6-Dinitro-o-cresol	ND	ug/l	21.					
Pentachlorophenol	ND	ug/l	21.					
Phenol	ND	ug/l	7.2					
2-Methylphenol	ND	ug/l	6.2					
3-Methylphenol/4-Methylphenol	ND	ug/l	6.2					
2,4,5-Trichlorophenol	ND	ug/l	5.2					
2,6-Dichlorophenol	ND	ug/l	10.					
Benzoic Acid	ND	ug/l	52.					
Benzyl Alcohol	ND	ug/l	10.					
Carbazole	ND	ug/l	5.2					
Pyridine	ND	ug/l	52.					
2-Picoline	ND	ug/l	21.					
Pronamide	ND	ug/l	21.					
Methyl methanesulfonate	ND	ug/l	21.					
Surrogate Recovery								
2-Fluorophenol	52.0	%						
Phenol-d6	34.0	%						
Nitrobenzene-d5	83.0	%						
2-Fluorobiphenyl	98.0	%						
2,4,6-Tribromophenol	102.	%						
4-Terphenyl-d14	98.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0202463-03
NC-3
Sample Matrix: WATER

Date Collected: 12-MAR-2002 14:05
Date Received : 13-MAR-2002
Date Reported : 20-MAR-2002

Condition of Sample: Satisfactory

Field Prep: field filtered

Number & Type of Containers: 3-Amber,3-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Cyanide, Total	0.210	mg/l	0.005	1	9010B	0314 15:25	0315 14:25	ED
Cyanide, Physiologically Available	0.023	mg/l	0.005	45		0314 11:00	0315 15:02	ED
Dissolved Metals								
Arsenic, Dissolved	0.029	mg/l	0.010	1	6010B		0316 00:59	RW
Barium, Dissolved	0.12	mg/l	0.01	1	6010B		0316 00:59	RW
Cadmium, Dissolved	ND	mg/l	0.005	1	6010B		0316 00:59	RW
Chromium, Dissolved	ND	mg/l	0.01	1	6010B		0316 00:59	RW
Lead, Dissolved	ND	mg/l	0.010	1	6010B		0316 00:59	RW
Mercury, Dissolved	ND	mg/l	0.0005	1	7470A	0318 12:10	0319 10:25	DM
Selenium, Dissolved	ND	mg/l	0.020	1	6010B		0316 00:59	RW
Silver, Dissolved	ND	mg/l	0.007	1	6010B		0318 15:42	RW
Volatile Organics by GC/MS 8260				1	8260B		0319 19:34	RY
Methylene chloride	ND	ug/l	1000					
1,1-Dichloroethane	ND	ug/l	150					
Chloroform	ND	ug/l	150					
Carbon tetrachloride	ND	ug/l	100					
1,2-Dichloropropane	ND	ug/l	350					
Dibromochloromethane	ND	ug/l	100					
1,1,2-Trichloroethane	ND	ug/l	150					
Tetrachloroethene	ND	ug/l	100					
Chlorobenzene	ND	ug/l	100					
Trichlorofluoromethane	ND	ug/l	500					
1,2-Dichloroethane	ND	ug/l	100					
1,1,1-Trichloroethane	ND	ug/l	100					
Bromodichloromethane	ND	ug/l	100					
trans-1,3-Dichloropropene	ND	ug/l	100					
cis-1,3-Dichloropropene	ND	ug/l	100					
1,1-Dichloropropene	ND	ug/l	500					
Bromoform	ND	ug/l	100					
1,1,2,2-Tetrachloroethane	ND	ug/l	100					
Benzene	10000	ug/l	100					
Toluene	ND	ug/l	150					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0202463-03
NC-3

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1 8260B		0319 19:34	RY
Ethylbenzene	1100	ug/l	100				
Chloromethane	ND	ug/l	500				
Bromomethane	ND	ug/l	200				
Vinyl chloride	ND	ug/l	200				
Chloroethane	ND	ug/l	200				
1,1-Dichloroethene	ND	ug/l	100				
trans-1,2-Dichloroethene	ND	ug/l	150				
Trichloroethene	ND	ug/l	100				
1,2-Dichlorobenzene	ND	ug/l	500				
1,3-Dichlorobenzene	ND	ug/l	500				
1,4-Dichlorobenzene	ND	ug/l	500				
Methyl tert butyl ether	ND	ug/l	200				
p/m-Xylene	ND	ug/l	100				
o-Xylene	130	ug/l	100				
cis-1,2-Dichloroethene	ND	ug/l	100				
Dibromomethane	ND	ug/l	1000				
1,4-Dichlorobutane	ND	ug/l	1000				
Iodomethane	ND	ug/l	1000				
1,2,3-Trichloropropane	ND	ug/l	1000				
Styrene	ND	ug/l	100				
Dichlorodifluoromethane	ND	ug/l	1000				
Acetone	ND	ug/l	1000				
Carbon disulfide	ND	ug/l	1000				
2-Butanone	ND	ug/l	1000				
Vinyl acetate	ND	ug/l	1000				
4-Methyl-2-pentanone	ND	ug/l	1000				
2-Hexanone	ND	ug/l	1000				
Ethyl methacrylate	ND	ug/l	1000				
Acrolein	ND	ug/l	2500				
Acrylonitrile	ND	ug/l	1000				
Bromochloromethane	ND	ug/l	500				
Tetrahydrofuran	ND	ug/l	2000				
2,2-Dichloropropane	ND	ug/l	500				
1,2-Dibromoethane	ND	ug/l	500				
1,3-Dichloropropane	ND	ug/l	500				
1,1,1,2-Tetrachloroethane	ND	ug/l	100				
Bromobenzene	ND	ug/l	500				
n-Butylbenzene	ND	ug/l	100				
sec-Butylbenzene	ND	ug/l	100				
tert-Butylbenzene	ND	ug/l	500				
o-Chlorotoluene	ND	ug/l	500				
p-Chlorotoluene	ND	ug/l	500				
1,2-Dibromo-3-chloropropane	ND	ug/l	500				
Hexachlorobutadiene	ND	ug/l	500				
Isopropylbenzene	ND	ug/l	100				
p-Isopropyltoluene	ND	ug/l	100				
Naphthalene	ND	ug/l	500				
n-Propylbenzene	ND	ug/l	100				
1,2,3-Trichlorobenzene	ND	ug/l	500				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0202463-03
NC-3

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		0319 19:34	RY
1,2,4-Trichlorobenzene	ND	ug/l	500					
1,3,5-Trimethylbenzene	ND	ug/l	500					
1,2,4-Trimethylbenzene	ND	ug/l	500					
trans-1,4-Dichloro-2-butene	ND	ug/l	500					
Ethyl ether	ND	ug/l	500					
Surrogate Recovery								
1,2-Dichloroethane-d4	97.0	%						
Toluene-d8	96.0	%						
4-Bromofluorobenzene	103.	%						
Dibromofluoromethane	93.0	%						
SVOC's by GC/MS 8270				1	8270C	0314 10:50	0320 01:12	HL
Acenaphthene	ND	ug/l	130					
Benzidine	ND	ug/l	1300					
1,2,4-Trichlorobenzene	ND	ug/l	130					
Hexachlorobenzene	ND	ug/l	130					
Bis(2-chloroethyl)ether	ND	ug/l	130					
1-Chloronaphthalene	ND	ug/l	130					
2-Chloronaphthalene	ND	ug/l	160					
1,2-Dichlorobenzene	ND	ug/l	130					
1,3-Dichlorobenzene	ND	ug/l	130					
1,4-Dichlorobenzene	ND	ug/l	130					
3,3'-Dichlorobenzidine	ND	ug/l	1300					
2,4-Dinitrotoluene	ND	ug/l	160					
2,6-Dinitrotoluene	ND	ug/l	130					
Azobenzene	ND	ug/l	130					
Fluoranthene	ND	ug/l	130					
4-Chlorophenyl phenyl ether	ND	ug/l	130					
4-Bromophenyl phenyl ether	ND	ug/l	130					
Bis(2-chloroisopropyl)ether	ND	ug/l	130					
Bis(2-chloroethoxy)methane	ND	ug/l	130					
Hexachlorobutadiene	ND	ug/l	260					
Hexachlorocyclopentadiene	ND	ug/l	260					
Hexachloroethane	ND	ug/l	130					
Isophorone	ND	ug/l	130					
Naphthalene	180	ug/l	130					
Nitrobenzene	ND	ug/l	130					
NDPA/DPA	ND	ug/l	390					
n-Nitrosodi-n-propylamine	ND	ug/l	130					
Bis(2-ethylhexyl)phthalate	ND	ug/l	260					
Butyl benzyl phthalate	ND	ug/l	130					
Di-n-butylphthalate	ND	ug/l	130					
Di-n-octylphthalate	ND	ug/l	130					
Diethyl phthalate	ND	ug/l	130					
Dimethyl phthalate	ND	ug/l	130					
Benzo(a)anthracene	ND	ug/l	130					
Benzo(a)pyrene	ND	ug/l	130					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0202463-03
NC-3

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1	8270C	0314 10:50	0320 01:12	ML
Benzo(b)fluoranthene	ND	ug/l	130					
Benzo(k)fluoranthene	ND	ug/l	130					
Chrysene	ND	ug/l	130					
Acenaphthylene	ND	ug/l	130					
Anthracene	ND	ug/l	130					
Benzo(ghi)perylene	ND	ug/l	130					
Fluorene	ND	ug/l	130					
Phenanthrene	ND	ug/l	130					
Dibenzo(a,h)anthracene	ND	ug/l	130					
Indeno(1,2,3-cd)pyrene	ND	ug/l	180					
Pyrene	ND	ug/l	130					
Benzo(e)pyrene	ND	ug/l	130					
Biphenyl	ND	ug/l	130					
Perylene	ND	ug/l	130					
Aniline	ND	ug/l	260					
4-Chloroaniline	ND	ug/l	130					
1-Methylnaphthalene	ND	ug/l	130					
2-Nitroaniline	ND	ug/l	130					
3-Nitroaniline	ND	ug/l	130					
4-Nitroaniline	ND	ug/l	180					
Dibenzofuran	ND	ug/l	130					
a,a-Dimethylphenethylamine	ND	ug/l	1300					
Hexachloropropene	ND	ug/l	1300					
Nitrosodi-n-butylamine	ND	ug/l	260					
2-Methylnaphthalene	ND	ug/l	210					
1,2,4,5-Tetrachlorobenzene	ND	ug/l	520					
Pentachlorobenzene	ND	ug/l	520					
a-Naphthylamine	ND	ug/l	520					
b-Naphthylamine	ND	ug/l	520					
Phenacetin	ND	ug/l	260					
Dimethoate	ND	ug/l	520					
4-Aminobiphenyl	ND	ug/l	260					
Pentachloronitrobenzene	ND	ug/l	260					
Isodrin	ND	ug/l	260					
p-Dimethylaminoazobenzene	ND	ug/l	260					
Chlorobenzilate	ND	ug/l	520					
3-Methylcholanthrene	ND	ug/l	520					
Ethyl Methanesulfonate	ND	ug/l	390					
Acetophenone	ND	ug/l	520					
Nitrosodipiperidine	ND	ug/l	520					
7,12-Dimethylbenz(a)anthracene	ND	ug/l	260					
n-Nitrosodimethylamine	ND	ug/l	1300					
2,4,6-Trichlorophenol	ND	ug/l	130					
p-Chloro-m-cresol	ND	ug/l	130					
2-Chlorophenol	ND	ug/l	160					
2,4-Dichlorophenol	ND	ug/l	260					
2,4-Dimethylphenol	ND	ug/l	260					
2-Nitrophenol	ND	ug/l	520					
4-Nitrophenol	ND	ug/l	260					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0202463-03
NC-3

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1	8270C	0314 10:50	0320 01:12	HL
2,4-Dinitrophenol	ND	ug/l	520					
4,6-Dinitro-o-cresol	ND	ug/l	520					
Pentachlorophenol	ND	ug/l	520					
Phenol	ND	ug/l	180					
2-Methylphenol	ND	ug/l	160					
3-Methylphenol/4-Methylphenol	ND	ug/l	160					
2,4,5-Trichlorophenol	ND	ug/l	130					
2,6-Dichlorophenol	ND	ug/l	260					
Benzoic Acid	ND	ug/l	1300					
Benzyl Alcohol	ND	ug/l	260					
Carbazole	ND	ug/l	130					
Pyridine	ND	ug/l	1300					
2-Picoline	ND	ug/l	520					
Pronamide	ND	ug/l	520					
Methyl methanesulfonate	ND	ug/l	520					
Surrogate Recovery								
2-Fluorophenol	41.0	%						
Phenol-d6	25.0	%						
Nitrobenzene-d5	71.0	%						
2-Fluorobiphenyl	75.0	%						
2,4,6-Tribromophenol	73.0	%						
4-Terphenyl-d14	72.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0202463-04
97B-B617-OW
Sample Matrix: WATER

Date Collected: 12-MAR-2002 11:45
Date Received : 13-MAR-2002
Date Reported : 20-MAR-2002

Condition of Sample: Satisfactory

Field Prep: field filtered

Number & Type of Containers: 3-Amber,3-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Cyanide, Total	0.014	mg/l	0.005	1	9010B	0314 15:25	0315 14:26	ED
Cyanide, Physiologically Available	ND	mg/l	0.005	45		0314 11:00	0315 15:03	ED
Dissolved Metals								
Arsenic, Dissolved	0.010	mg/l	0.010	1	6010B		0316 01:06	RW
Barium, Dissolved	0.05	mg/l	0.01	1	6010B		0316 01:06	RW
Cadmium, Dissolved	ND	mg/l	0.005	1	6010B		0316 01:06	RW
Chromium, Dissolved	ND	mg/l	0.01	1	6010B		0316 01:06	RW
Lead, Dissolved	ND	mg/l	0.010	1	6010B		0316 01:06	RW
Mercury, Dissolved	ND	mg/l	0.0005	1	7470A	0318 12:10	0319 10:27	DM
Selenium, Dissolved	ND	mg/l	0.020	1	6010B		0316 01:06	RW
Silver, Dissolved	ND	mg/l	0.007	1	6010B		0318 15:47	RW
Volatile Organics by GC/MS 8260				1	8260B		0319 15:03	RY
Methylene chloride	ND	ug/l	2500					
1,1-Dichloroethane	ND	ug/l	380					
Chloroform	ND	ug/l	380					
Carbon tetrachloride	ND	ug/l	250					
1,2-Dichloropropane	ND	ug/l	880					
Dibromochloromethane	ND	ug/l	250					
1,1,2-Trichloroethane	ND	ug/l	380					
Tetrachloroethene	ND	ug/l	250					
Chlorobenzene	ND	ug/l	250					
Trichlorofluoromethane	ND	ug/l	1200					
1,2-Dichloroethane	ND	ug/l	250					
1,1,1 Trichloroethane	ND	ug/l	250					
Bromodichloromethane	ND	ug/l	250					
trans-1,3-Dichloropropene	290	ug/l	250					
cis-1,3-Dichloropropene	ND	ug/l	250					
1,1-Dichloropropene	ND	ug/l	1200					
Bromoform	ND	ug/l	250					
1,1,2,2-Tetrachloroethane	ND	ug/l	250					
Benzene	400	ug/l	250					
Toluene	26000	ug/l	380					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0202463-04
97B-B617-OW

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1 8260B		0319 15:03	RY
Ethylbenzene	6800	ug/l	250				
Chloromethane	ND	ug/l	1200				
Bromomethane	ND	ug/l	500				
Vinyl chloride	ND	ug/l	500				
Chloroethane	ND	ug/l	500				
1,1-Dichloroethene	ND	ug/l	250				
trans-1,2-Dichloroethene	ND	ug/l	380				
Trichloroethene	ND	ug/l	250				
1,2-Dichlorobenzene	ND	ug/l	1200				
1,3-Dichlorobenzene	ND	ug/l	1200				
1,4-Dichlorobenzene	ND	ug/l	1200				
Methyl tert butyl ether	ND	ug/l	500				
p/m-Xylene	9200	ug/l	250				
o-Xylene	3200	ug/l	250				
cis-1,2-Dichloroethene	ND	ug/l	250				
Dibromomethane	ND	ug/l	2500				
1,4-Dichlorobutane	ND	ug/l	2500				
Iodomethane	ND	ug/l	2500				
1,2,3-Trichloropropane	ND	ug/l	2500				
Styrene	16000	ug/l	250				
Dichlorodifluoromethane	ND	ug/l	2500				
Acetone	ND	ug/l	2500				
Carbon disulfide	ND	ug/l	2500				
2-Butanone	ND	ug/l	2500				
Vinyl acetate	ND	ug/l	2500				
4-Methyl-2-pentanone	ND	ug/l	2500				
2-Hexanone	ND	ug/l	2500				
Ethyl methacrylate	ND	ug/l	2500				
Acrolein	ND	ug/l	6200				
Acrylonitrile	ND	ug/l	2500				
Bromochloromethane	ND	ug/l	1200				
Tetrahydrofuran	ND	ug/l	5000				
2,2-Dichloropropane	ND	ug/l	1200				
1,2-Dibromoethane	ND	ug/l	1200				
1,3-Dichloropropane	ND	ug/l	1200				
1,1,1,2-Tetrachloroethane	ND	ug/l	250				
Bromobenzene	ND	ug/l	1200				
n-Butylbenzene	ND	ug/l	250				
sec-Butylbenzene	ND	ug/l	250				
tert-Butylbenzene	ND	ug/l	1200				
o-Chlorotoluene	ND	ug/l	1200				
p-Chlorotoluene	ND	ug/l	1200				
1,2-Dibromo-3-chloropropane	ND	ug/l	1200				
Hexachlorobutadiene	ND	ug/l	1200				
Isopropylbenzene	ND	ug/l	250				
p-Isopropyltoluene	ND	ug/l	250				
Naphthalene	1200	ug/l	1200				
n-Propylbenzene	ND	ug/l	250				
1,2,3-Trichlorobenzene	ND	ug/l	1200				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0202463-04
97B-B617-OW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		0319 15:03	RY
1,2,4-Trichlorobenzene	ND	ug/l	1200					
1,3,5-Trimethylbenzene	ND	ug/l	1200					
1,2,4-Trimethylbenzene	ND	ug/l	1200					
trans-1,4-Dichloro-2-butene	ND	ug/l	1200					
Ethyl ether	ND	ug/l	1200					
Surrogate Recovery								
1,2-Dichloroethane-d4	94.0	%						
Toluene-d8	97.0	%						
4-Bromofluorobenzene	96.0	%						
Dibromofluoromethane	95.0	%						
SVOC's by GC/MS 8270				1	8270C	0314 10:50	0320 02:00	HL
Acenaphthene	ND	ug/l	260					
Benzidine	ND	ug/l	2600					
1,2,4-Trichlorobenzene	ND	ug/l	260					
Hexachlorobenzene	ND	ug/l	260					
Bis(2-chloroethyl)ether	ND	ug/l	260					
1-Chloronaphthalene	ND	ug/l	260					
2-Chloronaphthalene	ND	ug/l	310					
1,2-Dichlorobenzene	ND	ug/l	260					
1,3-Dichlorobenzene	ND	ug/l	260					
1,4-Dichlorobenzene	ND	ug/l	260					
3,3'-Dichlorobenzidine	ND	ug/l	2600					
2,4-Dinitrotoluene	ND	ug/l	310					
2,6-Dinitrotoluene	ND	ug/l	260					
Azobenzene	ND	ug/l	260					
Fluoranthene	ND	ug/l	260					
4-Chlorophenyl phenyl ether	ND	ug/l	260					
4-Bromophenyl phenyl ether	ND	ug/l	260					
Bis(2-chloroisopropyl)ether	ND	ug/l	260					
Bis(2-chloroethoxy)methane	ND	ug/l	260					
Hexachlorobutadiene	ND	ug/l	520					
Hexachlorocyclopentadiene	ND	ug/l	520					
Hexachloroethane	ND	ug/l	260					
Isophorone	ND	ug/l	260					
Naphthalene	1600	ug/l	260					
Nitrobenzene	ND	ug/l	260					
NDPA/DPA	ND	ug/l	770					
n-Nitrosodi-n-propylamine	ND	ug/l	260					
Bis(2-ethylhexyl)phthalate	ND	ug/l	520					
Butyl benzyl phthalate	ND	ug/l	260					
Di-n-butylphthalate	ND	ug/l	260					
Di-n-octylphthalate	ND	ug/l	260					
Diethyl phthalate	ND	ug/l	260					
Dimethyl phthalate	ND	ug/l	260					
Benzo(a)anthracene	ND	ug/l	260					
Benzo(a)pyrene	ND	ug/l	260					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0202463-04
97B-B617-OW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1	8270C	0314 10:50	0320 02:00	HL
Benzo(b)fluoranthene	ND	ug/l	260					
Benzo(k)fluoranthene	ND	ug/l	260					
Chrysene	ND	ug/l	260					
Acenaphthylene	ND	ug/l	260					
Anthracene	ND	ug/l	260					
Benzo(ghi)perylene	ND	ug/l	260					
Fluorene	ND	ug/l	260					
Phenanthrene	ND	ug/l	260					
Dibenzo(a,h)anthracene	ND	ug/l	260					
Indeno(1,2,3-cd)pyrene	ND	ug/l	360					
Pyrene	ND	ug/l	260					
Benzo(e)pyrene	ND	ug/l	260					
Biphenyl	ND	ug/l	260					
Perylene	ND	ug/l	260					
Aniline	ND	ug/l	520					
4-Chloroaniline	ND	ug/l	260					
1-Methylnaphthalene	ND	ug/l	260					
2-Nitroaniline	ND	ug/l	260					
3-Nitroaniline	ND	ug/l	260					
4-Nitroaniline	ND	ug/l	360					
Dibenzofuran	ND	ug/l	260					
a,a-Dimethylphenethylamine	ND	ug/l	2600					
Hexachloropropene	ND	ug/l	2600					
Nitrosodi-n-butylamine	ND	ug/l	520					
2-Methylnaphthalene	ND	ug/l	410					
1,2,4,5-Tetrachlorobenzene	ND	ug/l	1000					
Pentachlorobenzene	ND	ug/l	1000					
a-Naphthylamine	ND	ug/l	1000					
b-Naphthylamine	ND	ug/l	1000					
Phenacetin	ND	ug/l	520					
Dimethoate	ND	ug/l	1000					
4-Aminobiphenyl	ND	ug/l	520					
Pentachloronitrobenzene	ND	ug/l	520					
Isodrin	ND	ug/l	520					
p-Dimethylaminoazobenzene	ND	ug/l	520					
Chlorobenzilate	ND	ug/l	1000					
3-Methylcholanthrene	ND	ug/l	1000					
Ethyl Methanesulfonate	ND	ug/l	770					
Acetophenone	ND	ug/l	1000					
Nitrosodipiperidine	ND	ug/l	1000					
7,12-Dimethylbenz(a)anthracene	ND	ug/l	520					
n-Nitrosodimethylamine	ND	ug/l	2600					
2,4,6-Trichlorophenol	ND	ug/l	260					
p-Chloro-m-cresol	ND	ug/l	260					
2-Chlorophenol	ND	ug/l	310					
2,4-Dichlorophenol	ND	ug/l	520					
2,4-Dimethylphenol	ND	ug/l	520					
2-Nitrophenol	ND	ug/l	1000					
4-Nitrophenol	ND	ug/l	520					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0202463-04
97B-B617-OW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1	8270C	0314 10:50	0320 02:00	HL
2,4-Dinitrophenol	ND	ug/l	1000					
4,6-Dinitro-o-cresol	ND	ug/l	1000					
Pentachlorophenol	ND	ug/l	1000					
Phenol	ND	ug/l	360					
2-Methylphenol	ND	ug/l	310					
3-Methylphenol/4-Methylphenol	ND	ug/l	310					
2,4,5-Trichlorophenol	ND	ug/l	260					
2,6-Dichlorophenol	ND	ug/l	520					
Benzoic Acid	ND	ug/l	2600					
Benzyl Alcohol	ND	ug/l	520					
Carbazole	ND	ug/l	260					
Pyridine	ND	ug/l	2600					
2-Picoline	ND	ug/l	1000					
Pronamide	ND	ug/l	1000					
Methyl methanesulfonate	ND	ug/l	1000					
Surrogate Recovery								
2-Fluorophenol	56.0	%						
Phenol-d6	31.0	%						
Nitrobenzene-d5	81.0	%						
2-Fluorobiphenyl	105.	%						
2,4,6-Tribromophenol	99.0	%						
4-Terphenyl-d14	88.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0202463-05
97B-B627-OW
Sample Matrix: WATER

Date Collected: 12-MAR-2002 08:35
Date Received : 13-MAR-2002
Date Reported : 20-MAR-2002

Condition of Sample: Satisfactory

Field Prep: field filtered

Number & Type of Containers: 3-Amber,4-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Cyanide, Total	0.122	mg/l	0.005	1	9010B	0314 15:25	0315 14:40	ED
Cyanide, Physiologically Available	0.015	mg/l	0.005	45		0314 11:00	0315 15:04	ED
Fluoride	ND	mg/l	0.20	30	4500F-BC	0318 09:40	0318 17:15	MA
Dissolved Metals								
Arsenic, Dissolved	ND	mg/l	0.010	1	6010B		0316 01:12	RW
Barium, Dissolved	0.12	mg/l	0.01	1	6010B		0316 01:12	RW
Cadmium, Dissolved	ND	mg/l	0.005	1	6010B		0316 01:12	RW
Chromium, Dissolved	ND	mg/l	0.01	1	6010B		0316 01:12	RW
Lead, Dissolved	ND	mg/l	0.010	1	6010B		0316 01:12	RW
Mercury, Dissolved	ND	mg/l	0.0005	1	7470A	0318 12:10	0319 10:29	DM
Selenium, Dissolved	ND	mg/l	0.020	1	6010B		0316 01:12	RW
Silver, Dissolved	ND	mg/l	0.007	1	6010B		0318 15:52	RW
Volatile Organics by GC/MS 8260				1	8260B		0320 09:18	RY
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	0.50					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0202463-05
97B-B627-OW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		0320 09:18	RY
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	0.52	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	ND	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	ND	ug/l	1.0					
p/m-Xylene	ND	ug/l	0.50					
o-Xylene	ND	ug/l	0.50					
cis-1,2-Dichloroethene	ND	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,4-Dichlorobutane	ND	ug/l	5.0					
Iodomethane	ND	ug/l	5.0					
1,2,3-Trichloropropane	ND	ug/l	5.0					
Styrene	ND	ug/l	0.50					
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
Vinyl acetate	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Ethyl methacrylate	ND	ug/l	5.0					
Acrolein	ND	ug/l	12.					
Acrylonitrile	ND	ug/l	5.0					
Bromochloromethane	ND	ug/l	2.5					
Tetrahydrofuran	ND	ug/l	10.					
2,2-Dichloropropane	ND	ug/l	2.5					
1,2-Dibromoethane	ND	ug/l	2.5					
1,3-Dichloropropane	ND	ug/l	2.5					
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50					
Bromobenzene	ND	ug/l	2.5					
n-Butylbenzene	ND	ug/l	0.50					
sec-Butylbenzene	ND	ug/l	0.50					
tert-Butylbenzene	ND	ug/l	2.5					
o-Chlorotoluene	ND	ug/l	2.5					
p-Chlorotoluene	ND	ug/l	2.5					
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	2.5					
Isopropylbenzene	ND	ug/l	0.50					
p-Isopropyltoluene	ND	ug/l	0.50					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0202463-05
97B-B627-OW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		0320 09:18	RY
Naphthalene	ND	ug/l	2.5					
n-Propylbenzene	ND	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					
Surrogate Recovery								
1,2-Dichloroethane-d4	97.0	%						
Toluene-d8	98.0	%						
4-Bromofluorobenzene	99.0	%						
Dibromofluoromethane	95.0	%						
SVOC's by GC/MS 8270				1	8270C	0314 10:50	0320 02:47	HL
Acenaphthene	ND	ug/l	5.1					
Benzidine	ND	ug/l	51.					
1,2,4-Trichlorobenzene	ND	ug/l	5.1					
Hexachlorobenzene	ND	ug/l	5.1					
Bis(2-chloroethyl)ether	ND	ug/l	5.1					
1-Chloronaphthalene	ND	ug/l	5.1					
2-Chloronaphthalene	ND	ug/l	6.1					
1,2-Dichlorobenzene	ND	ug/l	5.1					
1,3-Dichlorobenzene	ND	ug/l	5.1					
1,4-Dichlorobenzene	ND	ug/l	5.1					
3,3'-Dichlorobenzidine	ND	ug/l	51.					
2,4-Dinitrotoluene	ND	ug/l	6.1					
2,6-Dinitrotoluene	ND	ug/l	5.1					
Azobenzene	ND	ug/l	5.1					
Fluoranthene	ND	ug/l	5.1					
4-Chlorophenyl phenyl ether	ND	ug/l	5.1					
4-Bromophenyl phenyl ether	ND	ug/l	5.1					
Bis(2-chloroisopropyl)ether	ND	ug/l	5.1					
Bis(2-chloroethoxy)methane	ND	ug/l	5.1					
Hexachlorobutadiene	ND	ug/l	10.					
Hexachlorocyclopentadiene	ND	ug/l	10.					
Hexachloroethane	ND	ug/l	5.1					
Isophorone	ND	ug/l	5.1					
Naphthalene	ND	ug/l	5.1					
Nitrobenzene	ND	ug/l	5.1					
NDPA/DPA	ND	ug/l	15.					
n-Nitrosodi-n-propylamine	ND	ug/l	5.1					
Bis(2-ethylhexyl)phthalate	ND	ug/l	10.					
Butyl benzyl phthalate	ND	ug/l	5.1					
Di-n-butylphthalate	ND	ug/l	5.1					
Di-n-octylphthalate	ND	ug/l	5.1					
Diethyl phthalate	ND	ug/l	5.1					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0202463-05
97B-B627-OW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1	8270C	0314 10:50	0320 02:47	HL
Dimethyl phthalate	ND	ug/l	5.1					
Benzo(a)anthracene	ND	ug/l	5.1					
Benzo(a)pyrene	ND	ug/l	5.1					
Benzo(b)fluoranthene	ND	ug/l	5.1					
Benzo(k)fluoranthene	ND	ug/l	5.1					
Chrysene	ND	ug/l	5.1					
Acenaphthylene	ND	ug/l	5.1					
Anthracene	ND	ug/l	5.1					
Benzo(ghi)perylene	ND	ug/l	5.1					
Fluorene	ND	ug/l	5.1					
Phenanthrene	ND	ug/l	5.1					
Dibenzo(a,h)anthracene	ND	ug/l	5.1					
Indeno(1,2,3-cd)pyrene	ND	ug/l	7.1					
Pyrene	ND	ug/l	5.1					
Benzo(e)pyrene	ND	ug/l	5.1					
Biphenyl	ND	ug/l	5.1					
Perylene	ND	ug/l	5.1					
Aniline	ND	ug/l	10.					
4-Chloroaniline	ND	ug/l	5.1					
1-Methylnaphthalene	ND	ug/l	5.1					
2-Nitroaniline	ND	ug/l	5.1					
3-Nitroaniline	ND	ug/l	5.1					
4-Nitroaniline	ND	ug/l	7.1					
Dibenzofuran	ND	ug/l	5.1					
a,a-Dimethylphenethylamine	ND	ug/l	51.					
Hexachloropropene	ND	ug/l	51.					
Nitrosodi-n-butylamine	ND	ug/l	10.					
2-Methylnaphthalene	ND	ug/l	8.2					
1,2,4,5-Tetrachlorobenzene	ND	ug/l	20.					
Pentachlorobenzene	ND	ug/l	20.					
a-Naphthylamine	ND	ug/l	20.					
b-Naphthylamine	ND	ug/l	20.					
Phenacetin	ND	ug/l	10.					
Dimethoate	ND	ug/l	20.					
4-Aminobiphenyl	ND	ug/l	10.					
Pentachloronitrobenzene	ND	ug/l	10.					
Isodrin	ND	ug/l	10.					
p-Dimethylaminoazobenzene	ND	ug/l	10.					
Chlorobenzilate	ND	ug/l	20.					
3-Methylcholanthrene	ND	ug/l	20.					
Ethyl Methanesulfonate	ND	ug/l	15.					
Acetophenone	ND	ug/l	20.					
Nitrosodipiperidine	ND	ug/l	20.					
7,12-Dimethylbenz(a)anthracene	ND	ug/l	10.					
n-Nitrosodimethylamine	ND	ug/l	51.					
2,4,6-Trichlorophenol	ND	ug/l	5.1					
p-Chloro-m-cresol	ND	ug/l	5.1					
2-Chlorophenol	ND	ug/l	6.1					
2,4-Dichlorophenol	ND	ug/l	10.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0202463-05
97B-B627-OW

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1 8270C	0314 10:50	0320 02:47	HL
2,4-Dimethylphenol	ND	ug/l	10.				
2-Nitrophenol	ND	ug/l	20.				
4-Nitrophenol	ND	ug/l	10.				
2,4-Dinitrophenol	ND	ug/l	20.				
4,6-Dinitro-o-cresol	ND	ug/l	20.				
Pentachlorophenol	ND	ug/l	20.				
Phenol	ND	ug/l	7.1				
2-Methylphenol	ND	ug/l	6.1				
3-Methylphenol/4-Methylphenol	ND	ug/l	6.1				
2,4,5-Trichlorophenol	ND	ug/l	5.1				
2,6-Dichlorophenol	ND	ug/l	10.				
Benzoic Acid	ND	ug/l	51.				
Benzyl Alcohol	ND	ug/l	10.				
Carbazole	ND	ug/l	5.1				
Pyridine	ND	ug/l	51.				
2-Picoline	ND	ug/l	20.				
Pronamide	ND	ug/l	20.				
Methyl methanesulfonate	ND	ug/l	20.				
Surrogate Recovery							
2-Fluorophenol	49.0	%					
Phenol-d6	31.0	%					
Nitrobenzene-d5	80.0	%					
2-Fluorobiphenyl	94.0	%					
2,4,6-Tribromophenol	100.	%					
4-Terphenyl-d14	98.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0202463-06
97B-B628-OW
Sample Matrix: WATER

Date Collected: 12-MAR-2002 09:15
Date Received : 13-MAR-2002
Date Reported : 20-MAR-2002

Condition of Sample: Satisfactory

Field Prep: field filtered

Number & Type of Containers: 3-Amber,4-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Cyanide, Total	1.21	mg/l	0.050	1	9010B	0314 15:25	0315 14:28	ED
Cyanide, Physiologically Available	0.358	mg/l	0.005	45		0314 11:00	0315 15:04	ED
Fluoride	0.22	mg/l	0.20	30	4500F-BC	0318 09:40	0318 17:15	MA
Dissolved Metals								
Arsenic, Dissolved	ND	mg/l	0.010	1	6010B		0316 01:18	RW
Barium, Dissolved	0.02	mg/l	0.01	1	6010B		0316 01:18	RW
Cadmium, Dissolved	ND	mg/l	0.005	1	6010B		0316 01:18	RW
Chromium, Dissolved	ND	mg/l	0.01	1	6010B		0316 01:18	RW
Lead, Dissolved	ND	mg/l	0.010	1	6010B		0316 01:18	RW
Mercury, Dissolved	ND	mg/l	0.0005	1	7470A	0318 12:10	0319 10:31	DM
Selenium, Dissolved	ND	mg/l	0.020	1	6010B		0316 01:18	RW
Silver, Dissolved	ND	mg/l	0.007	1	6010B		0318 16:11	RW
Volatile Organics by GC/MS 8260				1	8260B		0319 21:01	RY
Methylene chloride	ND	ug/l	50.					
1,1-Dichloroethane	ND	ug/l	7.5					
Chloroform	ND	ug/l	7.5					
Carbon tetrachloride	ND	ug/l	5.0					
1,2-Dichloropropane	ND	ug/l	18.					
Dibromochloromethane	ND	ug/l	5.0					
1,1,2-Trichloroethane	ND	ug/l	7.5					
Tetrachloroethene	ND	ug/l	5.0					
Chlorobenzene	ND	ug/l	5.0					
Trichlorofluoromethane	ND	ug/l	25.					
1,2-Dichloroethane	ND	ug/l	5.0					
1,1,1-Trichloroethane	ND	ug/l	5.0					
Bromodichloromethane	ND	ug/l	5.0					
trans-1,3-Dichloropropene	ND	ug/l	5.0					
cis-1,3-Dichloropropene	ND	ug/l	5.0					
1,1-Dichloropropene	ND	ug/l	25.					
Bromoform	ND	ug/l	5.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0202463-06
97B-B628-OW

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1 8260B		0319 21:01	RY
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0				
Benzene	10.	ug/l	5.0				
Toluene	ND	ug/l	7.5				
Ethylbenzene	9.7	ug/l	5.0				
Chloromethane	ND	ug/l	25.				
Bromomethane	ND	ug/l	10.				
Vinyl chloride	ND	ug/l	10.				
Chloroethane	ND	ug/l	10.				
1,1-Dichloroethene	ND	ug/l	5.0				
trans-1,2-Dichloroethene	ND	ug/l	7.5				
Trichloroethene	ND	ug/l	5.0				
1,2-Dichlorobenzene	ND	ug/l	25.				
1,3-Dichlorobenzene	ND	ug/l	25.				
1,4-Dichlorobenzene	ND	ug/l	25.				
Methyl tert butyl ether	ND	ug/l	10.				
p/m-Xylene	ND	ug/l	5.0				
o-Xylene	ND	ug/l	5.0				
cis-1,2-Dichloroethene	ND	ug/l	5.0				
Dibromomethane	ND	ug/l	50.				
1,4-Dichlorobutane	ND	ug/l	50.				
Iodomethane	ND	ug/l	50.				
1,2,3-Trichloropropane	ND	ug/l	50.				
Styrene	ND	ug/l	5.0				
Dichlorodifluoromethane	ND	ug/l	50.				
Acetone	ND	ug/l	50.				
Carbon disulfide	ND	ug/l	50.				
2-Butanone	ND	ug/l	50.				
Vinyl acetate	ND	ug/l	50.				
4-Methyl-2-pentanone	ND	ug/l	50.				
2-Hexanone	ND	ug/l	50.				
Ethyl methacrylate	ND	ug/l	50.				
Acrolein	ND	ug/l	120				
Acrylonitrile	ND	ug/l	50.				
Bromochloromethane	ND	ug/l	25.				
Tetrahydrofuran	ND	ug/l	100				
2,2-Dichloropropane	ND	ug/l	25.				
1,2-Dibromoethane	ND	ug/l	25.				
1,3-Dichloropropane	ND	ug/l	25.				
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0				
Bromobenzene	ND	ug/l	25.				
n-Butylbenzene	ND	ug/l	5.0				
sec-Butylbenzene	ND	ug/l	5.0				
tert-Butylbenzene	ND	ug/l	25.				
o-Chlorotoluene	ND	ug/l	25.				
p-Chlorotoluene	ND	ug/l	25.				
1,2-Dibromo-3-chloropropane	ND	ug/l	25.				
Hexachlorobutadiene	ND	ug/l	25.				
Isopropylbenzene	ND	ug/l	5.0				
p-Isopropyltoluene	ND	ug/l	5.0				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0202463-06
97B-B628-OW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		0319 21:01	RY
Naphthalene	540	ug/l	25.					
n-Propylbenzene	ND	ug/l	5.0					
1,2,3-Trichlorobenzene	ND	ug/l	25.					
1,2,4-Trichlorobenzene	ND	ug/l	25.					
1,3,5-Trimethylbenzene	ND	ug/l	25.					
1,2,4-Trimethylbenzene	ND	ug/l	25.					
trans-1,4-Dichloro-2-butene	ND	ug/l	25.					
Ethyl ether	ND	ug/l	25.					
Surrogate Recovery								
1,2-Dichloroethane-d4	94.0	%						
Toluene-d8	97.0	%						
4-Bromofluorobenzene	101.	%						
Dibromofluoromethane	97.0	%						
SVOC's by GC/MS 8270				1	8270C	0314 10:50	0320 03:34	HL
Acenaphthene	ND	ug/l	52.					
Benzidine	ND	ug/l	520					
1,2,4-Trichlorobenzene	ND	ug/l	52.					
Hexachlorobenzene	ND	ug/l	52.					
Bis(2-chloroethyl)ether	ND	ug/l	52.					
1-Chloronaphthalene	ND	ug/l	52.					
2-Chloronaphthalene	ND	ug/l	62.					
1,2-Dichlorobenzene	ND	ug/l	52.					
1,3-Dichlorobenzene	ND	ug/l	52.					
1,4-Dichlorobenzene	ND	ug/l	52.					
3,3'-Dichlorobenzidine	ND	ug/l	520					
2,4-Dinitrotoluene	ND	ug/l	62.					
2,6-Dinitrotoluene	ND	ug/l	52.					
Azobenzene	ND	ug/l	52.					
Fluoranthene	ND	ug/l	52.					
4-Chlorophenyl phenyl ether	ND	ug/l	52.					
4-Bromophenyl phenyl ether	ND	ug/l	52.					
Bis(2-chloroisopropyl)ether	ND	ug/l	52.					
Bis(2-chloroethoxy)methane	ND	ug/l	52.					
Hexachlorobutadiene	ND	ug/l	100					
Hexachlorocyclopentadiene	ND	ug/l	100					
Hexachloroethane	ND	ug/l	52.					
Isophorone	ND	ug/l	52.					
Naphthalene	390	ug/l	52.					
Nitrobenzene	ND	ug/l	52.					
NDPA/DPA	ND	ug/l	150					
n-Nitrosodi-n-propylamine	ND	ug/l	52.					
Bis(2-ethylhexyl)phthalate	ND	ug/l	100					
Butyl benzyl phthalate	ND	ug/l	52.					
Di-n-butylphthalate	ND	ug/l	52.					
Di-n-octylphthalate	ND	ug/l	52.					
Diethyl phthalate	ND	ug/l	52.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0202463-06
97B-B628-OW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1	8270C	0314 10:50	0320 03:34	HL
Dimethyl phthalate	ND	ug/l	52.					
Benzo(a)anthracene	ND	ug/l	52.					
Benzo(a)pyrene	ND	ug/l	52.					
Benzo(b)fluoranthene	ND	ug/l	52.					
Benzo(k)fluoranthene	ND	ug/l	52.					
Chrysene	ND	ug/l	52.					
Acenaphthylene	ND	ug/l	52.					
Anthracene	ND	ug/l	52.					
Benzo(ghi)perylene	ND	ug/l	52.					
Fluorene	ND	ug/l	52.					
Phenanthrene	ND	ug/l	52.					
Dibenzo(a,h)anthracene	ND	ug/l	52.					
Indeno(1,2,3-cd)pyrene	ND	ug/l	72.					
Pyrene	ND	ug/l	52.					
Benzo(e)pyrene	ND	ug/l	52.					
Biphenyl	ND	ug/l	52.					
Perylene	ND	ug/l	52.					
Aniline	ND	ug/l	100					
4-Chloroaniline	ND	ug/l	52.					
1-Methylnaphthalene	ND	ug/l	52.					
2-Nitroaniline	ND	ug/l	52.					
3-Nitroaniline	ND	ug/l	52.					
4-Nitroaniline	ND	ug/l	72.					
Dibenzofuran	ND	ug/l	52.					
a,a-Dimethylphenethylamine	ND	ug/l	520					
Hexachloropropene	ND	ug/l	520					
Nitrosodi-n-butylamine	ND	ug/l	100					
2-Methylnaphthalene	ND	ug/l	82.					
1,2,4,5-Tetrachlorobenzene	ND	ug/l	210					
Pentachlorobenzene	ND	ug/l	210					
a-Naphthylamine	ND	ug/l	210					
b-Naphthylamine	ND	ug/l	210					
Phenacetin	ND	ug/l	100					
Dimethoate	ND	ug/l	210					
4-Aminobiphenyl	ND	ug/l	100					
Pentachloronitrobenzene	ND	ug/l	100					
Isodrin	ND	ug/l	100					
p-Dimethylaminoazobenzene	ND	ug/l	100					
Chlorobenzilate	ND	ug/l	210					
3-Methylcholanthrene	ND	ug/l	210					
Ethyl Methanesulfonate	ND	ug/l	150					
Acetophenone	ND	ug/l	210					
Nitrosodipiperidine	ND	ug/l	210					
7,12-Dimethylbenz(a)anthracene	ND	ug/l	100					
n-Nitrosodimethylamine	ND	ug/l	520					
2,4,6-Trichlorophenol	ND	ug/l	52.					
p-Chloro-m-cresol	ND	ug/l	52.					
2-Chlorophenol	ND	ug/l	62.					
2,4-Dichlorophenol	ND	ug/l	100					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0202463-06
97B-B628-OW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1	8270C	0314 10:50	0320 03:34	HL
2,4-Dimethylphenol	ND	ug/l	100					
2-Nitrophenol	ND	ug/l	210					
4-Nitrophenol	ND	ug/l	100					
2,4-Dinitrophenol	ND	ug/l	210					
4,6-Dinitro-o-cresol	ND	ug/l	210					
Pentachlorophenol	ND	ug/l	210					
Phenol	ND	ug/l	72.					
2-Methylphenol	ND	ug/l	62.					
3-Methylphenol/4-Methylphenol	ND	ug/l	62.					
2,4,5-Trichlorophenol	ND	ug/l	52.					
2,6-Dichlorophenol	ND	ug/l	100					
Benzoic Acid	ND	ug/l	520					
Benzyl Alcohol	ND	ug/l	100					
Carbazole	ND	ug/l	52.					
Pyridine	ND	ug/l	520					
2-Picoline	ND	ug/l	210					
Pronamide	ND	ug/l	210					
Methyl methanesulfonate	ND	ug/l	210					
Surrogate Recovery								
2-Fluorophenol	46.0	%						
Phenol-d6	28.0	%						
Nitrobenzene-d5	75.0	%						
2-Fluorobiphenyl	90.0	%						
2,4,6-Tribromophenol	92.0	%						
4-Terphenyl-d14	89.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0202463-07
GP98-103-OW
Sample Matrix: WATER

Date Collected: 12-MAR-2002 11:55
Date Received : 13-MAR-2002
Date Reported : 20-MAR-2002

Condition of Sample: Satisfactory

Field Prep: field filtered

Number & Type of Containers: 3-Amber,3-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Cyanide, Total	ND	mg/l	0.005	1	9010B	0314 15:25	0315 14:38	ED
Dissolved Metals								
Arsenic, Dissolved	ND	mg/l	0.010	1	6010B		0316 01:26	RW
Barium, Dissolved	0.02	mg/l	0.01	1	6010B		0316 01:26	RW
Cadmium, Dissolved	ND	mg/l	0.005	1	6010B		0316 01:26	RW
Chromium, Dissolved	ND	mg/l	0.01	1	6010B		0316 01:26	RW
Lead, Dissolved	ND	mg/l	0.010	1	6010B		0316 01:26	RW
Mercury, Dissolved	ND	mg/l	0.0005	1	7470A	0318 12:10	0319 10:32	DM
Selenium, Dissolved	ND	mg/l	0.020	1	6010B		0316 01:26	RW
Silver, Dissolved	ND	mg/l	0.007	1	6010B		0318 16:16	RW
Volatile Organics by GC/MS 8260				1	8260B		0319 18:09	RY
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	0.50					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					
Vinyl chloride	ND	ug/l	1.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0202463-07
GP98-103-OW

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1 8260B		0319 18:09 RY	
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.5				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	2.5				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0202463-07
GP98-103-OW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		0319 18:09	RY
Ethyl ether	ND	ug/l	2.5					
Surrogate Recovery								
1,2-Dichloroethane-d4	102.	%						
Toluene-d8	98.0	%						
4-Bromofluorobenzene	99.0	%						
Dibromofluoromethane	101.	%						
SVOC's by GC/MS 8270				1	8270C	0314 10:50	0320 04:22	HL
Acenaphthene	ND	ug/l	5.0					
Benzidine	ND	ug/l	50.					
1,2,4-Trichlorobenzene	ND	ug/l	5.0					
Hexachlorobenzene	ND	ug/l	5.0					
Bis(2-chloroethyl)ether	ND	ug/l	5.0					
1-Chloronaphthalene	ND	ug/l	5.0					
2-Chloronaphthalene	ND	ug/l	6.0					
1,2-Dichlorobenzene	ND	ug/l	5.0					
1,3-Dichlorobenzene	ND	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	5.0					
3,3'-Dichlorobenzidine	ND	ug/l	50.					
2,4-Dinitrotoluene	ND	ug/l	6.0					
2,6-Dinitrotoluene	ND	ug/l	5.0					
Azobenzene	ND	ug/l	5.0					
Fluoranthene	ND	ug/l	5.0					
4-Chlorophenyl phenyl ether	ND	ug/l	5.0					
4-Bromophenyl phenyl ether	ND	ug/l	5.0					
Bis(2-chloroisopropyl)ether	ND	ug/l	5.0					
Bis(2-chloroethoxy)methane	ND	ug/l	5.0					
Hexachlorobutadiene	ND	ug/l	10.					
Hexachlorocyclopentadiene	ND	ug/l	10.					
Hexachloroethane	ND	ug/l	5.0					
Isophorone	ND	ug/l	5.0					
Naphthalene	ND	ug/l	5.0					
Nitrobenzene	ND	ug/l	5.0					
NDPA/DPA	ND	ug/l	15.					
n-Nitrosodi-n-propylamine	ND	ug/l	5.0					
Bis(2-ethylhexyl)phthalate	ND	ug/l	10.					
Butyl benzyl phthalate	ND	ug/l	5.0					
Di-n-butylphthalate	ND	ug/l	5.0					
Di-n-octylphthalate	ND	ug/l	5.0					
Diethyl phthalate	ND	ug/l	5.0					
Dimethyl phthalate	ND	ug/l	5.0					
Benzo(a)anthracene	ND	ug/l	5.0					
Benzo(a)pyrene	ND	ug/l	5.0					
Benzo(b)fluoranthene	ND	ug/l	5.0					
Benzo(k)fluoranthene	ND	ug/l	5.0					
Chrysene	ND	ug/l	5.0					
Acenaphthylene	ND	ug/l	5.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0202463-07
GP98-103-OW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1	8270C	0314 10:50	0320 04:22	HL
Anthracene	ND	ug/l	5.0					
Benzo(ghi)perylene	ND	ug/l	5.0					
Fluorene	ND	ug/l	5.0					
Phenanthrene	ND	ug/l	5.0					
Dibenzo(a,h)anthracene	ND	ug/l	5.0					
Indeno(1,2,3-cd)pyrene	ND	ug/l	7.0					
Pyrene	ND	ug/l	5.0					
Benzo(e)pyrene	ND	ug/l	5.0					
Biphenyl	ND	ug/l	5.0					
Perylene	ND	ug/l	5.0					
Aniline	ND	ug/l	10.					
4-Chloroaniline	ND	ug/l	5.0					
1-Methylnaphthalene	ND	ug/l	5.0					
2-Nitroaniline	ND	ug/l	5.0					
3-Nitroaniline	ND	ug/l	5.0					
4-Nitroaniline	ND	ug/l	7.0					
Dibenzofuran	ND	ug/l	5.0					
a,a-Dimethylphenethylamine	ND	ug/l	50.					
Hexachloropropene	ND	ug/l	50.					
Nitrosodi-n-butylamine	ND	ug/l	10.					
2-Methylnaphthalene	ND	ug/l	8.0					
1,2,4,5-Tetrachlorobenzene	ND	ug/l	20.					
Pentachlorobenzene	ND	ug/l	20.					
a-Naphthylamine	ND	ug/l	20.					
b-Naphthylamine	ND	ug/l	20.					
Phenacetin	ND	ug/l	10.					
Dimethoate	ND	ug/l	20.					
4-Aminobiphenyl	ND	ug/l	10.					
Pentachloronitrobenzene	ND	ug/l	10.					
Isodrin	ND	ug/l	10.					
p-Dimethylaminoazobenzene	ND	ug/l	10.					
Chlorobenzilate	ND	ug/l	20.					
3-Methylcholanthrene	ND	ug/l	20.					
Ethyl Methanesulfonate	ND	ug/l	15.					
Acetophenone	ND	ug/l	20.					
Nitrosodipiperidine	ND	ug/l	20.					
7,12-Dimethylbenz(a)anthracene	ND	ug/l	10.					
n-Nitrosodimethylamine	ND	ug/l	50.					
2,4,6-Trichlorophenol	ND	ug/l	5.0					
p-Chloro-m-cresol	ND	ug/l	5.0					
2-Chlorophenol	ND	ug/l	6.0					
2,4-Dichlorophenol	ND	ug/l	10.					
2,4-Dimethylphenol	ND	ug/l	10.					
2-Nitrophenol	ND	ug/l	20.					
4-Nitrophenol	ND	ug/l	10.					
2,4-Dinitrophenol	ND	ug/l	20.					
4,6-Dinitro-o-cresol	ND	ug/l	20.					
Pentachlorophenol	ND	ug/l	20.					
Phenol	ND	ug/l	7.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0202463-07
GP98-103-OW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1	8270C	0314 10:50	0320 04:22	HL
2-Methylphenol	ND	ug/l	6.0					
3-Methylphenol/4-Methylphenol	ND	ug/l	6.0					
2,4,5-Trichlorophenol	ND	ug/l	5.0					
2,6-Dichlorophenol	ND	ug/l	10.					
Benzoic Acid	ND	ug/l	50.					
Benzyl Alcohol	ND	ug/l	10.					
Carbazole	ND	ug/l	5.0					
Pyridine	ND	ug/l	50.					
2-Picoline	ND	ug/l	20.					
Pronamide	ND	ug/l	20.					
Methyl methanesulfonate	ND	ug/l	20.					
Surrogate Recovery								
2-Fluorophenol	55.0	%						
Phenol-d6	34.0	%						
Nitrobenzene-d5	88.0	%						
2-Fluorobiphenyl	98.0	%						
2,4,6-Tribromophenol	100.	%						
4-Terphenyl-d14	94.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0202463-08
TRIP BLANK
Sample Matrix: WATER

Date Collected: 07-MAR-2002 16:45
Date Received : 13-MAR-2002
Date Reported : 20-MAR-2002

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF MRTHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260				1 8260B		0319 17:29	RY
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	ND	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	2.5				
Bromoform	ND	ug/l	0.50				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.75				
Ethylbenzene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0202463-08
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PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1 8260B		0319 17:29	RY
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.5				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	2.5				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Surrogate Recovery							
1,2-Dichloroethane-d4	100.	%					
Toluene-d8	94.0	%					
4-Bromofluorobenzene	101.	%					
Dibromofluoromethane	98.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0202463

Parameter	Value 1	Value 2	RPD	Units
Cyanide, Total for sample(s) 01-07 (L0202463-07, WG107590)				
Cyanide, Total	ND	ND	NC	mg/l
Cyanide, Physiologically Available for sample(s) 01-06 (L0202411-04, WG107561)				
Cyanide, Physiologically Available	0.076	0.071	7	mg/l
Fluoride for sample(s) 05-06 (L0202362-03, WG107888)				
Fluoride	1.2	1.2	0	mg/l
Dissolved Metals for sample(s) 01-07 (L0202411-01, WG107539)				
Arsenic, Dissolved	0.025	0.025	4	mg/l
Barium, Dissolved	0.08	0.08	0	mg/l
Cadmium, Dissolved	ND	ND	NC	mg/l
Chromium, Dissolved	ND	ND	NC	mg/l
Lead, Dissolved	ND	ND	NC	mg/l
Selenium, Dissolved	ND	ND	NC	mg/l
Silver, Dissolved	ND	ND	NC	mg/l
Dissolved Metals for sample(s) 01-07 (L0202411-01, WG107870)				
Mercury, Dissolved	ND	ND	NC	mg/l

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0202463

Parameter	% Recovery
Cyanide, Total LCS for sample(s) 01-07 (WG107590)	
Cyanide, Total	101
Cyanide, Physiologically Available LCS for sample(s) 01-06 (WG107561)	
Cyanide, Physiologically Available	106
Fluoride LCS for sample(s) 05-06 (WG107888)	
Fluoride	94
Dissolved Metals LCS for sample(s) 01-07 (WG107870)	
Mercury, Dissolved	118
Volatile Organics by GC/MS 8260 LCS for sample(s) 02 (WG107928)	
Chlorobenzene	97
Benzene	102
Toluene	99
1,1-Dichloroethene	101
Trichloroethene	104
Surrogate Recovery	
1,2-Dichloroethane-d4	96
Toluene-d8	97
4-Bromofluorobenzene	98
Dibromofluoromethane	96
SVOC's by GC/MS 8270 LCS for sample(s) 02 (WG107928)	
Chlorobenzene	97
Benzene	102
Toluene	99
1,1-Dichloroethene	101
Trichloroethene	104
Surrogate Recovery	
1,2-Dichloroethane-d4	96
Toluene-d8	97
4-Bromofluorobenzene	98
Dibromofluoromethane	96
Volatile Organics by GC/MS 8260 LCS for sample(s) 05 (WG107928)	
Chlorobenzene	89
Benzene	93
Toluene	94
1,1-Dichloroethene	93
Trichloroethene	98
Surrogate Recovery	
1,2-Dichloroethane-d4	99
Toluene-d8	97
4-Bromofluorobenzene	102

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0202463

Continued

Parameter	% Recovery
Volatile Organics by GC/MS 8260 LCS for sample(s) 05 (WG107928)	
Dibromofluoromethane	97
SVOC's by GC/MS 8270 LCS for sample(s) 05 (WG107928)	
Chlorobenzene	89
Benzene	93
Toluene	94
1,1-Dichloroethene	93
Trichloroethene	98
Surrogate Recovery	
1,2-Dichloroethane-d4	99
Toluene-d8	97
4-Bromofluorobenzene	102
Dibromofluoromethane	97
Volatile Organics by GC/MS 8260 LCS for sample(s) 01 (WG108059)	
Chlorobenzene	89
Benzene	93
Toluene	94
1,1-Dichloroethene	93
Trichloroethene	98
Surrogate Recovery	
1,2-Dichloroethane-d4	99
Toluene-d8	97
4-Bromofluorobenzene	102
Dibromofluoromethane	97
Volatile Organics by GC/MS 8260 LCS for sample(s) 03,06-08 (WG107928)	
Chlorobenzene	96
Benzene	102
Toluene	99
1,1-Dichloroethene	99
Trichloroethene	102
Surrogate Recovery	
1,2-Dichloroethane-d4	98
Toluene-d8	96
4-Bromofluorobenzene	97
Dibromofluoromethane	97
SVOC's by GC/MS 8270 LCS for sample(s) 03,06-08 (WG107928)	
Chlorobenzene	96
Benzene	102
Toluene	99
1,1-Dichloroethene	99
Trichloroethene	102

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0202463

Continued

Parameter	% Recovery
SVOC's by GC/MS 8270 LCS for sample(s) 03,06-08 (WG107928)	
Surrogate Recovery	
1,2-Dichloroethane-d4	98
Toluene-d8	96
4-Bromofluorobenzene	97
Dibromofluoromethane	97
Volatile Organics by GC/MS 8260 LCS for sample(s) 04 (WG107928)	
Chlorobenzene	94
Benzene	114
Toluene	94
1,1-Dichloroethene	100
Trichloroethene	99
Surrogate Recovery	
1,2-Dichloroethane-d4	99
Toluene-d8	96
4-Bromofluorobenzene	98
Dibromofluoromethane	95
SVOC's by GC/MS 8270 LCS for sample(s) 04 (WG107928)	
Chlorobenzene	94
Benzene	114
Toluene	94
1,1-Dichloroethene	100
Trichloroethene	99
Surrogate Recovery	
1,2-Dichloroethane-d4	99
Toluene-d8	96
4-Bromofluorobenzene	98
Dibromofluoromethane	95
SVOC's by GC/MS 8270 LCS for sample(s) 01-07 (WG107584)	
Acenaphthene	88
1,2,4-Trichlorobenzene	75
2-Chloronaphthalene	83
1,2-Dichlorobenzene	73
1,4-Dichlorobenzene	69
2,4-Dinitrotoluene	100
2,6-Dinitrotoluene	100
Fluoranthene	100
4-Chlorophenyl phenyl ether	87
n-Nitrosodi-n-propylamine	77
Butyl benzyl phthalate	100
Anthracene	94
Pyrene	110
Hexachloropropene	58

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0202463

Continued

Parameter	% Recovery
SVOC's by GC/MS 8270 LCS for sample(s) 01-07 (WG107584)	
P-Chloro-M-Cresol	91
2-Chlorophenol	76
2-Nitrophenol	83
4-Nitrophenol	50
2,4-Dinitrophenol	87
Pentachlorophenol	91
Phenol	36
Surrogate Recovery	
2-Fluorophenol	51
Phenol-d6	36
Nitrobenzene-d5	85
2-Fluorobiphenyl	94
2,4,6-Tribromophenol	99
4-Terphenyl-d14	92
Cyanide, Total SPIKE for sample(s) 01-07 (L0202463-07, WG107590)	
Cyanide, Total	102
Fluoride SPIKE for sample(s) 05-06 (L0202362-05, WG107888)	
Fluoride	87
Dissolved Metals SPIKE for sample(s) 01-07 (L0202411-02, WG107539)	
Arsenic, Dissolved	101
Barium, Dissolved	101
Cadmium, Dissolved	102
Chromium, Dissolved	95
Lead, Dissolved	103
Selenium, Dissolved	113
Silver, Dissolved	87
Dissolved Metals SPIKE for sample(s) 01-07 (L0202411-02, WG107870)	
Mercury, Dissolved	132

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0202463

Parameter	MS %	MSD %	RPD
Volatile Organics by GC/MS 8260 for sample(s) 02-08 (L0202453-03, WG107928)			
Chlorobenzene	92	88	5
Benzene	100	102	2
Toluene	98	93	6
1,1-Dichloroethene	106	109	3
Trichloroethene	107	106	1
SVOC's by GC/MS 8270 for sample(s) 02-08 (L0202453-03, WG107928)			
Chlorobenzene	92	88	5
Benzene	100	102	2
Toluene	98	93	6
1,1-Dichloroethene	106	109	3
Trichloroethene	107	106	1
Volatile Organics by GC/MS 8260 for sample(s) 01 (L0202533-01, WG108059)			
Chlorobenzene	84	92	9
Benzene	89	99	10
Toluene	86	98	13
1,1-Dichloroethene	100	109	9
Trichloroethene	99	110	11
SVOC's by GC/MS 8270 for sample(s) 01-07 (L0202463-05, WG107584)			
Acenaphthene	82	86	5
1,2,4-Trichlorobenzene	72	77	7
2-Chloronaphthalene	77	86	11
1,2-Dichlorobenzene	67	77	14
1,4-Dichlorobenzene	67	77	14
2,4-Dinitrotoluene	91	96	5
2,6-Dinitrotoluene	91	91	0
Fluoranthene	91	96	5
4-Chlorophenyl phenyl ether	86	91	6
n-Nitrosodi-n-propylamine	67	77	14
Butyl benzyl phthalate	96	91	5
Anthracene	86	86	0
Pyrene	96	100	4
Hexachloropropene	58	58	0
P-Chloro-M-Cresol	62	60	3
2-Chlorophenol	67	72	7
2-Nitrophenol	74	77	4
4-Nitrophenol	53	55	4
2,4-Dinitrophenol	96	94	2
Pentachlorophenol	89	89	0
Phenol	43	48	11

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0202463

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-07								
Cyanide, Total	ND	mg/l	0.005	1	9010B	0314 15:25	0315 13:41	ED
Blank Analysis for sample(s) 01-06								
Cyanide, Physiologically Available	ND	mg/l	0.005	45		0314 11:00	0315 14:50	ED
Blank Analysis for sample(s) 05-06								
Fluoride	ND	mg/l	0.20	30	4500F-BC	0318 09:40	0318 17:15	MA
Blank Analysis for sample(s) 01-07								
Dissolved Metals								
Mercury, Dissolved	ND	mg/l	0.0005	1	7470A	0318 12:10	0319 09:58	DM
Blank Analysis for sample(s) 02								
Volatile Organics by GC/MS 8260				1	8260B		0318 16:00	RY
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	0.50					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	ND	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0202463

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 02							
Volatile Organics by GC/MS 8260 continued				1 8260B		0318 16:00	RY
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.5				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	2.5				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0202463

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 02								
Volatile Organics by GC/MS 8260 continued				1	8260B		0318 16:00	RY
Surrogate Recovery								
1,2-Dichloroethane-d4	96.0	%						
Toluene-d8	100.	%						
4-Bromofluorobenzene	99.0	%						
Dibromofluoromethane	94.0	%						
Blank Analysis for sample(s) 02								
SVOC's by GC/MS 8270				1	8270C		0318 16:00	RY
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	2.5					
Naphthalene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
Blank Analysis for sample(s) 04								
Volatile Organics by GC/MS 8260				1	8260B		0319 12:28	RY
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	0.50					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	ND	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0202463

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 04							
Volatile Organics by GC/MS 8260 continued				1 8260B		0319 12:28	RY
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.5				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	2.5				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0202463

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 04								
Volatile Organics by GC/MS 8260 continued				1	8260B		0319 12:28	RY
Surrogate Recovery								
1,2-Dichloroethane-d4	96.0	%						
Toluene-d8	95.0	%						
4-Bromofluorobenzene	96.0	%						
Dibromofluoromethane	93.0	%						
Blank Analysis for sample(s) 04								
SVOC's by GC/MS 8270				1	8270C		0319 12:28	RY
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	2.5					
Naphthalene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
Blank Analysis for sample(s) 03,06-08								
Volatile Organics by GC/MS 8260				1	8260B		0319 16:49	RY
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	0.50					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	ND	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0202463

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 03,06-08							
Volatile Organics by GC/MS 8260 continued				1 8260B		0319 16:49	RY
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.5				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	2.5				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

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PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 03,06-08								
Volatile Organics by GC/MS 8260 continued				1	8260B		0319 16:49	RY
Surrogate Recovery								
1,2-Dichloroethane-d4	101.	%						
Toluene-d8	95.0	%						
4-Bromofluorobenzene	94.0	%						
Dibromofluoromethane	94.0	%						
Blank Analysis for sample(s) 03,06-08								
SVOC's by GC/MS 8270				1	8270C		0319 16:49	RY
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	2.5					
Naphthalene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
Blank Analysis for sample(s) 05								
Volatile Organics by GC/MS 8260				1	8260B		0320 07:20	RY
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	0.50					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	ND	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

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Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 05							
Volatile Organics by GC/MS 8260 continued				1 8260B		0320 07:20	RY
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.5				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	2.5				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

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Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 05								
Volatile Organics by GC/MS 8260 continued				1	8260B		0320 07:20	RY
Surrogate Recovery								
1,2-Dichloroethane-d4	103.	%						
Toluene-d8	100.	%						
4-Bromofluorobenzene	99.0	%						
Dibromofluoromethane	97.0	%						
Blank Analysis for sample(s) 05								
SVOC's by GC/MS 8270				1	8270C		0320 07:20	RY
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	2.5					
Naphthalene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
Blank Analysis for sample(s) 01								
Volatile Organics by GC/MS 8260				1	8260B		0320 07:20	RY
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	0.50					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	ND	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					

ALPHA ANALYTICAL LABORATORIES
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Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01							
Volatile Organics by GC/MS 8260 continued				1 8260B		0320 07:20	RY
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.5				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	2.5				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				

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Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01								
Volatile Organics by GC/MS 8260 continued				1	8260B		0320 07:20	RY
Surrogate Recovery								
1,2-Dichloroethane-d4	103.	%						
Toluene-d8	100.	%						
4-Bromofluorobenzene	99.0	%						
Dibromofluoromethane	97.0	%						
Blank Analysis for sample(s) 01-07								
SVOC's by GC/MS 8270				1	8270C	0314 10:50	0319 20:28	HL
Acenaphthene	ND	ug/l	5.0					
Benzidine	ND	ug/l	50.					
1,2,4-Trichlorobenzene	ND	ug/l	5.0					
Hexachlorobenzene	ND	ug/l	5.0					
Bis(2-chloroethyl)ether	ND	ug/l	5.0					
1-Chloronaphthalene	ND	ug/l	5.0					
2-Chloronaphthalene	ND	ug/l	6.0					
1,2-Dichlorobenzene	ND	ug/l	5.0					
1,3-Dichlorobenzene	ND	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	5.0					
3,3'-Dichlorobenzidine	ND	ug/l	50.					
2,4-Dinitrotoluene	ND	ug/l	6.0					
2,6-Dinitrotoluene	ND	ug/l	5.0					
Azobenzene	ND	ug/l	5.0					
Fluoranthene	ND	ug/l	5.0					
4-Chlorophenyl phenyl ether	ND	ug/l	5.0					
4-Bromophenyl phenyl ether	ND	ug/l	5.0					
Bis(2-chloroisopropyl)ether	ND	ug/l	5.0					
Bis(2-chloroethoxy)methane	ND	ug/l	5.0					
Hexachlorobutadiene	ND	ug/l	10.					
Hexachlorocyclopentadiene	ND	ug/l	10.					
Hexachloroethane	ND	ug/l	5.0					
Isophorone	ND	ug/l	5.0					
Naphthalene	ND	ug/l	5.0					
Nitrobenzene	ND	ug/l	5.0					
NDPA/DPA	ND	ug/l	15.					
n-Nitrosodi-n-propylamine	ND	ug/l	5.0					
Bis(2-ethylhexyl)phthalate	ND	ug/l	10.					
Butyl benzyl phthalate	ND	ug/l	5.0					
Di-n-butylphthalate	ND	ug/l	5.0					
Di-n-octylphthalate	ND	ug/l	5.0					
Diethyl phthalate	ND	ug/l	5.0					
Dimethyl phthalate	ND	ug/l	5.0					
Benzo(a)anthracene	ND	ug/l	5.0					
Benzo(a)pyrene	ND	ug/l	5.0					
Benzo(b)fluoranthene	ND	ug/l	5.0					
Benzo(k)fluoranthene	ND	ug/l	5.0					
Chrysene	ND	ug/l	5.0					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0202463

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-07								
SVOC's by GC/MS 8270 continued				1	8270C	0314 10:50	0319 20:28	HL
Acenaphthylene	ND	ug/l	5.0					
Anthracene	ND	ug/l	5.0					
Benzo(ghi)perylene	ND	ug/l	5.0					
Fluorene	ND	ug/l	5.0					
Phenanthrene	ND	ug/l	5.0					
Dibenzo(a,h)anthracene	ND	ug/l	5.0					
Indeno(1,2,3-cd)pyrene	ND	ug/l	7.0					
Pyrene	ND	ug/l	5.0					
Benzo(e)pyrene	ND	ug/l	5.0					
Biphenyl	ND	ug/l	5.0					
Perylene	ND	ug/l	5.0					
Aniline	ND	ug/l	10.					
4-Chloroaniline	ND	ug/l	5.0					
1-Methylnaphthalene	ND	ug/l	5.0					
2-Nitroaniline	ND	ug/l	5.0					
3-Nitroaniline	ND	ug/l	5.0					
4-Nitroaniline	ND	ug/l	7.0					
Dibenzofuran	ND	ug/l	5.0					
a,a-Dimethylphenethylamine	ND	ug/l	50.					
Hexachloropropene	ND	ug/l	50.					
Nitrosodi-n-butylamine	ND	ug/l	10.					
2-Methylnaphthalene	ND	ug/l	8.0					
1,2,4,5-Tetrachlorobenzene	ND	ug/l	20.					
Pentachlorobenzene	ND	ug/l	20.					
a-Naphthylamine	ND	ug/l	20.					
b-Naphthylamine	ND	ug/l	20.					
Phenacetin	ND	ug/l	10.					
Dimethoate	ND	ug/l	20.					
4-Aminobiphenyl	ND	ug/l	10.					
Pentachloronitrobenzene	ND	ug/l	10.					
Isodrin	ND	ug/l	10.					
p-Dimethylaminoazobenzene	ND	ug/l	10.					
Chlorobenzilate	ND	ug/l	20.					
3-Methylcholanthrene	ND	ug/l	20.					
Ethyl Methanesulfonate	ND	ug/l	15.					
Acetophenone	ND	ug/l	20.					
Nitrosodipiperidine	ND	ug/l	20.					
7,12-Dimethylbenz(a)anthracene	ND	ug/l	10.					
n-Nitrosodimethylamine	ND	ug/l	50.					
2,4,6-Trichlorophenol	ND	ug/l	5.0					
p-Chloro-m-cresol	ND	ug/l	5.0					
2-Chlorophenol	ND	ug/l	6.0					
2,4-Dichlorophenol	ND	ug/l	10.					
2,4-Dimethylphenol	ND	ug/l	10.					
2-Nitrophenol	ND	ug/l	20.					
4-Nitrophenol	ND	ug/l	10.					
2,4-Dinitrophenol	ND	ug/l	20.					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0202463

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-07							
SVOC's by GC/MS 8270 continued				1 8270C	0314 10:50	0319 20:28	ML
4,6-Dinitro-o-cresol	ND	ug/l	20.				
Pentachlorophenol	ND	ug/l	20.				
Phenol	ND	ug/l	7.0				
2-Methylphenol	ND	ug/l	6.0				
3-Methylphenol/4-Methylphenol	ND	ug/l	6.0				
2,4,5-Trichlorophenol	ND	ug/l	5.0				
2,6-Dichlorophenol	ND	ug/l	10.				
Benzoic Acid	ND	ug/l	50.				
Benzyl Alcohol	ND	ug/l	10.				
Carbazole	ND	ug/l	5.0				
Pyridine	ND	ug/l	50.				
2-Picoline	ND	ug/l	20.				
Pronamide	ND	ug/l	20.				
Methyl methanesulfonate	ND	ug/l	20.				
Surrogate Recovery							
2-Fluorophenol	55.0	%					
Phenol-d6	36.0	%					
Nitrobenzene-d5	88.0	%					
2-Fluorobiphenyl	95.0	%					
2,4,6-Tribromophenol	97.0	%					
4-Terphenyl-d14	96.0	%					

REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Update III, 1997.

30. Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

45. Physiologically Available Cyanide (PAC), January 1996 Protocol, Mass DEP 1996.

GLOSSARY OF TERMS AND SYMBOLS

REF Reference number in which test method may be found.

METHOD Method number by which analysis was performed.

ID Initials of the analyst.

LIMITATION OF LIABILITIES

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.

Quality Control Acceptance Criteria

Volatile Organics by Method 8260B

surrogate spike % recovery	AQ Limits		Soil Limits	
	LCL	UCL	LCL	UCL
1,2-Dichloroethane-d_4	75%	125%	75%	125%
4-Bromofluorobenzene	75%	125%	75%	125%
Toluene-d_8	75%	125%	75%	125%
Dibromofluoromethane	75%	125%	75%	125%

matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	percent recovery				duplicate and/or MSD	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
1,1-Dichloroethene	61%	145%	59%	172%	all target compounds	
Trichloroethene	71%	120%	62%	137%	20%	30%
Chlorobenzene	75%	130%	60%	133%		
Benzene	76%	127%	66%	142%		
Toluene	76%	125%	59%	139%		

Volatile Organics by Method 8021B

surrogate spike % recovery	AQ Limits		Soil Limits	
	LCL	UCL	LCL	UCL
4-Bromochlorobenzene	70%	110%	70%	120%
4-Bromofluorobenzene	70%	110%	70%	120%

matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	percent recovery				duplicate and/or MSD	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
1,1-Dichloroethene	70%	130%	70%	130%	all target compounds	
Trichloroethene	70%	130%	70%	130%	20%	30%
Chlorobenzene	70%	130%	70%	130%		
Benzene	70%	130%	70%	130%		
Toluene	70%	130%	70%	130%		
Ethylbenzene	70%	130%	70%	130%		

Semi-Volatile Organics by Method 8270C (includes PAHs)

surrogate spike % recovery	AQ Limits		Soil Limits	
	LCL	UCL	LCL	UCL
Nitrobenzene-d_5	23%	120%	23%	120%
Phenol-d_6	10%	120%	10%	120%
2-Fluorophenol	21%	120%	25%	120%
2-Fluorobiphenyl	43%	120%	30%	120%
p-Terphenyl-d_{14}	33%	120%	18%	120%
2,4,6-Tribromophenol	10%	120%	19%	120%

matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	percent recovery				duplicate and/or MSD	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
1,2,4-Trichlorobenzene	39%	98%	38%	107%	all target compounds	
Acenaphthene	46%	118%	31%	137%	40%	50%
2,4-Dinitrotoluene	24%	96%	28%	89%		
Pyrene	26%	127%	35%	142%		
N-Nitroso-di-n-propylamine	41%	116%	41%	126%		
1,4-Dichlorobenzene	36%	97%	28%	104%		
Pentachlorophenol	9%	103%	17%	109%		
Phenol	12%	110%	26%	90%		
2-Chlorophenol	27%	123%	25%	102%		
4-Chloro-3-methylphenol	23%	97%	26%	103%		
4-Nitrophenol	10%	80%	11%	114%		

Quality Control Acceptance Criteria

PCB/Pesticides by Method 8082/8081

surrogate spike % recovery	AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL		
2,4,5,6-Tetrachloro-m-xylene	40%	120%	40%	120%		
Decachlorobiphenyl	40%	120%	40%	120%		
matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	**percent recovery AQ Limits LCL**	**AQ Limits UCL**	**Soil Limits LCL**	**Soil Limits UCL**	**duplicate and/or MSD AQ Limits RPD**	**Soil Limits RPD**
Lindane	56%	123%	46%	127%	all target compounds	
Heptachlor	40%	131%	35%	130%	30%	50%
Aldrin	40%	120%	34%	132%		
Dieldrin	52%	126%	31%	134%		
Endrin	56%	121%	42%	139%		
4,4'-DDT	38%	127%	23%	134%		
Aroclor 1242/1016	40%	140%	40%	140%		
Aroclor 1260	40%	140%	40%	140%		

Volatile Petroleum Hydrocarbons (VPH) by MA DEP 98-1

surrogate spike % recovery	AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL		
2,5-Dibromotoluene	70%	130%	70%	130%		
laboratory control sample (LCS)	**percent recovery AQ Limits LCL**	**AQ Limits UCL**	**Soil Limits LCL**	**Soil Limits UCL**	**duplicate AQ Limits RPD**	**Soil Limits RPD**
all compounds	70%	130%	70%	130%	50%	50%

Extractable Petroleum Hydrocarbons (EPH) by MA DEP 98-1

surrogate spike % recovery	AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL		
Chloro-octadecane	40%	140%	40%	140%		
ortho-Terphenyl	40%	140%	40%	140%		
2-Fluorobiphenyl (fractionation)	40%	140%	40%	140%		
2-Bromonaphthalene (fractionation)	40%	140%	40%	140%		
laboratory control sample (LCS)	**percent recovery AQ Limits LCL**	**AQ Limits UCL**	**Soil Limits LCL**	**Soil Limits UCL**	**duplicate AQ Limits RPD**	**Soil Limits RPD**
all compounds	40%	140%	40%	140%	50%	50%

TPH (GC-FID) by Method 8100M

surrogate spike % recovery	AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL	duplicate AQ Limits RPD	duplicate Soil Limits RPD
ortho-Terphenyl	40%	140%	40%	140%	40%	40%

TPH by Method 418.1

matrix spike (MS) & laboratory control sample (LCS)	percent recovery AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL	duplicate AQ Limits RPD	duplicate Soil Limits RPD
TPH	60%	140%	60%	140%	40%	40%

Quality Control Acceptance Criteria

Trace Metals by Method 6010B/7000 series

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
target analyte	75%	125%	70%	140%	20%	35%

Mercury by Method 7470A/7471A

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
mercury	70%	130%	60%	140%	35%	45%

Total Cyanide by Method 9010B

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
cyanide	80%	120%	65%	135%	30%	40%

Total Phenol by Method 9065

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
phenol	70%	130%	65%	135%	20%	30%

HALEY & ALDRICH
Haley & Aldrich, Inc.
465 Medford St.,
Suite 2200,
Boston, MA 02129-1400

CHAIN OF CUSTODY RECORD

Phone (617) 886-7400
Fax (617) 886-7600

H&A FILE NO. CX6558-631
PROJECT NAME Malden MGP
H&A CONTACT S. Provencal

LABORATORY Alpha
ADDRESS Westborough, MA
CONTACT Doug Stone

DELIVERY DATE 3/13/02
TURNAROUND TIME Standard
PROJECT MANAGER B. Wilkinson

Analysis Requested

Sample No.	Date	Time	Depth	Type	(1) VOA	(2) ABNs PAHs	(3) Metals RCRA (8) PB(17)	Pesticides PCBs	VPH Full Scan C-range	EPH Full Scan C-range	TPH (specify)	TCLP (specify)	Reactivity Ignitability Corrosivity	(4) TCN	(5) FAC	(6) Fluoride	Number of Containers
NC-DUP	3/11/02	1530	–	Aqueous	X	X	X							X	X		8
NC-2	3/11/02	1240	–		X	X	X							X	X		8
NC-3	3/12/02	1405	–		X	X	X							X	X		8
97B-B617-OW	3/12/02	1145	–		X	X	X							X	X		8
97B-B627-OW	3/12/02	0835	–		X	X	X							X	X	X	9
97B-B628-OW	3/12/02	0915	–		X	X	X							X	X	X	9
GP98-103-OW	3/12/02	1155	–		X	X	X							X	X		8
TRIP BLANK	–	–	–		X												2
																(60)	

Comments (special instructions, precautions, additional method numbers, etc.)

(1) VOCs by EPA method 8260
(2) SVOCs - Full List by 8270
(3) RCRA 8 Metals. Dissolved *
(4) Total Cyanide
(5) Physiologically Available Cyanide - Run only if TCN detected.
(6) Fluoride

Sampled and Relinquished by	Received by
Sign [signature]	Sign [signature]
Print Louis A. Bueza	Print Karl Brown Jr.
Firm Haley & Aldrich, Inc.	Firm HARTON
Date 3/12/01 Time 1800	Date 3/12/02 Time 18:00
Relinquished by	**Received by**
Sign [signature]	Sign [signature]
Print Karl Brown Jr.	Print [illegible]
Firm H&A	Firm AC
Date 3/13/02 Time 15:30	Date [illegible] Time [illegible]
Relinquished by	**Received by**
Sign [signature]	Sign [signature]
Print	Print
Firm	Firm
Date Time	Date 3/13 Time 1715

LIQUID

X												VOA Vial
	X											Amber Glass
		X							X	X	X	Plastic Bottle
A/F	A	A/D							A/C	A	A	Preservative
40 mL	1 L	500 mL							250 mL	250 mL	500 mL	Volume

SOLID

												VOA Vial
												Amber Glass
												Clear Glass
												Preservative
												Volume

Sampling Comments

* Metals sample filtered in field + then preserved.

Evidence samples were tampered with? YES NO
If YES, please explain in section below.

PRESERVATION KEY

A Sample chilled
B Sample filtered
C NaOH
D HNO_3
E H_2SO_4
F HCL
G Methanol
H Sodium Bisulfate

WHITE - Laboratory CANARY - Project Manager PINK - Haley & Aldrich Laboratory GOLDENROD - Haley & Aldrich Contact

RECEIVED

MAY 15 2002

Haley & Aldrich, Inc.

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220 www.alphalab.com

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

Client: Haley & Aldrich, Inc.

Address: 465 Medford Street, Suite 2200
Boston, MA 02129-1400

Attn: Mr. Steve Provencal

Project Number: 06558-631

Site: MALDEN MGP

Laboratory Job Number: L0204424

Invoice Number: 63314

Date Received: 06-MAY-02

Date Reported: 13-MAY-02

Delivery Method: Alpha

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0204424-01	DUP-A	
L0204424-02	02B-B920-OW	
L0204424-03	02B-B921-OW	
L0204424-04	02B-B923-OW	
L0204424-05	02B-B918-OW	
L0204424-06	02B-B922-OW	

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by: Scott McLean

Scott McLean - Technical Director
This document electronically signed

ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT

Laboratory Job Number: L0204424

Alpha Report L0204424:

Semi-Volatile Organics

Alpha Sample(s) L0204424-01 through -06 required analysis on dilution. This is attributed to sample matrix interference.

One or more of the matrix spike/matrix spike duplicate percent recoveries for 8270 analysis associated with Alpha Sample(s) L0204424-01 through -06 are below the acceptance criteria for the method. This has been attributed to matrix interference.

Volatile Organics

Alpha Sample(s) L0204424-01 and -03 through -06 required analysis on dilution due to the presence of target compounds.

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0204424-01
DUP-A
Sample Matrix: WATER

Date Collected: 05-MAY-2002 09:30
Date Received : 06-MAY-2002
Date Reported : 13-MAY-2002

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,3-Plastic,3-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Cyanide, Total	0.845	mg/l	0.100	1	9010B	0507 11:00	0507 15:37	ED
Cyanide, Physiologically Available	0.128	mg/l	0.005	45		0508 17:00	0509 13:28	ED
Total Metals				1	3015			
Arsenic, Total	ND	mg/l	0.010	1	6010B	0507 11:00	0509 22:40	RW
Barium, Total	0.03	mg/l	0.01	1	6010B	0507 11:00	0509 22:40	RW
Cadmium, Total	ND	mg/l	0.005	1	6010B	0507 11:00	0509 22:40	RW
Chromium, Total	ND	mg/l	0.01	1	6010B	0507 11:00	0509 22:40	RW
Lead, Total	ND	mg/l	0.050	1	6010B	0507 11:00	0509 22:40	RW
Mercury, Total	ND	mg/l	0.0005	1	7470A	0510 10:50	0510 18:06	AG
Selenium, Total	ND	mg/l	0.005	1	6010B	0507 11:00	0509 22:40	RW
Silver, Total	ND	mg/l	0.007	1	6010B	0507 11:00	0509 22:40	RW
Volatile Organics by GC/MS 8260				1	8260B		0510 21:59	RY
Methylene chloride	ND	ug/l	1000					
1,1-Dichloroethane	ND	ug/l	150					
Chloroform	ND	ug/l	150					
Carbon tetrachloride	ND	ug/l	100					
1,2-Dichloropropane	ND	ug/l	350					
Dibromochloromethane	ND	ug/l	100					
1,1,2-Trichloroethane	ND	ug/l	150					
Tetrachloroethene	ND	ug/l	100					
Chlorobenzene	ND	ug/l	100					
Trichlorofluoromethane	ND	ug/l	500					
1,2-Dichloroethane	ND	ug/l	100					
1,1,1-Trichloroethane	ND	ug/l	100					
Bromodichloromethane	ND	ug/l	100					
trans-1,3-Dichloropropene	ND	ug/l	100					
cis-1,3-Dichloropropene	ND	ug/l	100					
1,1-Dichloropropene	ND	ug/l	500					
Bromoform	ND	ug/l	100					
1,1,2,2-Tetrachloroethane	ND	ug/l	100					
Benzene	2300	ug/l	100					
Toluene	740	ug/l	150					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204424-01
DUP-A

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1 8260B		0510 21:59	RY
Ethylbenzene	160	ug/l	100				
Chloromethane	ND	ug/l	500				
Bromomethane	ND	ug/l	200				
Vinyl chloride	ND	ug/l	200				
Chloroethane	ND	ug/l	200				
1,1-Dichloroethene	ND	ug/l	100				
trans-1,2-Dichloroethene	ND	ug/l	150				
Trichloroethene	ND	ug/l	100				
1,2-Dichlorobenzene	ND	ug/l	500				
1,3-Dichlorobenzene	ND	ug/l	500				
1,4-Dichlorobenzene	ND	ug/l	500				
Methyl tert butyl ether	ND	ug/l	200				
p/m-Xylene	920	ug/l	100				
o-Xylene	500	ug/l	100				
cis-1,2-Dichloroethene	ND	ug/l	100				
Dibromomethane	ND	ug/l	1000				
1,4-Dichlorobutane	ND	ug/l	1000				
Iodomethane	ND	ug/l	1000				
1,2,3-Trichloropropane	ND	ug/l	1000				
Styrene	ND	ug/l	100				
Dichlorodifluoromethane	ND	ug/l	1000				
Acetone	ND	ug/l	1000				
Carbon disulfide	ND	ug/l	1000				
2-Butanone	ND	ug/l	1000				
Vinyl acetate	ND	ug/l	1000				
4-Methyl-2-pentanone	ND	ug/l	1000				
2-Hexanone	ND	ug/l	1000				
Ethyl methacrylate	ND	ug/l	1000				
Acrolein	ND	ug/l	2500				
Acrylonitrile	ND	ug/l	1000				
Bromochloromethane	ND	ug/l	500				
Tetrahydrofuran	ND	ug/l	2000				
2,2-Dichloropropane	ND	ug/l	500				
1,2-Dibromoethane	ND	ug/l	500				
1,3-Dichloropropane	ND	ug/l	500				
1,1,1,2-Tetrachloroethane	ND	ug/l	100				
Bromobenzene	ND	ug/l	500				
n-Butylbenzene	ND	ug/l	100				
sec-Butylbenzene	ND	ug/l	100				
tert-Butylbenzene	ND	ug/l	500				
o-Chlorotoluene	ND	ug/l	500				
p-Chlorotoluene	ND	ug/l	500				
1,2-Dibromo-3-chloropropane	ND	ug/l	500				
Hexachlorobutadiene	ND	ug/l	500				
Isopropylbenzene	ND	ug/l	100				
p-Isopropyltoluene	ND	ug/l	100				
Naphthalene	3600	ug/l	500				
n-Propylbenzene	ND	ug/l	100				
1,2,3-Trichlorobenzene	ND	ug/l	500				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204424-01
DUP-A

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		0510 21:59	RY
1,2,4-Trichlorobenzene	ND	ug/l	500					
1,3,5-Trimethylbenzene	ND	ug/l	500					
1,2,4-Trimethylbenzene	ND	ug/l	500					
trans-1,4-Dichloro-2-butene	ND	ug/l	500					
Ethyl ether	ND	ug/l	500					
Surrogate Recovery								
1,2-Dichloroethane-d4	98.0	%						
Toluene-d8	99.0	%						
4-Bromofluorobenzene	97.0	%						
Dibromofluoromethane	99.0	%						
SVOC's by GC/MS 8270				1	8270C	0507 09:45	0511 02:35	ML
Acenaphthene	ND	ug/l	250					
Benzidine	ND	ug/l	2500					
1,2,4-Trichlorobenzene	ND	ug/l	250					
Hexachlorobenzene	ND	ug/l	250					
Bis(2-chloroethyl)ether	ND	ug/l	250					
1-Chloronaphthalene	ND	ug/l	250					
2-Chloronaphthalene	ND	ug/l	300					
1,2-Dichlorobenzene	ND	ug/l	250					
1,3-Dichlorobenzene	ND	ug/l	250					
1,4-Dichlorobenzene	ND	ug/l	250					
3,3'-Dichlorobenzidine	ND	ug/l	2500					
2,4-Dinitrotoluene	ND	ug/l	300					
2,6-Dinitrotoluene	ND	ug/l	250					
Azobenzene	ND	ug/l	250					
Fluoranthene	ND	ug/l	250					
4-Chlorophenyl phenyl ether	ND	ug/l	250					
4-Bromophenyl phenyl ether	ND	ug/l	250					
Bis(2-chloroisopropyl)ether	ND	ug/l	250					
Bis(2-chloroethoxy)methane	ND	ug/l	250					
Hexachlorobutadiene	ND	ug/l	500					
Hexachlorocyclopentadiene	ND	ug/l	500					
Hexachloroethane	ND	ug/l	250					
Isophorone	ND	ug/l	250					
Naphthalene	4000	ug/l	250					
Nitrobenzene	ND	ug/l	250					
NDPA/DPA	ND	ug/l	750					
n-Nitrosodi-n-propylamine	ND	ug/l	250					
Bis(2-ethylhexyl)phthalate	ND	ug/l	500					
Butyl benzyl phthalate	ND	ug/l	250					
Di-n-butylphthalate	ND	ug/l	250					
Di-n-octylphthalate	ND	ug/l	250					
Diethyl phthalate	ND	ug/l	250					
Dimethyl phthalate	ND	ug/l	250					
Benzo(a)anthracene	ND	ug/l	250					
Benzo(a)pyrene	ND	ug/l	250					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0204424-02
02B-B920-OW
Sample Matrix: WATER

Date Collected: 05-MAY-2002 10:20
Date Received : 06-MAY-2002
Date Reported : 13-MAY-2002

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,3-Plastic,1-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Cyanide, Total	0.727	mg/l	0.100	1	9010B	0507 11:00	0507 15:40	ED
Cyanide, Physiologically Available	0.064	mg/l	0.005	45		0508 17:00	0509 13:30	ED
Total Metals				1	3015			
Arsenic, Total	0.024	mg/l	0.010	1	6010B	0507 11:00	0509 23:09	RW
Barium, Total	0.11	mg/l	0.01	1	6010B	0507 11:00	0509 23:09	RW
Cadmium, Total	ND	mg/l	0.005	1	6010B	0507 11:00	0509 23:09	RW
Chromium, Total	ND	mg/l	0.01	1	6010B	0507 11:00	0509 23:09	RW
Lead, Total	ND	mg/l	0.050	1	6010B	0507 11:00	0509 23:09	RW
Mercury, Total	ND	mg/l	0.0005	1	7470A	0510 10:50	0510 18:07	AG
Selenium, Total	ND	mg/l	0.005	1	6010B	0507 11:00	0509 23:09	RW
Silver, Total	ND	mg/l	0.007	1	6010B	0507 11:00	0509 23:09	RW
Volatile Organics by GC/MS 8260				1	8260B		0509 17:01	BT
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	0.50					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	4.5	ug/l	0.50					
Toluene	ND	ug/l	0.75					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204424-02
02B-B920-OW

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1 8260B		0509 17:01	BT
Ethylbenzene	0.60	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.5				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	0.82	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	2.5				
Isopropylbenzene	0.79	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204424-02
02B-B920-OW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		0509 17:01	BT
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					
Surrogate Recovery								
1,2-Dichloroethane-d4	105.	%						
Toluene-d8	103.	%						
4-Bromofluorobenzene	93.0	%						
Dibromofluoromethane	100.	%						
SVOC's by GC/MS 8270				1	8270C	0507 09:45	0510 14:03	HL
Acenaphthene	6.4	ug/l	5.0					
Benzidine	ND	ug/l	50.					
1,2,4-Trichlorobenzene	ND	ug/l	5.0					
Hexachlorobenzene	ND	ug/l	5.0					
Bis(2-chloroethyl)ether	ND	ug/l	5.0					
1-Chloronaphthalene	ND	ug/l	5.0					
2-Chloronaphthalene	ND	ug/l	6.0					
1,2-Dichlorobenzene	ND	ug/l	5.0					
1,3-Dichlorobenzene	ND	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	5.0					
3,3'-Dichlorobenzidine	ND	ug/l	50.					
2,4-Dinitrotoluene	ND	ug/l	6.0					
2,6-Dinitrotoluene	ND	ug/l	5.0					
Azobenzene	ND	ug/l	5.0					
Fluoranthene	ND	ug/l	5.0					
4-Chlorophenyl phenyl ether	ND	ug/l	5.0					
4-Bromophenyl phenyl ether	ND	ug/l	5.0					
Bis(2-chloroisopropyl)ether	ND	ug/l	5.0					
Bis(2-chloroethoxy)methane	ND	ug/l	5.0					
Hexachlorobutadiene	ND	ug/l	10.					
Hexachlorocyclopentadiene	ND	ug/l	10.					
Hexachloroethane	ND	ug/l	5.0					
Isophorone	ND	ug/l	5.0					
Naphthalene	ND	ug/l	5.0					
Nitrobenzene	ND	ug/l	5.0					
NDPA/DPA	ND	ug/l	15.					
n-Nitrosodi-n-propylamine	ND	ug/l	5.0					
Bis(2-ethylhexyl)phthalate	ND	ug/l	10.					
Butyl benzyl phthalate	ND	ug/l	5.0					
Di-n-butylphthalate	ND	ug/l	5.0					
Di-n-octylphthalate	ND	ug/l	5.0					
Diethyl phthalate	ND	ug/l	5.0					
Dimethyl phthalate	ND	ug/l	5.0					
Benzo(a)anthracene	ND	ug/l	5.0					
Benzo(a)pyrene	ND	ug/l	5.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204424-02
02B-B920-OW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1	8270C	0507 09:45	0510 14:03	HL
Benzo(b)fluoranthene	ND	ug/l	5.0					
Benzo(k)fluoranthene	ND	ug/l	5.0					
Chrysene	ND	ug/l	5.0					
Acenaphthylene	ND	ug/l	5.0					
Anthracene	ND	ug/l	5.0					
Benzo(ghi)perylene	ND	ug/l	5.0					
Fluorene	12.	ug/l	5.0					
Phenanthrene	ND	ug/l	5.0					
Dibenzo(a,h)anthracene	ND	ug/l	5.0					
Indeno(1,2,3-cd)pyrene	ND	ug/l	7.0					
Pyrene	ND	ug/l	5.0					
Benzo(e)pyrene	ND	ug/l	5.0					
Biphenyl	ND	ug/l	5.0					
Perylene	ND	ug/l	5.0					
Aniline	ND	ug/l	10.					
4-Chloroaniline	ND	ug/l	5.0					
1-Methylnaphthalene	ND	ug/l	5.0					
2-Nitroaniline	ND	ug/l	5.0					
3-Nitroaniline	ND	ug/l	5.0					
4-Nitroaniline	ND	ug/l	7.0					
Dibenzofuran	ND	ug/l	5.0					
a,a-Dimethylphenethylamine	ND	ug/l	50.					
Hexachloropropene	ND	ug/l	50.					
Nitrosodi-n-butylamine	ND	ug/l	10.					
2-Methylnaphthalene	ND	ug/l	8.0					
1,2,4,5-Tetrachlorobenzene	ND	ug/l	20.					
Pentachlorobenzene	ND	ug/l	20.					
a-Naphthylamine	ND	ug/l	20.					
b-Naphthylamine	ND	ug/l	20.					
Phenacetin	ND	ug/l	10.					
Dimethoate	ND	ug/l	20.					
4-Aminobiphenyl	ND	ug/l	10.					
Pentachloronitrobenzene	ND	ug/l	10.					
Isodrin	ND	ug/l	10.					
p-Dimethylaminoazobenzene	ND	ug/l	10.					
Chlorobenzilate	ND	ug/l	20.					
3-Methylcholanthrene	ND	ug/l	20.					
Ethyl Methanesulfonate	ND	ug/l	15.					
Acetophenone	ND	ug/l	20.					
Nitrosodipiperidine	ND	ug/l	20.					
7,12-Dimethylbenz(a)anthracene	ND	ug/l	10.					
n-Nitrosodimethylamine	ND	ug/l	50.					
2,4,6-Trichlorophenol	ND	ug/l	5.0					
p-Chloro-m-cresol	ND	ug/l	5.0					
2-Chlorophenol	ND	ug/l	6.0					
2,4-Dichlorophenol	ND	ug/l	10.					
2,4-Dimethylphenol	ND	ug/l	10.					
2-Nitrophenol	ND	ug/l	20.					
4-Nitrophenol	ND	ug/l	10.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204424-02
02B-B920-OW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1	8270C	0507 09:45	0510 14:03	HL
2,4-Dinitrophenol	ND	ug/l	20.					
4,6-Dinitro-o-cresol	ND	ug/l	20.					
Pentachlorophenol	ND	ug/l	20.					
Phenol	ND	ug/l	7.0					
2-Methylphenol	ND	ug/l	6.0					
3-Methylphenol/4-Methylphenol	ND	ug/l	6.0					
2,4,5-Trichlorophenol	ND	ug/l	5.0					
2,6-Dichlorophenol	ND	ug/l	10.					
Benzoic Acid	ND	ug/l	50.					
Benzyl Alcohol	ND	ug/l	10.					
Carbazole	ND	ug/l	5.0					
Pyridine	ND	ug/l	50.					
2-Picoline	ND	ug/l	20.					
Pronamide	ND	ug/l	20.					
Methyl methanesulfonate	ND	ug/l	20.					
Surrogate Recovery								
2-Fluorophenol	35.0	%						
Phenol-d6	24.0	%						
Nitrobenzene-d5	54.0	%						
2-Fluorobiphenyl	65.0	%						
2,4,6-Tribromophenol	72.0	%						
4-Terphenyl-d14	74.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0204424-03
02B-B921-OW
Sample Matrix: WATER

Date Collected: 05-MAY-2002 10:55
Date Received : 06-MAY-2002
Date Reported : 13-MAY-2002

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,3-Plastic,3-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Cyanide, Total	1.15	mg/l	0.100	1	9010B	0507 11:00	0507 15:42	ED
Cyanide, Physiologically Available	0.086	mg/l	0.005	45		0508 17:00	0509 13:31	ED
Total Metals				1	3015			
Arsenic, Total	ND	mg/l	0.010	1	6010B	0507 11:00	0509 23:22	RW
Barium, Total	0.21	mg/l	0.01	1	6010B	0507 11:00	0509 23:22	RW
Cadmium, Total	ND	mg/l	0.005	1	6010B	0507 11:00	0509 23:22	RW
Chromium, Total	ND	mg/l	0.01	1	6010B	0507 11:00	0509 23:22	RW
Lead, Total	ND	mg/l	0.050	1	6010B	0507 11:00	0509 23:22	RW
Mercury, Total	ND	mg/l	0.0005	1	7470A	0510 10:50	0510 18:11	AG
Selenium, Total	ND	mg/l	0.005	1	6010B	0507 11:00	0509 23:22	RW
Silver, Total	ND	mg/l	0.007	1	6010B	0507 11:00	0509 23:22	RW
Volatile Organics by GC/MS 8260				1	8260B		0510 21:31	AR
Methylene chloride	ND	ug/l	25.					
1,1-Dichloroethane	ND	ug/l	3.8					
Chloroform	ND	ug/l	3.8					
Carbon tetrachloride	ND	ug/l	2.5					
1,2-Dichloropropane	ND	ug/l	8.8					
Dibromochloromethane	ND	ug/l	2.5					
1,1,2-Trichloroethane	ND	ug/l	3.8					
Tetrachloroethene	7.8	ug/l	2.5					
Chlorobenzene	ND	ug/l	2.5					
Trichlorofluoromethane	ND	ug/l	12.					
1,2-Dichloroethane	ND	ug/l	2.5					
1,1,1-Trichloroethane	ND	ug/l	2.5					
Bromodichloromethane	ND	ug/l	2.5					
trans-1,3-Dichloropropene	ND	ug/l	2.5					
cis-1,3-Dichloropropene	ND	ug/l	2.5					
1,1-Dichloropropene	ND	ug/l	12.					
Bromoform	ND	ug/l	2.5					
1,1,2,2-Tetrachloroethane	ND	ug/l	2.5					
Benzene	160	ug/l	2.5					
Toluene	ND	ug/l	3.8					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204424-03
02B-B921-OW

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1 8260B		0510 21:31	AR
Ethylbenzene	49.	ug/l	2.5				
Chloromethane	ND	ug/l	12.				
Bromomethane	ND	ug/l	5.0				
Vinyl chloride	ND	ug/l	5.0				
Chloroethane	ND	ug/l	5.0				
1,1-Dichloroethene	ND	ug/l	2.5				
trans-1,2-Dichloroethene	ND	ug/l	3.8				
Trichloroethene	ND	ug/l	2.5				
1,2-Dichlorobenzene	ND	ug/l	12.				
1,3-Dichlorobenzene	ND	ug/l	12.				
1,4-Dichlorobenzene	ND	ug/l	12.				
Methyl tert butyl ether	ND	ug/l	5.0				
p/m-Xylene	4.8	ug/l	2.5				
o-Xylene	7.2	ug/l	2.5				
cis-1,2-Dichloroethene	ND	ug/l	2.5				
Dibromomethane	ND	ug/l	25.				
1,4-Dichlorobutane	ND	ug/l	25.				
Iodomethane	ND	ug/l	25.				
1,2,3-Trichloropropane	ND	ug/l	25.				
Styrene	ND	ug/l	2.5				
Dichlorodifluoromethane	ND	ug/l	25.				
Acetone	ND	ug/l	25.				
Carbon disulfide	ND	ug/l	25.				
2-Butanone	ND	ug/l	25.				
Vinyl acetate	ND	ug/l	25.				
4-Methyl-2-pentanone	ND	ug/l	25.				
2-Hexanone	ND	ug/l	25.				
Ethyl methacrylate	ND	ug/l	25.				
Acrolein	ND	ug/l	62.				
Acrylonitrile	ND	ug/l	25.				
Bromochloromethane	ND	ug/l	12.				
Tetrahydrofuran	ND	ug/l	50.				
2,2-Dichloropropane	ND	ug/l	12.				
1,2-Dibromoethane	ND	ug/l	12.				
1,3-Dichloropropane	ND	ug/l	12.				
1,1,1,2-Tetrachloroethane	ND	ug/l	2.5				
Bromobenzene	ND	ug/l	12.				
n-Butylbenzene	ND	ug/l	2.5				
sec-Butylbenzene	ND	ug/l	2.5				
tert-Butylbenzene	ND	ug/l	12.				
o-Chlorotoluene	ND	ug/l	12.				
p-Chlorotoluene	ND	ug/l	12.				
1,2-Dibromo-3-chloropropane	ND	ug/l	12.				
Hexachlorobutadiene	ND	ug/l	12.				
Isopropylbenzene	8.8	ug/l	2.5				
p-Isopropyltoluene	5.0	ug/l	2.5				
Naphthalene	180	ug/l	12.				
n-Propylbenzene	3.6	ug/l	2.5				
1,2,3-Trichlorobenzene	ND	ug/l	12.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204424-03
02B-B921-OW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		0510 21:31	AR
1,2,4-Trichlorobenzene	ND	ug/l	12.					
1,3,5-Trimethylbenzene	ND	ug/l	12.					
1,2,4-Trimethylbenzene	ND	ug/l	12.					
trans-1,4-Dichloro-2-butene	ND	ug/l	12.					
Ethyl ether	ND	ug/l	12.					
Surrogate Recovery								
1,2-Dichloroethane-d4	100.	%						
Toluene-d8	99.0	%						
4-Bromofluorobenzene	96.0	%						
Dibromofluoromethane	96.0	%						
SVOC's by GC/MS 8270				1	8270C	0507 09:45	0510 14:51	NL
Acenaphthene	ND	ug/l	25.					
Benzidine	ND	ug/l	250					
1,2,4-Trichlorobenzene	ND	ug/l	25.					
Hexachlorobenzene	ND	ug/l	25.					
Bis(2-chloroethyl)ether	ND	ug/l	25.					
1-Chloronaphthalene	ND	ug/l	25.					
2-Chloronaphthalene	ND	ug/l	30.					
1,2-Dichlorobenzene	ND	ug/l	25.					
1,3-Dichlorobenzene	ND	ug/l	25.					
1,4-Dichlorobenzene	ND	ug/l	25.					
3,3'-Dichlorobenzidine	ND	ug/l	250					
2,4-Dinitrotoluene	ND	ug/l	30.					
2,6-Dinitrotoluene	ND	ug/l	25.					
Azobenzene	ND	ug/l	25.					
Fluoranthene	ND	ug/l	25.					
4-Chlorophenyl phenyl ether	ND	ug/l	25.					
4-Bromophenyl phenyl ether	ND	ug/l	25.					
Bis(2-chloroisopropyl)ether	ND	ug/l	25.					
Bis(2-chloroethoxy)methane	ND	ug/l	25.					
Hexachlorobutadiene	ND	ug/l	50.					
Hexachlorocyclopentadiene	ND	ug/l	50.					
Hexachloroethane	ND	ug/l	25.					
Isophorone	ND	ug/l	25.					
Naphthalene	110	ug/l	25.					
Nitrobenzene	ND	ug/l	25.					
NDPA/DPA	ND	ug/l	75.					
n-Nitrosodi-n-propylamine	ND	ug/l	25.					
Bis(2-ethylhexyl)phthalate	ND	ug/l	50.					
Butyl benzyl phthalate	ND	ug/l	25.					
Di-n-butylphthalate	ND	ug/l	25.					
Di-n-octylphthalate	ND	ug/l	25.					
Diethyl phthalate	ND	ug/l	25.					
Dimethyl phthalate	ND	ug/l	25.					
Benzo(a)anthracene	ND	ug/l	25.					
Benzo(a)pyrene	ND	ug/l	25.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204424-03
02B-B921-OW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1	8270C	0507 09:45	0510 14:51	HL
Benzo(b)fluoranthene	ND	ug/l	25.					
Benzo(k)fluoranthene	ND	ug/l	25.					
Chrysene	ND	ug/l	25.					
Acenaphthylene	ND	ug/l	25.					
Anthracene	ND	ug/l	25.					
Benzo(ghi)perylene	ND	ug/l	25.					
Fluorene	ND	ug/l	25.					
Phenanthrene	ND	ug/l	25.					
Dibenzo(a,h)anthracene	ND	ug/l	25.					
Indeno(1,2,3-cd)pyrene	ND	ug/l	35.					
Pyrene	ND	ug/l	25.					
Benzo(e)pyrene	ND	ug/l	25.					
Biphenyl	ND	ug/l	25.					
Perylene	ND	ug/l	25.					
Aniline	ND	ug/l	50.					
4-Chloroaniline	ND	ug/l	25.					
1-Methylnaphthalene	300	ug/l	25.					
2-Nitroaniline	ND	ug/l	25.					
3-Nitroaniline	ND	ug/l	25.					
4-Nitroaniline	ND	ug/l	35.					
Dibenzofuran	ND	ug/l	25.					
a,a-Dimethylphenethylamine	ND	ug/l	250					
Hexachloropropene	ND	ug/l	250					
Nitrosodi-n-butylamine	ND	ug/l	50.					
2-Methylnaphthalene	ND	ug/l	40.					
1,2,4,5-Tetrachlorobenzene	ND	ug/l	100					
Pentachlorobenzene	ND	ug/l	100					
a-Naphthylamine	ND	ug/l	100					
b-Naphthylamine	ND	ug/l	100					
Phenacetin	ND	ug/l	50.					
Dimethoate	ND	ug/l	100					
4-Aminobiphenyl	ND	ug/l	50.					
Pentachloronitrobenzene	ND	ug/l	50.					
Isodrin	ND	ug/l	50.					
p-Dimethylaminoazobenzene	ND	ug/l	50.					
Chlorobenzilate	ND	ug/l	100					
3-Methylcholanthrene	ND	ug/l	100					
Ethyl Methanesulfonate	ND	ug/l	75.					
Acetophenone	ND	ug/l	100					
Nitrosodipiperidine	ND	ug/l	100					
7,12-Dimethylbenz(a)anthracene	ND	ug/l	50.					
n-Nitrosodimethylamine	ND	ug/l	250					
2,4,6-Trichlorophenol	ND	ug/l	25.					
p-Chloro-m-cresol	ND	ug/l	25.					
2-Chlorophenol	ND	ug/l	30.					
2,4-Dichlorophenol	ND	ug/l	50.					
2,4-Dimethylphenol	ND	ug/l	50.					
2-Nitrophenol	ND	ug/l	100					
4-Nitrophenol	ND	ug/l	50.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204424-03
02B-B921-OW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1	8270C	0507 09:45	0510 14:51	HL
2,4-Dinitrophenol	ND	ug/l	100					
4,6-Dinitro-o-cresol	ND	ug/l	100					
Pentachlorophenol	ND	ug/l	100					
Phenol	ND	ug/l	35.					
2-Methylphenol	ND	ug/l	30.					
3-Methylphenol/4-Methylphenol	ND	ug/l	30.					
2,4,5-Trichlorophenol	ND	ug/l	25.					
2,6-Dichlorophenol	ND	ug/l	50.					
Benzoic Acid	ND	ug/l	250					
Benzyl Alcohol	ND	ug/l	50.					
Carbazole	ND	ug/l	25.					
Pyridine	ND	ug/l	250					
2-Picoline	ND	ug/l	100					
Pronamide	ND	ug/l	100					
Methyl methanesulfonate	ND	ug/l	100					
Surrogate Recovery								
2-Fluorophenol	34.0	%						
Phenol-d6	23.0	%						
Nitrobenzene-d5	57.0	%						
2-Fluorobiphenyl	65.0	%						
2,4,6-Tribromophenol	67.0	%						
4-Terphenyl-d14	69.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0204424-04
02B-B923-OW
Sample Matrix: WATER

Date Collected: 05-MAY-2002 13:00
Date Received : 06-MAY-2002
Date Reported : 13-MAY-2002

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,3-Plastic,3-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Cyanide, Total	0.778	mg/l	0.100	1	9010B	0507 11:00	0507 15:44	ED
Cyanide, Physiologically Available	0.120	mg/l	0.005	45		0508 17:00	0509 13:32	ED
Total Metals				1	3015			
Arsenic, Total	ND	mg/l	0.010	1	6010B	0507 11:00	0509 23:28	RW
Barium, Total	0.03	mg/l	0.01	1	6010B	0507 11:00	0509 23:28	RW
Cadmium, Total	ND	mg/l	0.005	1	6010B	0507 11:00	0509 23:28	RW
Chromium, Total	ND	mg/l	0.01	1	6010B	0507 11:00	0509 23:28	RW
Lead, Total	ND	mg/l	0.050	1	6010B	0507 11:00	0509 23:28	RW
Mercury, Total	ND	mg/l	0.0005	1	7470A	0510 10:50	0510 18:15	AG
Selenium, Total	ND	mg/l	0.005	1	6010B	0507 11:00	0509 23:28	RW
Silver, Total	ND	mg/l	0.007	1	6010B	0507 11:00	0509 23:28	RW
Volatile Organics by GC/MS 8260				1	8260B		0510 22:13	AR
Methylene chloride	ND	ug/l	500					
1,1-Dichloroethane	ND	ug/l	75.					
Chloroform	ND	ug/l	75.					
Carbon tetrachloride	ND	ug/l	50.					
1,2-Dichloropropane	ND	ug/l	180					
Dibromochloromethane	ND	ug/l	50.					
1,1,2-Trichloroethane	ND	ug/l	75.					
Tetrachloroethene	55.	ug/l	50.					
Chlorobenzene	ND	ug/l	50.					
Trichlorofluoromethane	ND	ug/l	250					
1,2-Dichloroethane	ND	ug/l	50.					
1,1,1-Trichloroethane	ND	ug/l	50.					
Bromodichloromethane	ND	ug/l	50.					
trans-1,3-Dichloropropene	ND	ug/l	50.					
cis-1,3-Dichloropropene	ND	ug/l	50.					
1,1-Dichloropropene	ND	ug/l	250					
Bromoform	ND	ug/l	50.					
1,1,2,2-Tetrachloroethane	ND	ug/l	50.					
Benzene	2200	ug/l	50.					
Toluene	680	ug/l	75.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204424-04
02B-B923-OW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		0510 22:13	AR
Ethylbenzene	160	ug/l	50.					
Chloromethane	ND	ug/l	250					
Bromomethane	ND	ug/l	100					
Vinyl chloride	ND	ug/l	100					
Chloroethane	ND	ug/l	100					
1,1-Dichloroethene	ND	ug/l	50.					
trans-1,2-Dichloroethene	ND	ug/l	75.					
Trichloroethene	ND	ug/l	50.					
1,2-Dichlorobenzene	ND	ug/l	250					
1,3-Dichlorobenzene	ND	ug/l	250					
1,4-Dichlorobenzene	ND	ug/l	250					
Methyl tert butyl ether	ND	ug/l	100					
p/m-Xylene	890	ug/l	50.					
o-Xylene	490	ug/l	50.					
cis-1,2-Dichloroethene	ND	ug/l	50.					
Dibromomethane	ND	ug/l	500					
1,4-Dichlorobutane	ND	ug/l	500					
Iodomethane	ND	ug/l	500					
1,2,3-Trichloropropane	ND	ug/l	500					
Styrene	ND	ug/l	50.					
Dichlorodifluoromethane	ND	ug/l	500					
Acetone	ND	ug/l	500					
Carbon disulfide	ND	ug/l	500					
2-Butanone	ND	ug/l	500					
Vinyl acetate	ND	ug/l	500					
4-Methyl-2-pentanone	ND	ug/l	500					
2-Hexanone	ND	ug/l	500					
Ethyl methacrylate	ND	ug/l	500					
Acrolein	ND	ug/l	1200					
Acrylonitrile	ND	ug/l	500					
Bromochloromethane	ND	ug/l	250					
Tetrahydrofuran	ND	ug/l	1000					
2,2-Dichloropropane	ND	ug/l	250					
1,2-Dibromoethane	ND	ug/l	250					
1,3-Dichloropropane	ND	ug/l	250					
1,1,1,2-Tetrachloroethane	ND	ug/l	50.					
Bromobenzene	ND	ug/l	250					
n-Butylbenzene	ND	ug/l	50.					
sec-Butylbenzene	ND	ug/l	50.					
tert-Butylbenzene	ND	ug/l	250					
o-Chlorotoluene	ND	ug/l	250					
p-Chlorotoluene	ND	ug/l	250					
1,2-Dibromo-3-chloropropane	ND	ug/l	250					
Hexachlorobutadiene	ND	ug/l	250					
Isopropylbenzene	ND	ug/l	50.					
p-Isopropyltoluene	ND	ug/l	50.					
Naphthalene	5100	ug/l	250					
n-Propylbenzene	ND	ug/l	50.					
1,2,3-Trichlorobenzene	ND	ug/l	250					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204424-04
02B-B923-OW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		0510 22:13	AR
1,2,4-Trichlorobenzene	ND	ug/l	250					
1,3,5-Trimethylbenzene	ND	ug/l	250					
1,2,4-Trimethylbenzene	280	ug/l	250					
trans-1,4-Dichloro-2-butene	ND	ug/l	250					
Ethyl ether	ND	ug/l	250					
Surrogate Recovery								
1,2-Dichloroethane-d4	95.0	%						
Toluene-d8	95.0	%						
4-Bromofluorobenzene	95.0	%						
Dibromofluoromethane	95.0	%						
SVOC's by GC/MS 8270				1	8270C	0507 09:45	0511 03:24	HL
Acenaphthene	ND	ug/l	250					
Benzidine	ND	ug/l	2500					
1,2,4-Trichlorobenzene	ND	ug/l	250					
Hexachlorobenzene	ND	ug/l	250					
Bis(2-chloroethyl)ether	ND	ug/l	250					
1-Chloronaphthalene	ND	ug/l	250					
2-Chloronaphthalene	ND	ug/l	300					
1,2-Dichlorobenzene	ND	ug/l	250					
1,3-Dichlorobenzene	ND	ug/l	250					
1,4-Dichlorobenzene	ND	ug/l	250					
3,3'-Dichlorobenzidine	ND	ug/l	2500					
2,4-Dinitrotoluene	ND	ug/l	300					
2,6-Dinitrotoluene	ND	ug/l	250					
Azobenzene	ND	ug/l	250					
Fluoranthene	ND	ug/l	250					
4-Chlorophenyl phenyl ether	ND	ug/l	250					
4-Bromophenyl phenyl ether	ND	ug/l	250					
Bis(2-chloroisopropyl)ether	ND	ug/l	250					
Bis(2-chloroethoxy)methane	ND	ug/l	250					
Hexachlorobutadiene	ND	ug/l	500					
Hexachlorocyclopentadiene	ND	ug/l	500					
Hexachloroethane	ND	ug/l	250					
Isophorone	ND	ug/l	250					
Naphthalene	4200	ug/l	250					
Nitrobenzene	ND	ug/l	250					
NDPA/DPA	ND	ug/l	750					
n-Nitrosodi-n-propylamine	ND	ug/l	250					
Bis(2-ethylhexyl)phthalate	ND	ug/l	500					
Butyl benzyl phthalate	ND	ug/l	250					
Di-n-butylphthalate	ND	ug/l	250					
Di-n-octylphthalate	ND	ug/l	250					
Diethyl phthalate	ND	ug/l	250					
Dimethyl phthalate	ND	ug/l	250					
Benzo(a)anthracene	ND	ug/l	250					
Benzo(a)pyrene	ND	ug/l	250					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204424-04
02B-B923-OW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1	8270C	0507 09:45	0511 03:24	HL
Benzo(b)fluoranthene	ND	ug/l	250					
Benzo(k)fluoranthene	ND	ug/l	250					
Chrysene	ND	ug/l	250					
Acenaphthylene	ND	ug/l	250					
Anthracene	ND	ug/l	250					
Benzo(ghi)perylene	ND	ug/l	250					
Fluorene	ND	ug/l	250					
Phenanthrene	ND	ug/l	250					
Dibenzo(a,h)anthracene	ND	ug/l	250					
Indeno(1,2,3-cd)pyrene	ND	ug/l	350					
Pyrene	ND	ug/l	250					
Benzo(e)pyrene	ND	ug/l	250					
Biphenyl	ND	ug/l	250					
Perylene	ND	ug/l	250					
Aniline	ND	ug/l	500					
4-Chloroaniline	ND	ug/l	250					
1-Methylnaphthalene	340	ug/l	250					
2-Nitroaniline	ND	ug/l	250					
3-Nitroaniline	ND	ug/l	250					
4-Nitroaniline	ND	ug/l	350					
Dibenzofuran	ND	ug/l	250					
a,a-Dimethylphenethylamine	ND	ug/l	2500					
Hexachloropropene	ND	ug/l	2500					
Nitrosodi-n-butylamine	ND	ug/l	500					
2-Methylnaphthalene	450	ug/l	400					
1,2,4,5-Tetrachlorobenzene	ND	ug/l	1000					
Pentachlorobenzene	ND	ug/l	1000					
a-Naphthylamine	ND	ug/l	1000					
b-Naphthylamine	ND	ug/l	1000					
Phenacetin	ND	ug/l	500					
Dimethoate	ND	ug/l	1000					
4-Aminobiphenyl	ND	ug/l	500					
Pentachloronitrobenzene	ND	ug/l	500					
Isodrin	ND	ug/l	500					
p-Dimethylaminoazobenzene	ND	ug/l	500					
Chlorobenzilate	ND	ug/l	1000					
3-Methylcholanthrene	ND	ug/l	1000					
Ethyl Methanesulfonate	ND	ug/l	750					
Acetophenone	ND	ug/l	1000					
Nitrosodipiperidine	ND	ug/l	1000					
7,12-Dimethylbenz(a)anthracene	ND	ug/l	500					
n-Nitrosodimethylamine	ND	ug/l	2500					
2,4,6-Trichlorophenol	ND	ug/l	250					
p-Chloro-m-cresol	ND	ug/l	250					
2-Chlorophenol	ND	ug/l	300					
2,4-Dichlorophenol	ND	ug/l	500					
2,4-Dimethylphenol	ND	ug/l	500					
2-Nitrophenol	ND	ug/l	1000					
4-Nitrophenol	ND	ug/l	500					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204424-04
02B-B923-OW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1	8270C	0507 09:45	0511 03:24	HL
2,4-Dinitrophenol	ND	ug/l	1000					
4,6-Dinitro-o-cresol	ND	ug/l	1000					
Pentachlorophenol	ND	ug/l	1000					
Phenol	ND	ug/l	350					
2-Methylphenol	ND	ug/l	300					
3-Methylphenol/4-Methylphenol	ND	ug/l	300					
2,4,5-Trichlorophenol	ND	ug/l	250					
2,6-Dichlorophenol	ND	ug/l	500					
Benzoic Acid	ND	ug/l	2500					
Benzyl Alcohol	ND	ug/l	500					
Carbazole	ND	ug/l	250					
Pyridine	ND	ug/l	2500					
2-Picoline	ND	ug/l	1000					
Pronamide	ND	ug/l	1000					
Methyl methanesulfonate	ND	ug/l	1000					
Surrogate Recovery								
2-Fluorophenol	49.0	%						
Phenol-d6	31.0	%						
Nitrobenzene-d5	80.0	%						
2-Fluorobiphenyl	100.	%						
2,4,6-Tribromophenol	94.0	%						
4-Terphenyl-d14	100.	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0204424-05
02B-B918-OW
Sample Matrix: WATER

Date Collected: 05-MAY-2002 13:35
Date Received : 06-MAY-2002
Date Reported : 13-MAY-2002

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,3-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Cyanide, Total	0.732	mg/l	0.100	1	9010B	0507 11:00	0507 15:48	ED
Cyanide, Physiologically Available	0.057	mg/l	0.005	45		0508 17:00	0509 13:48	ED
Total Metals				1	3015			
Arsenic, Total	0.016	mg/l	0.010	1	6010B	0507 11:00	0509 23:34	RW
Barium, Total	0.09	mg/l	0.01	1	6010B	0507 11:00	0509 23:34	RW
Cadmium, Total	ND	mg/l	0.005	1	6010B	0507 11:00	0509 23:34	RW
Chromium, Total	ND	mg/l	0.01	1	6010B	0507 11:00	0509 23:34	RW
Lead, Total	ND	mg/l	0.050	1	6010B	0507 11:00	0509 23:34	RW
Mercury, Total	ND	mg/l	0.0005	1	7470A	0510 10:50	0510 18:16	AG
Selenium, Total	ND	mg/l	0.005	1	6010B	0507 11:00	0509 23:34	RW
Silver, Total	ND	mg/l	0.007	1	6010B	0507 11:00	0509 23:34	RW
Volatile Organics by GC/MS 8260				1	8260B		0510 22:34	RY
Methylene chloride	ND	ug/l	2500					
1,1-Dichloroethane	ND	ug/l	380					
Chloroform	ND	ug/l	380					
Carbon tetrachloride	ND	ug/l	250					
1,2-Dichloropropane	ND	ug/l	880					
Dibromochloromethane	ND	ug/l	250					
1,1,2-Trichloroethane	ND	ug/l	380					
Tetrachloroethene	ND	ug/l	250					
Chlorobenzene	ND	ug/l	250					
Trichlorofluoromethane	ND	ug/l	1200					
1,2-Dichloroethane	ND	ug/l	250					
1,1,1-Trichloroethane	ND	ug/l	250					
Bromodichloromethane	ND	ug/l	250					
trans-1,3-Dichloropropene	ND	ug/l	250					
cis-1,3-Dichloropropene	ND	ug/l	250					
1,1-Dichloropropene	ND	ug/l	1200					
Bromoform	ND	ug/l	250					
1,1,2,2-Tetrachloroethane	ND	ug/l	250					
Benzene	55000	ug/l	250					
Toluene	31000	ug/l	380					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204424-05
02B-B918-OW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		0510 22:34	RY
Ethylbenzene	8200	ug/l	250					
Chloromethane	ND	ug/l	1200					
Bromomethane	ND	ug/l	500					
Vinyl chloride	ND	ug/l	500					
Chloroethane	ND	ug/l	500					
1,1-Dichloroethene	ND	ug/l	250					
trans-1,2-Dichloroethene	ND	ug/l	380					
Trichloroethene	ND	ug/l	250					
1,2-Dichlorobenzene	ND	ug/l	1200					
1,3-Dichlorobenzene	ND	ug/l	1200					
1,4-Dichlorobenzene	ND	ug/l	1200					
Methyl tert butyl ether	ND	ug/l	500					
p/m-Xylene	4400	ug/l	250					
o-Xylene	1300	ug/l	250					
cis-1,2-Dichloroethene	ND	ug/l	250					
Dibromomethane	ND	ug/l	2500					
1,4-Dichlorobutane	ND	ug/l	2500					
Iodomethane	ND	ug/l	2500					
1,2,3-Trichloropropane	ND	ug/l	2500					
Styrene	480	ug/l	250					
Dichlorodifluoromethane	ND	ug/l	2500					
Acetone	ND	ug/l	2500					
Carbon disulfide	ND	ug/l	2500					
2-Butanone	ND	ug/l	2500					
Vinyl acetate	ND	ug/l	2500					
4-Methyl-2-pentanone	ND	ug/l	2500					
2-Hexanone	ND	ug/l	2500					
Ethyl methacrylate	ND	ug/l	2500					
Acrolein	ND	ug/l	6200					
Acrylonitrile	ND	ug/l	2500					
Bromochloromethane	ND	ug/l	1200					
Tetrahydrofuran	ND	ug/l	5000					
2,2-Dichloropropane	ND	ug/l	1200					
1,2-Dibromoethane	ND	ug/l	1200					
1,3-Dichloropropane	ND	ug/l	1200					
1,1,1,2-Tetrachloroethane	ND	ug/l	250					
Bromobenzene	ND	ug/l	1200					
n-Butylbenzene	ND	ug/l	250					
sec-Butylbenzene	510	ug/l	250					
tert-Butylbenzene	ND	ug/l	1200					
o-Chlorotoluene	ND	ug/l	1200					
p-Chlorotoluene	ND	ug/l	1200					
1,2-Dibromo-3-chloropropane	ND	ug/l	1200					
Hexachlorobutadiene	ND	ug/l	1200					
Isopropylbenzene	ND	ug/l	250					
p-Isopropyltoluene	ND	ug/l	250					
Naphthalene	4200	ug/l	1200					
n-Propylbenzene	ND	ug/l	250					
1,2,3-Trichlorobenzene	ND	ug/l	1200					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204424-05
02B-B918-OW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		0510 22:34	RY
1,2,4-Trichlorobenzene	ND	ug/l	1200					
1,3,5-Trimethylbenzene	ND	ug/l	1200					
1,2,4-Trimethylbenzene	ND	ug/l	1200					
trans-1,4-Dichloro-2-butene	ND	ug/l	1200					
Ethyl ether	ND	ug/l	1200					
Surrogate Recovery								
1,2-Dichloroethane-d4	98.0	%						
Toluene-d8	101.	%						
4-Bromofluorobenzene	102.	%						
Dibromofluoromethane	100.	%						
SVOC's by GC/MS 8270				1	8270C	0507 09:45	0511 04:12	RL
Acenaphthene	ND	ug/l	100					
Benzidine	ND	ug/l	1000					
1,2,4-Trichlorobenzene	ND	ug/l	100					
Hexachlorobenzene	ND	ug/l	100					
Bis(2-chloroethyl)ether	ND	ug/l	100					
1-Chloronaphthalene	ND	ug/l	100					
2-Chloronaphthalene	ND	ug/l	120					
1,2-Dichlorobenzene	ND	ug/l	100					
1,3-Dichlorobenzene	ND	ug/l	100					
1,4-Dichlorobenzene	ND	ug/l	100					
3,3'-Dichlorobenzidine	ND	ug/l	1000					
2,4-Dinitrotoluene	ND	ug/l	120					
2,6-Dinitrotoluene	ND	ug/l	100					
Azobenzene	ND	ug/l	100					
Fluoranthene	ND	ug/l	100					
4-Chlorophenyl phenyl ether	ND	ug/l	100					
4-Bromophenyl phenyl ether	ND	ug/l	100					
Bis(2-chloroisopropyl)ether	ND	ug/l	100					
Bis(2-chloroethoxy)methane	ND	ug/l	100					
Hexachlorobutadiene	ND	ug/l	200					
Hexachlorocyclopentadiene	ND	ug/l	200					
Hexachloroethane	ND	ug/l	100					
Isophorone	ND	ug/l	100					
Naphthalene	2700	ug/l	100					
Nitrobenzene	ND	ug/l	100					
NDPA/DPA	ND	ug/l	300					
n-Nitrosodi-n-propylamine	ND	ug/l	100					
Bis(2-ethylhexyl)phthalate	ND	ug/l	200					
Butyl benzyl phthalate	ND	ug/l	100					
Di-n-butylphthalate	ND	ug/l	100					
Di-n-octylphthalate	ND	ug/l	100					
Diethyl phthalate	ND	ug/l	100					
Dimethyl phthalate	ND	ug/l	100					
Benzo(a)anthracene	ND	ug/l	100					
Benzo(a)pyrene	ND	ug/l	100					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204424-05
02B-B918-OW

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1 8270C	0507 09:45	0511 04:12	HL
Benzo(b)fluoranthene	ND	ug/l	100				
Benzo(k)fluoranthene	ND	ug/l	100				
Chrysene	ND	ug/l	100				
Acenaphthylene	ND	ug/l	100				
Anthracene	ND	ug/l	100				
Benzo(ghi)perylene	ND	ug/l	100				
Fluorene	ND	ug/l	100				
Phenanthrene	ND	ug/l	100				
Dibenzo(a,h)anthracene	ND	ug/l	100				
Indeno(1,2,3-cd)pyrene	ND	ug/l	140				
Pyrene	ND	ug/l	100				
Benzo(e)pyrene	ND	ug/l	100				
Biphenyl	ND	ug/l	100				
Perylene	ND	ug/l	100				
Aniline	ND	ug/l	200				
4-Chloroaniline	ND	ug/l	100				
1-Methylnaphthalene	430	ug/l	100				
2-Nitroaniline	ND	ug/l	100				
3-Nitroaniline	ND	ug/l	100				
4-Nitroaniline	ND	ug/l	140				
Dibenzofuran	ND	ug/l	100				
a,a-Dimethylphenethylamine	ND	ug/l	1000				
Hexachloropropene	ND	ug/l	1000				
Nitrosodi-n-butylamine	ND	ug/l	200				
2-Methylnaphthalene	200	ug/l	160				
1,2,4,5-Tetrachlorobenzene	ND	ug/l	400				
Pentachlorobenzene	ND	ug/l	400				
a-Naphthylamine	ND	ug/l	400				
b-Naphthylamine	ND	ug/l	400				
Phenacetin	ND	ug/l	200				
Dimethoate	ND	ug/l	400				
4-Aminobiphenyl	ND	ug/l	200				
Pentachloronitrobenzene	ND	ug/l	200				
Isodrin	ND	ug/l	200				
p-Dimethylaminoazobenzene	ND	ug/l	200				
Chlorobenzilate	ND	ug/l	400				
3-Methylcholanthrene	ND	ug/l	400				
Ethyl Methanesulfonate	ND	ug/l	300				
Acetophenone	ND	ug/l	400				
Nitrosodipiperidine	ND	ug/l	400				
7,12-Dimethylbenz(a)anthracene	ND	ug/l	200				
n-Nitrosodimethylamine	ND	ug/l	1000				
2,4,6-Trichlorophenol	ND	ug/l	100				
p-Chloro-m-cresol	ND	ug/l	100				
2-Chlorophenol	ND	ug/l	120				
2,4-Dichlorophenol	ND	ug/l	200				
2,4-Dimethylphenol	ND	ug/l	200				
2-Nitrophenol	ND	ug/l	400				
4-Nitrophenol	ND	ug/l	200				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204424-05
02B-B918-OW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1	8270C	0507 09:45	0511 04:12	HL
2,4-Dinitrophenol	ND	ug/l	400					
4,6-Dinitro-o-cresol	ND	ug/l	400					
Pentachlorophenol	ND	ug/l	400					
Phenol	220	ug/l	140					
2-Methylphenol	ND	ug/l	120					
3-Methylphenol/4-Methylphenol	ND	ug/l	120					
2,4,5-Trichlorophenol	ND	ug/l	100					
2,6-Dichlorophenol	ND	ug/l	200					
Benzoic Acid	ND	ug/l	1000					
Benzyl Alcohol	ND	ug/l	200					
Carbazole	ND	ug/l	100					
Pyridine	ND	ug/l	1000					
2-Picoline	ND	ug/l	400					
Pronamide	ND	ug/l	400					
Methyl methanesulfonate	ND	ug/l	400					
Surrogate Recovery								
2-Fluorophenol	58.0	%						
Phenol-d6	33.0	%						
Nitrobenzene-d5	84.0	%						
2-Fluorobiphenyl	106.	%						
2,4,6-Tribromophenol	101.	%						
4-Terphenyl-d14	97.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0204424-06
02B-B922-OW
Sample Matrix: WATER

Date Collected: 05-MAY-2002 15:25
Date Received : 06-MAY-2002
Date Reported : 13-MAY-2002

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,3-Plastic,3-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Cyanide, Total	0.952	mg/l	0.100	1	9010B	0507 11:00	0507 15:50	ED
Cyanide, Physiologically Available	0.070	mg/l	0.005	45		0508 17:00	0509 13:35	ED
Total Metals				1	3015			
Arsenic, Total	ND	mg/l	0.010	1	6010B	0507 11:00	0509 23:40	RW
Barium, Total	0.06	mg/l	0.01	1	6010B	0507 11:00	0509 23:40	RW
Cadmium, Total	ND	mg/l	0.005	1	6010B	0507 11:00	0509 23:40	RW
Chromium, Total	ND	mg/l	0.01	1	6010B	0507 11:00	0509 23:40	RW
Lead, Total	ND	mg/l	0.050	1	6010B	0507 11:00	0509 23:40	RW
Mercury, Total	ND	mg/l	0.0005	1	7470A	0510 10:50	0510 18:18	AG
Selenium, Total	ND	mg/l	0.005	1	6010B	0507 11:00	0509 23:40	RW
Silver, Total	ND	mg/l	0.007	1	6010B	0507 11:00	0509 23:40	RW
Volatile Organics by GC/MS 8260				1	8260B		0513 13:05	RY
Methylene chloride	ND	ug/l	5000					
1,1-Dichloroethane	ND	ug/l	750					
Chloroform	ND	ug/l	750					
Carbon tetrachloride	ND	ug/l	500					
1,2-Dichloropropane	ND	ug/l	1800					
Dibromochloromethane	ND	ug/l	500					
1,1,2-Trichloroethane	ND	ug/l	750					
Tetrachloroethene	ND	ug/l	500					
Chlorobenzene	ND	ug/l	500					
Trichlorofluoromethane	ND	ug/l	2500					
1,2-Dichloroethane	ND	ug/l	500					
1,1,1-Trichloroethane	ND	ug/l	500					
Bromodichloromethane	ND	ug/l	500					
trans-1,3-Dichloropropene	ND	ug/l	500					
cis-1,3-Dichloropropene	ND	ug/l	500					
1,1-Dichloropropene	ND	ug/l	2500					
Bromoform	ND	ug/l	500					
1,1,2,2-Tetrachloroethane	ND	ug/l	500					
Benzene	12000	ug/l	500					
Toluene	27000	ug/l	750					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204424-06
02B-B922-OW

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1 8260B		0513 13:05	RY
Ethylbenzene	3900	ug/l	500				
Chloromethane	ND	ug/l	2500				
Bromomethane	ND	ug/l	1000				
Vinyl chloride	ND	ug/l	1000				
Chloroethane	ND	ug/l	1000				
1,1-Dichloroethene	ND	ug/l	500				
trans-1,2-Dichloroethene	ND	ug/l	750				
Trichloroethene	ND	ug/l	500				
1,2-Dichlorobenzene	ND	ug/l	2500				
1,3-Dichlorobenzene	ND	ug/l	2500				
1,4-Dichlorobenzene	ND	ug/l	2500				
Methyl tert butyl ether	ND	ug/l	1000				
p/m-Xylene	4800	ug/l	500				
o-Xylene	2100	ug/l	500				
cis-1,2-Dichloroethene	ND	ug/l	500				
Dibromomethane	ND	ug/l	5000				
1,4-Dichlorobutane	ND	ug/l	5000				
Iodomethane	ND	ug/l	5000				
1,2,3-Trichloropropane	ND	ug/l	5000				
Styrene	1800	ug/l	500				
Dichlorodifluoromethane	ND	ug/l	5000				
Acetone	ND	ug/l	5000				
Carbon disulfide	ND	ug/l	5000				
2-Butanone	ND	ug/l	5000				
Vinyl acetate	ND	ug/l	5000				
4-Methyl-2-pentanone	ND	ug/l	5000				
2-Hexanone	ND	ug/l	5000				
Ethyl methacrylate	ND	ug/l	5000				
Acrolein	ND	ug/l	12000				
Acrylonitrile	ND	ug/l	5000				
Bromochloromethane	ND	ug/l	2500				
Tetrahydrofuran	ND	ug/l	10000				
2,2-Dichloropropane	ND	ug/l	2500				
1,2-Dibromoethane	ND	ug/l	2500				
1,3-Dichloropropane	ND	ug/l	2500				
1,1,1,2-Tetrachloroethane	ND	ug/l	500				
Bromobenzene	ND	ug/l	2500				
n-Butylbenzene	ND	ug/l	500				
sec-Butylbenzene	ND	ug/l	500				
tert-Butylbenzene	ND	ug/l	2500				
o-Chlorotoluene	ND	ug/l	2500				
p-Chlorotoluene	ND	ug/l	2500				
1,2-Dibromo-3-chloropropane	ND	ug/l	2500				
Hexachlorobutadiene	ND	ug/l	2500				
Isopropylbenzene	ND	ug/l	500				
p-Isopropyltoluene	ND	ug/l	500				
Naphthalene	6400	ug/l	2500				
n-Propylbenzene	ND	ug/l	500				
1,2,3-Trichlorobenzene	ND	ug/l	2500				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204424-06
02B-B922-OW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		0513 13:05	RY
1,2,4-Trichlorobenzene	ND	ug/l	2500					
1,3,5-Trimethylbenzene	ND	ug/l	2500					
1,2,4-Trimethylbenzene	ND	ug/l	2500					
trans-1,4-Dichloro-2-butene	ND	ug/l	2500					
Ethyl ether	ND	ug/l	2500					
Surrogate Recovery								
1,2-Dichloroethane-d4	84.0	%						
Toluene-d8	98.0	%						
4-Bromofluorobenzene	100.	%						
Dibromofluoromethane	92.0	%						
SVOC's by GC/MS 8270				1	8270C	0507 09:45	0511 04:58	HL
Acenaphthene	ND	ug/l	500					
Benzidine	ND	ug/l	5000					
1,2,4-Trichlorobenzene	ND	ug/l	500					
Hexachlorobenzene	ND	ug/l	500					
Bis(2-chloroethyl)ether	ND	ug/l	500					
1-Chloronaphthalene	ND	ug/l	500					
2-Chloronaphthalene	ND	ug/l	600					
1,2-Dichlorobenzene	ND	ug/l	500					
1,3-Dichlorobenzene	ND	ug/l	500					
1,4-Dichlorobenzene	ND	ug/l	500					
3,3'-Dichlorobenzidine	ND	ug/l	5000					
2,4-Dinitrotoluene	ND	ug/l	600					
2,6-Dinitrotoluene	ND	ug/l	500					
Azobenzene	ND	ug/l	500					
Fluoranthene	ND	ug/l	500					
4-Chlorophenyl phenyl ether	ND	ug/l	500					
4-Bromophenyl phenyl ether	ND	ug/l	500					
Bis(2-chloroisopropyl)ether	ND	ug/l	500					
Bis(2-chloroethoxy)methane	ND	ug/l	500					
Hexachlorobutadiene	ND	ug/l	1000					
Hexachlorocyclopentadiene	ND	ug/l	1000					
Hexachloroethane	ND	ug/l	500					
Isophorone	ND	ug/l	500					
Naphthalene	9100	ug/l	500					
Nitrobenzene	ND	ug/l	500					
NDPA/DPA	ND	ug/l	1500					
n-Nitrosodi-n-propylamine	ND	ug/l	500					
Bis(2-ethylhexyl)phthalate	ND	ug/l	1000					
Butyl benzyl phthalate	ND	ug/l	500					
Di-n-butylphthalate	ND	ug/l	500					
Di-n-octylphthalate	ND	ug/l	500					
Diethyl phthalate	ND	ug/l	500					
Dimethyl phthalate	ND	ug/l	500					
Benzo(a)anthracene	ND	ug/l	500					
Benzo(a)pyrene	ND	ug/l	500					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204424-06
02B-B922-OW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1	8270C	0507 09:45	0511 04:58	HL
Benzo(b)fluoranthene	ND	ug/l	500					
Benzo(k)fluoranthene	ND	ug/l	500					
Chrysene	ND	ug/l	500					
Acenaphthylene	ND	ug/l	500					
Anthracene	ND	ug/l	500					
Benzo(ghi)perylene	ND	ug/l	500					
Fluorene	ND	ug/l	500					
Phenanthrene	ND	ug/l	500					
Dibenzo(a,h)anthracene	ND	ug/l	500					
Indeno(1,2,3-cd)pyrene	ND	ug/l	700					
Pyrene	ND	ug/l	500					
Benzo(e)pyrene	ND	ug/l	500					
Biphenyl	ND	ug/l	500					
Perylene	ND	ug/l	500					
Aniline	ND	ug/l	1000					
4-Chloroaniline	ND	ug/l	500					
1-Methylnaphthalene	550	ug/l	500					
2-Nitroaniline	ND	ug/l	500					
3-Nitroaniline	ND	ug/l	500					
4-Nitroaniline	ND	ug/l	700					
Dibenzofuran	ND	ug/l	500					
a,a-Dimethylphenethylamine	ND	ug/l	5000					
Hexachloropropene	ND	ug/l	5000					
Nitrosodi-n-butylamine	ND	ug/l	1000					
2-Methylnaphthalene	ND	ug/l	800					
1,2,4,5-Tetrachlorobenzene	ND	ug/l	2000					
Pentachlorobenzene	ND	ug/l	2000					
a-Naphthylamine	ND	ug/l	2000					
b-Naphthylamine	ND	ug/l	2000					
Phenacetin	ND	ug/l	1000					
Dimethoate	ND	ug/l	2000					
4-Aminobiphenyl	ND	ug/l	1000					
Pentachloronitrobenzene	ND	ug/l	1000					
Isodrin	ND	ug/l	1000					
p-Dimethylaminoazobenzene	ND	ug/l	1000					
Chlorobenzilate	ND	ug/l	2000					
3-Methylcholanthrene	ND	ug/l	2000					
Ethyl Methanesulfonate	ND	ug/l	1500					
Acetophenone	ND	ug/l	2000					
Nitrosodipiperidine	ND	ug/l	2000					
7,12-Dimethylbenz(a)anthracene	ND	ug/l	1000					
n-Nitrosodimethylamine	ND	ug/l	5000					
2,4,6-Trichlorophenol	ND	ug/l	500					
p-Chloro-m-cresol	ND	ug/l	500					
2-Chlorophenol	ND	ug/l	600					
2,4-Dichlorophenol	ND	ug/l	1000					
2,4-Dimethylphenol	ND	ug/l	1000					
2-Nitrophenol	ND	ug/l	2000					
4-Nitrophenol	ND	ug/l	1000					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204424-06
02B-B922-OW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1	8270C	0507 09:45	0511 04:58	HL
2,4-Dinitrophenol	ND	ug/l	2000					
4,6-Dinitro-o-cresol	ND	ug/l	2000					
Pentachlorophenol	ND	ug/l	2000					
Phenol	ND	ug/l	700					
2-Methylphenol	ND	ug/l	600					
3-Methylphenol/4-Methylphenol	ND	ug/l	600					
2,4,5-Trichlorophenol	ND	ug/l	500					
2,6-Dichlorophenol	ND	ug/l	1000					
Benzoic Acid	ND	ug/l	5000					
Benzyl Alcohol	ND	ug/l	1000					
Carbazole	ND	ug/l	500					
Pyridine	ND	ug/l	5000					
2-Picoline	ND	ug/l	2000					
Pronamide	ND	ug/l	2000					
Methyl methanesulfonate	ND	ug/l	2000					
Surrogate Recovery								
2-Fluorophenol	57.0	%						
Phenol-d6	33.0	%						
Nitrobenzene-d5	98.0	%						
2-Fluorobiphenyl	112.	%						
2,4,6-Tribromophenol	98.0	%						
4-Terphenyl-d14	89.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0204424

Parameter	Value 1	Value 2	RPD	Units
Cyanide, Total for sample(s) 01-06 (L0204424-01, WG112254)				
Cyanide, Total	0.845	0.835	1	mg/l
Cyanide, Physiologically Available for sample(s) 01-06 (L0204424-01, WG112444)				
Cyanide, Physiologically Available	0.128	0.122	5	mg/l
Total Metals for sample(s) 01-06 (L0204424-01, WG112300)				
Arsenic, Total	ND	ND	NC	mg/l
Barium, Total	0.03	0.03	0	mg/l
Cadmium, Total	ND	ND	NC	mg/l
Chromium, Total	ND	ND	NC	mg/l
Lead, Total	ND	ND	NC	mg/l
Selenium, Total	ND	ND	NC	mg/l
Silver, Total	ND	ND	NC	mg/l
Total Metals for sample(s) 01-06 (L0204424-02, WG112619)				
Mercury, Total	ND	ND	NC	mg/l

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0204424

Parameter	% Recovery
Cyanide, Total LCS for sample(s) 01-06 (WG112254)	
Cyanide, Total	103
Cyanide, Physiologically Available LCS for sample(s) 01 (WG112444)	
Cyanide, Physiologically Available	8
Cyanide, Physiologically Available LCS for sample(s) 01-06 (WG112444)	
Cyanide, Physiologically Available	102
Total Metals LCS for sample(s) 01-06 (WG112300)	
Arsenic, Total	98
Barium, Total	95
Cadmium, Total	104
Chromium, Total	95
Lead, Total	100
Selenium, Total	98
Silver, Total	95
Total Metals LCS for sample(s) 01-06 (WG112619)	
Mercury, Total	111
Volatile Organics by GC/MS 8260 LCS for sample(s) 06 (WG112768)	
Chlorobenzene	97
Benzene	96
Toluene	99
1,1-Dichloroethene	97
Trichloroethene	101
Surrogate Recovery	
1,2-Dichloroethane-d4	100
Toluene-d8	98
4-Bromofluorobenzene	96
Dibromofluoromethane	102
Volatile Organics by GC/MS 8260 LCS for sample(s) 01,05 (WG112632)	
Chlorobenzene	99
Benzene	103
Toluene	102
1,1-Dichloroethene	106
Trichloroethene	111
Surrogate Recovery	
1,2-Dichloroethane-d4	104
Toluene-d8	104
4-Bromofluorobenzene	98
Dibromofluoromethane	103

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0204424

Continued

Parameter	% Recovery
Volatile Organics by GC/MS 8260 LCS for sample(s) 03-04 (WG112610)	
Chlorobenzene	81
Benzene	88
Toluene	87
1,1-Dichloroethene	96
Trichloroethene	94
Surrogate Recovery	
1,2-Dichloroethane-d4	97
Toluene-d8	93
4-Bromofluorobenzene	91
Dibromofluoromethane	95
Volatile Organics by GC/MS 8260 LCS for sample(s) 02 (WG112096)	
Chlorobenzene	95
Benzene	101
Toluene	99
1,1-Dichloroethene	91
Trichloroethene	99
Surrogate Recovery	
1,2-Dichloroethane-d4	98
Toluene-d8	104
4-Bromofluorobenzene	89
Dibromofluoromethane	101
SVOC's by GC/MS 8270 LCS for sample(s) 01-06 (WG112278)	
Acenaphthene	60
1,2,4-Trichlorobenzene	41
2-Chloronaphthalene	49
1,2-Dichlorobenzene	39
1,4-Dichlorobenzene	39
2,4-Dinitrotoluene	79
2,6-Dinitrotoluene	72
Fluoranthene	78
4-Chlorophenyl phenyl ether	63
n-Nitrosodi-n-propylamine	43
Butyl benzyl phthalate	73
Anthracene	69
Pyrene	78
Hexachloropropene	28
P-Chloro-M-Cresol	56
2-Chlorophenol	40
2-Nitrophenol	52
4-Nitrophenol	33
2,4-Dinitrophenol	52
Pentachlorophenol	68
Phenol	15

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0204424

Continued

Parameter	% Recovery
SVOC's by GC/MS 8270 LCS for sample(s) 01-06 (WG112278)	
Surrogate Recovery	
2-Fluorophenol	16
Phenol-d6	14
Nitrobenzene-d5	43
2-Fluorobiphenyl	58
2,4,6-Tribromophenol	71
4-Terphenyl-d14	69
Cyanide, Total SPIKE for sample(s) 01-06 (L0204285-05, WG112254)	
Cyanide, Total	90
Total Metals SPIKE for sample(s) 01-06 (L0204424-02, WG112300)	
Arsenic, Total	97
Barium, Total	100
Cadmium, Total	102
Chromium, Total	95
Lead, Total	103
Selenium, Total	98
Silver, Total	103
Total Metals SPIKE for sample(s) 01-06 (L0204424-03, WG112619)	
Mercury, Total	126

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0204424

Parameter	MS %	MSD %	RPD
Volatile Organics by GC/MS 8260 for sample(s) 02 (L0204239-02, WG112096)			
Chlorobenzene	96	103	7
Benzene	101	105	4
Toluene	101	108	7
1,1-Dichloroethene	97	100	3
Trichloroethene	100	106	6
Volatile Organics by GC/MS 8260 for sample(s) 03-04 (L0204382-14, WG112610)			
Chlorobenzene	99	107	8
Benzene	104	109	5
Toluene	103	106	3
1,1-Dichloroethene	114	117	3
Trichloroethene	101	105	4
Volatile Organics by GC/MS 8260 for sample(s) 01,05 (L0204465-01, WG112632)			
Chlorobenzene	86	95	10
Benzene	88	94	6
Toluene	88	95	8
1,1-Dichloroethene	88	95	7
Trichloroethene	92	99	7
Volatile Organics by GC/MS 8260 for sample(s) 06 (L0204271-01, WG112768)			
Chlorobenzene	93	90	3
Benzene	92	91	1
Toluene	98	95	4
1,1-Dichloroethene	94	91	3
Trichloroethene	97	95	2
SVOC's by GC/MS 8270 for sample(s) 01-06 (L0204382-15, WG112278)			
Acenaphthene	66	62	6
1,2,4-Trichlorobenzene	57	53	7
2-Chloronaphthalene	66	57	15
1,2-Dichlorobenzene	57	49	15
1,4-Dichlorobenzene	49	49	0
2,4-Dinitrotoluene	78	90	14
2,6-Dinitrotoluene	86	86	0
Fluoranthene	78	86	10
4-Chlorophenyl phenyl ether	70	70	0
N-Nitrosodi-n-propylamine	57	57	0
Butyl benzyl phthalate	74	90	20
Anthracene	66	70	6
Pyrene	78	86	10
Hexachloropropene	38	37	3
P-Chloro-M-Cresol	66	68	3
2-Chlorophenol	57	55	4
2-Nitrophenol	70	64	9
4-Nitrophenol	49	51	4
2,4-Dinitrophenol	45	45	0
Pentachlorophenol	64	66	3

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0204424

Continued

Parameter	MS %	MSD %	RPD
SVOC's by GC/MS 8270 for sample(s) 01-06 (L0204382-15, WG112278)			
Phenol	39	41	5

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0204424

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-06								
Cyanide, Total	ND	mg/l	0.005	1	9010B	0507 11:00	0507 15:54	ED
Blank Analysis for sample(s) 01-06								
Cyanide, Physiologically Available	ND	mg/l	0.005	45		0508 17:00	0509 13:26	ED
Blank Analysis for sample(s) 01-06								
Total Metals				1	3015			
Arsenic, Total	ND	mg/l	0.004	1	6010B	0507 11:00	0509 22:10	RW
Barium, Total	ND	mg/l	0.01	1	6010B	0507 11:00	0509 22:10	RW
Cadmium, Total	ND	mg/l	0.005	1	6010B	0507 11:00	0509 22:10	RW
Chromium, Total	ND	mg/l	0.01	1	6010B	0507 11:00	0509 22:10	RW
Lead, Total	ND	mg/l	0.010	1	6010B	0507 11:00	0509 22:10	RW
Selenium, Total	ND	mg/l	0.005	1	6010B	0507 11:00	0509 22:10	RW
Silver, Total	ND	mg/l	0.007	1	6010B	0507 11:00	0509 22:10	RW
Blank Analysis for sample(s) 01-06								
Total Metals								
Mercury, Total	ND	mg/l	0.0004	1	7470A	0510 10:50	0510 18:02	AG
Blank Analysis for sample(s) 02								
Volatile Organics by GC/MS 8260				1	8260B		0509 14:57	BT
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	0.50					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0204424

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 02							
Volatile Organics by GC/MS 8260 continued				1 8260B		0509 14:57 BT	
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.5				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	2.5				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0204424

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 02								
Volatile Organics by GC/MS 8260 continued				1	8260B		0509 14:57	BT
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					
Surrogate Recovery								
1,2-Dichloroethane-d4	105.	%						
Toluene-d8	102.	%						
4-Bromofluorobenzene	96.0	%						
Dibromofluoromethane	103.	%						
Blank Analysis for sample(s) 03-04								
Volatile Organics by GC/MS 8260				1	8260B		0510 16:47	AR
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	0.50					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	ND	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	ND	ug/l	1.0					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0204424

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 03-04							
Volatile Organics by GC/MS 8260 continued				1 8260B		0510 16:47	AR
p/m-Xylene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.5				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	2.5				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Surrogate Recovery							
1,2-Dichloroethane-d4	96.0	%					
Toluene-d8	94.0	%					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0204424

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 03-04								
Volatile Organics by GC/MS 8260 continued				1	8260B		0510 16:47	AR
4-Bromofluorobenzene	95.0	%						
Dibromofluoromethane	94.0	%						
Blank Analysis for sample(s) 01,05								
Volatile Organics by GC/MS 8260				1	8260B		0510 17:49	RY
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	0.50					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	ND	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	ND	ug/l	1.0					
p/m-Xylene	ND	ug/l	0.50					
o-Xylene	ND	ug/l	0.50					
cis-1,2-Dichloroethene	ND	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,4-Dichlorobutane	ND	ug/l	5.0					
Iodomethane	ND	ug/l	5.0					
1,2,3-Trichloropropane	ND	ug/l	5.0					
Styrene	ND	ug/l	0.50					
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0204424

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01,05								
Volatile Organics by GC/MS 8260 continued				1	8260B		0510 17:49	RY
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
Vinyl acetate	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Ethyl methacrylate	ND	ug/l	5.0					
Acrolein	ND	ug/l	12.					
Acrylonitrile	ND	ug/l	5.0					
Bromochloromethane	ND	ug/l	2.5					
Tetrahydrofuran	ND	ug/l	10.					
2,2-Dichloropropane	ND	ug/l	2.5					
1,2-Dibromoethane	ND	ug/l	2.5					
1,3-Dichloropropane	ND	ug/l	2.5					
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50					
Bromobenzene	ND	ug/l	2.5					
n-Butylbenzene	ND	ug/l	0.50					
sec-Butylbenzene	ND	ug/l	0.50					
tert-Butylbenzene	ND	ug/l	2.5					
o-Chlorotoluene	ND	ug/l	2.5					
p-Chlorotoluene	ND	ug/l	2.5					
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	2.5					
Isopropylbenzene	ND	ug/l	0.50					
p-Isopropyltoluene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	2.5					
n-Propylbenzene	ND	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					
Surrogate Recovery								
1,2-Dichloroethane-d4	99.0	%						
Toluene-d8	102.	%						
4-Bromofluorobenzene	105.	%						
Dibromofluoromethane	102.	%						
Blank Analysis for sample(s) 06								
Volatile Organics by GC/MS 8260				1	8260B		0513 11:05	RY
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0204424

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 06								
Volatile Organics by GC/MS 8260 continued				1	8260B		0513 11:05	RY
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	0.50					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	ND	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	ND	ug/l	1.0					
p/m-Xylene	ND	ug/l	0.50					
o-Xylene	ND	ug/l	0.50					
cis-1,2-Dichloroethene	ND	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,4-Dichlorobutane	ND	ug/l	5.0					
Iodomethane	ND	ug/l	5.0					
1,2,3-Trichloropropane	ND	ug/l	5.0					
Styrene	ND	ug/l	0.50					
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
Vinyl acetate	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Ethyl methacrylate	ND	ug/l	5.0					
Acrolein	ND	ug/l	12.					
Acrylonitrile	ND	ug/l	5.0					
Bromochloromethane	ND	ug/l	2.5					
Tetrahydrofuran	ND	ug/l	10.					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0204424

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 06								
Volatile Organics by GC/MS 8260 continued				1	8260B		0513 11:05	RY
2,2-Dichloropropane	ND	ug/l	2.5					
1,2-Dibromoethane	ND	ug/l	2.5					
1,3-Dichloropropane	ND	ug/l	2.5					
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50					
Bromobenzene	ND	ug/l	2.5					
n-Butylbenzene	ND	ug/l	0.50					
sec-Butylbenzene	ND	ug/l	0.50					
tert-Butylbenzene	ND	ug/l	2.5					
o-Chlorotoluene	ND	ug/l	2.5					
p-Chlorotoluene	ND	ug/l	2.5					
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	2.5					
Isopropylbenzene	ND	ug/l	0.50					
p-Isopropyltoluene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	2.5					
n-Propylbenzene	ND	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					
Surrogate Recovery								
1,2-Dichloroethane-d4	99.0	%						
Toluene-d8	101.	%						
4-Bromofluorobenzene	103.	%						
Dibromofluoromethane	98.0	%						
Blank Analysis for sample(s) 01-06								
SVOC's by GC/MS 8270				1	8270C	0507 09:45	0509 09:31	HL
Acenaphthene	ND	ug/l	5.0					
Benzidine	ND	ug/l	50.					
1,2,4-Trichlorobenzene	ND	ug/l	5.0					
Hexachlorobenzene	ND	ug/l	5.0					
Bis(2-chloroethyl)ether	ND	ug/l	5.0					
1-Chloronaphthalene	ND	ug/l	5.0					
2-Chloronaphthalene	ND	ug/l	6.0					
1,2-Dichlorobenzene	ND	ug/l	5.0					
1,3-Dichlorobenzene	ND	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	5.0					
3,3'-Dichlorobenzidine	ND	ug/l	50.					
2,4-Dinitrotoluene	ND	ug/l	6.0					
2,6-Dinitrotoluene	ND	ug/l	5.0					
Azobenzene	ND	ug/l	5.0					
Fluoranthene	ND	ug/l	5.0					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0204424

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-06							
SVOC's by GC/MS 8270 continued				1 8270C	0507 09:45	0509 09:31	HL
4-Chlorophenyl phenyl ether	ND	ug/l	5.0				
4-Bromophenyl phenyl ether	ND	ug/l	5.0				
Bis(2-chloroisopropyl)ether	ND	ug/l	5.0				
Bis(2-chloroethoxy)methane	ND	ug/l	5.0				
Hexachlorobutadiene	ND	ug/l	10.				
Hexachlorocyclopentadiene	ND	ug/l	10.				
Hexachloroethane	ND	ug/l	5.0				
Isophorone	ND	ug/l	5.0				
Naphthalene	ND	ug/l	5.0				
Nitrobenzene	ND	ug/l	5.0				
NDPA/DPA	ND	ug/l	15.				
n-Nitrosodi-n-propylamine	ND	ug/l	5.0				
Bis(2-ethylhexyl)phthalate	ND	ug/l	10.				
Butyl benzyl phthalate	ND	ug/l	5.0				
Di-n-butylphthalate	ND	ug/l	5.0				
Di-n-octylphthalate	ND	ug/l	5.0				
Diethyl phthalate	ND	ug/l	5.0				
Dimethyl phthalate	ND	ug/l	5.0				
Benzo(a)anthracene	ND	ug/l	5.0				
Benzo(a)pyrene	ND	ug/l	5.0				
Benzo(b)fluoranthene	ND	ug/l	5.0				
Benzo(k)fluoranthene	ND	ug/l	5.0				
Chrysene	ND	ug/l	5.0				
Acenaphthylene	ND	ug/l	5.0				
Anthracene	ND	ug/l	5.0				
Benzo(ghi)perylene	ND	ug/l	5.0				
Fluorene	ND	ug/l	5.0				
Phenanthrene	ND	ug/l	5.0				
Dibenzo(a,h)anthracene	ND	ug/l	5.0				
Indeno(1,2,3-cd)pyrene	ND	ug/l	7.0				
Pyrene	ND	ug/l	5.0				
Benzo(e)pyrene	ND	ug/l	5.0				
Biphenyl	ND	ug/l	5.0				
Perylene	ND	ug/l	5.0				
Aniline	ND	ug/l	10.				
4-Chloroaniline	ND	ug/l	5.0				
1-Methylnaphthalene	ND	ug/l	5.0				
2-Nitroaniline	ND	ug/l	5.0				
3-Nitroaniline	ND	ug/l	5.0				
4-Nitroaniline	ND	ug/l	7.0				
Dibenzofuran	ND	ug/l	5.0				
a,a-Dimethylphenethylamine	ND	ug/l	50.				
Hexachloropropene	ND	ug/l	50.				
Nitrosodi-n-butylamine	ND	ug/l	10.				
2-Methylnaphthalene	ND	ug/l	8.0				
1,2,4,5-Tetrachlorobenzene	ND	ug/l	20.				
Pentachlorobenzene	ND	ug/l	20.				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0204424

Continued

PARAMETER	RESULT	UNITS	RDL	REP	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-06								
SVOC's by GC/MS 8270 continued				1	8270C	0507 09:45	0509 09:31	HL
a-Naphthylamine	ND	ug/l	20.					
b-Naphthylamine	ND	ug/l	20.					
Phenacetin	ND	ug/l	10.					
Dimethoate	ND	ug/l	20.					
4-Aminobiphenyl	ND	ug/l	10.					
Pentachloronitrobenzene	ND	ug/l	10.					
Isodrin	ND	ug/l	10.					
p-Dimethylaminoazobenzene	ND	ug/l	10.					
Chlorobenzilate	ND	ug/l	20.					
3-Methylcholanthrene	ND	ug/l	20.					
Ethyl Methanesulfonate	ND	ug/l	15.					
Acetophenone	ND	ug/l	20.					
Nitrosodipiperidine	ND	ug/l	20.					
7,12-Dimethylbenz(a)anthracene	ND	ug/l	10.					
n-Nitrosodimethylamine	ND	ug/l	50.					
2,4,6-Trichlorophenol	ND	ug/l	5.0					
p-Chloro-m-cresol	ND	ug/l	5.0					
2-Chlorophenol	ND	ug/l	6.0					
2,4-Dichlorophenol	ND	ug/l	10.					
2,4-Dimethylphenol	ND	ug/l	10.					
2-Nitrophenol	ND	ug/l	20.					
4-Nitrophenol	ND	ug/l	10.					
2,4-Dinitrophenol	ND	ug/l	20.					
4,6-Dinitro-o-cresol	ND	ug/l	20.					
Pentachlorophenol	ND	ug/l	20.					
Phenol	ND	ug/l	7.0					
2-Methylphenol	ND	ug/l	6.0					
3-Methylphenol/4-Methylphenol	ND	ug/l	6.0					
2,4,5-Trichlorophenol	ND	ug/l	5.0					
2,6-Dichlorophenol	ND	ug/l	10.					
Benzoic Acid	ND	ug/l	50.					
Benzyl Alcohol	ND	ug/l	10.					
Carbazole	ND	ug/l	5.0					
Pyridine	ND	ug/l	50.					
2-Picoline	ND	ug/l	20.					
Pronamide	ND	ug/l	20.					
Methyl methanesulfonate	ND	ug/l	20.					
Surrogate Recovery								
2-Fluorophenol	19.0	%						
Phenol-d6	16.0	%						
Nitrobenzene-d5	63.0	%						
2-Fluorobiphenyl	75.0	%						
2,4,6-Tribromophenol	70.0	%						
4-Terphenyl-d14	74.0	%						

REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Update III, 1997.

45. Physiologically Available Cyanide (PAC), January 1996 Protocol, Mass DEP 1996.

GLOSSARY OF TERMS AND SYMBOLS

REF Reference number in which test method may be found.
METHOD Method number by which analysis was performed.
ID Initials of the analyst.

Please note that all solid samples are reported on dry weight basis unless noted otherwise.

LIMITATION OF LIABILITIES

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.

Quality Control Acceptance Criteria

Volatile Organics by Method 8260B

surrogate spike % recovery	AQ Limits		Soil Limits	
	LCL	UCL	LCL	UCL
1,2-Dichloroethane-d_4	75%	125%	75%	125%
4-Bromofluorobenzene	75%	125%	75%	125%
Toluene-d_8	75%	125%	75%	125%
Dibromofluoromethane	75%	125%	75%	125%

matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	percent recovery				duplicate and/or MSD	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
1,1-Dichloroethene	61%	145%	59%	172%	all target compounds	
Trichloroethene	71%	120%	62%	137%	20%	30%
Chlorobenzene	75%	130%	60%	133%		
Benzene	76%	127%	66%	142%		
Toluene	76%	125%	59%	139%		

Volatile Organics by Method 8021B

surrogate spike % recovery	AQ Limits		Soil Limits	
	LCL	UCL	LCL	UCL
4-Bromochlorobenzene	70%	110%	70%	120%
4-Bromofluorobenzene	70%	110%	70%	120%

matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	percent recovery				duplicate and/or MSD	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
1,1-Dichloroethene	70%	130%	70%	130%	all target compounds	
Trichloroethene	70%	130%	70%	130%	20%	30%
Chlorobenzene	70%	130%	70%	130%		
Benzene	70%	130%	70%	130%		
Toluene	70%	130%	70%	130%		
Ethylbenzene	70%	130%	70%	130%		

Semi-Volatile Organics by Method 8270C (includes PAHs)

surrogate spike % recovery	AQ Limits		Soil Limits	
	LCL	UCL	LCL	UCL
Nitrobenzene-d_5	23%	120%	23%	120%
Phenol-d_6	10%	120%	10%	120%
2-Fluorophenol	21%	120%	25%	120%
2-Fluorobiphenyl	43%	120%	30%	120%
p-Terphenyl-d_{14}	33%	120%	18%	120%
2,4,6-Tribromophenol	10%	120%	19%	120%

matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	percent recovery				duplicate and/or MSD	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
1,2,4-Trichlorobenzene	39%	98%	38%	107%	all target compounds	
Acenaphthene	46%	118%	31%	137%	40%	50%
2,4-Dinitrotoluene	24%	96%	28%	89%		
Pyrene	26%	127%	35%	142%		
N-Nitroso-di-n-propylamine	41%	116%	41%	126%		
1,4-Dichlorobenzene	36%	97%	28%	104%		
Pentachlorophenol	9%	103%	17%	109%		
Phenol	12%	110%	26%	90%		
2-Chlorophenol	27%	123%	25%	102%		
4-Chloro-3-methylphenol	23%	97%	26%	103%		
4-Nitrophenol	10%	80%	11%	114%		

Quality Control Acceptance Criteria

PCB/Pesticides by Method 8082/8081

surrogate spike % recovery	AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL
2,4,5,6-Tetrachloro-m-xylene	40%	120%	40%	120%
Decachlorobiphenyl	40%	120%	40%	120%

matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	percent recovery AQ Limits LCL	percent recovery AQ Limits UCL	percent recovery Soil Limits LCL	percent recovery Soil Limits UCL	duplicate and/or MSD AQ Limits RPD	duplicate and/or MSD Soil Limits RPD
Lindane	56%	123%	46%	127%	all target compounds	
Heptachlor	40%	131%	35%	130%	30%	50%
Aldrin	40%	120%	34%	132%		
Dieldrin	52%	126%	31%	134%		
Endrin	56%	121%	42%	139%		
4,4'-DDT	38%	127%	23%	134%		
Aroclor 1242/1016	40%	140%	40%	140%		
Aroclor 1260	40%	140%	40%	140%		

Volatile Petroleum Hydrocarbons (VPH) by MA DEP 98-1

surrogate spike % recovery	AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL
2,5-Dibromotoluene	70%	130%	70%	130%

laboratory control sample (LCS)	percent recovery AQ Limits LCL	percent recovery AQ Limits UCL	percent recovery Soil Limits LCL	percent recovery Soil Limits UCL	duplicate AQ Limits RPD	duplicate Soil Limits RPD
all compounds	70%	130%	70%	130%	50%	50%

Extractable Petroleum Hydrocarbons (EPH) by MA DEP 98-1

surrogate spike % recovery	AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL
Chloro-octadecane	40%	140%	40%	140%
ortho-Terphenyl	40%	140%	40%	140%
2-Fluorobiphenyl (fractionation)	40%	140%	40%	140%
2-Bromonaphthalene (fractionation)	40%	140%	40%	140%

laboratory control sample (LCS)	percent recovery AQ Limits LCL	percent recovery AQ Limits UCL	percent recovery Soil Limits LCL	percent recovery Soil Limits UCL	duplicate AQ Limits RPD	duplicate Soil Limits RPD
all compounds	40%	140%	40%	140%	50%	50%

TPH (GC-FID) by Method 8100M

surrogate spike % recovery	AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL	duplicate AQ Limits RPD	duplicate Soil Limits RPD
ortho-Terphenyl	40%	140%	40%	140%	40%	40%

TPH by Method 418.1

matrix spike (MS) & laboratory control sample (LCS)	percent recovery AQ Limits LCL	percent recovery AQ Limits UCL	percent recovery Soil Limits LCL	percent recovery Soil Limits UCL	duplicate AQ Limits RPD	duplicate Soil Limits RPD
TPH	60%	140%	60%	140%	40%	40%

Quality Control Acceptance Criteria

Trace Metals by Method 6010B/7000 series

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
target analyte	75%	125%	70%	140%	20%	35%

Mercury by Method 7470A/7471A

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
mercury	70%	130%	60%	140%	35%	45%

Total Cyanide by Method 9010B

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
cyanide	80%	120%	65%	135%	30%	40%

Total Phenol by Method 9065

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
phenol	70%	130%	65%	135%	20%	30%

HALEY & ALDRICH
Haley & Aldrich, Inc.
465 Medford St.,
Suite 2200,
Boston, MA 02129-1400

CHAIN OF CUSTODY RECORD

Phone (617) 886-7400
Fax (617) 886-7600

H&A FILE NO. 06558-651
PROJECT NAME Malden MGP
H&A CONTACT Sean Carroll

LABORATORY Alpha Analytical
ADDRESS Westbord MA
CONTACT Peter Hawrachsorn

DELIVERY DATE 5/6/02
TURNAROUND TIME Standard
PROJECT MANAGER B. Wilkinson

Analysis Requested

Sample No.	Date	Time	Depth	Type	VOA	ABNs Full Addendum 6/14	Metals RCRA (8) PRTT	Pesticides PCBs	VPH Full Suite C-range only	EPH Full Suite C-range only	TPH (specify)	TCLP (specify)	Reactivity Ignitability Corrosivity	TCN	PAC*		Number of Containers
DUP-A	5/5/02	0930		Water	X	X	X							X	X		8
02B-B920-OW	5/5/02	1020		Water	X	X	X							X	X		8*
02B-B921-OW	5/5/02	1055		Water	X	X	X							X	X		8
02B-B923-OW	5/5/02	1300		Water	X	X	X							X	X		8
02B-B918-OW	5/5/02	1335		Water	X	X	X							X	X		8
02B-B922-OW	5/5/02	1525		Water	X	X	X							X	X		8

Comments (special instructions, precautions, additional method numbers, etc.)

*Note: Please analyze all samples for Total cyanide, and physically available when TCN detected.

(* Two samples broke while being taken by Sonu)

Sampled and Relinquished by
Sign [signature]
Print Sean M. Carroll
Firm H+A
Date 5/6/02 Time 14:30

Received by
Sign [signature]
Print [signature]
Firm H+A
Date 5/6/02 Time 1420

Relinquished by
Sign [signature]
Print
Firm
Date Time

Received by
Sign [signature]
Print
Firm
Date 5/6 Time 1730

Relinquished by
Sign
Print
Firm
Date Time

Received by
Sign
Print
Firm
Date Time

LIQUID

VOA Vial	
Amber Glass	
Plastic Bottle	
Preservative	
Volume	

SOLID

VOA Vial	
Amber Glass	
Clear Glass	
Preservative	
Volume	

Sampling Comments

Evidence samples were tampered with? YES NO
If YES, please explain in section below.

PRESERVATION KEY

A Sample chilled	C NaOH	E H_2SO_4	G Methanol
B Sample filtered	D HNO_3	F HCL	H Sodium Bisulfate

laboratory CANARY - Project Manager PINK Haley & Aldrich Laboratory GOLDENROD Haley & Aldrich Contact

RECEIVED
MAY 28 2002
Haley & Aldrich, Inc.

ALPHA ANALYTICAL LABORATORIES

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Westborough, Massachusetts 01581-1019
(508) 898-9220 www.alphalab.com

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CERTIFICATE OF ANALYSIS

Client: Haley & Aldrich, Inc.

Address: 465 Medford Street, Suite 2200
Boston, MA 02129-1400

Attn: Mr. Steve Provencal

Project Number: 06558-631

Site: MALDEN MGP

Laboratory Job Number: L0204505

Invoice Number: 63440

Date Received: 08-MAY-02

Date Reported: 23-MAY-02

Delivery Method: Alpha

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0204505-01	GP98-103-OW	MALDEN, MA
L0204505-02	MW-5	MALDEN, MA

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by: James R. Roth, PhD

James R. Roth, PhD - Technical Director
This document electronically signed

ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT

Laboratory Job Number: L0204505

Alpha Report L0204505:

Report Submission

Please note that this report replaces the report issued on May 15, 2002. The report has been amended to correct the dates of digestion for the analysis of Total Metals on Alpha Samples L0204505-01 through -02.

Semi-Volatile Organics

One or more of the matrix spike/matrix spike duplicate percent recoveries for 8270 analysis associated with Alpha Sample(s) L0204505-01 and -02 are above the acceptance criteria for the method. This has been attributed to matrix interference.

Volatile Organics

Alpha Sample(s) L0204505-02 required analysis on dilution due to the presence of target compounds.

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0204505-01
GP98-103-OW
Sample Matrix: WATER

Date Collected: 08-MAY-2002 09:45
Date Received : 08-MAY-2002
Date Reported : 23-MAY-2002

Condition of Sample: Satisfactory

Field Prep: Field Filtered

Number & Type of Containers: 2-Amber,3-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Cyanide, Total	ND	mg/l	0.005	1	9010B	0514 15:00	0515 10:42	ED
Cyanide, Physiologically Available	ND	mg/l	0.005	45		0508 17:00	0509 13:42	ED
Total Metals				1	3015			
Arsenic, Total	ND	mg/l	0.005	1	6010B	0509 11:40	0514 16:40	MG
Barium, Total	0.02	mg/l	0.01	1	6010B	0509 11:40	0514 16:40	MG
Cadmium, Total	ND	mg/l	0.005	1	6010B	0509 11:40	0514 16:40	MG
Chromium, Total	ND	mg/l	0.01	1	6010B	0509 11:40	0514 16:40	MG
Lead, Total	ND	mg/l	0.050	1	6010B	0509 11:40	0514 16:40	MG
Mercury, Total	ND	mg/l	0.0005	1	7470A	0513 17:45	0514 10:45	DM
Selenium, Total	ND	mg/l	0.005	1	6010B	0509 11:40	0514 16:40	MG
Silver, Total	ND	mg/l	0.007	1	6010B	0509 11:40	0514 16:40	MG
Volatile Organics by GC/MS 8260				1	8260B		0509 23:14	BT
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	0.50					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204505-01
GP98-103-OW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		0509 23:14	BT
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	ND	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	ND	ug/l	1.0					
p/m-Xylene	ND	ug/l	0.50					
o-Xylene	ND	ug/l	0.50					
cis-1,2-Dichloroethene	ND	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,4-Dichlorobutane	ND	ug/l	5.0					
Iodomethane	ND	ug/l	5.0					
1,2,3-Trichloropropane	ND	ug/l	5.0					
Styrene	ND	ug/l	0.50					
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
Vinyl acetate	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Ethyl methacrylate	ND	ug/l	5.0					
Acrolein	ND	ug/l	12.					
Acrylonitrile	ND	ug/l	5.0					
Bromochloromethane	ND	ug/l	2.5					
Tetrahydrofuran	ND	ug/l	10.					
2,2-Dichloropropane	ND	ug/l	2.5					
1,2-Dibromoethane	ND	ug/l	2.5					
1,3-Dichloropropane	ND	ug/l	2.5					
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50					
Bromobenzene	ND	ug/l	2.5					
n-Butylbenzene	ND	ug/l	0.50					
sec-Butylbenzene	ND	ug/l	0.50					
tert-Butylbenzene	ND	ug/l	2.5					
o-Chlorotoluene	ND	ug/l	2.5					
p-Chlorotoluene	ND	ug/l	2.5					
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	2.5					
Isopropylbenzene	ND	ug/l	0.50					
p-Isopropyltoluene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	2.5					
n-Propylbenzene	ND	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204505-01
GP98-103-OW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		0509 23:14	BT
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					
Surrogate Recovery								
1,2-Dichloroethane-d4	101.	%						
Toluene-d8	103.	%						
4-Bromofluorobenzene	100.	%						
Dibromofluoromethane	97.0	%						
SVOC's by GC/MS 8270				1	8270C	0505 09:45	0511 19:26	HL
Acenaphthene	ND	ug/l	5.0					
Benzidine	ND	ug/l	50.					
1,2,4-Trichlorobenzene	ND	ug/l	5.0					
Hexachlorobenzene	ND	ug/l	5.0					
Bis(2-chloroethyl)ether	ND	ug/l	5.0					
1-Chloronaphthalene	ND	ug/l	5.0					
2-Chloronaphthalene	ND	ug/l	6.0					
1,2-Dichlorobenzene	ND	ug/l	5.0					
1,3-Dichlorobenzene	ND	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	5.0					
3,3'-Dichlorobenzidine	ND	ug/l	50.					
2,4-Dinitrotoluene	ND	ug/l	6.0					
2,6-Dinitrotoluene	ND	ug/l	5.0					
Azobenzene	ND	ug/l	5.0					
Fluoranthene	ND	ug/l	5.0					
4-Chlorophenyl phenyl ether	ND	ug/l	5.0					
4-Bromophenyl phenyl ether	ND	ug/l	5.0					
Bis(2-chloroisopropyl)ether	ND	ug/l	5.0					
Bis(2-chloroethoxy)methane	ND	ug/l	5.0					
Hexachlorobutadiene	ND	ug/l	10.					
Hexachlorocyclopentadiene	ND	ug/l	10.					
Hexachloroethane	ND	ug/l	5.0					
Isophorone	ND	ug/l	5.0					
Naphthalene	ND	ug/l	5.0					
Nitrobenzene	ND	ug/l	5.0					
NDPA/DPA	ND	ug/l	15.					
n-Nitrosodi-n-propylamine	ND	ug/l	5.0					
Bis(2-ethylhexyl)phthalate	ND	ug/l	10.					
Butyl benzyl phthalate	ND	ug/l	5.0					
Di-n-butylphthalate	ND	ug/l	5.0					
Di-n-octylphthalate	ND	ug/l	5.0					
Diethyl phthalate	ND	ug/l	5.0					
Dimethyl phthalate	ND	ug/l	5.0					
Benzo(a)anthracene	ND	ug/l	5.0					
Benzo(a)pyrene	ND	ug/l	5.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204505-01
GP98-103-OW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1	8270C	0509 09:45	0511 19:26	HL
Benzo(b)fluoranthene	ND	ug/l	5.0					
Benzo(k)fluoranthene	ND	ug/l	5.0					
Chrysene	ND	ug/l	5.0					
Acenaphthylene	ND	ug/l	5.0					
Anthracene	ND	ug/l	5.0					
Benzo(ghi)perylene	ND	ug/l	5.0					
Fluorene	ND	ug/l	5.0					
Phenanthrene	ND	ug/l	5.0					
Dibenzo(a,h)anthracene	ND	ug/l	5.0					
Indeno(1,2,3-cd)pyrene	ND	ug/l	7.0					
Pyrene	ND	ug/l	5.0					
Benzo(e)pyrene	ND	ug/l	5.0					
Biphenyl	ND	ug/l	5.0					
Perylene	ND	ug/l	5.0					
Aniline	ND	ug/l	10.					
4-Chloroaniline	ND	ug/l	5.0					
1-Methylnaphthalene	ND	ug/l	5.0					
2-Nitroaniline	ND	ug/l	5.0					
3-Nitroaniline	ND	ug/l	5.0					
4-Nitroaniline	ND	ug/l	7.0					
Dibenzofuran	ND	ug/l	5.0					
a,a-Dimethylphenethylamine	ND	ug/l	50.					
Hexachloropropene	ND	ug/l	50.					
Nitrosodi-n-butylamine	ND	ug/l	10.					
2-Methylnaphthalene	ND	ug/l	8.0					
1,2,4,5-Tetrachlorobenzene	ND	ug/l	20.					
Pentachlorobenzene	ND	ug/l	20.					
a-Naphthylamine	ND	ug/l	20.					
b-Naphthylamine	ND	ug/l	20.					
Phenacetin	ND	ug/l	10.					
Dimethoate	ND	ug/l	20.					
4-Aminobiphenyl	ND	ug/l	10.					
Pentachloronitrobenzene	ND	ug/l	10.					
Isodrin	ND	ug/l	10.					
p-Dimethylaminoazobenzene	ND	ug/l	10.					
Chlorobenzilate	ND	ug/l	20.					
3-Methylcholanthrene	ND	ug/l	20.					
Ethyl Methanesulfonate	ND	ug/l	15.					
Acetophenone	ND	ug/l	20.					
Nitrosodipiperidine	ND	ug/l	20.					
7,12-Dimethylbenz(a)anthracene	ND	ug/l	10.					
n-Nitrosodimethylamine	ND	ug/l	50.					
2,4,6-Trichlorophenol	ND	ug/l	5.0					
p-Chloro-m-cresol	ND	ug/l	5.0					
2-Chlorophenol	ND	ug/l	6.0					
2,4-Dichlorophenol	ND	ug/l	10.					
2,4-Dimethylphenol	ND	ug/l	10.					
2-Nitrophenol	ND	ug/l	20.					
4-Nitrophenol	ND	ug/l	10.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204505-01
GP98-103-OW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1	8270C	0509 09:45	0511 19:26	HL
2,4-Dinitrophenol	ND	ug/l	20.					
4,6-Dinitro-o-cresol	ND	ug/l	20.					
Pentachlorophenol	ND	ug/l	20.					
Phenol	ND	ug/l	7.0					
2-Methylphenol	ND	ug/l	6.0					
3-Methylphenol/4-Methylphenol	ND	ug/l	6.0					
2,4,5-Trichlorophenol	ND	ug/l	5.0					
2,6-Dichlorophenol	ND	ug/l	10.					
Benzoic Acid	ND	ug/l	50.					
Benzyl Alcohol	ND	ug/l	10.					
Carbazole	ND	ug/l	5.0					
Pyridine	ND	ug/l	50.					
2-Picoline	ND	ug/l	20.					
Pronamide	ND	ug/l	20.					
Methyl methanesulfonate	ND	ug/l	20.					
Surrogate Recovery								
2-Fluorophenol	44.0	%						
Phenol-d6	29.0	%						
Nitrobenzene-d5	67.0	%						
2-Fluorobiphenyl	81.0	%						
2,4,6-Tribromophenol	87.0	%						
4-Terphenyl-d14	89.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0204505-02
MW-5
Sample Matrix: WATER

Date Collected: 08-MAY-2002 11:00
Date Received : 08-MAY-2002
Date Reported : 23-MAY-2002

Condition of Sample: Satisfactory

Field Prep: Field Filtered

Number & Type of Containers: 2-Amber,3-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Cyanide, Total	0.053	mg/l	0.005	1	9010B	0514 15:00	0515 10:43	ED
Cyanide, Physiologically Available	0.017	mg/l	0.005	45		0508 17:00	0509 13:42	ED
Total Metals				1	3015			
Arsenic, Total	0.033	mg/l	0.005	1	6010B	0509 11:40	0514 16:45	MG
Barium, Total	0.06	mg/l	0.01	1	6010B	0509 11:40	0514 16:45	MG
Cadmium, Total	ND	mg/l	0.005	1	6010B	0509 11:40	0514 16:45	MG
Chromium, Total	ND	mg/l	0.01	1	6010B	0509 11:40	0514 16:45	MG
Lead, Total	ND	mg/l	0.050	1	6010B	0509 11:40	0514 16:45	MG
Mercury, Total	ND	mg/l	0.0005	1	7470A	0513 17:45	0514 10:47	DM
Selenium, Total	ND	mg/l	0.005	1	6010B	0509 11:40	0514 16:45	MG
Silver, Total	ND	mg/l	0.007	1	6010B	0509 11:40	0514 16:45	MG
Volatile Organics by GC/MS 8260				1	8260B		0514 14:15	BT
Methylene chloride	ND	ug/l	10.					
1,1-Dichloroethane	ND	ug/l	1.5					
Chloroform	ND	ug/l	1.5					
Carbon tetrachloride	ND	ug/l	1.0					
1,2-Dichloropropane	ND	ug/l	3.5					
Dibromochloromethane	ND	ug/l	1.0					
1,1,2-Trichloroethane	ND	ug/l	1.5					
Tetrachloroethene	ND	ug/l	1.0					
Chlorobenzene	ND	ug/l	1.0					
Trichlorofluoromethane	ND	ug/l	5.0					
1,2-Dichloroethane	ND	ug/l	1.0					
1,1,1-Trichloroethane	ND	ug/l	1.0					
Bromodichloromethane	ND	ug/l	1.0					
trans-1,3-Dichloropropene	ND	ug/l	1.0					
cis-1,3-Dichloropropene	ND	ug/l	1.0					
1,1-Dichloropropene	ND	ug/l	5.0					
Bromoform	ND	ug/l	1.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0					
Benzene	33.	ug/l	1.0					
Toluene	ND	ug/l	1.5					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204505-02
MW-5

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1 8260B		0514 14:15	BT
Ethylbenzene	45.	ug/l	1.0				
Chloromethane	ND	ug/l	5.0				
Bromomethane	ND	ug/l	2.0				
Vinyl chloride	ND	ug/l	2.0				
Chloroethane	ND	ug/l	2.0				
1,1-Dichloroethene	ND	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.5				
Trichloroethene	ND	ug/l	1.0				
1,2-Dichlorobenzene	ND	ug/l	5.0				
1,3-Dichlorobenzene	ND	ug/l	5.0				
1,4-Dichlorobenzene	ND	ug/l	5.0				
Methyl tert butyl ether	ND	ug/l	2.0				
p/m-Xylene	ND	ug/l	1.0				
o-Xylene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
Dibromomethane	ND	ug/l	10.				
1,4-Dichlorobutane	ND	ug/l	10.				
Iodomethane	ND	ug/l	10.				
1,2,3-Trichloropropane	ND	ug/l	10.				
Styrene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
Acetone	ND	ug/l	10.				
Carbon disulfide	ND	ug/l	10.				
2-Butanone	ND	ug/l	10.				
Vinyl acetate	ND	ug/l	10.				
4-Methyl-2-pentanone	ND	ug/l	10.				
2-Hexanone	ND	ug/l	10.				
Ethyl methacrylate	ND	ug/l	10.				
Acrolein	ND	ug/l	25.				
Acrylonitrile	ND	ug/l	10.				
Bromochloromethane	ND	ug/l	5.0				
Tetrahydrofuran	ND	ug/l	20.				
2,2-Dichloropropane	ND	ug/l	5.0				
1,2-Dibromoethane	ND	ug/l	5.0				
1,3-Dichloropropane	ND	ug/l	5.0				
1,1,1,2-Tetrachloroethane	ND	ug/l	1.0				
Bromobenzene	ND	ug/l	5.0				
n-Butylbenzene	ND	ug/l	1.0				
sec-Butylbenzene	ND	ug/l	1.0				
tert-Butylbenzene	ND	ug/l	5.0				
o-Chlorotoluene	ND	ug/l	5.0				
p-Chlorotoluene	ND	ug/l	5.0				
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0				
Hexachlorobutadiene	ND	ug/l	5.0				
Isopropylbenzene	ND	ug/l	1.0				
p-Isopropyltoluene	ND	ug/l	1.0				
Naphthalene	ND	ug/l	5.0				
n-Propylbenzene	ND	ug/l	1.0				
1,2,3-Trichlorobenzene	ND	ug/l	5.0				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204505-02
MW-5

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		0514 14:15	BT
1,2,4-Trichlorobenzene	ND	ug/l	5.0					
1,3,5-Trimethylbenzene	ND	ug/l	5.0					
1,2,4-Trimethylbenzene	ND	ug/l	5.0					
trans-1,4-Dichloro-2-butene	ND	ug/l	5.0					
Ethyl ether	ND	ug/l	5.0					
Surrogate Recovery								
1,2-Dichloroethane-d4	108.	%						
Toluene-d8	101.	%						
4-Bromofluorobenzene	105.	%						
Dibromofluoromethane	102.	%						
SVOC's by GC/MS 8270				1	8270C	0509 09:45	0515 13:55	HL
Acenaphthene	ND	ug/l	5.0					
Benzidine	ND	ug/l	50.					
1,2,4-Trichlorobenzene	ND	ug/l	5.0					
Hexachlorobenzene	ND	ug/l	5.0					
Bis(2-chloroethyl)ether	ND	ug/l	5.0					
1-Chloronaphthalene	ND	ug/l	5.0					
2-Chloronaphthalene	ND	ug/l	6.0					
1,2-Dichlorobenzene	ND	ug/l	5.0					
1,3-Dichlorobenzene	ND	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	5.0					
3,3'-Dichlorobenzidine	ND	ug/l	50.					
2,4-Dinitrotoluene	ND	ug/l	6.0					
2,6-Dinitrotoluene	ND	ug/l	5.0					
Azobenzene	ND	ug/l	5.0					
Fluoranthene	ND	ug/l	5.0					
4-Chlorophenyl phenyl ether	ND	ug/l	5.0					
4-Bromophenyl phenyl ether	ND	ug/l	5.0					
Bis(2-chloroisopropyl)ether	ND	ug/l	5.0					
Bis(2-chloroethoxy)methane	ND	ug/l	5.0					
Hexachlorobutadiene	ND	ug/l	10.					
Hexachlorocyclopentadiene	ND	ug/l	10.					
Hexachloroethane	ND	ug/l	5.0					
Isophorone	ND	ug/l	5.0					
Naphthalene	ND	ug/l	5.0					
Nitrobenzene	ND	ug/l	5.0					
NDPA/DPA	ND	ug/l	15.					
n-Nitrosodi-n-propylamine	ND	ug/l	5.0					
Bis(2-ethylhexyl)phthalate	ND	ug/l	10.					
Butyl benzyl phthalate	ND	ug/l	5.0					
Di-n-butylphthalate	ND	ug/l	5.0					
Di-n-octylphthalate	ND	ug/l	5.0					
Diethyl phthalate	ND	ug/l	5.0					
Dimethyl phthalate	ND	ug/l	5.0					
Benzo(a)anthracene	ND	ug/l	5.0					
Benzo(a)pyrene	ND	ug/l	5.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204505-02
MW-5

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1	8270C	0509 09:45	0515 13:55	KL
Benzo(b)fluoranthene	ND	ug/l	5.0					
Benzo(k)fluoranthene	ND	ug/l	5.0					
Chrysene	ND	ug/l	5.0					
Acenaphthylene	ND	ug/l	5.0					
Anthracene	ND	ug/l	5.0					
Benzo(ghi)perylene	ND	ug/l	5.0					
Fluorene	ND	ug/l	5.0					
Phenanthrene	ND	ug/l	5.0					
Dibenzo(a,h)anthracene	ND	ug/l	5.0					
Indeno(1,2,3-cd)pyrene	ND	ug/l	7.0					
Pyrene	ND	ug/l	5.0					
Benzo(e)pyrene	ND	ug/l	5.0					
Biphenyl	ND	ug/l	5.0					
Perylene	ND	ug/l	5.0					
Aniline	ND	ug/l	10.					
4-Chloroaniline	ND	ug/l	5.0					
1-Methylnaphthalene	ND	ug/l	5.0					
2-Nitroaniline	ND	ug/l	5.0					
3-Nitroaniline	ND	ug/l	5.0					
4-Nitroaniline	ND	ug/l	7.0					
Dibenzofuran	ND	ug/l	5.0					
a,a-Dimethylphenethylamine	ND	ug/l	50.					
Hexachloropropene	ND	ug/l	50.					
Nitrosodi-n-butylamine	ND	ug/l	10.					
2-Methylnaphthalene	ND	ug/l	8.0					
1,2,4,5-Tetrachlorobenzene	ND	ug/l	20.					
Pentachlorobenzene	ND	ug/l	20.					
a-Naphthylamine	ND	ug/l	20.					
b-Naphthylamine	ND	ug/l	20.					
Phenacetin	ND	ug/l	10.					
Dimethoate	ND	ug/l	20.					
4-Aminobiphenyl	ND	ug/l	10.					
Pentachloronitrobenzene	ND	ug/l	10.					
Isodrin	ND	ug/l	10.					
p-Dimethylaminoazobenzene	ND	ug/l	10.					
Chlorobenzilate	ND	ug/l	20.					
3-Methylcholanthrene	ND	ug/l	20.					
Ethyl Methanesulfonate	ND	ug/l	15.					
Acetophenone	ND	ug/l	20.					
Nitrosodipiperidine	ND	ug/l	20.					
7,12-Dimethylbenz(a)anthracene	ND	ug/l	10.					
n-Nitrosodimethylamine	ND	ug/l	50.					
2,4,6-Trichlorophenol	ND	ug/l	5.0					
p-Chloro-m-cresol	ND	ug/l	5.0					
2-Chlorophenol	ND	ug/l	6.0					
2,4-Dichlorophenol	ND	ug/l	10.					
2,4-Dimethylphenol	ND	ug/l	10.					
2-Nitrophenol	ND	ug/l	20.					
4-Nitrophenol	ND	ug/l	10.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204505-02
MW-5

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1	8270C	0509 09:45	0515 13:55	HL
2,4-Dinitrophenol	ND	ug/l	20.					
4,6-Dinitro-o-cresol	ND	ug/l	20.					
Pentachlorophenol	ND	ug/l	20.					
Phenol	ND	ug/l	7.0					
2-Methylphenol	ND	ug/l	6.0					
3-Methylphenol/4-Methylphenol	ND	ug/l	6.0					
2,4,5-Trichlorophenol	ND	ug/l	5.0					
2,6-Dichlorophenol	ND	ug/l	10.					
Benzoic Acid	ND	ug/l	50.					
Benzyl Alcohol	ND	ug/l	10.					
Carbazole	ND	ug/l	5.0					
Pyridine	ND	ug/l	50.					
2-Picoline	ND	ug/l	20.					
Pronamide	ND	ug/l	20.					
Methyl methanesulfonate	ND	ug/l	20.					
Surrogate Recovery								
2-Fluorophenol	56.0	%						
Phenol-d6	34.0	%						
Nitrobenzene-d5	81.0	%						
2-Fluorobiphenyl	98.0	%						
2,4,6-Tribromophenol	101.	%						
4-Terphenyl-d14	94.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0204505

Parameter	Value 1	Value 2	RPD	Units
Cyanide, Total for sample(s) 01-02 (L0204505-01, WG112921)				
Cyanide, Total	ND	ND	NC	mg/l
Cyanide, Physiologically Available for sample(s) 01-02 (L0204424-01, WG112444)				
Cyanide, Physiologically Available	0.128	0.122	5	mg/l
Total Metals for sample(s) 01-02 (L0204475-02, WG112852)				
Arsenic, Total	ND	ND	NC	mg/l
Barium, Total	ND	ND	NC	mg/l
Cadmium, Total	ND	ND	NC	mg/l
Chromium, Total	ND	ND	NC	mg/l
Lead, Total	ND	ND	NC	mg/l
Total Metals for sample(s) 01-02 (L0204513-10, WG112808)				
Mercury, Total	ND	ND	NC	mg/l

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0204505

Parameter	% Recovery
Cyanide, Total LCS for sample(s) 01-02 (WG112921)	
Cyanide, Total	95
Cyanide, Physiologically Available LCS for sample(s) 01-02 (WG112444)	
Cyanide, Physiologically Available	102
Total Metals LCS for sample(s) 01-02 (WG112852)	
Arsenic, Total	105
Barium, Total	105
Cadmium, Total	114
Chromium, Total	105
Lead, Total	109
Selenium, Total	106
Silver, Total	107
Total Metals LCS for sample(s) 01-02 (WG112808)	
Mercury, Total	117
Volatile Organics by GC/MS 8260 LCS for sample(s) 02 (WG112882)	
Chlorobenzene	102
Benzene	106
Toluene	99
1,1-Dichloroethene	107
Trichloroethene	112
Surrogate Recovery	
1,2-Dichloroethane-d4	102
Toluene-d8	97
4-Bromofluorobenzene	95
Dibromofluoromethane	100
Volatile Organics by GC/MS 8260 LCS for sample(s) 01 (WG112096)	
Chlorobenzene	95
Benzene	101
Toluene	99
1,1-Dichloroethene	91
Trichloroethene	99
Surrogate Recovery	
1,2-Dichloroethane-d4	98
Toluene-d8	104
4-Bromofluorobenzene	89
Dibromofluoromethane	101
SVOC's by GC/MS 8270 LCS for sample(s) 01-02 (WG112502)	
Acenaphthene	74
1,2,4-Trichlorobenzene	69
2-Chloronaphthalene	67
1,2-Dichlorobenzene	62

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0204505

Continued

Parameter	% Recovery
SVOC's by GC/MS 8270 LCS for sample(s) 01-02 (WG112502)	
1,4-Dichlorobenzene	60
2,4-Dinitrotoluene	96
2,6-Dinitrotoluene	89
Fluoranthene	99
4-Chlorophenyl phenyl ether	80
n-Nitrosodi-n-propylamine	56
Butyl benzyl phthalate	91
Anthracene	86
Pyrene	99
Hexachloropropene	38
P-Chloro-M-Cresol	74
2-Chlorophenol	64
2-Nitrophenol	76
4-Nitrophenol	32
2,4-Dinitrophenol	100
Pentachlorophenol	89
Phenol	20
Surrogate Recovery	
2-Fluorophenol	24
Phenol-d6	19
Nitrobenzene-d5	63
2-Fluorobiphenyl	78
2,4,6-Tribromophenol	89
4-Terphenyl-d14	91
Cyanide, Total SPIKE for sample(s) 01-02 (L0204593-01, WG112921)	
Cyanide, Total	99
Total Metals SPIKE for sample(s) 01-02 (L0204475-02, WG112852)	
Arsenic, Total	98
Barium, Total	105
Cadmium, Total	114
Chromium, Total	100
Lead, Total	104
Selenium, Total	98
Silver, Total	102
Total Metals SPIKE for sample(s) 01-02 (L0204513-11, WG112808)	
Mercury, Total	118

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0204505

Parameter	MS %	MSD %	RPD
Volatile Organics by GC/MS 8260 for sample(s) 01 (L0204239-02, WG112096)			
Chlorobenzene	96	103	7
Benzene	101	105	4
Toluene	101	108	7
1,1-Dichloroethene	97	100	3
Trichloroethene	100	106	6
Volatile Organics by GC/MS 8260 for sample(s) 02 (L0204457-02, WG112882)			
Chlorobenzene	95	98	2
Benzene	94	95	2
Toluene	95	96	1
1,1-Dichloroethene	94	100	7
Trichloroethene	102	104	2
SVOC's by GC/MS 8270 for sample(s) 01-02 (L0204517-01, WG112502)			
Acenaphthene	78	83	6
1,2,4-Trichlorobenzene	64	74	14
2-Chloronaphthalene	69	74	7
1,2-Dichlorobenzene	59	59	0
1,4-Dichlorobenzene	59	59	0
2,4-Dinitrotoluene	98	110	12
2,6-Dinitrotoluene	93	98	5
Fluoranthene	98	98	0
4-Chlorophenyl phenyl ether	83	88	6
N-Nitrosodi-n-propylamine	59	54	9
Butyl benzyl phthalate	88	88	0
Anthracene	88	83	6
Pyrene	98	98	0
Hexachloropropene	43	49	13
P-Chloro-M-Cresol	74	81	9
2-Chlorophenol	66	69	4
2-Nitrophenol	74	71	4
4-Nitrophenol	76	81	6
2,4-Dinitrophenol	110	120	9
Pentachlorophenol	100	93	7
Phenol	47	47	0

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0204505

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-02								
Cyanide, Total	ND	mg/l	0.005	1	9010B	0514 15:00	0515 10:39	ED
Blank Analysis for sample(s) 01-02								
Cyanide, Physiologically Available	ND	mg/l	0.005	45		0508 17:00	0509 13:26	ED
Blank Analysis for sample(s) 01-02								
Total Metals				1	3015			
Arsenic, Total	ND	mg/l	0.005	1	6010B	0509 11:40	0514 10:55	MG
Barium, Total	ND	mg/l	0.01	1	6010B	0509 11:40	0514 10:55	MG
Cadmium, Total	ND	mg/l	0.005	1	6010B	0509 11:40	0514 10:55	MG
Chromium, Total	ND	mg/l	0.01	1	6010B	0509 11:40	0514 10:55	MG
Lead, Total	ND	mg/l	0.050	1	6010B	0509 11:40	0514 10:55	MG
Selenium, Total	ND	mg/l	0.005	1	6010B	0509 11:40	0514 10:55	MG
Silver, Total	ND	mg/l	0.007	1	6010B	0509 11:40	0514 10:55	MG
Blank Analysis for sample(s) 01-02								
Total Metals								
Mercury, Total	ND	mg/l	0.0004	1	7470A	0512 17:45	0514 10:23	DM
Blank Analysis for sample(s) 01								
Volatile Organics by GC/MS 8260				1	8260B		0509 14:57	BT
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	0.50					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0204505

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01							
Volatile Organics by GC/MS 8260 continued				1 8260B		0509 14:57	BT
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.5				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	2.5				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0204505

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01							
Volatile Organics by GC/MS 8260 continued				1 8260B		0509 14:57	BT
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Surrogate Recovery							
1,2-Dichloroethane-d4	105.	%					
Toluene-d8	102.	%					
4-Bromofluorobenzene	96.0	%					
Dibromofluoromethane	103.	%					
Blank Analysis for sample(s) 02							
Volatile Organics by GC/MS 8260				1 8260B		0514 10:13	BT
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	ND	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	2.5				
Bromoform	ND	ug/l	0.50				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.75				
Ethylbenzene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0204505

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 02							
Volatile Organics by GC/MS 8260 continued				1 8260B		0514 10:13 BT	
p/m-Xylene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.5				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	2.5				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Surrogate Recovery							
1,2-Dichloroethane-d4	108.	%					
Toluene-d8	97.0	%					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0204505

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 02							
Volatile Organics by GC/MS 8260 continued				1 8260B		0514 10:13	BT
4-Bromofluorobenzene	105.	%					
Dibromofluoromethane	101.	%					
Blank Analysis for sample(s) 01-02							
SVOC's by GC/MS 8270				1 8270C	0509 09:45	0511 11:10	HL
Acenaphthene	ND	ug/l	5.0				
Benzidine	ND	ug/l	50.				
1,2,4-Trichlorobenzene	ND	ug/l	5.0				
Hexachlorobenzene	ND	ug/l	5.0				
Bis(2-chloroethyl)ether	ND	ug/l	5.0				
1-Chloronaphthalene	ND	ug/l	5.0				
2-Chloronaphthalene	ND	ug/l	6.0				
1,2-Dichlorobenzene	ND	ug/l	5.0				
1,3-Dichlorobenzene	ND	ug/l	5.0				
1,4-Dichlorobenzene	ND	ug/l	5.0				
3,3'-Dichlorobenzidine	ND	ug/l	50.				
2,4-Dinitrotoluene	ND	ug/l	6.0				
2,6-Dinitrotoluene	ND	ug/l	5.0				
Azobenzene	ND	ug/l	5.0				
Fluoranthene	ND	ug/l	5.0				
4-Chlorophenyl phenyl ether	ND	ug/l	5.0				
4-Bromophenyl phenyl ether	ND	ug/l	5.0				
Bis(2-chloroisopropyl)ether	ND	ug/l	5.0				
Bis(2-chloroethoxy)methane	ND	ug/l	5.0				
Hexachlorobutadiene	ND	ug/l	10.				
Hexachlorocyclopentadiene	ND	ug/l	10.				
Hexachloroethane	ND	ug/l	5.0				
Isophorone	ND	ug/l	5.0				
Naphthalene	ND	ug/l	5.0				
Nitrobenzene	ND	ug/l	5.0				
NDPA/DPA	ND	ug/l	15.				
n-Nitrosodi-n-propylamine	ND	ug/l	5.0				
Bis(2-ethylhexyl)phthalate	ND	ug/l	10.				
Butyl benzyl phthalate	ND	ug/l	5.0				
Di-n-butylphthalate	ND	ug/l	5.0				
Di-n-octylphthalate	ND	ug/l	5.0				
Diethyl phthalate	ND	ug/l	5.0				
Dimethyl phthalate	ND	ug/l	5.0				
Benzo(a)anthracene	ND	ug/l	5.0				
Benzo(a)pyrene	ND	ug/l	5.0				
Benzo(b)fluoranthene	ND	ug/l	5.0				
Benzo(k)fluoranthene	ND	ug/l	5.0				
Chrysene	ND	ug/l	5.0				
Acenaphthylene	ND	ug/l	5.0				
Anthracene	ND	ug/l	5.0				
Benzo(ghi)perylene	ND	ug/l	5.0				
Fluorene	ND	ug/l	5.0				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0204505

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-02								
SVOC's by GC/MS 8270 continued				1	8270C	0509 09:45	0511 11:10	HL
Phenanthrene	ND	ug/l	5.0					
Dibenzo(a,h)anthracene	ND	ug/l	5.0					
Indeno(1,2,3-cd)pyrene	ND	ug/l	7.0					
Pyrene	ND	ug/l	5.0					
Benzo(e)pyrene	ND	ug/l	5.0					
Biphenyl	ND	ug/l	5.0					
Perylene	ND	ug/l	5.0					
Aniline	ND	ug/l	10.					
4-Chloroaniline	ND	ug/l	5.0					
1-Methylnaphthalene	ND	ug/l	5.0					
2-Nitroaniline	ND	ug/l	5.0					
3-Nitroaniline	ND	ug/l	5.0					
4-Nitroaniline	ND	ug/l	7.0					
Dibenzofuran	ND	ug/l	5.0					
a,a-Dimethylphenethylamine	ND	ug/l	50.					
Hexachloropropene	ND	ug/l	50.					
Nitrosodi-n-butylamine	ND	ug/l	10.					
2-Methylnaphthalene	ND	ug/l	8.0					
1,2,4,5-Tetrachlorobenzene	ND	ug/l	20.					
Pentachlorobenzene	ND	ug/l	20.					
a-Naphthylamine	ND	ug/l	20.					
b-Naphthylamine	ND	ug/l	20.					
Phenacetin	ND	ug/l	10.					
Dimethoate	ND	ug/l	20.					
4-Aminobiphenyl	ND	ug/l	10.					
Pentachloronitrobenzene	ND	ug/l	10.					
Isodrin	ND	ug/l	10.					
p-Dimethylaminoazobenzene	ND	ug/l	10.					
Chlorobenzilate	ND	ug/l	20.					
3-Methylcholanthrene	ND	ug/l	20.					
Ethyl Methanesulfonate	ND	ug/l	15.					
Acetophenone	ND	ug/l	20.					
Nitrosodipiperidine	ND	ug/l	20.					
7,12-Dimethylbenz(a)anthracene	ND	ug/l	10.					
n-Nitrosodimethylamine	ND	ug/l	50.					
2,4,6-Trichlorophenol	ND	ug/l	5.0					
p-Chloro-m-cresol	ND	ug/l	5.0					
2-Chlorophenol	ND	ug/l	6.0					
2,4-Dichlorophenol	ND	ug/l	10.					
2,4-Dimethylphenol	ND	ug/l	10.					
2-Nitrophenol	ND	ug/l	20.					
4-Nitrophenol	ND	ug/l	10.					
2,4-Dinitrophenol	ND	ug/l	20.					
4,6-Dinitro-o-cresol	ND	ug/l	20.					
Pentachlorophenol	ND	ug/l	20.					
Phenol	ND	ug/l	7.0					
2-Methylphenol	ND	ug/l	6.0					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0204505

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-02							
SVOC's by GC/MS 8270 continued				1 8270C	0509 09:45	0511 11:10	HL
3-Methylphenol/4-Methylphenol	ND	ug/l	6.0				
2,4,5-Trichlorophenol	ND	ug/l	5.0				
2,6-Dichlorophenol	ND	ug/l	10.				
Benzoic Acid	ND	ug/l	50.				
Benzyl Alcohol	ND	ug/l	10.				
Carbazole	ND	ug/l	5.0				
Pyridine	ND	ug/l	50.				
2-Picoline	ND	ug/l	20.				
Pronamide	ND	ug/l	20.				
Methyl methanesulfonate	ND	ug/l	20.				
Surrogate Recovery							
2-Fluorophenol	23.0	%					
Phenol-d6	17.0	%					
Nitrobenzene-d5	72.0	%					
2-Fluorobiphenyl	85.0	%					
2,4,6-Tribromophenol	93.0	%					
4-Terphenyl-d14	95.0	%					

REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Update III, 1997.

45. Physiologically Available Cyanide (PAC), January 1996 Protocol, Mass DEP 1996.

GLOSSARY OF TERMS AND SYMBOLS

REF Reference number in which test method may be found.
METHOD Method number by which analysis was performed.
ID Initials of the analyst.

Please note that all solid samples are reported on dry weight basis unless noted otherwise.

LIMITATION OF LIABILITIES

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.

Quality Control Acceptance Criteria

Volatile Organics by Method 8260B

surrogate spike % recovery	AQ Limits		Soil Limits	
	LCL	UCL	LCL	UCL
1,2-Dichloroethane-d_4	75%	125%	75%	125%
4-Bromofluorobenzene	75%	125%	75%	125%
Toluene-d_8	75%	125%	75%	125%
Dibromofluoromethane	75%	125%	75%	125%

matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	percent recovery				duplicate and/or MSD	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
1,1-Dichloroethene	61%	145%	59%	172%	all target compounds	
Trichloroethene	71%	120%	62%	137%	20%	30%
Chlorobenzene	75%	130%	60%	133%		
Benzene	76%	127%	66%	142%		
Toluene	76%	125%	59%	139%		

Volatile Organics by Method 8021B

surrogate spike % recovery	AQ Limits		Soil Limits	
	LCL	UCL	LCL	UCL
4-Bromochlorobenzene	70%	110%	70%	120%
4-Bromofluorobenzene	70%	110%	70%	120%

matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	percent recovery				duplicate and/or MSD	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
1,1-Dichloroethene	70%	130%	70%	130%	all target compounds	
Trichloroethene	70%	130%	70%	130%	20%	30%
Chlorobenzene	70%	130%	70%	130%		
Benzene	70%	130%	70%	130%		
Toluene	70%	130%	70%	130%		
Ethylbenzene	70%	130%	70%	130%		

Semi-Volatile Organics by Method 8270C (includes PAHs)

surrogate spike % recovery	AQ Limits		Soil Limits	
	LCL	UCL	LCL	UCL
Nitrobenzene-d_5	23%	120%	23%	120%
Phenol-d_6	10%	120%	10%	120%
2-Fluorophenol	21%	120%	25%	120%
2-Fluorobiphenyl	43%	120%	30%	120%
p-Terphenyl-d_{14}	33%	120%	18%	120%
2,4,6-Tribromophenol	10%	120%	19%	120%

matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	percent recovery				duplicate and/or MSD	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
1,2,4-Trichlorobenzene	39%	98%	38%	107%	all target compounds	
Acenaphthene	46%	118%	31%	137%	40%	50%
2,4-Dinitrotoluene	24%	96%	28%	89%		
Pyrene	26%	127%	35%	142%		
N-Nitroso-di-n-propylamine	41%	116%	41%	126%		
1,4-Dichlorobenzene	36%	97%	28%	104%		
Pentachlorophenol	9%	103%	17%	109%		
Phenol	12%	110%	26%	90%		
2-Chlorophenol	27%	123%	25%	102%		
4-Chloro-3-methylphenol	23%	97%	26%	103%		
4-Nitrophenol	10%	80%	11%	114%		

Quality Control Acceptance Criteria

PCB/Pesticides by Method 8082/8081

surrogate spike % recovery	AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL		
2,4,5,6-Tetrachloro-m-xylene	40%	120%	40%	120%		
Decachlorobiphenyl	40%	120%	40%	120%		
matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	**percent recovery**				**duplicate and/or MSD**	
	AQ Limits		**Soil Limits**		**AQ Limits**	**Soil Limits**
	LCL	**UCL**	**LCL**	**UCL**	**RPD**	**RPD**
Lindane	56%	123%	46%	127%	all target compounds	
Heptachlor	40%	131%	35%	130%	30%	50%
Aldrin	40%	120%	34%	132%		
Dieldrin	52%	126%	31%	134%		
Endrin	56%	121%	42%	139%		
4,4'-DDT	38%	127%	23%	134%		
Aroclor 1242/1016	40%	140%	40%	140%		
Aroclor 1260	40%	140%	40%	140%		

Volatile Petroleum Hydrocarbons (VPH) by MA DEP 98-1

surrogate spike % recovery	AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL		
2,5-Dibromotoluene	70%	130%	70%	130%		
laboratory control sample (LCS)	**percent recovery**				**duplicate**	
	AQ Limits		**Soil Limits**		**AQ Limits**	**Soil Limits**
	LCL	**UCL**	**LCL**	**UCL**	**RPD**	**RPD**
all compounds	70%	130%	70%	130%	50%	50%

Extractable Petroleum Hydrocarbons (EPH) by MA DEP 98-1

surrogate spike % recovery	AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL		
Chloro-octadecane	40%	140%	40%	140%		
ortho-Terphenyl	40%	140%	40%	140%		
2-Fluorobiphenyl (fractionation)	40%	140%	40%	140%		
2-Bromonaphthalene (fractionation)	40%	140%	40%	140%		
laboratory control sample (LCS)	**percent recovery**				**duplicate**	
	AQ Limits		**Soil Limits**		**AQ Limits**	**Soil Limits**
	LCL	**UCL**	**LCL**	**UCL**	**RPD**	**RPD**
all compounds	40%	140%	40%	140%	50%	50%

TPH (GC-FID) by Method 8100M

surrogate spike % recovery	AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL	duplicate AQ Limits RPD	duplicate Soil Limits RPD
ortho-Terphenyl	40%	140%	40%	140%	40%	40%

TPH by Method 418.1

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		**Soil Limits**		**AQ Limits**	**Soil Limits**
	LCL	**UCL**	**LCL**	**UCL**	**RPD**	**RPD**
TPH	60%	140%	60%	140%	40%	40%

Quality Control Acceptance Criteria

Trace Metals by Method 6010B/7000 series

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
target analyte	75%	125%	70%	140%	20%	35%

Mercury by Method 7470A/7471A

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
mercury	70%	130%	60%	140%	35%	45%

Total Cyanide by Method 9010B

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
cyanide	80%	120%	65%	135%	30%	40%

Total Phenol by Method 9065

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
phenol	70%	130%	65%	135%	20%	30%

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 5/8/02

ALPHA Job #: L0204505

Eight Walkup Drive Westborough, MA 01581
TEL: 508-898-9220 FAX: 508-898-9193

Client Information

Client: Haley & Aldrich
Address: 465 Medford St.
Boston, MA
Phone: 617-886-7400
Fax: 617-886-7600
Email:

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: MALDEN MGP
Project Location: Malden, MA
Project #: 06558-631
Project Manager: BAWilkinson
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due: 5/15/02 Time:

Report Information - Data Deliverables

☐ FAX
☑ ADEx
Criteria Checker: _____
(Default based on Regulatory Criteria Indicated)
Other Formats: _____
☐ EMAIL (standard pdf report)
☐ Additional Deliverables: _____

Report to: (if different than Project Manager)

Billing Information

☑ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed	Program	Criteria

Other Project Specific Requirements/Comments:

PAC only if TCN detected

SAMPLE HANDLING

Filtration
☑ Done (metals)
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOC 8260	APH 8270	TCN	PAC	T RCRA 8 metals	Sample Specific Comments	TOTAL # BOTTLES
4505 .1	GP98-103-OW	5/8/02	0945	Water	SMC	✓	✓	✓	✓	✓	VOA unpreserved	7
.2	MW-5	5/8/02	1100	Water	SGS	✓	✓	✓	✓	✓		7

Shaded Gray Areas For Lab Use Only.

	VOA	Amber Glass	Plastic	Plastic	Plastic
Container Type	VOA	Amber Glass	Plastic	Plastic	Plastic
Preservative	HCl	None	NaOH	None	HNO3

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	5/8/02 1127	[signature]	5/8/02 1127
[signature]		[signature]	5/8/02 1400

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

Form No. 02-02 STD

MAY 2 8 2002

Haley & Aldrich, inc

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220 www.alphalab.com

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

Client: Haley & Aldrich, Inc.

Address: 465 Medford Street, Suite 2200
Boston, MA 02129-1400

Attn: Mr. Steve Provencal

Project Number: 06558-631

Site: MALDEN MGP

Laboratory Job Number: L0204504

Invoice Number: 63438

Date Received: 08-MAY-02

Date Reported: 23-MAY-02

Delivery Method: Alpha

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0204504-01	97B-B628-OW	
L0204504-02	MW-1	
L0204504-03	NC-1	

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by: James R. Roth, PhD

James R. Roth, PhD - Technical Director
This document electronically signed

Laboratory Job Number: L0204504

Alpha Report L0204504:

Report Submission

Please note that this report replaces the report issued on May 15, 2002. The report has been amended to correct the dates of digestion for the analysis of Total Metals on Alpha Samples L0204504-01 through -03.

Volatile Organics

One of the surrogate percent recoveries on Alpha Sample L0204504-03 is outside the acceptance criteria required by the method. This is believed to be caused by matrix interference.

Semi-Volatile Organics

Elevated limits of detection are reported on Alpha Sample L0204504-01 due to sample matrix.

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0204504-01
97B-B628-OW
Sample Matrix: WATER

Date Collected: 07-MAY-2002 11:32
Date Received : 08-MAY-2002
Date Reported : 23-MAY-2002

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,4-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Cyanide, Total	1.65	mg/l	0.050	1	9010B	0513 11:00	0513 15:51	ED
Cyanide, Physiologically Available	0.383	mg/l	0.005	45		0508 17:00	0509 13:39	ED
Fluoride	ND	mg/l	0.20	30	4500F-BC	0510 11:20	0513 16:30	MA
Total Metals				1	3015			
Arsenic, Total	ND	mg/l	0.005	1	6010B	0509 11:40	0514 16:25	MG
Barium, Total	0.03	mg/l	0.01	1	6010B	0509 11:40	0514 16:25	MG
Cadmium, Total	ND	mg/l	0.005	1	6010B	0509 11:40	0514 16:25	MG
Chromium, Total	ND	mg/l	0.01	1	6010B	0509 11:40	0514 16:25	MG
Lead, Total	ND	mg/l	0.050	1	6010B	0509 11:40	0514 16:25	MG
Mercury, Total	ND	mg/l	0.0005	1	7470A	0513 17:45	0514 10:36	DM
Selenium, Total	ND	mg/l	0.005	1	6010B	0509 11:40	0514 16:25	MG
Silver, Total	ND	mg/l	0.007	1	6010B	0509 11:40	0514 16:25	MG
Volatile Organics by GC/MS 8260				1	8260B		0509 23:11	RY
Methylene chloride	ND	ug/l	50.					
1,1-Dichloroethane	ND	ug/l	7.5					
Chloroform	ND	ug/l	7.5					
Carbon tetrachloride	ND	ug/l	5.0					
1,2-Dichloropropane	ND	ug/l	18.					
Dibromochloromethane	ND	ug/l	5.0					
1,1,2-Trichloroethane	ND	ug/l	7.5					
Tetrachloroethene	ND	ug/l	5.0					
Chlorobenzene	ND	ug/l	5.0					
Trichlorofluoromethane	ND	ug/l	25.					
1,2-Dichloroethane	ND	ug/l	5.0					
1,1,1-Trichloroethane	ND	ug/l	5.0					
Bromodichloromethane	ND	ug/l	5.0					
trans-1,3-Dichloropropene	ND	ug/l	5.0					
cis-1,3-Dichloropropene	ND	ug/l	5.0					
1,1-Dichloropropene	ND	ug/l	25.					
Bromoform	ND	ug/l	5.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204504-01
97B-B628-OW

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1 8260B		0509 23:11	RY
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0				
Benzene	ND	ug/l	5.0				
Toluene	ND	ug/l	7.5				
Ethylbenzene	13.	ug/l	5.0				
Chloromethane	ND	ug/l	25.				
Bromomethane	ND	ug/l	10.				
Vinyl chloride	ND	ug/l	10.				
Chloroethane	ND	ug/l	10.				
1,1-Dichloroethene	ND	ug/l	5.0				
trans-1,2-Dichloroethene	ND	ug/l	7.5				
Trichloroethene	ND	ug/l	5.0				
1,2-Dichlorobenzene	ND	ug/l	25.				
1,3-Dichlorobenzene	ND	ug/l	25.				
1,4-Dichlorobenzene	ND	ug/l	25.				
Methyl tert butyl ether	ND	ug/l	10.				
p/m-Xylene	ND	ug/l	5.0				
o-Xylene	ND	ug/l	5.0				
cis-1,2-Dichloroethene	ND	ug/l	5.0				
Dibromomethane	ND	ug/l	50.				
1,4-Dichlorobutane	ND	ug/l	50.				
Iodomethane	ND	ug/l	50.				
1,2,3-Trichloropropane	ND	ug/l	50.				
Styrene	ND	ug/l	5.0				
Dichlorodifluoromethane	ND	ug/l	50.				
Acetone	ND	ug/l	50.				
Carbon disulfide	ND	ug/l	50.				
2-Butanone	ND	ug/l	50.				
Vinyl acetate	ND	ug/l	50.				
4-Methyl-2-pentanone	ND	ug/l	50.				
2-Hexanone	ND	ug/l	50.				
Ethyl methacrylate	ND	ug/l	50.				
Acrolein	ND	ug/l	120				
Acrylonitrile	ND	ug/l	50.				
Bromochloromethane	ND	ug/l	25.				
Tetrahydrofuran	ND	ug/l	100				
2,2-Dichloropropane	ND	ug/l	25.				
1,2-Dibromoethane	ND	ug/l	25.				
1,3-Dichloropropane	ND	ug/l	25.				
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0				
Bromobenzene	ND	ug/l	25.				
n-Butylbenzene	17.	ug/l	5.0				
sec-Butylbenzene	ND	ug/l	5.0				
tert-Butylbenzene	ND	ug/l	25.				
o-Chlorotoluene	ND	ug/l	25.				
p-Chlorotoluene	ND	ug/l	25.				
1,2-Dibromo-3-chloropropane	ND	ug/l	25.				
Hexachlorobutadiene	ND	ug/l	25.				
Isopropylbenzene	ND	ug/l	5.0				
p-Isopropyltoluene	ND	ug/l	5.0				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204504-01
97B-B628-OW

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1 8260B		0509 23:11	RY
Naphthalene	490	ug/l	25.				
n-Propylbenzene	ND	ug/l	5.0				
1,2,3-Trichlorobenzene	ND	ug/l	25.				
1,2,4-Trichlorobenzene	ND	ug/l	25.				
1,3,5-Trimethylbenzene	ND	ug/l	25.				
1,2,4-Trimethylbenzene	ND	ug/l	25.				
trans-1,4-Dichloro-2-butene	ND	ug/l	25.				
Ethyl ether	ND	ug/l	25.				
Surrogate Recovery							
1,2-Dichloroethane-d4	96.0	%					
Toluene-d8	96.0	%					
4-Bromofluorobenzene	86.0	%					
Dibromofluoromethane	95.0	%					
SVOC's by GC/MS 8270				1 8270C	0509 09:45	0511 01:46	HL
Acenaphthene	ND	ug/l	100				
Benzidine	ND	ug/l	1000				
1,2,4-Trichlorobenzene	ND	ug/l	100				
Hexachlorobenzene	ND	ug/l	100				
Bis(2-chloroethyl)ether	ND	ug/l	100				
1-Chloronaphthalene	ND	ug/l	100				
2-Chloronaphthalene	ND	ug/l	120				
1,2-Dichlorobenzene	ND	ug/l	100				
1,3-Dichlorobenzene	ND	ug/l	100				
1,4-Dichlorobenzene	ND	ug/l	100				
3,3'-Dichlorobenzidine	ND	ug/l	1000				
2,4-Dinitrotoluene	ND	ug/l	120				
2,6-Dinitrotoluene	ND	ug/l	100				
Azobenzene	ND	ug/l	100				
Fluoranthene	ND	ug/l	100				
4-Chlorophenyl phenyl ether	ND	ug/l	100				
4-Bromophenyl phenyl ether	ND	ug/l	100				
Bis(2-chloroisopropyl)ether	ND	ug/l	100				
Bis(2-chloroethoxy)methane	ND	ug/l	100				
Hexachlorobutadiene	ND	ug/l	200				
Hexachlorocyclopentadiene	ND	ug/l	200				
Hexachloroethane	ND	ug/l	100				
Isophorone	ND	ug/l	100				
Naphthalene	390	ug/l	100				
Nitrobenzene	ND	ug/l	100				
NDPA/DPA	ND	ug/l	300				
n-Nitrosodi-n-propylamine	ND	ug/l	100				
Bis(2-ethylhexyl)phthalate	ND	ug/l	200				
Butyl benzyl phthalate	ND	ug/l	100				
Di-n-butylphthalate	ND	ug/l	100				
Di-n-octylphthalate	ND	ug/l	100				
Diethyl phthalate	ND	ug/l	100				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204504-01
97B-B628-OW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1	8270C	0509 09:45	0511 01:46	HL
Dimethyl phthalate	ND	ug/l	100					
Benzo(a)anthracene	ND	ug/l	100					
Benzo(a)pyrene	ND	ug/l	100					
Benzo(b)fluoranthene	ND	ug/l	100					
Benzo(k)fluoranthene	ND	ug/l	100					
Chrysene	ND	ug/l	100					
Acenaphthylene	ND	ug/l	100					
Anthracene	ND	ug/l	100					
Benzo(ghi)perylene	ND	ug/l	100					
Fluorene	ND	ug/l	100					
Phenanthrene	ND	ug/l	100					
Dibenzo(a,h)anthracene	ND	ug/l	100					
Indeno(1,2,3-cd)pyrene	ND	ug/l	140					
Pyrene	ND	ug/l	100					
Benzo(e)pyrene	ND	ug/l	100					
Biphenyl	ND	ug/l	100					
Perylene	ND	ug/l	100					
Aniline	ND	ug/l	200					
4-Chloroaniline	ND	ug/l	100					
1-Methylnaphthalene	ND	ug/l	100					
2-Nitroaniline	ND	ug/l	100					
3-Nitroaniline	ND	ug/l	100					
4-Nitroaniline	ND	ug/l	140					
Dibenzofuran	ND	ug/l	100					
a,a-Dimethylphenethylamine	ND	ug/l	1000					
Hexachloropropene	ND	ug/l	1000					
Nitrosodi-n-butylamine	ND	ug/l	200					
2-Methylnaphthalene	ND	ug/l	160					
1,2,4,5-Tetrachlorobenzene	ND	ug/l	400					
Pentachlorobenzene	ND	ug/l	400					
a-Naphthylamine	ND	ug/l	400					
b-Naphthylamine	ND	ug/l	400					
Phenacetin	ND	ug/l	200					
Dimethoate	ND	ug/l	400					
4-Aminobiphenyl	ND	ug/l	200					
Pentachloronitrobenzene	ND	ug/l	200					
Isodrin	ND	ug/l	200					
p-Dimethylaminoazobenzene	ND	ug/l	200					
Chlorobenzilate	ND	ug/l	400					
3-Methylcholanthrene	ND	ug/l	400					
Ethyl Methanesulfonate	ND	ug/l	300					
Acetophenone	ND	ug/l	400					
Nitrosodipiperidine	ND	ug/l	400					
7,12-Dimethylbenz(a)anthracene	ND	ug/l	200					
n-Nitrosodimethylamine	ND	ug/l	1000					
2,4,6-Trichlorophenol	ND	ug/l	100					
p-Chloro-m-cresol	ND	ug/l	100					
2-Chlorophenol	ND	ug/l	120					
2,4-Dichlorophenol	ND	ug/l	200					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204504-01
97B-B628-OW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1	8270C	0509 09:45	0511 01:46	HL
2,4-Dimethylphenol	ND	ug/l	200					
2-Nitrophenol	ND	ug/l	400					
4-Nitrophenol	ND	ug/l	200					
2,4-Dinitrophenol	ND	ug/l	400					
4,6-Dinitro-o-cresol	ND	ug/l	400					
Pentachlorophenol	ND	ug/l	400					
Phenol	ND	ug/l	140					
2-Methylphenol	ND	ug/l	120					
3-Methylphenol/4-Methylphenol	ND	ug/l	120					
2,4,5-Trichlorophenol	ND	ug/l	100					
2,6-Dichlorophenol	ND	ug/l	200					
Benzoic Acid	ND	ug/l	1000					
Benzyl Alcohol	ND	ug/l	200					
Carbazole	ND	ug/l	100					
Pyridine	ND	ug/l	1000					
2-Picoline	ND	ug/l	400					
Pronamide	ND	ug/l	400					
Methyl methanesulfonate	ND	ug/l	400					
Surrogate Recovery								
2-Fluorophenol	47.0	%						
Phenol-d6	28.0	%						
Nitrobenzene-d5	74.0	%						
2-Fluorobiphenyl	94.0	%						
2,4,6-Tribromophenol	86.0	%						
4-Terphenyl-d14	86.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0204504-02
MW-1
Sample Matrix: WATER

Date Collected: 07-MAY-2002 14:30
Date Received : 08-MAY-2002
Date Reported : 23-MAY-2002

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,3-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Cyanide, Total	0.019	mg/l	0.005	1	9010B	0513 11:00	0513 15:37	ED
Cyanide, Physiologically Available	0.005	mg/l	0.005	45		0508 17:00	0509 13:40	ED
Total Metals				1	3015			
Arsenic, Total	ND	mg/l	0.005	1	6010B	0509 11:40	0514 16:30	MG
Barium, Total	0.03	mg/l	0.01	1	6010B	0509 11:40	0514 16:30	MG
Cadmium, Total	ND	mg/l	0.005	1	6010B	0509 11:40	0514 16:30	MG
Chromium, Total	ND	mg/l	0.01	1	6010B	0509 11:40	0514 16:30	MG
Lead, Total	ND	mg/l	0.050	1	6010B	0509 11:40	0514 16:30	MG
Mercury, Total	ND	mg/l	0.0005	1	7470A	0513 17:45	0514 10:37	DM
Selenium, Total	ND	mg/l	0.005	1	6010B	0509 11:40	0514 16:30	MG
Silver, Total	ND	mg/l	0.007	1	6010B	0509 11:40	0514 16:30	MG
Volatile Organics by GC/MS 8260				1	8260B		0509 21:51	BT
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	0.50					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204504-02
MW-1

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1 8260B		0509 21:51	BT
Ethylbenzene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.5				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	2.5				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204504-02
MW-1

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		0509 21:51	BT
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					
Surrogate Recovery								
1,2-Dichloroethane-d4	100.	%						
Toluene-d8	103.	%						
4-Bromofluorobenzene	99.0	%						
Dibromofluoromethane	97.0	%						
SVOC's by GC/MS 8270				1	8270C	0509 09:45	0511 12:05	HL
Acenaphthene	ND	ug/l	5.0					
Benzidine	ND	ug/l	50.					
1,2,4-Trichlorobenzene	ND	ug/l	5.0					
Hexachlorobenzene	ND	ug/l	5.0					
Bis(2-chloroethyl)ether	ND	ug/l	5.0					
1-Chloronaphthalene	ND	ug/l	5.0					
2-Chloronaphthalene	ND	ug/l	6.0					
1,2-Dichlorobenzene	ND	ug/l	5.0					
1,3-Dichlorobenzene	ND	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	5.0					
3,3'-Dichlorobenzidine	ND	ug/l	50.					
2,4-Dinitrotoluene	ND	ug/l	6.0					
2,6-Dinitrotoluene	ND	ug/l	5.0					
Azobenzene	ND	ug/l	5.0					
Fluoranthene	ND	ug/l	5.0					
4-Chlorophenyl phenyl ether	ND	ug/l	5.0					
4-Bromophenyl phenyl ether	ND	ug/l	5.0					
Bis(2-chloroisopropyl)ether	ND	ug/l	5.0					
Bis(2-chloroethoxy)methane	ND	ug/l	5.0					
Hexachlorobutadiene	ND	ug/l	10.					
Hexachlorocyclopentadiene	ND	ug/l	10.					
Hexachloroethane	ND	ug/l	5.0					
Isophorone	ND	ug/l	5.0					
Naphthalene	ND	ug/l	5.0					
Nitrobenzene	ND	ug/l	5.0					
NDPA/DPA	ND	ug/l	15.					
n-Nitrosodi-n-propylamine	ND	ug/l	5.0					
Bis(2-ethylhexyl)phthalate	ND	ug/l	10.					
Butyl benzyl phthalate	ND	ug/l	5.0					
Di-n-butylphthalate	ND	ug/l	5.0					
Di-n-octylphthalate	ND	ug/l	5.0					
Diethyl phthalate	ND	ug/l	5.0					
Dimethyl phthalate	ND	ug/l	5.0					
Benzo(a)anthracene	ND	ug/l	5.0					
Benzo(a)pyrene	ND	ug/l	5.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204504-02
MW-1

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1	8270C	0509 09:45	0511 12:05	HL
Benzo(b)fluoranthene	ND	ug/l	5.0					
Benzo(k)fluoranthene	ND	ug/l	5.0					
Chrysene	ND	ug/l	5.0					
Acenaphthylene	ND	ug/l	5.0					
Anthracene	ND	ug/l	5.0					
Benzo(ghi)perylene	ND	ug/l	5.0					
Fluorene	ND	ug/l	5.0					
Phenanthrene	ND	ug/l	5.0					
Dibenzo(a,h)anthracene	ND	ug/l	5.0					
Indeno(1,2,3-cd)pyrene	ND	ug/l	7.0					
Pyrene	ND	ug/l	5.0					
Benzo(e)pyrene	ND	ug/l	5.0					
Biphenyl	ND	ug/l	5.0					
Perylene	ND	ug/l	5.0					
Aniline	ND	ug/l	10.					
4-Chloroaniline	ND	ug/l	5.0					
1-Methylnaphthalene	ND	ug/l	5.0					
2-Nitroaniline	ND	ug/l	5.0					
3-Nitroaniline	ND	ug/l	5.0					
4-Nitroaniline	ND	ug/l	7.0					
Dibenzofuran	ND	ug/l	5.0					
a,a-Dimethylphenethylamine	ND	ug/l	50.					
Hexachloropropene	ND	ug/l	50.					
Nitrosodi-n-butylamine	ND	ug/l	10.					
2-Methylnaphthalene	ND	ug/l	8.0					
1,2,4,5-Tetrachlorobenzene	ND	ug/l	20.					
Pentachlorobenzene	ND	ug/l	20.					
a-Naphthylamine	ND	ug/l	20.					
b-Naphthylamine	ND	ug/l	20.					
Phenacetin	ND	ug/l	10.					
Dimethoate	ND	ug/l	20.					
4-Aminobiphenyl	ND	ug/l	10.					
Pentachloronitrobenzene	ND	ug/l	10.					
Isodrin	ND	ug/l	10.					
p-Dimethylaminoazobenzene	ND	ug/l	10.					
Chlorobenzilate	ND	ug/l	20.					
3-Methylcholanthrene	ND	ug/l	20.					
Ethyl Methanesulfonate	ND	ug/l	15.					
Acetophenone	ND	ug/l	20.					
Nitrosodipiperidine	ND	ug/l	20.					
7,12-Dimethylbenz(a)anthracene	ND	ug/l	10.					
n-Nitrosodimethylamine	ND	ug/l	50.					
2,4,6-Trichlorophenol	ND	ug/l	5.0					
p-Chloro-m-cresol	ND	ug/l	5.0					
2-Chlorophenol	ND	ug/l	6.0					
2,4-Dichlorophenol	ND	ug/l	10.					
2,4-Dimethylphenol	ND	ug/l	10.					
2-Nitrophenol	ND	ug/l	20.					
4-Nitrophenol	ND	ug/l	10.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204504-02
MW-1

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1	8270C	0509 09:45	0511 12:05	HL
2,4-Dinitrophenol	ND	ug/l	20.					
4,6-Dinitro-o-cresol	ND	ug/l	20.					
Pentachlorophenol	ND	ug/l	20.					
Phenol	ND	ug/l	7.0					
2-Methylphenol	ND	ug/l	6.0					
3-Methylphenol/4-Methylphenol	ND	ug/l	6.0					
2,4,5-Trichlorophenol	ND	ug/l	5.0					
2,6-Dichlorophenol	ND	ug/l	10.					
Benzoic Acid	ND	ug/l	50.					
Benzyl Alcohol	ND	ug/l	10.					
Carbazole	ND	ug/l	5.0					
Pyridine	ND	ug/l	50.					
2-Picoline	ND	ug/l	20.					
Pronamide	ND	ug/l	20.					
Methyl methanesulfonate	ND	ug/l	20.					
Surrogate Recovery								
2-Fluorophenol	49.0	%						
Phenol-d6	33.0	%						
Nitrobenzene-d5	82.0	%						
2-Fluorobiphenyl	83.0	%						
2,4,6-Tribromophenol	83.0	%						
4-Terphenyl-d14	79.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0204504-03
NC-1
Sample Matrix: WATER

Date Collected: 07-MAY-2002 16:20
Date Received : 08-MAY-2002
Date Reported : 23-MAY-2002

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,3-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Cyanide, Total	0.035	mg/l	0.005	1	9010B	0513 11:00	0513 15:41	ED
Cyanide, Physiologically Available	0.007	mg/l	0.005	45		0508 17:00	0509 13:41	ED
Total Metals				1	3015			
Arsenic, Total	0.024	mg/l	0.005	1	6010B	0509 11:40	0514 16:35	MG
Barium, Total	0.10	mg/l	0.01	1	6010B	0509 11:40	0514 16:35	MG
Cadmium, Total	ND	mg/l	0.005	1	6010B	0509 11:40	0514 16:35	MG
Chromium, Total	ND	mg/l	0.01	1	6010B	0509 11:40	0514 16:35	MG
Lead, Total	ND	mg/l	0.050	1	6010B	0509 11:40	0514 16:35	MG
Mercury, Total	ND	mg/l	0.0005	1	7470A	0513 17:45	0514 10:39	DM
Selenium, Total	ND	mg/l	0.005	1	6010B	0509 11:40	0514 16:35	MG
Silver, Total	ND	mg/l	0.007	1	6010B	0509 11:40	0514 16:35	MG
Volatile Organics by GC/MS 8260				1	8260B		0509 22:33	BT
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	2.1	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	0.50					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	2.5	ug/l	0.50					
Toluene	ND	ug/l	0.75					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204504-03
NC-1

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		0509 22:33	BT
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	ND	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					
1,2-Dichlorobenzene	ND	ug/l	2.5					
1,3-Dichlorobenzene	ND	ug/l	2.5					
1,4-Dichlorobenzene	ND	ug/l	2.5					
Methyl tert butyl ether	ND	ug/l	1.0					
p/m-Xylene	ND	ug/l	0.50					
o-Xylene	0.82	ug/l	0.50					
cis-1,2-Dichloroethene	ND	ug/l	0.50					
Dibromomethane	ND	ug/l	5.0					
1,4-Dichlorobutane	ND	ug/l	5.0					
Iodomethane	ND	ug/l	5.0					
1,2,3-Trichloropropane	ND	ug/l	5.0					
Styrene	ND	ug/l	0.50					
Dichlorodifluoromethane	ND	ug/l	5.0					
Acetone	ND	ug/l	5.0					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	5.0					
Vinyl acetate	ND	ug/l	5.0					
4-Methyl-2-pentanone	ND	ug/l	5.0					
2-Hexanone	ND	ug/l	5.0					
Ethyl methacrylate	ND	ug/l	5.0					
Acrolein	ND	ug/l	12.					
Acrylonitrile	ND	ug/l	5.0					
Bromochloromethane	ND	ug/l	2.5					
Tetrahydrofuran	ND	ug/l	10.					
2,2-Dichloropropane	ND	ug/l	2.5					
1,2-Dibromoethane	ND	ug/l	2.5					
1,3-Dichloropropane	ND	ug/l	2.5					
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50					
Bromobenzene	ND	ug/l	2.5					
n-Butylbenzene	8.7	ug/l	0.50					
sec-Butylbenzene	20.	ug/l	0.50					
tert-Butylbenzene	9.6	ug/l	2.5					
o-Chlorotoluene	ND	ug/l	2.5					
p-Chlorotoluene	ND	ug/l	2.5					
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5					
Hexachlorobutadiene	ND	ug/l	2.5					
Isopropylbenzene	36.	ug/l	0.50					
p-Isopropyltoluene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	2.5					
n-Propylbenzene	46.	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204504-03
NC-1

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		0509 22:33	BT
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					
Surrogate Recovery								
1,2-Dichloroethane-d4	98.0	%						
Toluene-d8	101.	%						
4-Bromofluorobenzene	134.	%						
Dibromofluoromethane	94.0	%						
SVOC's by GC/MS 8270				1	8270C	0509 09:45	0511 12:51	HL
Acenaphthene	ND	ug/l	5.0					
Benzidine	ND	ug/l	50.					
1,2,4-Trichlorobenzene	ND	ug/l	5.0					
Hexachlorobenzene	ND	ug/l	5.0					
Bis(2-chloroethyl)ether	ND	ug/l	5.0					
1-Chloronaphthalene	ND	ug/l	5.0					
2-Chloronaphthalene	ND	ug/l	6.0					
1,2-Dichlorobenzene	ND	ug/l	5.0					
1,3-Dichlorobenzene	ND	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	5.0					
3,3'-Dichlorobenzidine	ND	ug/l	50.					
2,4-Dinitrotoluene	ND	ug/l	6.0					
2,6-Dinitrotoluene	ND	ug/l	5.0					
Azobenzene	ND	ug/l	5.0					
Fluoranthene	ND	ug/l	5.0					
4-Chlorophenyl phenyl ether	ND	ug/l	5.0					
4-Bromophenyl phenyl ether	ND	ug/l	5.0					
Bis(2-chloroisopropyl)ether	ND	ug/l	5.0					
Bis(2-chloroethoxy)methane	ND	ug/l	5.0					
Hexachlorobutadiene	ND	ug/l	10.					
Hexachlorocyclopentadiene	ND	ug/l	10.					
Hexachloroethane	ND	ug/l	5.0					
Isophorone	ND	ug/l	5.0					
Naphthalene	ND	ug/l	5.0					
Nitrobenzene	ND	ug/l	5.0					
NDPA/DPA	ND	ug/l	15.					
n-Nitrosodi-n-propylamine	ND	ug/l	5.0					
Bis(2-ethylhexyl)phthalate	10.	ug/l	10.					
Butyl benzyl phthalate	ND	ug/l	5.0					
Di-n-butylphthalate	ND	ug/l	5.0					
Di-n-octylphthalate	ND	ug/l	5.0					
Diethyl phthalate	ND	ug/l	5.0					
Dimethyl phthalate	ND	ug/l	5.0					
Benzo(a)anthracene	ND	ug/l	5.0					
Benzo(a)pyrene	ND	ug/l	5.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204504-03
NC-1

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1	8270C	0509 09:45	0511 12:51	NL
Benzo(b)fluoranthene	ND	ug/l	5.0					
Benzo(k)fluoranthene	ND	ug/l	5.0					
Chrysene	ND	ug/l	5.0					
Acenaphthylene	ND	ug/l	5.0					
Anthracene	ND	ug/l	5.0					
Benzo(ghi)perylene	ND	ug/l	5.0					
Fluorene	ND	ug/l	5.0					
Phenanthrene	ND	ug/l	5.0					
Dibenzo(a,h)anthracene	ND	ug/l	5.0					
Indeno(1,2,3-cd)pyrene	ND	ug/l	7.0					
Pyrene	ND	ug/l	5.0					
Benzo(e)pyrene	ND	ug/l	5.0					
Biphenyl	ND	ug/l	5.0					
Perylene	ND	ug/l	5.0					
Aniline	ND	ug/l	10.					
4-Chloroaniline	ND	ug/l	5.0					
1-Methylnaphthalene	ND	ug/l	5.0					
2-Nitroaniline	ND	ug/l	5.0					
3-Nitroaniline	ND	ug/l	5.0					
4-Nitroaniline	ND	ug/l	7.0					
Dibenzofuran	ND	ug/l	5.0					
a,a-Dimethylphenethylamine	ND	ug/l	50.					
Hexachloropropene	ND	ug/l	50.					
Nitrosodi-n-butylamine	ND	ug/l	10.					
2-Methylnaphthalene	ND	ug/l	8.0					
1,2,4,5-Tetrachlorobenzene	ND	ug/l	20.					
Pentachlorobenzene	ND	ug/l	20.					
a-Naphthylamine	ND	ug/l	20.					
b-Naphthylamine	ND	ug/l	20.					
Phenacetin	ND	ug/l	10.					
Dimethoate	ND	ug/l	20.					
4-Aminobiphenyl	ND	ug/l	10.					
Pentachloronitrobenzene	ND	ug/l	10.					
Isodrin	ND	ug/l	10.					
p-Dimethylaminoazobenzene	ND	ug/l	10.					
Chlorobenzilate	ND	ug/l	20.					
3-Methylcholanthrene	ND	ug/l	20.					
Ethyl Methanesulfonate	ND	ug/l	15.					
Acetophenone	ND	ug/l	20.					
Nitrosodipiperidine	ND	ug/l	20.					
7,12-Dimethylbenz(a)anthracene	ND	ug/l	10.					
n-Nitrosodimethylamine	ND	ug/l	50.					
2,4,6-Trichlorophenol	ND	ug/l	5.0					
p-Chloro-m-cresol	ND	ug/l	5.0					
2-Chlorophenol	ND	ug/l	6.0					
2,4-Dichlorophenol	ND	ug/l	10.					
2,4-Dimethylphenol	ND	ug/l	10.					
2-Nitrophenol	ND	ug/l	20.					
4-Nitrophenol	ND	ug/l	10.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204504-03
NC-1

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1	8270C	0509 09:45	0511 12:51	HL
2,4-Dinitrophenol	ND	ug/l	20.					
4,6-Dinitro-o-cresol	ND	ug/l	20.					
Pentachlorophenol	ND	ug/l	20.					
Phenol	ND	ug/l	7.0					
2-Methylphenol	ND	ug/l	6.0					
3-Methylphenol/4-Methylphenol	ND	ug/l	6.0					
2,4,5-Trichlorophenol	ND	ug/l	5.0					
2,6-Dichlorophenol	ND	ug/l	10.					
Benzoic Acid	ND	ug/l	50.					
Benzyl Alcohol	ND	ug/l	10.					
Carbazole	ND	ug/l	5.0					
Pyridine	ND	ug/l	50.					
2-Picoline	ND	ug/l	20.					
Pronamide	ND	ug/l	20.					
Methyl methanesulfonate	ND	ug/l	20.					
Surrogate Recovery								
2-Fluorophenol	55.0	%						
Phenol-d6	37.0	%						
Nitrobenzene-d5	92.0	%						
2-Fluorobiphenyl	91.0	%						
2,4,6-Tribromophenol	101.	%						
4-Terphenyl-d14	85.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0204504

Parameter	Value 1	Value 2	RPD	Units
Cyanide, Total for sample(s) 01-03 (L0204503-02, WG112747)				
Cyanide, Total	0.099	0.105	6	mg/l
Cyanide, Physiologically Available for sample(s) 01-03 (L0204424-01, WG112444)				
Cyanide, Physiologically Available	0.128	0.122	5	mg/l
Fluoride for sample(s) 01 (L0204504-01, WG112687)				
Fluoride	ND	ND	NC	mg/l
Total Metals for sample(s) 01-03 (L0204475-02, WG112852)				
Arsenic, Total	ND	ND	NC	mg/l
Barium, Total	ND	ND	NC	mg/l
Cadmium, Total	ND	ND	NC	mg/l
Chromium, Total	ND	ND	NC	mg/l
Lead, Total	ND	ND	NC	mg/l
Total Metals for sample(s) 01-03 (L0204513-10, WG112808)				
Mercury, Total	ND	ND	NC	mg/l

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0204504

Parameter	% Recovery
Cyanide, Total LCS for sample(s) 01-03 (WG112747)	
Cyanide, Total	95
Cyanide, Physiologically Available LCS for sample(s) 01-03 (WG112444)	
Cyanide, Physiologically Available	102
Fluoride LCS for sample(s) 01 (WG112687)	
Fluoride	84
Total Metals LCS for sample(s) 01-03 (WG112852)	
Arsenic, Total	105
Barium, Total	105
Cadmium, Total	114
Chromium, Total	105
Lead, Total	109
Selenium, Total	106
Silver, Total	107
Total Metals LCS for sample(s) 01-03 (WG112808)	
Mercury, Total	117
Volatile Organics by GC/MS 8260 LCS for sample(s) 01 (WG112632)	
Chlorobenzene	117
Benzene	116
Toluene	116
1,1-Dichloroethene	117
Trichloroethene	120
Surrogate Recovery	
1,2-Dichloroethane-d4	103
Toluene-d8	100
4-Bromofluorobenzene	95
Dibromofluoromethane	101
Volatile Organics by GC/MS 8260 LCS for sample(s) 02-03 (WG112096)	
Chlorobenzene	95
Benzene	101
Toluene	99
1,1-Dichloroethene	91
Trichloroethene	99
Surrogate Recovery	
1,2-Dichloroethane-d4	98
Toluene-d8	104
4-Bromofluorobenzene	89
Dibromofluoromethane	101

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0204504

Continued

Parameter	% Recovery
SVOC's by GC/MS 8270 LCS for sample(s) 01-03 (WG112502)	
Acenaphthene	74
1,2,4-Trichlorobenzene	69
2-Chloronaphthalene	67
1,2-Dichlorobenzene	62
1,4-Dichlorobenzene	60
2,4-Dinitrotoluene	96
2,6-Dinitrotoluene	89
Fluoranthene	99
4-Chlorophenyl phenyl ether	80
n-Nitrosodi-n-propylamine	56
Butyl benzyl phthalate	91
Anthracene	86
Pyrene	99
Hexachloropropene	38
P-Chloro-M-Cresol	74
2-Chlorophenol	64
2-Nitrophenol	76
4-Nitrophenol	32
2,4-Dinitrophenol	100
Pentachlorophenol	89
Phenol	20
Surrogate Recovery	
2-Fluorophenol	24
Phenol-d6	19
Nitrobenzene-d5	63
2-Fluorobiphenyl	78
2,4,6-Tribromophenol	89
4-Terphenyl-d14	91
Cyanide, Total SPIKE for sample(s) 01-03 (L0204504-02, WG112747)	
Cyanide, Total	103
Fluoride SPIKE for sample(s) 01 (L0204503-01, WG112687)	
Fluoride	92
Total Metals SPIKE for sample(s) 01-03 (L0204475-02, WG112852)	
Arsenic, Total	98
Barium, Total	105
Cadmium, Total	114
Chromium, Total	100
Lead, Total	104
Selenium, Total	98
Silver, Total	102

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0204504

Continued

Parameter	% Recovery
Total Metals SPIKE for sample(s) 01-03 (L0204513-11, WG112808)	
Mercury, Total	118

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0204504

Parameter	MS %	MSD %	RPD
Volatile Organics by GC/MS 8260 for sample(s) 02-03 (L0204239-02, WG112096)			
Chlorobenzene	96	103	7
Benzene	101	105	4
Toluene	101	108	7
1,1-Dichloroethene	97	100	3
Trichloroethene	100	106	6
Volatile Organics by GC/MS 8260 for sample(s) 01 (L0204465-01, WG112632)			
Chlorobenzene	86	95	10
Benzene	88	94	6
Toluene	88	95	8
1,1-Dichloroethene	88	95	7
Trichloroethene	92	99	7
SVOC's by GC/MS 8270 for sample(s) 01-03 (L0204517-01, WG112502)			
Acenaphthene	78	83	6
1,2,4-Trichlorobenzene	64	74	14
2-Chloronaphthalene	69	74	7
1,2-Dichlorobenzene	59	59	0
1,4-Dichlorobenzene	59	59	0
2,4-Dinitrotoluene	98	110	12
2,6-Dinitrotoluene	93	98	5
Fluoranthene	98	98	0
4-Chlorophenyl phenyl ether	83	88	6
n-Nitrosodi-n-propylamine	59	54	9
Butyl benzyl phthalate	88	88	0
Anthracene	88	83	6
Pyrene	98	98	0
Hexachloropropene	43	49	13
P-Chloro-M-Cresol	74	81	9
2-Chlorophenol	66	69	4
2-Nitrophenol	74	71	4
4-Nitrophenol	76	81	6
2,4-Dinitrophenol	110	120	9
Pentachlorophenol	100	93	7
Phenol	47	47	0

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0204504

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-03								
Cyanide, Total	ND	mg/l	0.005	1	9010B	0513 11:00	0513 15:21	ED
Blank Analysis for sample(s) 01-03								
Cyanide, Physiologically Available	ND	mg/l	0.005	45		0508 17:00	0509 13:26	ED
Blank Analysis for sample(s) 01								
Fluoride	ND	mg/l	0.20	30	4500F-BC	0510 11:20	0513 16:30	MA
Blank Analysis for sample(s) 01-03								
Total Metals				1	3015			
Arsenic, Total	ND	mg/l	0.005	1	6010B	0509 11:40	0514 10:55	MG
Barium, Total	ND	mg/l	0.01	1	6010B	0509 11:40	0514 10:55	MG
Cadmium, Total	ND	mg/l	0.005	1	6010B	0509 11:40	0514 10:55	MG
Chromium, Total	ND	mg/l	0.01	1	6010B	0509 11:40	0514 10:55	MG
Lead, Total	ND	mg/l	0.050	1	6010B	0509 11:40	0514 10:55	MG
Selenium, Total	ND	mg/l	0.005	1	6010B	0509 11:40	0514 10:55	MG
Silver, Total	ND	mg/l	0.007	1	6010B	0509 11:40	0514 10:55	MG
Blank Analysis for sample(s) 01-03								
Total Metals								
Mercury, Total	ND	mg/l	0.0004	1	7470A	0513 17:45	0514 10:23	DM
Blank Analysis for sample(s) 02-03								
Volatile Organics by GC/MS 8260				1	8260B		0509 14:57	BT
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	0.50					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0204504

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 02-03							
Volatile Organics by GC/MS 8260 continued				1 8260B		0509 14:57	BT
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.75				
Ethylbenzene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.5				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	2.5				
Isopropylbenzene	ND	ug/l	0.50				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0204504

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 02-03								
Volatile Organics by GC/MS 8260 continued				1	8260B		0509 14:57	BT
p-Isopropyltoluene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	2.5					
n-Propylbenzene	ND	ug/l	0.50					
1,2,3-Trichlorobenzene	ND	ug/l	2.5					
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					
Surrogate Recovery								
1,2-Dichloroethane-d4	105.	%						
Toluene-d8	102.	%						
4-Bromofluorobenzene	96.0	%						
Dibromofluoromethane	103.	%						
Blank Analysis for sample(s) 01								
Volatile Organics by GC/MS 8260				1	8260B		0509 16:54	RY
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	0.50					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					
Bromomethane	ND	ug/l	1.0					
Vinyl chloride	ND	ug/l	1.0					
Chloroethane	ND	ug/l	1.0					
1,1-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	ND	ug/l	0.50					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0204504

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01							
Volatile Organics by GC/MS 8260 continued				1 8260B		0509 16:54	RY
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.5				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	2.5				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0204504

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01								
Volatile Organics by GC/MS 8260 continued				1	8260B		0509 16:54	RY
Surrogate Recovery								
1,2-Dichloroethane-d4	104.	%						
Toluene-d8	95.0	%						
4-Bromofluorobenzene	93.0	%						
Dibromofluoromethane	99.0	%						
Blank Analysis for sample(s) 01-03								
SVOC's by GC/MS 8270				1	8270C	0509 09:45	0511 11:10	HL
Acenaphthene	ND	ug/l	5.0					
Benzidine	ND	ug/l	50.					
1,2,4-Trichlorobenzene	ND	ug/l	5.0					
Hexachlorobenzene	ND	ug/l	5.0					
Bis(2-chloroethyl)ether	ND	ug/l	5.0					
1-Chloronaphthalene	ND	ug/l	5.0					
2-Chloronaphthalene	ND	ug/l	6.0					
1,2-Dichlorobenzene	ND	ug/l	5.0					
1,3-Dichlorobenzene	ND	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	5.0					
3,3'-Dichlorobenzidine	ND	ug/l	50.					
2,4-Dinitrotoluene	ND	ug/l	6.0					
2,6-Dinitrotoluene	ND	ug/l	5.0					
Azobenzene	ND	ug/l	5.0					
Fluoranthene	ND	ug/l	5.0					
4-Chlorophenyl phenyl ether	ND	ug/l	5.0					
4-Bromophenyl phenyl ether	ND	ug/l	5.0					
Bis(2-chloroisopropyl)ether	ND	ug/l	5.0					
Bis(2-chloroethoxy)methane	ND	ug/l	5.0					
Hexachlorobutadiene	ND	ug/l	10.					
Hexachlorocyclopentadiene	ND	ug/l	10.					
Hexachloroethane	ND	ug/l	5.0					
Isophorone	ND	ug/l	5.0					
Naphthalene	ND	ug/l	5.0					
Nitrobenzene	ND	ug/l	5.0					
NDPA/DPA	ND	ug/l	15.					
n-Nitrosodi-n-propylamine	ND	ug/l	5.0					
Bis(2-ethylhexyl)phthalate	ND	ug/l	10.					
Butyl benzyl phthalate	ND	ug/l	5.0					
Di-n-butylphthalate	ND	ug/l	5.0					
Di-n-octylphthalate	ND	ug/l	5.0					
Diethyl phthalate	ND	ug/l	5.0					
Dimethyl phthalate	ND	ug/l	5.0					
Benzo(a)anthracene	ND	ug/l	5.0					
Benzo(a)pyrene	ND	ug/l	5.0					
Benzo(b)fluoranthene	ND	ug/l	5.0					
Benzo(k)fluoranthene	ND	ug/l	5.0					
Chrysene	ND	ug/l	5.0					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0204504

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-03								
SVOC's by GC/MS 8270 continued				1	8270C	0509 09:45	0511 11:10	HL
Acenaphthylene	ND	ug/l	5.0					
Anthracene	ND	ug/l	5.0					
Benzo(ghi)perylene	ND	ug/l	5.0					
Fluorene	ND	ug/l	5.0					
Phenanthrene	ND	ug/l	5.0					
Dibenzo(a,h)anthracene	ND	ug/l	5.0					
Indeno(1,2,3-cd)pyrene	ND	ug/l	7.0					
Pyrene	ND	ug/l	5.0					
Benzo(e)pyrene	ND	ug/l	5.0					
Biphenyl	ND	ug/l	5.0					
Perylene	ND	ug/l	5.0					
Aniline	ND	ug/l	10.					
4-Chloroaniline	ND	ug/l	5.0					
1-Methylnaphthalene	ND	ug/l	5.0					
2-Nitroaniline	ND	ug/l	5.0					
3-Nitroaniline	ND	ug/l	5.0					
4-Nitroaniline	ND	ug/l	7.0					
Dibenzofuran	ND	ug/l	5.0					
a,a-Dimethylphenethylamine	ND	ug/l	50.					
Hexachloropropene	ND	ug/l	50.					
Nitrosodi-n-butylamine	ND	ug/l	10.					
2-Methylnaphthalene	ND	ug/l	8.0					
1,2,4,5-Tetrachlorobenzene	ND	ug/l	20.					
Pentachlorobenzene	ND	ug/l	20.					
a-Naphthylamine	ND	ug/l	20.					
b-Naphthylamine	ND	ug/l	20.					
Phenacetin	ND	ug/l	10.					
Dimethoate	ND	ug/l	20.					
4-Aminobiphenyl	ND	ug/l	10.					
Pentachloronitrobenzene	ND	ug/l	10.					
Isodrin	ND	ug/l	10.					
p-Dimethylaminoazobenzene	ND	ug/l	10.					
Chlorobenzilate	ND	ug/l	20.					
3-Methylcholanthrene	ND	ug/l	20.					
Ethyl Methanesulfonate	ND	ug/l	15.					
Acetophenone	ND	ug/l	20.					
Nitrosodipiperidine	ND	ug/l	20.					
7,12-Dimethylbenz(a)anthracene	ND	ug/l	10.					
n-Nitrosodimethylamine	ND	ug/l	50.					
2,4,6-Trichlorophenol	ND	ug/l	5.0					
p-Chloro-m-cresol	ND	ug/l	5.0					
2-Chlorophenol	ND	ug/l	6.0					
2,4-Dichlorophenol	ND	ug/l	10.					
2,4-Dimethylphenol	ND	ug/l	10.					
2-Nitrophenol	ND	ug/l	20.					
4-Nitrophenol	ND	ug/l	10.					
2,4-Dinitrophenol	ND	ug/l	20.					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0204504

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-03							
SVOC's by GC/MS 8270 continued				1 8270C	0509 09:45	0511 11:10	HL
4,6-Dinitro-o-cresol	ND	ug/l	20.				
Pentachlorophenol	ND	ug/l	20.				
Phenol	ND	ug/l	7.0				
2-Methylphenol	ND	ug/l	6.0				
3-Methylphenol/4-Methylphenol	ND	ug/l	6.0				
2,4,5-Trichlorophenol	ND	ug/l	5.0				
2,6-Dichlorophenol	ND	ug/l	10.				
Benzoic Acid	ND	ug/l	50.				
Benzyl Alcohol	ND	ug/l	10.				
Carbazole	ND	ug/l	5.0				
Pyridine	ND	ug/l	50.				
2-Picoline	ND	ug/l	20.				
Pronamide	ND	ug/l	20.				
Methyl methanesulfonate	ND	ug/l	20.				
Surrogate Recovery							
2-Fluorophenol	23.0	%					
Phenol-d6	17.0	%					
Nitrobenzene-d5	72.0	%					
2-Fluorobiphenyl	85.0	%					
2,4,6-Tribromophenol	93.0	%					
4-Terphenyl-d14	95.0	%					

REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Update III, 1997.

30. Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

45. Physiologically Available Cyanide (PAC), January 1996 Protocol, Mass DEP 1996.

GLOSSARY OF TERMS AND SYMBOLS

REF Reference number in which test method may be found.
METHOD Method number by which analysis was performed.
ID Initials of the analyst.

Please note that all solid samples are reported on dry weight basis unless noted otherwise.

LIMITATION OF LIABILITIES

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.

Quality Control Acceptance Criteria

Trace Metals by Method 6010B/7000 series

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
target analyte	75%	125%	70%	140%	20%	35%

Mercury by Method 7470A/7471A

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
mercury	70%	130%	60%	140%	35%	45%

Total Cyanide by Method 9010B

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
cyanide	80%	120%	65%	135%	30%	40%

Total Phenol by Method 9065

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
phenol	70%	130%	65%	135%	20%	30%

HALEY & ALDRICH
Haley & Aldrich, Inc.
465 Medford St.,
Suite 2200,
Boston, MA 02129-1400

CHAIN OF CUSTODY RECORD

Phone (617) 886-7400
Fax (617) 886-7600

H&A FILE NO. 06558-631
PROJECT NAME Malden MGP
H&A CONTACT SRP

LABORATORY Alpha
ADDRESS Westboro MA
CONTACT Pete H.

DELIVERY DATE 5/8/02
TURNAROUND TIME 3 Day Turnaround
PROJECT MANAGER BAW

Sample No.	Date	Time	Depth	Type	VOA (1)	ABNs Full only (2)	Metals RCRA (Hg) PB(12)	Pesticides PCBs	VPH Full Suite Cocktail only	EPH Full Suite Cocktail only	TPH (specify)	TCLP (specify)	Reactivity Ignitability Corrosivity	4	5	6	Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)
97B-B628-OW	5/7/02	1132		AQ	✓	✓	✓							✓	✓	✓	8	(1) VOC 8260
MW-1	5/7/02	1430		AQ	✓	✓	✓							✓	✓		7	2 ABN - 8270
NC-1	5/7/02	1620		AQ	✓	✓	✓							✓	✓		7	3 TRCRA 8
																		4 PAC - IF TCN Detected
																		5 TCN
																		6 Fluoride

Sampled and Relinquished by	Received by
Sign S. Shay	Sign Sean M. Carroll
Print S. SHAY	Print Sean M. Carroll
Firm Haley & Aldrich	Firm H+A
Date 5/7/02 Time 1650	Date 5/7/02 Time 1650
Relinquished by	**Received by**
Sign Sean M. Carroll	Sign [illegible]
Print Sean M. Carroll	Print [illegible]
Firm H+A	Firm H+A
Date 5/7/02 Time 1820	Date 5/7/02 Time 18:20
Relinquished by	**Received by**
Sign [illegible]	Sign [illegible]
Print [illegible]	Print [illegible]
Firm H+A	Firm [illegible]
Date 5/8/02 Time 12:20	Date 5/8/02 Time 12:20

Analysis Requested

	VOA (1)	ABNs Full only (2)	Metals RCRA (Hg) PB(12)	Pesticides PCBs	VPH Full Suite Cocktail only	EPH Full Suite Cocktail only	TPH (specify)	TCLP (specify)	Reactivity Ignitability Corrosivity	4	5	6	Number of Containers
LIQUID													
VOA Vial	✓												
Amber Glass		✓											
Plastic Bottle			✓							✓	✓	✓	
Preservative	A F	A	A B D							A	A C	A	
Volume	40	1000	500							250	250	500	
SOLID													
VOA Vial													
Amber Glass													
Clear Glass													
Preservative													
Volume													

Sampling Comments

Evidence samples were tampered with? YES NO
If YES, please explain in section below.

PRESERVATION KEY

A Sample chilled
B Sample filtered
C NaOH
D HNO_3
E H_2SO_4
F HCL
G Methanol
H Sodium Bisulfate

WHITE - Laboratory CANARY - Project Manager PINK - Haley & Aldrich Laboratory GOLDENROD Haley & Aldrich Contact

RECEIVED

MAY 20 2002

Haley & Aldrich, Inc.

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220 www.alphalab.com

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:55 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

Client: Haley & Aldrich, Inc.

Address: 465 Medford Street, Suite 2200
Boston, MA 02129-1400

Attn: Mr. Steve Provencal

Project Number: 06558-631

Site: MALDEN MGP

Laboratory Job Number: L0204503

Invoice Number: 63443

Date Received: 08-MAY-02

Date Reported: 15-MAY-02

Delivery Method: Alpha

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0204503-01	97B-B627-OW	
L0204503-02	97B-B618-OW	
L0204503-03	NC-3	
L0204503-04	DUP-B	

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by: Scott McLean

Scott McLean - Technical Director
This document electronically signed

ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT

Laboratory Job Number: L0204503

Alpha Report L0204503:

It should be noted that no significant deviations were encountered during preparation or analysis of these samples unless noted below.

Volatile Organics

Alpha Samples L0204503-03 through -04 have elevated limits of detection due to the dilutions required by the elevated concentration of target compounds in the samples.

Semivolatile Organics

Alpha Samples L0204503-03 through -04 have elevated limits of detection due to the dilutions required by the elevated concentration of target compounds in the samples.

One or more matrix spike/matrix spike duplicate percent recoveries are above the in-house acceptance criteria for the method. Samples are non-detect for all affected compounds, therefore no further action was taken.

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204503-01
97B-B627-OW

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1 8260B		0509 20:28	BT
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Surrogate Recovery							
1,2-Dichloroethane-d4	102.	%					
Toluene-d8	102.	%					
4-Bromofluorobenzene	99.0	%					
Dibromofluoromethane	96.0	%					
SVOC's by GC/MS 8270				1 8270C	0509 09:45	0511 13:38	HL
Acenaphthene	ND	ug/l	5.0				
Benzidine	ND	ug/l	50.				
1,2,4-Trichlorobenzene	ND	ug/l	5.0				
Hexachlorobenzene	ND	ug/l	5.0				
Bis(2-chloroethyl)ether	ND	ug/l	5.0				
1-Chloronaphthalene	ND	ug/l	5.0				
2-Chloronaphthalene	ND	ug/l	6.0				
1,2-Dichlorobenzene	ND	ug/l	5.0				
1,3-Dichlorobenzene	ND	ug/l	5.0				
1,4-Dichlorobenzene	ND	ug/l	5.0				
3,3'-Dichlorobenzidine	ND	ug/l	50.				
2,4-Dinitrotoluene	ND	ug/l	6.0				
2,6-Dinitrotoluene	ND	ug/l	5.0				
Azobenzene	ND	ug/l	5.0				
Fluoranthene	ND	ug/l	5.0				
4-Chlorophenyl phenyl ether	ND	ug/l	5.0				
4-Bromophenyl phenyl ether	ND	ug/l	5.0				
Bis(2-chloroisopropyl)ether	ND	ug/l	5.0				
Bis(2-chloroethoxy)methane	ND	ug/l	5.0				
Hexachlorobutadiene	ND	ug/l	10.				
Hexachlorocyclopentadiene	ND	ug/l	10.				
Hexachloroethane	ND	ug/l	5.0				
Isophorone	ND	ug/l	5.0				
Naphthalene	ND	ug/l	5.0				
Nitrobenzene	ND	ug/l	5.0				
NDPA/DPA	ND	ug/l	15.				
n-Nitrosodi-n-propylamine	ND	ug/l	5.0				
Bis(2-ethylhexyl)phthalate	ND	ug/l	10.				
Butyl benzyl phthalate	ND	ug/l	5.0				
Di-n-butylphthalate	ND	ug/l	5.0				
Di-n-octylphthalate	ND	ug/l	5.0				
Diethyl phthalate	ND	ug/l	5.0				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204503-01
97B-B627-OW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1	8270C	0509 09:45	0511 13:38	HL
Dimethyl phthalate	ND	ug/l	5.0					
Benzo(a)anthracene	ND	ug/l	5.0					
Benzo(a)pyrene	ND	ug/l	5.0					
Benzo(b)fluoranthene	ND	ug/l	5.0					
Benzo(k)fluoranthene	ND	ug/l	5.0					
Chrysene	ND	ug/l	5.0					
Acenaphthylene	ND	ug/l	5.0					
Anthracene	ND	ug/l	5.0					
Benzo(ghi)perylene	ND	ug/l	5.0					
Fluorene	ND	ug/l	5.0					
Phenanthrene	ND	ug/l	5.0					
Dibenzo(a,h)anthracene	ND	ug/l	5.0					
Indeno(1,2,3-cd)pyrene	ND	ug/l	7.0					
Pyrene	ND	ug/l	5.0					
Benzo(e)pyrene	ND	ug/l	5.0					
Biphenyl	ND	ug/l	5.0					
Perylene	ND	ug/l	5.0					
Aniline	ND	ug/l	10.					
4-Chloroaniline	ND	ug/l	5.0					
1-Methylnaphthalene	ND	ug/l	5.0					
2-Nitroaniline	ND	ug/l	5.0					
3-Nitroaniline	ND	ug/l	5.0					
4-Nitroaniline	ND	ug/l	7.0					
Dibenzofuran	ND	ug/l	5.0					
a,a-Dimethylphenethylamine	ND	ug/l	50.					
Hexachloropropene	ND	ug/l	50.					
Nitrosodi-n-butylamine	ND	ug/l	10.					
2-Methylnaphthalene	ND	ug/l	8.0					
1,2,4,5-Tetrachlorobenzene	ND	ug/l	20.					
Pentachlorobenzene	ND	ug/l	20.					
a-Naphthylamine	ND	ug/l	20.					
b-Naphthylamine	ND	ug/l	20.					
Phenacetin	ND	ug/l	10.					
Dimethoate	ND	ug/l	20.					
4-Aminobiphenyl	ND	ug/l	10.					
Pentachloronitrobenzene	ND	ug/l	10.					
Isodrin	ND	ug/l	10.					
p-Dimethylaminoazobenzene	ND	ug/l	10.					
Chlorobenzilate	ND	ug/l	20.					
3-Methylcholanthrene	ND	ug/l	20.					
Ethyl Methanesulfonate	ND	ug/l	15.					
Acetophenone	ND	ug/l	20.					
Nitrosodipiperidine	ND	ug/l	20.					
7,12-Dimethylbenz(a)anthracene	ND	ug/l	10.					
n-Nitrosodimethylamine	ND	ug/l	50.					
2,4,6-Trichlorophenol	ND	ug/l	5.0					
p-Chloro-m-cresol	ND	ug/l	5.0					
2-Chlorophenol	ND	ug/l	6.0					
2,4-Dichlorophenol	ND	ug/l	10.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204503-01
97B-B627-OW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1	8270C	0509 09:45	0511 13:38	HL
2,4-Dimethylphenol	ND	ug/l	10.					
2-Nitrophenol	ND	ug/l	20.					
4-Nitrophenol	ND	ug/l	10.					
2,4-Dinitrophenol	ND	ug/l	20.					
4,6-Dinitro-o-cresol	ND	ug/l	20.					
Pentachlorophenol	ND	ug/l	20.					
Phenol	ND	ug/l	7.0					
2-Methylphenol	ND	ug/l	6.0					
3-Methylphenol/4-Methylphenol	ND	ug/l	6.0					
2,4,5-Trichlorophenol	ND	ug/l	5.0					
2,6-Dichlorophenol	ND	ug/l	10.					
Benzoic Acid	ND	ug/l	50.					
Benzyl Alcohol	ND	ug/l	10.					
Carbazole	ND	ug/l	5.0					
Pyridine	ND	ug/l	50.					
2-Picoline	ND	ug/l	20.					
Pronamide	ND	ug/l	20.					
Methyl methanesulfonate	ND	ug/l	20.					
Surrogate Recovery								
2-Fluorophenol	52.0	%						
Phenol-d6	35.0	%						
Nitrobenzene-d5	87.0	%						
2-Fluorobiphenyl	85.0	%						
2,4,6-Tribromophenol	88.0	%						
4-Terphenyl-d14	86.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0204503-02
97B-B618-OW
Sample Matrix: WATER

Date Collected: 07-MAY-2002 14:00
Date Received : 08-MAY-2002
Date Reported : 15-MAY-2002

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,3-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Cyanide, Total	0.099	mg/l	0.005	1	9010B	0513 11:00	0513 15:33	ED
Cyanide, Physiologically Available	0.034	mg/l	0.005	45		0508 17:00	0509 13:37	ED
Total Metals				1	3015			
Arsenic, Total	ND	mg/l	0.005	1	6010B	0509 11:40	0514 16:10	MG
Barium, Total	0.01	mg/l	0.01	1	6010B	0509 11:40	0514 16:10	MG
Cadmium, Total	ND	mg/l	0.005	1	6010B	0509 11:40	0514 16:10	MG
Chromium, Total	ND	mg/l	0.01	1	6010B	0509 11:40	0514 16:10	MG
Lead, Total	ND	mg/l	0.050	1	6010B	0509 11:40	0514 16:10	MG
Mercury, Total	ND	mg/l	0.0005	1	7470A	0513 17:45	0514 10:30	DM
Selenium, Total	ND	mg/l	0.005	1	6010B	0509 11:40	0514 16:10	MG
Silver, Total	ND	mg/l	0.007	1	6010B	0509 11:40	0514 16:10	MG
Volatile Organics by GC/MS 8260				1	8260B		0509 21:10	BT
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	0.50					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	2.4	ug/l	0.50					
Toluene	ND	ug/l	0.75					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204503-02
97B-B618-OW

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1 8260B		0509 21:10	BT
Ethylbenzene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	4.8	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	21.	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.5				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	0.80	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	2.5				
Isopropylbenzene	2.9	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204503-02
97B-B618-OW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		0509 21:10	BT
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					
Surrogate Recovery								
1,2-Dichloroethane-d4	103.	%						
Toluene-d8	104.	%						
4-Bromofluorobenzene	102.	%						
Dibromofluoromethane	99.0	%						
SVOC's by GC/MS 8270				1	8270C	0509 09:45	0511 11:19	HL
Acenaphthene	ND	ug/l	5.0					
Benzidine	ND	ug/l	50.					
1,2,4-Trichlorobenzene	ND	ug/l	5.0					
Hexachlorobenzene	ND	ug/l	5.0					
Bis(2-chloroethyl)ether	ND	ug/l	5.0					
1-Chloronaphthalene	ND	ug/l	5.0					
2-Chloronaphthalene	ND	ug/l	6.0					
1,2-Dichlorobenzene	ND	ug/l	5.0					
1,3-Dichlorobenzene	ND	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	5.0					
3,3'-Dichlorobenzidine	ND	ug/l	50.					
2,4-Dinitrotoluene	ND	ug/l	6.0					
2,6-Dinitrotoluene	ND	ug/l	5.0					
Azobenzene	ND	ug/l	5.0					
Fluoranthene	ND	ug/l	5.0					
4-Chlorophenyl phenyl ether	ND	ug/l	5.0					
4-Bromophenyl phenyl ether	ND	ug/l	5.0					
Bis(2-chloroisopropyl)ether	ND	ug/l	5.0					
Bis(2-chloroethoxy)methane	ND	ug/l	5.0					
Hexachlorobutadiene	ND	ug/l	10.					
Hexachlorocyclopentadiene	ND	ug/l	10.					
Hexachloroethane	ND	ug/l	5.0					
Isophorone	ND	ug/l	5.0					
Naphthalene	ND	ug/l	5.0					
Nitrobenzene	ND	ug/l	5.0					
NDPA/DPA	ND	ug/l	15.					
n-Nitrosodi-n-propylamine	ND	ug/l	5.0					
Bis(2-ethylhexyl)phthalate	ND	ug/l	10.					
Butyl benzyl phthalate	ND	ug/l	5.0					
Di-n-butylphthalate	ND	ug/l	5.0					
Di-n-octylphthalate	ND	ug/l	5.0					
Diethyl phthalate	ND	ug/l	5.0					
Dimethyl phthalate	ND	ug/l	5.0					
Benzo(a)anthracene	ND	ug/l	5.0					
Benzo(a)pyrene	ND	ug/l	5.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204503-02
97B-B618-OW

PARAMETER	RESULT	UNITS	RDL	REP	METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1	8270C	0509 09:45	0511 11:19	HL
Benzo(b)fluoranthene	ND	ug/l	5.0					
Benzo(k)fluoranthene	ND	ug/l	5.0					
Chrysene	ND	ug/l	5.0					
Acenaphthylene	ND	ug/l	5.0					
Anthracene	ND	ug/l	5.0					
Benzo(ghi)perylene	ND	ug/l	5.0					
Fluorene	ND	ug/l	5.0					
Phenanthrene	ND	ug/l	5.0					
Dibenzo(a,h)anthracene	ND	ug/l	5.0					
Indeno(1,2,3-cd)pyrene	ND	ug/l	7.0					
Pyrene	ND	ug/l	5.0					
Benzo(e)pyrene	ND	ug/l	5.0					
Biphenyl	ND	ug/l	5.0					
Perylene	ND	ug/l	5.0					
Aniline	ND	ug/l	10.					
4-Chloroaniline	ND	ug/l	5.0					
1-Methylnaphthalene	ND	ug/l	5.0					
2-Nitroaniline	ND	ug/l	5.0					
3-Nitroaniline	ND	ug/l	5.0					
4-Nitroaniline	ND	ug/l	7.0					
Dibenzofuran	ND	ug/l	5.0					
a,a-Dimethylphenethylamine	ND	ug/l	50.					
Hexachloropropene	ND	ug/l	50.					
Nitrosodi-n-butylamine	ND	ug/l	10.					
2-Methylnaphthalene	ND	ug/l	8.0					
1,2,4,5-Tetrachlorobenzene	ND	ug/l	20.					
Pentachlorobenzene	ND	ug/l	20.					
a-Naphthylamine	ND	ug/l	20.					
b-Naphthylamine	ND	ug/l	20.					
Phenacetin	ND	ug/l	10.					
Dimethoate	ND	ug/l	20.					
4-Aminobiphenyl	ND	ug/l	10.					
Pentachloronitrobenzene	ND	ug/l	10.					
Isodrin	ND	ug/l	10.					
p-Dimethylaminoazobenzene	ND	ug/l	10.					
Chlorobenzilate	ND	ug/l	20.					
3-Methylcholanthrene	ND	ug/l	20.					
Ethyl Methanesulfonate	ND	ug/l	15.					
Acetophenone	ND	ug/l	20.					
Nitrosodipiperidine	ND	ug/l	20.					
7,12-Dimethylbenz(a)anthracene	ND	ug/l	10.					
n-Nitrosodimethylamine	ND	ug/l	50.					
2,4,6-Trichlorophenol	ND	ug/l	5.0					
p-Chloro-m-cresol	ND	ug/l	5.0					
2-Chlorophenol	ND	ug/l	6.0					
2,4-Dichlorophenol	ND	ug/l	10.					
2,4-Dimethylphenol	ND	ug/l	10.					
2-Nitrophenol	ND	ug/l	20.					
4-Nitrophenol	ND	ug/l	10.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204503-02
97B-B618-OW

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1 8270C	0509 09:45	0511 11:19	KL
2,4-Dinitrophenol	ND	ug/l	20.				
4,6-Dinitro-o-cresol	ND	ug/l	20.				
Pentachlorophenol	ND	ug/l	20.				
Phenol	ND	ug/l	7.0				
2-Methylphenol	ND	ug/l	6.0				
3-Methylphenol/4-Methylphenol	ND	ug/l	6.0				
2,4,5-Trichlorophenol	ND	ug/l	5.0				
2,6-Dichlorophenol	ND	ug/l	10.				
Benzoic Acid	ND	ug/l	50.				
Benzyl Alcohol	ND	ug/l	10.				
Carbazole	ND	ug/l	5.0				
Pyridine	ND	ug/l	50.				
2-Picoline	ND	ug/l	20.				
Pronamide	ND	ug/l	20.				
Methyl methanesulfonate	ND	ug/l	20.				
Surrogate Recovery							
2-Fluorophenol	56.0	%					
Phenol-d6	37.0	%					
Nitrobenzene-d5	89.0	%					
2-Fluorobiphenyl	89.0	%					
2,4,6-Tribromophenol	99.0	%					
4-Terphenyl-d14	91.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0204503-03
NC-3
Sample Matrix: WATER

Date Collected: 07-MAY-2002 16:50
Date Received : 08-MAY-2002
Date Reported : 15-MAY-2002

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,3-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Cyanide, Total	0.221	mg/l	0.005	1	9010B	0513 11:00	0513 15:34	ED
Cyanide, Physiologically Available	0.047	mg/l	0.005	45		0508 17:00	0509 13:38	ED
Total Metals				1	3015			
Arsenic, Total	0.023	mg/l	0.005	1	6010B	0509 11:40	0514 16:15	MG
Barium, Total	0.11	mg/l	0.01	1	6010B	0509 11:40	0514 16:15	MG
Cadmium, Total	ND	mg/l	0.005	1	6010B	0509 11:40	0514 16:15	MG
Chromium, Total	ND	mg/l	0.01	1	6010B	0509 11:40	0514 16:15	MG
Lead, Total	ND	mg/l	0.050	1	6010B	0509 11:40	0514 16:15	MG
Mercury, Total	ND	mg/l	0.0005	1	7470A	0513 17:45	0514 10:32	DM
Selenium, Total	ND	mg/l	0.005	1	6010B	0509 11:40	0514 16:15	MG
Silver, Total	ND	mg/l	0.007	1	6010B	0509 11:40	0514 16:15	MG
Volatile Organics by GC/MS 8260				1	8260B		0514 12:52	BT
Methylene chloride	ND	ug/l	1000					
1,1-Dichloroethane	ND	ug/l	150					
Chloroform	ND	ug/l	150					
Carbon tetrachloride	ND	ug/l	100					
1,2-Dichloropropane	ND	ug/l	350					
Dibromochloromethane	ND	ug/l	100					
1,1,2-Trichloroethane	ND	ug/l	150					
Tetrachloroethene	ND	ug/l	100					
Chlorobenzene	ND	ug/l	100					
Trichlorofluoromethane	ND	ug/l	500					
1,2-Dichloroethane	ND	ug/l	100					
1,1,1-Trichloroethane	ND	ug/l	100					
Bromodichloromethane	ND	ug/l	100					
trans-1,3-Dichloropropene	ND	ug/l	100					
cis-1,3-Dichloropropene	ND	ug/l	100					
1,1-Dichloropropene	ND	ug/l	500					
Bromoform	ND	ug/l	100					
1,1,2,2-Tetrachloroethane	ND	ug/l	100					
Benzene	20000	ug/l	100					
Toluene	190	ug/l	150					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204503-03
NC-3

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		0514 12:52	BT
Ethylbenzene	2200	ug/l	100					
Chloromethane	ND	ug/l	500					
Bromomethane	ND	ug/l	200					
Vinyl chloride	ND	ug/l	200					
Chloroethane	ND	ug/l	200					
1,1-Dichloroethene	ND	ug/l	100					
trans-1,2-Dichloroethene	ND	ug/l	150					
Trichloroethene	ND	ug/l	100					
1,2-Dichlorobenzene	ND	ug/l	500					
1,3-Dichlorobenzene	ND	ug/l	500					
1,4-Dichlorobenzene	ND	ug/l	500					
Methyl tert butyl ether	ND	ug/l	200					
p/m-Xylene	420	ug/l	100					
o-Xylene	220	ug/l	100					
cis-1,2-Dichloroethene	ND	ug/l	100					
Dibromomethane	ND	ug/l	1000					
1,4-Dichlorobutane	ND	ug/l	1000					
Iodomethane	ND	ug/l	1000					
1,2,3-Trichloropropane	ND	ug/l	1000					
Styrene	ND	ug/l	100					
Dichlorodifluoromethane	ND	ug/l	1000					
Acetone	ND	ug/l	1000					
Carbon disulfide	ND	ug/l	1000					
2-Butanone	ND	ug/l	1000					
Vinyl acetate	ND	ug/l	1000					
4-Methyl-2-pentanone	ND	ug/l	1000					
2-Hexanone	ND	ug/l	1000					
Ethyl methacrylate	ND	ug/l	1000					
Acrolein	ND	ug/l	2500					
Acrylonitrile	ND	ug/l	1000					
Bromochloromethane	ND	ug/l	500					
Tetrahydrofuran	ND	ug/l	2000					
2,2-Dichloropropane	ND	ug/l	500					
1,2-Dibromoethane	ND	ug/l	500					
1,3-Dichloropropane	ND	ug/l	500					
1,1,1,2-Tetrachloroethane	ND	ug/l	100					
Bromobenzene	ND	ug/l	500					
n-Butylbenzene	ND	ug/l	100					
sec-Butylbenzene	ND	ug/l	100					
tert-Butylbenzene	ND	ug/l	500					
o-Chlorotoluene	ND	ug/l	500					
p-Chlorotoluene	ND	ug/l	500					
1,2-Dibromo-3-chloropropane	ND	ug/l	500					
Hexachlorobutadiene	ND	ug/l	500					
Isopropylbenzene	ND	ug/l	100					
p-Isopropyltoluene	ND	ug/l	100					
Naphthalene	720	ug/l	500					
n-Propylbenzene	ND	ug/l	100					
1,2,3-Trichlorobenzene	ND	ug/l	500					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204503-03
NC-3

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		0514 12:52	BT
1,2,4-Trichlorobenzene	ND	ug/l	500					
1,3,5-Trimethylbenzene	ND	ug/l	500					
1,2,4-Trimethylbenzene	ND	ug/l	500					
trans-1,4-Dichloro-2-butene	ND	ug/l	500					
Ethyl ether	ND	ug/l	500					
Surrogate Recovery								
1,2-Dichloroethane-d4	104.	%						
Toluene-d8	99.0	%						
4-Bromofluorobenzene	106.	%						
Dibromofluoromethane	102.	%						
SVOC's by GC/MS 8270				1	8270C	0509 09:45	0511 15:58	HL
Acenaphthene	ND	ug/l	10.					
Benzidine	ND	ug/l	100					
1,2,4-Trichlorobenzene	ND	ug/l	10.					
Hexachlorobenzene	ND	ug/l	10.					
Bis(2-chloroethyl)ether	ND	ug/l	10.					
1-Chloronaphthalene	ND	ug/l	10.					
2-Chloronaphthalene	ND	ug/l	12.					
1,2-Dichlorobenzene	ND	ug/l	10.					
1,3-Dichlorobenzene	ND	ug/l	10.					
1,4-Dichlorobenzene	ND	ug/l	10.					
3,3'-Dichlorobenzidine	ND	ug/l	100					
2,4-Dinitrotoluene	ND	ug/l	12.					
2,6-Dinitrotoluene	ND	ug/l	10.					
Azobenzene	ND	ug/l	10.					
Fluoranthene	ND	ug/l	10.					
4-Chlorophenyl phenyl ether	ND	ug/l	10.					
4-Bromophenyl phenyl ether	ND	ug/l	10.					
Bis(2-chloroisopropyl)ether	ND	ug/l	10.					
Bis(2-chloroethoxy)methane	ND	ug/l	10.					
Hexachlorobutadiene	ND	ug/l	20.					
Hexachlorocyclopentadiene	ND	ug/l	20.					
Hexachloroethane	ND	ug/l	10.					
Isophorone	ND	ug/l	10.					
Naphthalene	270	ug/l	10.					
Nitrobenzene	ND	ug/l	10.					
NDPA/DPA	ND	ug/l	30.					
n-Nitrosodi-n-propylamine	ND	ug/l	10.					
Bis(2-ethylhexyl)phthalate	ND	ug/l	20.					
Butyl benzyl phthalate	ND	ug/l	10.					
Di-n-butylphthalate	ND	ug/l	10.					
Di-n-octylphthalate	ND	ug/l	10.					
Diethyl phthalate	ND	ug/l	10.					
Dimethyl phthalate	ND	ug/l	10.					
Benzo(a)anthracene	ND	ug/l	10.					
Benzo(a)pyrene	ND	ug/l	10.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204503-03
NC-3

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1	8270C	0509 09:45	0511 15:58	HL
Benzo(b)fluoranthene	ND	ug/l	10.					
Benzo(k)fluoranthene	ND	ug/l	10.					
Chrysene	ND	ug/l	10.					
Acenaphthylene	ND	ug/l	10.					
Anthracene	ND	ug/l	10.					
Benzo(ghi)perylene	ND	ug/l	10.					
Fluorene	ND	ug/l	10.					
Phenanthrene	ND	ug/l	10.					
Dibenzo(a,h)anthracene	ND	ug/l	10.					
Indeno(1,2,3-cd)pyrene	ND	ug/l	14.					
Pyrene	ND	ug/l	10.					
Benzo(e)pyrene	ND	ug/l	10.					
Biphenyl	ND	ug/l	10.					
Perylene	ND	ug/l	10.					
Aniline	ND	ug/l	20.					
4-Chloroaniline	ND	ug/l	10.					
1-Methylnaphthalene	43.	ug/l	10.					
2-Nitroaniline	ND	ug/l	10.					
3-Nitroaniline	ND	ug/l	10.					
4-Nitroaniline	ND	ug/l	14.					
Dibenzofuran	ND	ug/l	10.					
a,a-Dimethylphenethylamine	ND	ug/l	100					
Hexachloropropene	ND	ug/l	100					
Nitrosodi-n-butylamine	ND	ug/l	20.					
2-Methylnaphthalene	ND	ug/l	16.					
1,2,4,5-Tetrachlorobenzene	ND	ug/l	40.					
Pentachlorobenzene	ND	ug/l	40.					
a-Naphthylamine	ND	ug/l	40.					
b-Naphthylamine	ND	ug/l	40.					
Phenacetin	ND	ug/l	20.					
Dimethoate	ND	ug/l	40.					
4-Aminobiphenyl	ND	ug/l	20.					
Pentachloronitrobenzene	ND	ug/l	20.					
Isodrin	ND	ug/l	20.					
p-Dimethylaminoazobenzene	ND	ug/l	20.					
Chlorobenzilate	ND	ug/l	40.					
3-Methylcholanthrene	ND	ug/l	40.					
Ethyl Methanesulfonate	ND	ug/l	30.					
Acetophenone	ND	ug/l	40.					
Nitrosodipiperidine	ND	ug/l	40.					
7,12-Dimethylbenz(a)anthracene	ND	ug/l	20.					
n-Nitrosodimethylamine	ND	ug/l	100					
2,4,6-Trichlorophenol	ND	ug/l	10.					
p-Chloro-m-cresol	ND	ug/l	10.					
2-Chlorophenol	ND	ug/l	12.					
2,4-Dichlorophenol	ND	ug/l	20.					
2,4-Dimethylphenol	ND	ug/l	20.					
2-Nitrophenol	ND	ug/l	40.					
4-Nitrophenol	ND	ug/l	20.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204503-03
NC-3

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1 8270C	0509 09:45	0511 15:58	HL
2,4-Dinitrophenol	ND	ug/l	40.				
4,6-Dinitro-o-cresol	ND	ug/l	40.				
Pentachlorophenol	ND	ug/l	40.				
Phenol	ND	ug/l	14.				
2-Methylphenol	ND	ug/l	12.				
3-Methylphenol/4-Methylphenol	ND	ug/l	12.				
2,4,5-Trichlorophenol	ND	ug/l	10.				
2,6-Dichlorophenol	ND	ug/l	20.				
Benzoic Acid	ND	ug/l	100				
Benzyl Alcohol	ND	ug/l	20.				
Carbazole	ND	ug/l	10.				
Pyridine	ND	ug/l	100				
2-Picoline	ND	ug/l	40.				
Pronamide	ND	ug/l	40.				
Methyl methanesulfonate	ND	ug/l	40.				
Surrogate Recovery							
2-Fluorophenol	49.0	%					
Phenol-d6	33.0	%					
Nitrobenzene-d5	76.0	%					
2-Fluorobiphenyl	81.0	%					
2,4,6-Tribromophenol	98.0	%					
4-Terphenyl-d14	89.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0204503-04
DUP-B
Sample Matrix: WATER

Date Collected: 07-MAY-2002 17:00
Date Received : 08-MAY-2002
Date Reported : 15-MAY-2002

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,3-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Cyanide, Total	0.217	mg/l	0.005	1	9010B	0513 11:00	0513 15:35	ED
Cyanide, Physiologically Available	0.017	mg/l	0.005	45		0508 17:00	0509 13:38	ED
Total Metals				1	3015			
Arsenic, Total	0.016	mg/l	0.005	1	6010B	0509 11:40	0514 16:20	MG
Barium, Total	0.11	mg/l	0.01	1	6010B	0509 11:40	0514 16:20	MG
Cadmium, Total	ND	mg/l	0.005	1	6010B	0509 11:40	0514 16:20	MG
Chromium, Total	ND	mg/l	0.01	1	6010B	0509 11:40	0514 16:20	MG
Lead, Total	ND	mg/l	0.050	1	6010B	0509 11:40	0514 16:20	MG
Mercury, Total	ND	mg/l	0.0005	1	7470A	0513 17:45	0514 10:34	DM
Selenium, Total	ND	mg/l	0.005	1	6010B	0509 11:40	0514 16:20	MG
Silver, Total	ND	mg/l	0.007	1	6010B	0509 11:40	0514 16:20	MG
Volatile Organics by GC/MS 8260				1	8260B		0514 13:33	BT
Methylene chloride	ND	ug/l	2000					
1,1-Dichloroethane	ND	ug/l	300					
Chloroform	ND	ug/l	300					
Carbon tetrachloride	ND	ug/l	200					
1,2-Dichloropropane	ND	ug/l	700					
Dibromochloromethane	ND	ug/l	200					
1,1,2-Trichloroethane	ND	ug/l	300					
Tetrachloroethene	ND	ug/l	200					
Chlorobenzene	ND	ug/l	200					
Trichlorofluoromethane	ND	ug/l	1000					
1,2-Dichloroethane	ND	ug/l	200					
1,1,1-Trichloroethane	ND	ug/l	200					
Bromodichloromethane	ND	ug/l	200					
trans-1,3-Dichloropropene	ND	ug/l	200					
cis-1,3-Dichloropropene	ND	ug/l	200					
1,1-Dichloropropene	ND	ug/l	1000					
Bromoform	ND	ug/l	200					
1,1,2,2-Tetrachloroethane	ND	ug/l	200					
Benzene	26000	ug/l	200					
Toluene	320	ug/l	300					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204503-04
DUP-B

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1 8260B		0514 13:33	BT
Ethylbenzene	2700	ug/l	200				
Chloromethane	ND	ug/l	1000				
Bromomethane	ND	ug/l	400				
Vinyl chloride	ND	ug/l	400				
Chloroethane	ND	ug/l	400				
1,1-Dichloroethene	ND	ug/l	200				
trans-1,2-Dichloroethene	ND	ug/l	300				
Trichloroethene	ND	ug/l	200				
1,2-Dichlorobenzene	ND	ug/l	1000				
1,3-Dichlorobenzene	ND	ug/l	1000				
1,4-Dichlorobenzene	ND	ug/l	1000				
Methyl tert butyl ether	ND	ug/l	400				
p/m-Xylene	570	ug/l	200				
o-Xylene	270	ug/l	200				
cis-1,2-Dichloroethene	ND	ug/l	200				
Dibromomethane	ND	ug/l	2000				
1,4-Dichlorobutane	ND	ug/l	2000				
Iodomethane	ND	ug/l	2000				
1,2,3-Trichloropropane	ND	ug/l	2000				
Styrene	ND	ug/l	200				
Dichlorodifluoromethane	ND	ug/l	2000				
Acetone	ND	ug/l	2000				
Carbon disulfide	ND	ug/l	2000				
2-Butanone	ND	ug/l	2000				
Vinyl acetate	ND	ug/l	2000				
4-Methyl-2-pentanone	ND	ug/l	2000				
2-Hexanone	ND	ug/l	2000				
Ethyl methacrylate	ND	ug/l	2000				
Acrolein	ND	ug/l	5000				
Acrylonitrile	ND	ug/l	2000				
Bromochloromethane	ND	ug/l	1000				
Tetrahydrofuran	ND	ug/l	4000				
2,2-Dichloropropane	ND	ug/l	1000				
1,2-Dibromoethane	ND	ug/l	1000				
1,3-Dichloropropane	ND	ug/l	1000				
1,1,1,2-Tetrachloroethane	ND	ug/l	200				
Bromobenzene	ND	ug/l	1000				
n-Butylbenzene	ND	ug/l	200				
sec-Butylbenzene	ND	ug/l	200				
tert-Butylbenzene	ND	ug/l	1000				
o-Chlorotoluene	ND	ug/l	1000				
p-Chlorotoluene	ND	ug/l	1000				
1,2-Dibromo-3-chloropropane	ND	ug/l	1000				
Hexachlorobutadiene	ND	ug/l	1000				
Isopropylbenzene	ND	ug/l	200				
p-Isopropyltoluene	ND	ug/l	200				
Naphthalene	1300	ug/l	1000				
n-Propylbenzene	ND	ug/l	200				
1,2,3-Trichlorobenzene	ND	ug/l	1000				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204503-04
DUP-B

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		0514 13:33	BT
1,2,4-Trichlorobenzene	ND	ug/l	1000					
1,3,5-Trimethylbenzene	ND	ug/l	1000					
1,2,4-Trimethylbenzene	ND	ug/l	1000					
trans-1,4-Dichloro-2-butene	ND	ug/l	1000					
Ethyl ether	ND	ug/l	1000					
Surrogate Recovery								
1,2-Dichloroethane-d4	104.	%						
Toluene-d8	97.0	%						
4-Bromofluorobenzene	105.	%						
Dibromofluoromethane	97.0	%						
SVOC's by GC/MS 8270				1	8270C	0509 09:45	0511 16:45	HL
Acenaphthene	ND	ug/l	25.					
Benzidine	ND	ug/l	250					
1,2,4-Trichlorobenzene	ND	ug/l	25.					
Hexachlorobenzene	ND	ug/l	25.					
Bis(2-chloroethyl)ether	ND	ug/l	25.					
1-Chloronaphthalene	ND	ug/l	25.					
2-Chloronaphthalene	ND	ug/l	30.					
1,2-Dichlorobenzene	ND	ug/l	25.					
1,3-Dichlorobenzene	ND	ug/l	25.					
1,4-Dichlorobenzene	ND	ug/l	25.					
3,3'-Dichlorobenzidine	ND	ug/l	250					
2,4-Dinitrotoluene	ND	ug/l	30.					
2,6-Dinitrotoluene	ND	ug/l	25.					
Azobenzene	ND	ug/l	25.					
Fluoranthene	ND	ug/l	25.					
4-Chlorophenyl phenyl ether	ND	ug/l	25.					
4-Bromophenyl phenyl ether	ND	ug/l	25.					
Bis(2-chloroisopropyl)ether	ND	ug/l	25.					
Bis(2-chloroethoxy)methane	ND	ug/l	25.					
Hexachlorobutadiene	ND	ug/l	50.					
Hexachlorocyclopentadiene	ND	ug/l	50.					
Hexachloroethane	ND	ug/l	25.					
Isophorone	ND	ug/l	25.					
Naphthalene	370	ug/l	25.					
Nitrobenzene	ND	ug/l	25.					
NDPA/DPA	ND	ug/l	75.					
n-Nitrosodi-n-propylamine	ND	ug/l	25.					
Bis(2-ethylhexyl)phthalate	ND	ug/l	50.					
Butyl benzyl phthalate	ND	ug/l	25.					
Di-n-butylphthalate	ND	ug/l	25.					
Di-n-octylphthalate	ND	ug/l	25.					
Diethyl phthalate	ND	ug/l	25.					
Dimethyl phthalate	ND	ug/l	25.					
Benzo(a)anthracene	ND	ug/l	25.					
Benzo(a)pyrene	ND	ug/l	25.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204503-04
DUP-B

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1	8270C	0509 09:45	0511 16:45	HL
Benzo(b)fluoranthene	ND	ug/l	25.					
Benzo(k)fluoranthene	ND	ug/l	25.					
Chrysene	ND	ug/l	25.					
Acenaphthylene	ND	ug/l	25.					
Anthracene	ND	ug/l	25.					
Benzo(ghi)perylene	ND	ug/l	25.					
Fluorene	ND	ug/l	25.					
Phenanthrene	ND	ug/l	25.					
Dibenzo(a,h)anthracene	ND	ug/l	25.					
Indeno(1,2,3-cd)pyrene	ND	ug/l	35.					
Pyrene	ND	ug/l	25.					
Benzo(e)pyrene	ND	ug/l	25.					
Biphenyl	ND	ug/l	25.					
Perylene	ND	ug/l	25.					
Aniline	ND	ug/l	50.					
4-Chloroaniline	ND	ug/l	25.					
1-Methylnaphthalene	49.	ug/l	25.					
2-Nitroaniline	ND	ug/l	25.					
3-Nitroaniline	ND	ug/l	25.					
4-Nitroaniline	ND	ug/l	35.					
Dibenzofuran	ND	ug/l	25.					
a,a-Dimethylphenethylamine	ND	ug/l	250					
Hexachloropropene	ND	ug/l	250					
Nitrosodi-n-butylamine	ND	ug/l	50.					
2-Methylnaphthalene	ND	ug/l	40.					
1,2,4,5-Tetrachlorobenzene	ND	ug/l	100					
Pentachlorobenzene	ND	ug/l	100					
a-Naphthylamine	ND	ug/l	100					
b-Naphthylamine	ND	ug/l	100					
Phenacetin	ND	ug/l	50.					
Dimethoate	ND	ug/l	100					
4-Aminobiphenyl	ND	ug/l	50.					
Pentachloronitrobenzene	ND	ug/l	50.					
Isodrin	ND	ug/l	50.					
p-Dimethylaminoazobenzene	ND	ug/l	50.					
Chlorobenzilate	ND	ug/l	100					
3-Methylcholanthrene	ND	ug/l	100					
Ethyl Methanesulfonate	ND	ug/l	75.					
Acetophenone	ND	ug/l	100					
Nitrosodipiperidine	ND	ug/l	100					
7,12-Dimethylbenz(a)anthracene	ND	ug/l	50.					
n-Nitrosodimethylamine	ND	ug/l	250					
2,4,6-Trichlorophenol	ND	ug/l	25.					
p-Chloro-m-cresol	ND	ug/l	25.					
2-Chlorophenol	ND	ug/l	30.					
2,4-Dichlorophenol	ND	ug/l	50.					
2,4-Dimethylphenol	ND	ug/l	50.					
2-Nitrophenol	ND	ug/l	100					
4-Nitrophenol	ND	ug/l	50.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204503-04
DUP-B

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1 8270C	0509 09:45	0511 16:45	HL
2,4-Dinitrophenol	ND	ug/l	100				
4,6-Dinitro-o-cresol	ND	ug/l	100				
Pentachlorophenol	ND	ug/l	100				
Phenol	ND	ug/l	35.				
2-Methylphenol	ND	ug/l	30.				
3-Methylphenol/4-Methylphenol	ND	ug/l	30.				
2,4,5-Trichlorophenol	ND	ug/l	25.				
2,6-Dichlorophenol	ND	ug/l	50.				
Benzoic Acid	ND	ug/l	250				
Benzyl Alcohol	ND	ug/l	50.				
Carbazole	ND	ug/l	25.				
Pyridine	ND	ug/l	250				
2-Picoline	ND	ug/l	100				
Pronamide	ND	ug/l	100				
Methyl methanesulfonate	ND	ug/l	100				
Surrogate Recovery							
2-Fluorophenol	60.0	%					
Phenol-d6	40.0	%					
Nitrobenzene-d5	90.0	%					
2-Fluorobiphenyl	96.0	%					
2,4,6-Tribromophenol	97.0	%					
4-Terphenyl-d14	95.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0204503

Parameter	Value 1	Value 2	RPD	Units
Cyanide, Total for sample(s) 01-04 (L0204503-02, WG112747)				
Cyanide, Total	0.099	0.105	6	mg/l
Cyanide, Physiologically Available for sample(s) 01-04 (L0204424-01, WG112444)				
Cyanide, Physiologically Available	0.128	0.122	5	mg/l
Fluoride for sample(s) 01 (L0204504-01, WG112687)				
Fluoride	ND	ND	NC	mg/l
Total Metals for sample(s) 01-04 (L0204475-02, WG112852)				
Arsenic, Total	ND	ND	NC	mg/l
Barium, Total	ND	ND	NC	mg/l
Cadmium, Total	ND	ND	NC	mg/l
Chromium, Total	ND	ND	NC	mg/l
Lead, Total	ND	ND	NC	mg/l
Total Metals for sample(s) 01-04 (L0204513-10, WG112808)				
Mercury, Total	ND	ND	NC	mg/l

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0204503

Parameter	% Recovery
Cyanide, Total LCS for sample(s) 01-04 (WG112747)	
Cyanide, Total	95
Cyanide, Physiologically Available LCS for sample(s) 01-04 (WG112444)	
Cyanide, Physiologically Available	102
Fluoride LCS for sample(s) 01 (WG112687)	
Fluoride	84
Total Metals LCS for sample(s) 01-04 (WG112852)	
Arsenic, Total	105
Barium, Total	105
Cadmium, Total	114
Chromium, Total	105
Lead, Total	109
Selenium, Total	106
Silver, Total	107
Total Metals LCS for sample(s) 01-04 (WG112808)	
Mercury, Total	117
Volatile Organics by GC/MS 8260 LCS for sample(s) 03-04 (WG113025)	
Chlorobenzene	102
Benzene	106
Toluene	99
1,1-Dichloroethene	107
Trichloroethene	112
Surrogate Recovery	
1,2-Dichloroethane-d4	102
Toluene-d8	97
4-Bromofluorobenzene	95
Dibromofluoromethane	100
Volatile Organics by GC/MS 8260 LCS for sample(s) 01-02 (WG112096)	
Chlorobenzene	95
Benzene	101
Toluene	99
1,1-Dichloroethene	91
Trichloroethene	99
Surrogate Recovery	
1,2-Dichloroethane-d4	98
Toluene-d8	104
4-Bromofluorobenzene	89
Dibromofluoromethane	101

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0204503

Continued

Parameter	% Recovery
SVOC's by GC/MS 8270 LCS for sample(s) 01-04 (WG112502)	
Acenaphthene	74
1,2,4-Trichlorobenzene	69
2-Chloronaphthalene	67
1,2-Dichlorobenzene	62
1,4-Dichlorobenzene	60
2,4-Dinitrotoluene	96
2,6-Dinitrotoluene	89
Fluoranthene	99
4-Chlorophenyl phenyl ether	80
n-Nitrosodi-n-propylamine	56
Butyl benzyl phthalate	91
Anthracene	86
Pyrene	99
Hexachloropropene	38
P-Chloro-M-Cresol	74
2-Chlorophenol	64
2-Nitrophenol	76
4-Nitrophenol	32
2,4-Dinitrophenol	100
Pentachlorophenol	89
Phenol	20
Surrogate Recovery	
2-Fluorophenol	24
Phenol-d6	19
Nitrobenzene-d5	63
2-Fluorobiphenyl	78
2,4,6-Tribromophenol	89
4-Terphenyl-d14	91
Cyanide, Total SPIKE for sample(s) 01-04 (L0204504-02, WG112747)	
Cyanide, Total	103
Fluoride SPIKE for sample(s) 01 (L0204503-01, WG112687)	
Fluoride	92
Total Metals SPIKE for sample(s) 01-04 (L0204475-02, WG112852)	
Arsenic, Total	98
Barium, Total	105
Cadmium, Total	114
Chromium, Total	100
Lead, Total	104
Selenium, Total	98
Silver, Total	102

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0204503

Continued

Parameter	% Recovery
Total Metals SPIKE for sample(s) 01-04 (L0204513-11, WG112808)	
Mercury, Total	118

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0204503

Parameter	MS %	MSD %	RPD
Volatile Organics by GC/MS 8260 for sample(s) 01-02 (L0204239-02, WG112096)			
Chlorobenzene	96	103	7
Benzene	101	105	4
Toluene	101	108	7
1,1-Dichloroethene	97	100	3
Trichloroethene	100	106	6
Volatile Organics by GC/MS 8260 for sample(s) 03-04 (L0204619-01, WG113025)			
Chlorobenzene	95	96	1
Benzene	96	95	0
Toluene	94	93	1
1,1-Dichloroethene	96	97	1
Trichloroethene	102	103	1
SVOC's by GC/MS 8270 for sample(s) 01-04 (LC204517-01, WG112502)			
Acenaphthene	78	83	6
1,2,4-Trichlorobenzene	64	74	14
2-Chloronaphthalene	69	74	7
1,2-Dichlorobenzene	59	59	0
1,4-Dichlorobenzene	59	59	0
2,4-Dinitrotoluene	98	110	12
2,6-Dinitrotoluene	93	98	5
Fluoranthene	98	98	0
4-Chlorophenyl phenyl ether	83	88	6
n-Nitrosodi-n-propylamine	59	54	9
Butyl benzyl phthalate	88	88	0
Anthracene	88	83	6
Pyrene	98	98	0
Hexachloropropene	43	49	13
P-Chloro-M-Cresol	74	81	9
2-Chlorophenol	66	69	4
2-Nitrophenol	74	71	4
4-Nitrophenol	76	81	6
2,4-Dinitrophenol	110	120	9
Pentachlorophenol	100	93	7
Phenol	47	47	0

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0204503

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-04								
Cyanide, Total	ND	mg/l	0.005	1	9010B	0513 11:00	0513 15:21	ED
Blank Analysis for sample(s) 01-04								
Cyanide, Physiologically Available	ND	mg/l	0.005	45		0508 17:00	0509 13:26	ED
Blank Analysis for sample(s) 01								
Fluoride	ND	mg/l	0.20	30	4500F-BC	0510 11:20	0513 16:30	MA
Blank Analysis for sample(s) 01-04								
Total Metals				1	3015			
Arsenic, Total	ND	mg/l	0.005	1	6010B	0509 11:40	0514 10:55	MG
Barium, Total	ND	mg/l	0.01	1	6010B	0509 11:40	0514 10:55	MG
Cadmium, Total	ND	mg/l	0.005	1	6010B	0509 11:40	0514 10:55	MG
Chromium, Total	ND	mg/l	0.01	1	6010B	0509 11:40	0514 10:55	MG
Lead, Total	ND	mg/l	0.050	1	6010B	0509 11:40	0514 10:55	MG
Selenium, Total	ND	mg/l	0.005	1	6010B	0509 11:40	0514 10:55	MG
Silver, Total	ND	mg/l	0.007	1	6010B	0509 11:40	0514 10:55	MG
Blank Analysis for sample(s) 01-04								
Total Metals								
Mercury, Total	ND	mg/l	0.0004	1	7470A	0513 17:45	0514 10:23	DM
Blank Analysis for sample(s) 01-02								
Volatile Organics by GC/MS 8260				1	8260B		0509 14:57	BT
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	0.50					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0204503

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-02							
Volatile Organics by GC/MS 8260 continued				1 8260B		0509 14:57	BT
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.75				
Ethylbenzene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.5				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	2.5				
Isopropylbenzene	ND	ug/l	0.50				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0204503

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-02							
Volatile Organics by GC/MS 8260 continued				1 8260B		0509 14:57	BT
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Surrogate Recovery							
1,2-Dichloroethane-d4	105.	%					
Toluene-d8	102.	%					
4-Bromofluorobenzene	96.0	%					
Dibromofluoromethane	103.	%					
Blank Analysis for sample(s) 03-04							
Volatile Organics by GC/MS 8260				1 8260B		0514 10:13	BT
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	ND	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	2.5				
Bromoform	ND	ug/l	0.50				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.75				
Ethylbenzene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0204503

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 03-04							
Volatile Organics by GC/MS 8260 continued				1 8260B		0514 10:13	BT
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.5				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	2.5				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0204503

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 03-04								
Volatile Organics by GC/MS 8260 continued				1	8260B		0514 10:13	BT
Surrogate Recovery								
1,2-Dichloroethane-d4	108.	%						
Toluene-d8	97.0	%						
4-Bromofluorobenzene	105.	%						
Dibromofluoromethane	101.	%						
Blank Analysis for sample(s) 01-04								
SVOC's by GC/MS 8270				1	8270C	0509 09:45	0511 11:10	HL
Acenaphthene	ND	ug/l	5.0					
Benzidine	ND	ug/l	50.					
1,2,4-Trichlorobenzene	ND	ug/l	5.0					
Hexachlorobenzene	ND	ug/l	5.0					
Bis(2-chloroethyl)ether	ND	ug/l	5.0					
1-Chloronaphthalene	ND	ug/l	5.0					
2-Chloronaphthalene	ND	ug/l	6.0					
1,2-Dichlorobenzene	ND	ug/l	5.0					
1,3-Dichlorobenzene	ND	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	5.0					
3,3'-Dichlorobenzidine	ND	ug/l	50.					
2,4-Dinitrotoluene	ND	ug/l	6.0					
2,6-Dinitrotoluene	ND	ug/l	5.0					
Azobenzene	ND	ug/l	5.0					
Fluoranthene	ND	ug/l	5.0					
4-Chlorophenyl phenyl ether	ND	ug/l	5.0					
4-Bromophenyl phenyl ether	ND	ug/l	5.0					
Bis(2-chloroisopropyl)ether	ND	ug/l	5.0					
Bis(2-chloroethoxy)methane	ND	ug/l	5.0					
Hexachlorobutadiene	ND	ug/l	10.					
Hexachlorocyclopentadiene	ND	ug/l	10.					
Hexachloroethane	ND	ug/l	5.0					
Isophorone	ND	ug/l	5.0					
Naphthalene	ND	ug/l	5.0					
Nitrobenzene	ND	ug/l	5.0					
NDPA/DPA	ND	ug/l	15.					
n-Nitrosodi-n-propylamine	ND	ug/l	5.0					
Bis(2-ethylhexyl)phthalate	ND	ug/l	10.					
Butyl benzyl phthalate	ND	ug/l	5.0					
Di-n-butylphthalate	ND	ug/l	5.0					
Di-n-octylphthalate	ND	ug/l	5.0					
Diethyl phthalate	ND	ug/l	5.0					
Dimethyl phthalate	ND	ug/l	5.0					
Benzo(a)anthracene	ND	ug/l	5.0					
Benzo(a)pyrene	ND	ug/l	5.0					
Benzo(b)fluoranthene	ND	ug/l	5.0					
Benzo(k)fluoranthene	ND	ug/l	5.0					
Chrysene	ND	ug/l	5.0					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0204503

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-04							
SVOC's by GC/MS 8270 continued				1 8270C	0509 09:45	0511 11:10	HL
Acenaphthylene	ND	ug/l	5.0				
Anthracene	ND	ug/l	5.0				
Benzo(ghi)perylene	ND	ug/l	5.0				
Fluorene	ND	ug/l	5.0				
Phenanthrene	ND	ug/l	5.0				
Dibenzo(a,h)anthracene	ND	ug/l	5.0				
Indeno(1,2,3-cd)pyrene	ND	ug/l	7.0				
Pyrene	ND	ug/l	5.0				
Benzo(e)pyrene	ND	ug/l	5.0				
Biphenyl	ND	ug/l	5.0				
Perylene	ND	ug/l	5.0				
Aniline	ND	ug/l	10.				
4-Chloroaniline	ND	ug/l	5.0				
1-Methylnaphthalene	ND	ug/l	5.0				
2-Nitroaniline	ND	ug/l	5.0				
3-Nitroaniline	ND	ug/l	5.0				
4-Nitroaniline	ND	ug/l	7.0				
Dibenzofuran	ND	ug/l	5.0				
a,a-Dimethylphenethylamine	ND	ug/l	50.				
Hexachloropropene	ND	ug/l	50.				
Nitrosodi-n-butylamine	ND	ug/l	10.				
2-Methylnaphthalene	ND	ug/l	8.0				
1,2,4,5-Tetrachlorobenzene	ND	ug/l	20.				
Pentachlorobenzene	ND	ug/l	20.				
a-Naphthylamine	ND	ug/l	20.				
b-Naphthylamine	ND	ug/l	20.				
Phenacetin	ND	ug/l	10.				
Dimethoate	ND	ug/l	20.				
4-Aminobiphenyl	ND	ug/l	10.				
Pentachloronitrobenzene	ND	ug/l	10.				
Isodrin	ND	ug/l	10.				
p-Dimethylaminoazobenzene	ND	ug/l	10.				
Chlorobenzilate	ND	ug/l	20.				
3-Methylcholanthrene	ND	ug/l	20.				
Ethyl Methanesulfonate	ND	ug/l	15.				
Acetophenone	ND	ug/l	20.				
Nitrosodipiperidine	ND	ug/l	20.				
7,12-Dimethylbenz(a)anthracene	ND	ug/l	10.				
n-Nitrosodimethylamine	ND	ug/l	50.				
2,4,6-Trichlorophenol	ND	ug/l	5.0				
p-Chloro-m-cresol	ND	ug/l	5.0				
2-Chlorophenol	ND	ug/l	6.0				
2,4-Dichlorophenol	ND	ug/l	10.				
2,4-Dimethylphenol	ND	ug/l	10.				
2-Nitrophenol	ND	ug/l	20.				
4-Nitrophenol	ND	ug/l	10.				
2,4-Dinitrophenol	ND	ug/l	20.				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0204503

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-04							
SVOC's by GC/MS 8270 continued				1 8270C	0509 09:45	0511 11:10	HL
4,6-Dinitro-o-cresol	ND	ug/l	20.				
Pentachlorophenol	ND	ug/l	20.				
Phenol	ND	ug/l	7.0				
2-Methylphenol	ND	ug/l	6.0				
3-Methylphenol/4-Methylphenol	ND	ug/l	6.0				
2,4,5-Trichlorophenol	ND	ug/l	5.0				
2,6-Dichlorophenol	ND	ug/l	10.				
Benzoic Acid	ND	ug/l	50.				
Benzyl Alcohol	ND	ug/l	10.				
Carbazole	ND	ug/l	5.0				
Pyridine	ND	ug/l	50.				
2-Picoline	ND	ug/l	20.				
Pronamide	ND	ug/l	20.				
Methyl methanesulfonate	ND	ug/l	20.				
Surrogate Recovery							
2-Fluorophenol	23.0	%					
Phenol-d6	17.0	%					
Nitrobenzene-d5	72.0	%					
2-Fluorobiphenyl	85.0	%					
2,4,6-Tribromophenol	93.0	%					
4-Terphenyl-d14	95.0	%					

REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Update III, 1997.

30. Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

45. Physiologically Available Cyanide (PAC), January 1996 Protocol, Mass DEP 1996.

GLOSSARY OF TERMS AND SYMBOLS

REF Reference number in which test method may be found.
METHOD Method number by which analysis was performed.
ID Initials of the analyst.

Please note that all solid samples are reported on dry weight basis unless noted otherwise

LIMITATION OF LIABILITIES

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.

Quality Control Acceptance Criteria

Volatile Organics by Method 8260B

surrogate spike % recovery	AQ Limits		Soil Limits	
	LCL	UCL	LCL	UCL
1,2-Dichloroethane-d_4	75%	125%	75%	125%
4-Bromofluorobenzene	75%	125%	75%	125%
Toluene-d_8	75%	125%	75%	125%
Dibromofluoromethane	75%	125%	75%	125%

matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	percent recovery				duplicate and/or MSD	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
1,1-Dichloroethene	61%	145%	59%	172%	all target compounds	
Trichloroethene	71%	120%	62%	137%	20%	30%
Chlorobenzene	75%	130%	60%	133%		
Benzene	76%	127%	66%	142%		
Toluene	76%	125%	59%	139%		

Volatile Organics by Method 8021B

surrogate spike % recovery	AQ Limits		Soil Limits	
	LCL	UCL	LCL	UCL
4-Bromochlorobenzene	70%	110%	70%	120%
4-Bromofluorobenzene	70%	110%	70%	120%

matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	percent recovery				duplicate and/or MSD	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
1,1-Dichloroethene	70%	130%	70%	130%	all target compounds	
Trichloroethene	70%	130%	70%	130%	20%	30%
Chlorobenzene	70%	130%	70%	130%		
Benzene	70%	130%	70%	130%		
Toluene	70%	130%	70%	130%		
Ethylbenzene	70%	130%	70%	130%		

Semi-Volatile Organics by Method 8270C (includes PAHs)

surrogate spike % recovery	AQ Limits		Soil Limits	
	LCL	UCL	LCL	UCL
Nitrobenzene-d_5	23%	120%	23%	120%
Phenol-d_6	10%	120%	10%	120%
2-Fluorophenol	21%	120%	25%	120%
2-Fluorobiphenyl	43%	120%	30%	120%
p-Terphenyl-d_{14}	33%	120%	18%	120%
2,4,6-Tribromophenol	10%	120%	19%	120%

matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	percent recovery				duplicate and/or MSD	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
1,2,4-Trichlorobenzene	39%	98%	38%	107%	all target compounds	
Acenaphthene	46%	118%	31%	137%	40%	50%
2,4-Dinitrotoluene	24%	96%	28%	89%		
Pyrene	26%	127%	35%	142%		
N-Nitroso-di-n-propylamine	41%	116%	41%	126%		
1,4-Dichlorobenzene	36%	97%	28%	104%		
Pentachlorophenol	9%	103%	17%	109%		
Phenol	12%	110%	26%	90%		
2-Chlorophenol	27%	123%	25%	102%		
4-Chloro-3-methylphenol	23%	97%	26%	103%		
4-Nitrophenol	10%	80%	11%	114%		

Quality Control Acceptance Criteria

PCB/Pesticides by Method 8082/8081

surrogate spike % recovery	AQ Limits		Soil Limits	
	LCL	UCL	LCL	UCL
2,4,5,6-Tetrachloro-m-xylene	40%	120%	40%	120%
Decachlorobiphenyl	40%	120%	40%	120%

matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	percent recovery				duplicate and/or MSD	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
Lindane	56%	123%	46%	127%	all target compounds	
Heptachlor	40%	131%	35%	130%	30%	50%
Aldrin	40%	120%	34%	132%		
Dieldrin	52%	126%	31%	134%		
Endrin	56%	121%	42%	139%		
4,4'-DDT	38%	127%	23%	134%		
Aroclor 1242/1016	40%	140%	40%	140%		
Aroclor 1260	40%	140%	40%	140%		

Volatile Petroleum Hydrocarbons (VPH) by MA DEP 98-1

surrogate spike % recovery	AQ Limits		Soil Limits	
	LCL	UCL	LCL	UCL
2,5-Dibromotoluene	70%	130%	70%	130%

laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
all compounds	70%	130%	70%	130%	50%	50%

Extractable Petroleum Hydrocarbons (EPH) by MA DEP 98-1

surrogate spike % recovery	AQ Limits		Soil Limits	
	LCL	UCL	LCL	UCL
Chloro-octadecane	40%	140%	40%	140%
ortho-Terphenyl	40%	140%	40%	140%
2-Fluorobiphenyl (fractionation)	40%	140%	40%	140%
2-Bromonaphthalene (fractionation)	40%	140%	40%	140%

laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
all compounds	40%	140%	40%	140%	50%	50%

TPH (GC-FID) by Method 8100M

surrogate spike % recovery	AQ Limits		Soil Limits		duplicate	
					AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
ortho-Terphenyl	40%	140%	40%	140%	40%	40%

TPH by Method 418.1

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
TPH	60%	140%	60%	140%	40%	40%

Quality Control Acceptance Criteria

Trace Metals by Method 6010B/7000 series

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
target analyte	75%	125%	70%	140%	20%	35%

Mercury by Method 7470A/7471A

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
mercury	70%	130%	60%	140%	35%	45%

Total Cyanide by Method 9010B

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
cyanide	80%	120%	65%	135%	30%	40%

Total Phenol by Method 9065

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
phenol	70%	130%	65%	135%	20%	30%

HALEY & ALDRICH
Haley & Aldrich, Inc.
465 Medford St.,
Suite 2200,
Boston, MA 02129-1400

CHAIN OF CUSTODY RECORD

Phone (617) 886-7400
Fax (617) 886-7600

H&A FILE NO. 65558-631
PROJECT NAME Malden MGP
H&A CONTACT SRP

LABORATORY Alpha
ADDRESS Westboro, MA
CONTACT Pete H.

DELIVERY DATE 5/8/02
TURNAROUND TIME Standard
PROJECT MANAGER Bdw

Sample No.	Date	Time	Depth	Type	1 VOA	2 ABN/ PAH only	3 Metals RCRA (8) + ZN (1)	4 Pesticides PCBs	5 VPH Full Suite C ranges only	6 EPH Full Suite C ranges only	7 TPH (specify)	8 TCLP (specify)	9 Reactivity Ignitability Corrosivity	10	11	12	Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)
97B-B627-01W	5-7-02	11:40		Water	X	X	X							X	X	X	8	1 Voc 8260
97B-B618-01W	5-7-02	14:00		Water	X	X	X							X	X		7	2 ABN 8270
NC-3	5-7-02	16:50		Water	X	X	X							X	X		7	3 TRCRA 8
DUP-B	5-7-02	17:00		Water	X	X	X							X	X		7	4 PAC - if TCN Detected
																		5 TCN
																		6 Fluoride

Sampled and Relinquished by
Sign [signature]
Print Sean M. Carroll
Firm H&A
Date 5/7/02 Time 1820

Received by
Sign [signature]
Print [signature]
Firm H&A
Date 5/7/02 Time 12:20

Relinquished by
Sign [signature]
Print [signature]
Firm H&A
Date 5/8/02 Time 12:20

Received by
Sign [signature]
Print [signature]
Firm [illegible]
Date [illegible] Time [illegible]

Relinquished by
Sign [signature]
Print
Firm
Date Time

Received by
Sign [signature]
Print
Firm
Date 5/8 Time 1460

	1	2	3	4	5	6	7	8	9	10	11	12	
LIQUID													
VOA Vial	–												
Amber Glass		–											
Plastic Bottle			–								–	–	–
Preservative	A F	A	A B D								A	A C	A
Volume	40	1000	500								250	250	500
SOLID													
VOA Vial													
Amber Glass													
Clear Glass													
Preservative													
Volume													

Sampling Comments

Evidence samples were tampered with? YES NO
If YES, please explain in section below.

PRESERVATION KEY

A Sample chilled
B Sample filtered
C NaOH
D HNO_3
E H_2SO_4
F HCl
G Methanol
H Sodium Bisulfate

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220 www.alphalab.com

RECEIVED

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

Client: Haley & Aldrich, Inc.

Address: 465 Medford Street, Suite 2200
Boston, MA 02129-1400

Attn: Mr. Steve Provencal

Project Number: 06558-631

Site: MALDEN MGP

Laboratory Job Number: L0204593

Invoice Number: 63499

Date Received: 09-MAY-02

Date Reported: 16-MAY-02

Delivery Method: Alpha

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0204593-01	NC-2	
L0204593-02	97B-617-OW	
L0204593-03	TRIP BLANK #1	ALPHA
L0204593-04	TRIP BLANK #2	ALPHA

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by: Scott McLean

Scott McLean - Technical Director
This document electronically signed

ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT

Laboratory Job Number: L0204593

Alpha Report L0204593:

Total Metals

It should be noted that the matrix spike percent recovery for the analysis of Mercury associated with Alpha Samples L0204593-01 and -02 is outside the in-house acceptance criteria for the method. A post analytical spike was performed with an acceptable recovery of 118%.

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0204593-01
NC-2
Sample Matrix: WATER

Date Collected: 08-MAY-2002 12:25
Date Received : 09-MAY-2002
Date Reported : 16-MAY-2002

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,4-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Cyanide, Total	0.025	mg/l	0.005	1	9010B	0514 15:00	0515 10:46	ED
Cyanide, Physiologically Available	0.009	mg/l	0.005	45		0510 17:00	0513 15:11	ED
Total Metals				1	3015			
Arsenic, Total	ND	mg/l	0.010	1	6010B	0510 09:00	0514 03:56	MG
Barium, Total	0.02	mg/l	0.01	1	6010B	0510 09:00	0514 03:56	MG
Cadmium, Total	ND	mg/l	0.005	1	6010B	0510 09:00	0514 03:56	MG
Chromium, Total	ND	mg/l	0.01	1	6010B	0510 09:00	0514 03:56	MG
Lead, Total	ND	mg/l	0.010	1	6010B	0510 09:00	0514 03:56	MG
Mercury, Total	ND	mg/l	0.0005	1	7470A	0514 18:45	0515 11:10	DM
Selenium, Total	ND	mg/l	0.020	1	6010B	0510 09:00	0514 03:56	MG
Silver, Total	ND	mg/l	0.007	1	6010B	0510 09:00	0514 03:56	MG
Volatile Organics by GC/MS 8260				1	8260B		0511 19:42	BT
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	0.50					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	27.	ug/l	0.50					
Toluene	ND	ug/l	0.75					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204593-01
NC-2

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1 8260B		0511 19:42	BT
Ethylbenzene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.5				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	1.8	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	2.5				
Isopropylbenzene	1.1	ug/l	0.50				
p-Isopropyltoluene	1.0	ug/l	0.50				
Naphthalene	2.8	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204593-01
NC-2

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		0511 19:42	BT
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					
Surrogate Recovery								
1,2-Dichloroethane-d4	98.0	%						
Toluene-d8	99.0	%						
4-Bromofluorobenzene	106.	%						
Dibromofluoromethane	96.0	%						
SVOC's by GC/MS 8270				1	8270C	0510 13:00	0514 19:36	HL
Acenaphthene	ND	ug/l	5.0					
Benzidine	ND	ug/l	50.					
1,2,4-Trichlorobenzene	ND	ug/l	5.0					
Hexachlorobenzene	ND	ug/l	5.0					
Bis(2-chloroethyl)ether	ND	ug/l	5.0					
1-Chloronaphthalene	ND	ug/l	5.0					
2-Chloronaphthalene	ND	ug/l	6.0					
1,2-Dichlorobenzene	ND	ug/l	5.0					
1,3-Dichlorobenzene	ND	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	5.0					
3,3'-Dichlorobenzidine	ND	ug/l	50.					
2,4-Dinitrotoluene	ND	ug/l	6.0					
2,6-Dinitrotoluene	ND	ug/l	5.0					
Azobenzene	ND	ug/l	5.0					
Fluoranthene	ND	ug/l	5.0					
4-Chlorophenyl phenyl ether	ND	ug/l	5.0					
4-Bromophenyl phenyl ether	ND	ug/l	5.0					
Bis(2-chloroisopropyl)ether	ND	ug/l	5.0					
Bis(2-chloroethoxy)methane	ND	ug/l	5.0					
Hexachlorobutadiene	ND	ug/l	10.					
Hexachlorocyclopentadiene	ND	ug/l	10.					
Hexachloroethane	ND	ug/l	5.0					
Isophorone	ND	ug/l	5.0					
Naphthalene	ND	ug/l	5.0					
Nitrobenzene	ND	ug/l	5.0					
NDPA/DPA	ND	ug/l	15.					
n-Nitrosodi-n-propylamine	ND	ug/l	5.0					
Bis(2-ethylhexyl)phthalate	ND	ug/l	10.					
Butyl benzyl phthalate	ND	ug/l	5.0					
Di-n-butylphthalate	ND	ug/l	5.0					
Di-n-octylphthalate	ND	ug/l	5.0					
Diethyl phthalate	ND	ug/l	5.0					
Dimethyl phthalate	ND	ug/l	5.0					
Benzo(a)anthracene	ND	ug/l	5.0					
Benzo(a)pyrene	ND	ug/l	5.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204593-01
NC-2

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1	8270C	0510 13:00	0514 19:36	ML
Benzo(b)fluoranthene	ND	ug/l	5.0					
Benzo(k)fluoranthene	ND	ug/l	5.0					
Chrysene	ND	ug/l	5.0					
Acenaphthylene	ND	ug/l	5.0					
Anthracene	ND	ug/l	5.0					
Benzo(ghi)perylene	ND	ug/l	5.0					
Fluorene	ND	ug/l	5.0					
Phenanthrene	ND	ug/l	5.0					
Dibenzo(a,h)anthracene	ND	ug/l	5.0					
Indeno(1,2,3-cd)pyrene	ND	ug/l	7.0					
Pyrene	ND	ug/l	5.0					
Benzo(e)pyrene	ND	ug/l	5.0					
Biphenyl	ND	ug/l	5.0					
Perylene	ND	ug/l	5.0					
Aniline	ND	ug/l	10.					
4-Chloroaniline	ND	ug/l	5.0					
1-Methylnaphthalene	ND	ug/l	5.0					
2-Nitroaniline	ND	ug/l	5.0					
3-Nitroaniline	ND	ug/l	5.0					
4-Nitroaniline	ND	ug/l	7.0					
Dibenzofuran	ND	ug/l	5.0					
a,a-Dimethylphenethylamine	ND	ug/l	50.					
Hexachloropropene	ND	ug/l	50.					
Nitrosodi-n-butylamine	ND	ug/l	10.					
2-Methylnaphthalene	ND	ug/l	8.0					
1,2,4,5-Tetrachlorobenzene	ND	ug/l	20.					
Pentachlorobenzene	ND	ug/l	20.					
a-Naphthylamine	ND	ug/l	20.					
b-Naphthylamine	ND	ug/l	20.					
Phenacetin	ND	ug/l	10.					
Dimethoate	ND	ug/l	20.					
4-Aminobiphenyl	ND	ug/l	10.					
Pentachloronitrobenzene	ND	ug/l	10.					
Isodrin	ND	ug/l	10.					
p-Dimethylaminoazobenzene	ND	ug/l	10.					
Chlorobenzilate	ND	ug/l	20.					
3-Methylcholanthrene	ND	ug/l	20.					
Ethyl Methanesulfonate	ND	ug/l	15.					
Acetophenone	ND	ug/l	20.					
Nitrosodipiperidine	ND	ug/l	20.					
7,12-Dimethylbenz(a)anthracene	ND	ug/l	10.					
n-Nitrosodimethylamine	ND	ug/l	50.					
2,4,6-Trichlorophenol	ND	ug/l	5.0					
p-Chloro-m-cresol	ND	ug/l	5.0					
2-Chlorophenol	ND	ug/l	6.0					
2,4-Dichlorophenol	ND	ug/l	10.					
2,4-Dimethylphenol	ND	ug/l	10.					
2-Nitrophenol	ND	ug/l	20.					
4-Nitrophenol	ND	ug/l	10.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204593-01
NC-2

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1	8270C	0510 13:00	0514 19:36	HL
2,4-Dinitrophenol	ND	ug/l	20.					
4,6-Dinitro-o-cresol	ND	ug/l	20.					
Pentachlorophenol	ND	ug/l	20.					
Phenol	ND	ug/l	7.0					
2-Methylphenol	ND	ug/l	6.0					
3-Methylphenol/4-Methylphenol.	ND	ug/l	6.0					
2,4,5-Trichlorophenol	ND	ug/l	5.0					
2,6-Dichlorophenol	ND	ug/l	10.					
Benzoic Acid	ND	ug/l	50.					
Benzyl Alcohol	ND	ug/l	10.					
Carbazole	ND	ug/l	5.0					
Pyridine	ND	ug/l	50.					
2-Picoline	ND	ug/l	20.					
Pronamide	ND	ug/l	20.					
Methyl methanesulfonate	ND	ug/l	20.					
Surrogate Recovery								
2-Fluorophenol	16.0	%						
Phenol-d6	17.0	%						
Nitrobenzene-d5	40.0	%						
2-Fluorobiphenyl	58.0	%						
2,4,6-Tribromophenol	74.0	%						
4-Terphenyl-d14	64.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0204593-02
97B-617-OW
Sample Matrix: WATER

Date Collected: 08-MAY-2002 15:25
Date Received : 09-MAY-2002
Date Reported : 16-MAY-2002

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,4-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Cyanide, Total	0.016	mg/l	0.005	1	9010B	0514 15:00	0515 10:47	ED
Cyanide, Physiologically Available	0.006	mg/l	0.005	45		0510 17:00	0513 15:14	ED
Total Metals				1	3015			
Arsenic, Total	ND	mg/l	0.010	1	6010B	0510 09:00	0514 04:02	MG
Barium, Total	0.04	mg/l	0.01	1	6010B	0510 09:00	0514 04:02	MG
Cadmium, Total	ND	mg/l	0.005	1	6010B	0510 09:00	0514 04:02	MG
Chromium, Total	ND	mg/l	0.01	1	6010B	0510 09:00	0514 04:02	MG
Lead, Total	ND	mg/l	0.010	1	6010B	0510 09:00	0514 04:02	MG
Mercury, Total	ND	mg/l	0.0005	1	7470A	0514 18:45	0515 11:12	DM
Selenium, Total	ND	mg/l	0.020	1	6010B	0510 09:00	0514 04:02	MG
Silver, Total	ND	mg/l	0.007	1	6010B	0510 09:00	0514 04:02	MG
Volatile Organics by GC/MS 8260				1	8260B		0511 21:47	BT
Methylene chloride	ND	ug/l	2500					
1,1-Dichloroethane	ND	ug/l	380					
Chloroform	ND	ug/l	380					
Carbon tetrachloride	ND	ug/l	250					
1,2-Dichloropropane	ND	ug/l	880					
Dibromochloromethane	ND	ug/l	250					
1,1,2-Trichloroethane	ND	ug/l	380					
Tetrachloroethene	ND	ug/l	250					
Chlorobenzene	ND	ug/l	250					
Trichlorofluoromethane	ND	ug/l	1200					
1,2-Dichloroethane	ND	ug/l	250					
1,1,1-Trichloroethane	ND	ug/l	250					
Bromodichloromethane	ND	ug/l	250					
trans-1,3-Dichloropropene	ND	ug/l	250					
cis-1,3-Dichloropropene	ND	ug/l	250					
1,1-Dichloropropene	ND	ug/l	1200					
Bromoform	ND	ug/l	250					
1,1,2,2-Tetrachloroethane	ND	ug/l	250					
Benzene	ND	ug/l	250					
Toluene	33000	ug/l	380					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204593-02
97B-617-OW

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1 8260B		0511 21:47	BT
Ethylbenzene	11000	ug/l	250				
Chloromethane	ND	ug/l	1200				
Bromomethane	ND	ug/l	500				
Vinyl chloride	ND	ug/l	500				
Chloroethane	ND	ug/l	500				
1,1-Dichloroethene	ND	ug/l	250				
trans-1,2-Dichloroethene	ND	ug/l	380				
Trichloroethene	ND	ug/l	250				
1,2-Dichlorobenzene	ND	ug/l	1200				
1,3-Dichlorobenzene	ND	ug/l	1200				
1,4-Dichlorobenzene	ND	ug/l	1200				
Methyl tert butyl ether	ND	ug/l	500				
p/m-Xylene	13000	ug/l	250				
o-Xylene	4500	ug/l	250				
cis-1,2-Dichloroethene	ND	ug/l	250				
Dibromomethane	ND	ug/l	2500				
1,4-Dichlorobutane	ND	ug/l	2500				
Iodomethane	ND	ug/l	2500				
1,2,3-Trichloropropane	ND	ug/l	2500				
Styrene	21000	ug/l	250				
Dichlorodifluoromethane	ND	ug/l	2500				
Acetone	ND	ug/l	2500				
Carbon disulfide	ND	ug/l	2500				
2-Butanone	ND	ug/l	2500				
Vinyl acetate	ND	ug/l	2500				
4-Methyl-2-pentanone	ND	ug/l	2500				
2-Hexanone	ND	ug/l	2500				
Ethyl methacrylate	ND	ug/l	2500				
Acrolein	ND	ug/l	6200				
Acrylonitrile	ND	ug/l	2500				
Bromochloromethane	ND	ug/l	1200				
Tetrahydrofuran	ND	ug/l	5000				
2,2-Dichloropropane	ND	ug/l	1200				
1,2-Dibromoethane	ND	ug/l	1200				
1,3-Dichloropropane	ND	ug/l	1200				
1,1,1,2-Tetrachloroethane	ND	ug/l	250				
Bromobenzene	ND	ug/l	1200				
n-Butylbenzene	ND	ug/l	250				
sec-Butylbenzene	590	ug/l	250				
tert-Butylbenzene	ND	ug/l	1200				
o-Chlorotoluene	ND	ug/l	1200				
p-Chlorotoluene	ND	ug/l	1200				
1,2-Dibromo-3-chloropropane	ND	ug/l	1200				
Hexachlorobutadiene	ND	ug/l	1200				
Isopropylbenzene	ND	ug/l	250				
p-Isopropyltoluene	ND	ug/l	250				
Naphthalene	2600	ug/l	1200				
n-Propylbenzene	ND	ug/l	250				
1,2,3-Trichlorobenzene	ND	ug/l	1200				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204593-02
97B-617-OW

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		0511 21:47	BT
1,2,4-Trichlorobenzene	ND	ug/l	1200					
1,3,5-Trimethylbenzene	ND	ug/l	1200					
1,2,4-Trimethylbenzene	ND	ug/l	1200					
trans-1,4-Dichloro-2-butene	ND	ug/l	1200					
Ethyl ether	ND	ug/l	1200					
Surrogate Recovery								
1,2-Dichloroethane-d4	100.	%						
Toluene-d8	98.0	%						
4-Bromofluorobenzene	102.	%						
Dibromofluoromethane	95.0	%						
SVOC's by GC/MS 8270				1	8270C	0515 15:45	0516 10:08	HL
Acenaphthene	ND	ug/l	100					
Benzidine	ND	ug/l	1000					
1,2,4-Trichlorobenzene	ND	ug/l	100					
Hexachlorobenzene	ND	ug/l	100					
Bis(2-chloroethyl)ether	ND	ug/l	100					
1-Chloronaphthalene	ND	ug/l	100					
2-Chloronaphthalene	ND	ug/l	120					
1,2-Dichlorobenzene	ND	ug/l	100					
1,3-Dichlorobenzene	ND	ug/l	100					
1,4-Dichlorobenzene	ND	ug/l	100					
3,3'-Dichlorobenzidine	ND	ug/l	1000					
2,4-Dinitrotoluene	ND	ug/l	120					
2,6-Dinitrotoluene	ND	ug/l	100					
Azobenzene	ND	ug/l	100					
Fluoranthene	ND	ug/l	100					
4-Chlorophenyl phenyl ether	ND	ug/l	100					
4-Bromophenyl phenyl ether	ND	ug/l	100					
Bis(2-chloroisopropyl)ether	ND	ug/l	100					
Bis(2-chloroethoxy)methane	ND	ug/l	100					
Hexachlorobutadiene	ND	ug/l	200					
Hexachlorocyclopentadiene	ND	ug/l	200					
Hexachloroethane	ND	ug/l	100					
Isophorone	ND	ug/l	100					
Naphthalene	2000	ug/l	100					
Nitrobenzene	ND	ug/l	100					
NDPA/DPA	ND	ug/l	300					
n-Nitrosodi-n-propylamine	ND	ug/l	100					
Bis(2-ethylhexyl)phthalate	ND	ug/l	200					
Butyl benzyl phthalate	ND	ug/l	100					
Di-n-butylphthalate	ND	ug/l	100					
Di-n-octylphthalate	ND	ug/l	100					
Diethyl phthalate	ND	ug/l	100					
Dimethyl phthalate	ND	ug/l	100					
Benzo(a)anthracene	ND	ug/l	100					
Benzo(a)pyrene	ND	ug/l	100					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204593-02
97B-617-OW

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1 8270C	0515 15:45	0516 10:08	NL
Benzo(b)fluoranthene	ND	ug/l	100				
Benzo(k)fluoranthene	ND	ug/l	100				
Chrysene	ND	ug/l	100				
Acenaphthylene	ND	ug/l	100				
Anthracene	ND	ug/l	100				
Benzo(ghi)perylene	ND	ug/l	100				
Fluorene	ND	ug/l	100				
Phenanthrene	ND	ug/l	100				
Dibenzo(a,h)anthracene	ND	ug/l	100				
Indeno(1,2,3-cd)pyrene	ND	ug/l	140				
Pyrene	ND	ug/l	100				
Benzo(e)pyrene	ND	ug/l	100				
Biphenyl	ND	ug/l	100				
Perylene	ND	ug/l	100				
Aniline	ND	ug/l	200				
4-Chloroaniline	ND	ug/l	100				
1-Methylnaphthalene	200	ug/l	100				
2-Nitroaniline	ND	ug/l	100				
3-Nitroaniline	ND	ug/l	100				
4-Nitroaniline	ND	ug/l	140				
Dibenzofuran	ND	ug/l	100				
a,a-Dimethylphenethylamine	ND	ug/l	1000				
Hexachloropropene	ND	ug/l	1000				
Nitrosodi-n-butylamine	ND	ug/l	200				
2-Methylnaphthalene	160	ug/l	160				
1,2,4,5-Tetrachlorobenzene	ND	ug/l	400				
Pentachlorobenzene	ND	ug/l	400				
a-Naphthylamine	ND	ug/l	400				
b-Naphthylamine	ND	ug/l	400				
Phenacetin	ND	ug/l	200				
Dimethoate	ND	ug/l	400				
4-Aminobiphenyl	ND	ug/l	200				
Pentachloronitrobenzene	ND	ug/l	200				
Isodrin	ND	ug/l	200				
p-Dimethylaminoazobenzene	ND	ug/l	200				
Chlorobenzilate	ND	ug/l	400				
3-Methylcholanthrene	ND	ug/l	400				
Ethyl Methanesulfonate	ND	ug/l	300				
Acetophenone	ND	ug/l	400				
Nitrosodipiperidine	ND	ug/l	400				
7,12-Dimethylbenz(a)anthracene	ND	ug/l	200				
n-Nitrosodimethylamine	ND	ug/l	1000				
2,4,6-Trichlorophenol	ND	ug/l	100				
p-Chloro-m-cresol	ND	ug/l	100				
2-Chlorophenol	ND	ug/l	120				
2,4-Dichlorophenol	ND	ug/l	200				
2,4-Dimethylphenol	ND	ug/l	200				
2-Nitrophenol	ND	ug/l	400				
4-Nitrophenol	ND	ug/l	200				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204593-02
97B-617-OW

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 continued				1 8270C	0515 15:45	0516 10:08	KL
2,4-Dinitrophenol	ND	ug/l	400				
4,6-Dinitro-o-cresol	ND	ug/l	400				
Pentachlorophenol	ND	ug/l	400				
Phenol	ND	ug/l	140				
2-Methylphenol	ND	ug/l	120				
3-Methylphenol/4-Methylphenol	ND	ug/l	120				
2,4,5-Trichlorophenol	ND	ug/l	100				
2,6-Dichlorophenol	ND	ug/l	200				
Benzoic Acid	ND	ug/l	1000				
Benzyl Alcohol	ND	ug/l	200				
Carbazole	ND	ug/l	100				
Pyridine	ND	ug/l	1000				
2-Picoline	ND	ug/l	400				
Pronamide	ND	ug/l	400				
Methyl methanesulfonate	ND	ug/l	400				
Surrogate Recovery							
2-Fluorophenol	49.0	%					
Phenol-d6	31.0	%					
Nitrobenzene-d5	78.0	%					
2-Fluorobiphenyl	93.0	%					
2,4,6-Tribromophenol	92.0	%					
4-Terphenyl-d14	80.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0204593-03
TRIP BLANK #1
Sample Matrix: WATER

Date Collected: 02-MAY-2002 15:15
Date Received : 09-MAY-2002
Date Reported : 16-MAY-2002

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260				1 8260B		0511 20:24	BT
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	ND	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	2.5				
Bromoform	ND	ug/l	0.50				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.75				
Ethylbenzene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204593-03
TRIP BLANK #1

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1 8260B		0511 20:24	BT
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.5				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	2.5				
Isopropylbenzene	ND	ug/l	0.50				
p-Iscpropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Surrogate Recovery							
1,2-Dichloroethane-d4	99.0	%					
Toluene-d8	100.	%					
4-Bromofluorobenzene	104.	%					
Dibromofluoromethane	97.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0204593-04
TRIP BLANK #2
Sample Matrix: WATER

Date Collected: 07-MAY-2002 16:30
Date Received : 09-MAY-2002
Date Reported : 16-MAY-2002

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260				1 8260B		0511 21:05	BT
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	ND	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	2.5				
Bromoform	ND	ug/l	0.50				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.75				
Ethylbenzene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0204593

Parameter	% Recovery
Cyanide, Total LCS for sample(s) 01-02 (WG112921)	
Cyanide, Total	95
Cyanide, Physiologically Available LCS for sample(s) 01-02 (WG112689)	
Cyanide, Physiologically Available	108
Total Metals LCS for sample(s) 01-02 (WG112723)	
Arsenic, Total	101
Barium, Total	100
Cadmium, Total	108
Chromium, Total	100
Lead, Total	105
Selenium, Total	102
Silver, Total	102
Total Metals LCS for sample(s) 01-02 (WG112948)	
Mercury, Total	114
Volatile Organics by GC/MS 8260 LCS for sample(s) 01-04 (WG112666)	
Chlorobenzene	102
Benzene	99
Toluene	97
1,1-Dichloroethene	95
Trichloroethene	107
Surrogate Recovery	
1,2-Dichloroethane-d4	94
Toluene-d8	98
4-Bromofluorobenzene	100
Dibromofluoromethane	97
SVOC's by GC/MS 8270 LCS for sample(s) 01 (WG112652)	
Acenaphthene	69
1,2,4-Trichlorobenzene	64
2-Chloronaphthalene	61
1,2-Dichlorobenzene	67
1,4-Dichlorobenzene	67
2,4-Dinitrotoluene	77
2,6-Dinitrotoluene	74
Fluoranthene	78
4-Chlorophenyl phenyl ether	72
n-Nitrosodi-n-propylamine	56
Butyl benzyl phthalate	71
Anthracene	67
Pyrene	77
Hexachloropropene	41
P-Chloro-M-Cresol	61
2-Chlorophenol	66
2-Nitrophenol	76

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0204593

Continued

Parameter	% Recovery
SVOC's by GC/MS 8270 LCS for sample(s) 01 (WG112652)	
4-Nitrophenol	38
2,4-Dinitrophenol	36
Pentachlorophenol	63
Phenol	29
Surrogate Recovery	
2-Fluorophenol	44
Phenol-d6	28
Nitrobenzene-d5	66
2-Fluorobiphenyl	73
2,4,6-Tribromophenol	66
4-Terphenyl-d14	70
SVOC's by GC/MS 8270 LCS for sample(s) 02 (WG113131)	
Acenaphthene	81
1,2,4-Trichlorobenzene	73
2-Chloronaphthalene	73
1,2-Dichlorobenzene	69
1,4-Dichlorobenzene	69
2,4-Dinitrotoluene	96
2,6-Dinitrotoluene	94
Fluoranthene	92
4-Chlorophenyl phenyl ether	84
n-Nitrosodi-n-propylamine	60
Butyl benzyl phthalate	87
Anthracene	84
Pyrene	93
Hexachloropropene	51
P-Chloro-M-Cresol	78
2-Chlorophenol	74
2-Nitrophenol	79
4-Nitrophenol	47
2,4-Dinitrophenol	94
Pentachlorophenol	86
Phenol	33
Surrogate Recovery	
2-Fluorophenol	50
Phenol-d6	32
Nitrobenzene-d5	68
2-Fluorobiphenyl	85
2,4,6-Tribromophenol	88
4-Terphenyl-d14	83
Cyanide, Total SPIKE for sample(s) 01-02 (L0204593-01, WG112921)	
Cyanide, Total	99

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0204593

Continued

Parameter	% Recovery
Total Metals SPIKE for sample(s) 01-02 (L0204562-02, WG112723)	
Arsenic, Total	101
Barium, Total	105
Cadmium, Total	110
Chromium, Total	105
Lead, Total	106
Selenium, Total	100
Silver, Total	105
Total Metals SPIKE for sample(s) 01-02 (L0204604-53, WG112948)	
Mercury, Total	131

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0204593

Parameter	MS %	MSD %	RPD
Volatile Organics by GC/MS 8260 for sample(s) 01-04 (L0204417-01, WG112666)			
Chlorobenzene	86	86	1
Benzene	87	85	2
Toluene	91	89	2
1,1-Dichloroethene	91	90	2
Trichloroethene	92	89	4
SVOC's by GC/MS 8270 for sample(s) 01 (L0204604-51, WG112652)			
Acenaphthene	83	69	18
1,2,4-Trichlorobenzene	74	64	14
2-Chloronaphthalene	74	64	14
1,2-Dichlorobenzene	74	64	14
1,4-Dichlorobenzene	74	64	14
2,4-Dinitrotoluene	87	78	11
2,6-Dinitrotoluene	87	74	16
Fluoranthene	87	78	11
4-Chlorophenyl phenyl ether	83	74	11
n-Nitrosodi-n-propylamine	64	51	23
Butyl benzyl phthalate	83	74	11
Anthracene	78	69	12
Pyrene	87	78	11
Hexachloropropene	51	43	17
P-Chloro-M-Cresol	76	60	24
2-Chlorophenol	76	64	17
2-Nitrophenol	81	67	19
4-Nitrophenol	69	60	14
2,4-Dinitrophenol	71	60	17
Pentachlorophenol	83	69	18
Phenol	55	46	18

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0204593

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-02								
Cyanide, Total	ND	mg/l	0.005	1	9010B	0514 15:00	0515 10:39	ED
Blank Analysis for sample(s) 01-02								
Cyanide, Physiologically Available	ND	mg/l	0.005	45		0510 17:00	0513 15:08	ED
Blank Analysis for sample(s) 01-02								
Total Metals				1	3015			
Arsenic, Total	ND	mg/l	0.004	1	6010B	0510 09:00	0514 02:31	MG
Barium, Total	ND	mg/l	0.01	1	6010B	0510 09:00	0514 02:31	MG
Cadmium, Total	ND	mg/l	0.005	1	6010B	0510 09:00	0514 02:31	MG
Chromium, Total	ND	mg/l	0.01	1	6010B	0510 09:00	0514 02:31	MG
Lead, Total	ND	mg/l	0.010	1	6010B	0510 09:00	0514 02:31	MG
Selenium, Total	ND	mg/l	0.020	1	6010B	0510 09:00	0514 02:31	MG
Silver, Total	ND	mg/l	0.007	1	6010B	0510 09:00	0514 02:31	MG
Blank Analysis for sample(s) 01-02								
Total Metals								
Mercury, Total	ND	mg/l	0.0004	1	7470A	0514 18:45	0515 10:45	DM
Blank Analysis for sample(s) 01-04								
Volatile Organics by GC/MS 8260				1	8260B		0511 16:48	BT
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	0.50					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Benzene	ND	ug/l	0.50					
Toluene	ND	ug/l	0.75					
Ethylbenzene	ND	ug/l	0.50					
Chloromethane	ND	ug/l	2.5					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0204593

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-04							
Volatile Organics by GC/MS 8260 continued				1 8260B		0511 16:48 BT	
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.5				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	2.5				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0204593

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-04								
Volatile Organics by GC/MS 8260 continued				1	8260B		0511 16:48	BT
1,2,4-Trichlorobenzene	ND	ug/l	2.5					
1,3,5-Trimethylbenzene	ND	ug/l	2.5					
1,2,4-Trimethylbenzene	ND	ug/l	2.5					
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					
Surrogate Recovery								
1,2-Dichloroethane-d4	98.0	%						
Toluene-d8	100.	%						
4-Bromofluorobenzene	103.	%						
Dibromofluoromethane	97.0	%						
Blank Analysis for sample(s) 01								
SVOC's by GC/MS 8270				1	8270C	0510 13:00	0514 05:37	HL
Acenaphthene	ND	ug/l	5.0					
Benzidine	ND	ug/l	50.					
1,2,4-Trichlorobenzene	ND	ug/l	5.0					
Hexachlorobenzene	ND	ug/l	5.0					
Bis(2-chloroethyl)ether	ND	ug/l	5.0					
1-Chloronaphthalene	ND	ug/l	5.0					
2-Chloronaphthalene	ND	ug/l	6.0					
1,2-Dichlorobenzene	ND	ug/l	5.0					
1,3-Dichlorobenzene	ND	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	5.0					
3,3'-Dichlorobenzidine	ND	ug/l	50.					
2,4-Dinitrotoluene	ND	ug/l	6.0					
2,6-Dinitrotoluene	ND	ug/l	5.0					
Azobenzene	ND	ug/l	5.0					
Fluoranthene	ND	ug/l	5.0					
4-Chlorophenyl phenyl ether	ND	ug/l	5.0					
4-Bromophenyl phenyl ether	ND	ug/l	5.0					
Bis(2-chloroisopropyl)ether	ND	ug/l	5.0					
Bis(2-chloroethoxy)methane	ND	ug/l	5.0					
Hexachlorobutadiene	ND	ug/l	10.					
Hexachlorocyclopentadiene	ND	ug/l	10.					
Hexachloroethane	ND	ug/l	5.0					
Isophorone	ND	ug/l	5.0					
Naphthalene	ND	ug/l	5.0					
Nitrobenzene	ND	ug/l	5.0					
NDPA/DPA	ND	ug/l	15.					
n-Nitrosodi-n-propylamine	ND	ug/l	5.0					
Bis(2-ethylhexyl)phthalate	ND	ug/l	10.					
Butyl benzyl phthalate	ND	ug/l	5.0					
Di-n-butylphthalate	ND	ug/l	5.0					
Di-n-octylphthalate	ND	ug/l	5.0					
Diethyl phthalate	ND	ug/l	5.0					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0204593

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01								
SVOC's by GC/MS 8270 continued				1	8270C	0510 13:00	0514 05:37	HL
Dimethyl phthalate	ND	ug/l	5.0					
Benzo(a)anthracene	ND	ug/l	5.0					
Benzo(a)pyrene	ND	ug/l	5.0					
Benzo(b)fluoranthene	ND	ug/l	5.0					
Benzo(k)fluoranthene	ND	ug/l	5.0					
Chrysene	ND	ug/l	5.0					
Acenaphthylene	ND	ug/l	5.0					
Anthracene	ND	ug/l	5.0					
Benzo(ghi)perylene	ND	ug/l	5.0					
Fluorene	ND	ug/l	5.0					
Phenanthrene	ND	ug/l	5.0					
Dibenzo(a,h)anthracene	ND	ug/l	5.0					
Indeno(1,2,3-cd)pyrene	ND	ug/l	7.0					
Pyrene	ND	ug/l	5.0					
Benzo(e)pyrene	ND	ug/l	5.0					
Biphenyl	ND	ug/l	5.0					
Perylene	ND	ug/l	5.0					
Aniline	ND	ug/l	10.					
4-Chloroaniline	ND	ug/l	5.0					
1-Methylnaphthalene	ND	ug/l	5.0					
2-Nitroaniline	ND	ug/l	5.0					
3-Nitroaniline	ND	ug/l	5.0					
4-Nitroaniline	ND	ug/l	7.0					
Dibenzofuran	ND	ug/l	5.0					
a,a-Dimethylphenethylamine	ND	ug/l	50.					
Hexachloropropene	ND	ug/l	50.					
Nitrosodi-n-butylamine	ND	ug/l	10.					
2-Methylnaphthalene	ND	ug/l	8.0					
1,2,4,5-Tetrachlorobenzene	ND	ug/l	20.					
Pentachlorobenzene	ND	ug/l	20.					
a-Naphthylamine	ND	ug/l	20.					
b-Naphthylamine	ND	ug/l	20.					
Phenacetin	ND	ug/l	10.					
Dimethoate	ND	ug/l	20.					
4-Aminobiphenyl	ND	ug/l	10.					
Pentachloronitrobenzene	ND	ug/l	10.					
Isodrin	ND	ug/l	10.					
p-Dimethylaminoazobenzene	ND	ug/l	10.					
Chlorobenzilate	ND	ug/l	20.					
3-Methylcholanthrene	ND	ug/l	20.					
Ethyl Methanesulfonate	ND	ug/l	15.					
Acetophenone	ND	ug/l	20.					
Nitrosodipiperidine	ND	ug/l	20.					
7,12-Dimethylbenz(a)anthracene	ND	ug/l	10.					
n-Nitrosodimethylamine	ND	ug/l	50.					
2,4,6-Trichlorophenol	ND	ug/l	5.0					
p-Chloro-m-cresol	ND	ug/l	5.0					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0204593

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01								
SVOC's by GC/MS 8270 continued				1	8270C	0510 13:00	0514 05:37	HL
2-Chlorophenol	ND	ug/l	6.0					
2,4-Dichlorophenol	ND	ug/l	10.					
2,4-Dimethylphenol	ND	ug/l	10.					
2-Nitrophenol	ND	ug/l	20.					
4-Nitrophenol	ND	ug/l	10.					
2,4-Dinitrophenol	ND	ug/l	20.					
4,6-Dinitro-o-cresol	ND	ug/l	20.					
Pentachlorophenol	ND	ug/l	20.					
Phenol	ND	ug/l	7.0					
2-Methylphenol	ND	ug/l	6.0					
3-Methylphenol/4-Methylphenol	ND	ug/l	6.0					
2,4,5-Trichlorophenol	ND	ug/l	5.0					
2,6-Dichlorophenol	ND	ug/l	10.					
Benzoic Acid	ND	ug/l	50.					
Benzyl Alcohol	ND	ug/l	10.					
Carbazole	ND	ug/l	5.0					
Pyridine	ND	ug/l	50.					
2-Picoline	ND	ug/l	20.					
Pronamide	ND	ug/l	20.					
Methyl methanesulfonate	ND	ug/l	20.					
Surrogate Recovery								
2-Fluorophenol	19.0	%						
Phenol-d6	15.0	%						
Nitrobenzene-d5	59.0	%						
2-Fluorobiphenyl	74.0	%						
2,4,6-Tribromophenol	64.0	%						
4-Terphenyl-d14	76.0	%						
Blank Analysis for sample(s) 02								
SVOC's by GC/MS 8270				1	8270C	0515 15:45	0515 19:57	HL
Acenaphthene	ND	ug/l	5.0					
Benzidine	ND	ug/l	50.					
1,2,4-Trichlorobenzene	ND	ug/l	5.0					
Hexachlorobenzene	ND	ug/l	5.0					
Bis(2-chloroethyl)ether	ND	ug/l	5.0					
1-Chloronaphthalene	ND	ug/l	5.0					
2-Chloronaphthalene	ND	ug/l	6.0					
1,2-Dichlorobenzene	ND	ug/l	5.0					
1,3-Dichlorobenzene	ND	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	5.0					
3,3'-Dichlorobenzidine	ND	ug/l	50.					
2,4-Dinitrotoluene	ND	ug/l	5.0					
2,6-Dinitrotoluene	ND	ug/l	5.0					
Azobenzene	ND	ug/l	5.0					
Fluoranthene	ND	ug/l	5.0					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: LC204593

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 02								
SVOC's by GC/MS 8270 continued				1	8270C	0515 15:45	0515 19:57	HL
4-Chlorophenyl phenyl ether	ND	ug/l	5.0					
4-Bromophenyl phenyl ether	ND	ug/l	5.0					
Bis(2-chloroisopropyl)ether	ND	ug/l	5.0					
Bis(2-chloroethoxy)methane	ND	ug/l	5.0					
Hexachlorobutadiene	ND	ug/l	10.					
Hexachlorocyclopentadiene	ND	ug/l	10.					
Hexachloroethane	ND	ug/l	5.0					
Isophorone	ND	ug/l	5.0					
Naphthalene	ND	ug/l	5.0					
Nitrobenzene	ND	ug/l	5.0					
NDPA/DPA	ND	ug/l	15.					
n-Nitrosodi-n-propylamine	ND	ug/l	5.0					
Bis(2-ethylhexyl)phthalate	ND	ug/l	10.					
Butyl benzyl phthalate	ND	ug/l	5.0					
Di-n-butylphthalate	ND	ug/l	5.0					
Di-n-octylphthalate	ND	ug/l	5.0					
Diethyl phthalate	ND	ug/l	5.0					
Dimethyl phthalate	ND	ug/l	5.0					
Benzo(a)anthracene	ND	ug/l	5.0					
Benzo(a)pyrene	ND	ug/l	5.0					
Benzo(b)fluoranthene	ND	ug/l	5.0					
Benzo(k)fluoranthene	ND	ug/l	5.0					
Chrysene	ND	ug/l	5.0					
Acenaphthylene	ND	ug/l	5.0					
Anthracene	ND	ug/l	5.0					
Benzo(ghi)perylene	ND	ug/l	5.0					
Fluorene	ND	ug/l	5.0					
Phenanthrene	ND	ug/l	5.0					
Dibenzo(a,h)anthracene	ND	ug/l	5.0					
Indeno(1,2,3-cd)pyrene	ND	ug/l	7.0					
Pyrene	ND	ug/l	5.0					
Benzo(e)pyrene	ND	ug/l	5.0					
Biphenyl	ND	ug/l	5.0					
Perylene	ND	ug/l	5.0					
Aniline	ND	ug/l	10.					
4-Chloroaniline	ND	ug/l	5.0					
1-Methylnaphthalene	ND	ug/l	5.0					
2-Nitroaniline	ND	ug/l	5.0					
3-Nitroaniline	ND	ug/l	5.0					
4-Nitroaniline	ND	ug/l	7.0					
Dibenzofuran	ND	ug/l	5.0					
a,a-Dimethylphenethylamine	ND	ug/l	50.					
Hexachloropropene	ND	ug/l	50.					
Nitrosodi-n-butylamine	ND	ug/l	10.					
2-Methylnaphthalene	ND	ug/l	8.0					
1,2,4,5-Tetrachlorobenzene	ND	ug/l	20.					
Pentachlorobenzene	ND	ug/l	20.					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0204593

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 02							
SVOC's by GC/MS 8270 continued				1 8270C	0515 15:45	0515 19:57	HL
a-Naphthylamine	ND	ug/l	20.				
b-Naphthylamine	ND	ug/l	20.				
Phenacetin	ND	ug/l	10.				
Dimethoate	ND	ug/l	20.				
4-Aminobiphenyl	ND	ug/l	10.				
Pentachloronitrobenzene	ND	ug/l	10.				
Isodrin	ND	ug/l	10.				
p-Dimethylaminoazobenzene	ND	ug/l	10.				
Chlorobenzilate	ND	ug/l	20.				
3-Methylcholanthrene	ND	ug/l	20.				
Ethyl Methanesulfonate	ND	ug/l	15.				
Acetophenone	ND	ug/l	20.				
Nitrosodipiperidine	ND	ug/l	20.				
7,12-Dimethylbenz(a)anthracene	ND	ug/l	10.				
n-Nitrosodimethylamine	ND	ug/l	50.				
2,4,6-Trichlorophenol	ND	ug/l	5.0				
p-Chloro-m-cresol	ND	ug/l	5.0				
2-Chlorophenol	ND	ug/l	6.0				
2,4-Dichlorophenol	ND	ug/l	10.				
2,4-Dimethylphenol	ND	ug/l	10.				
2-Nitrophenol	ND	ug/l	20.				
4-Nitrophenol	ND	ug/l	10.				
2,4-Dinitrophenol	ND	ug/l	20.				
4,6-Dinitro-o-cresol	ND	ug/l	20.				
Pentachlorophenol	ND	ug/l	20.				
Phenol	ND	ug/l	7.0				
2-Methylphenol	ND	ug/l	6.0				
3-Methylphenol/4-Methylphenol	ND	ug/l	6.0				
2,4,5-Trichlorophenol	ND	ug/l	5.0				
2,6-Dichlorophenol	ND	ug/l	10.				
Benzoic Acid	ND	ug/l	50.				
Benzyl Alcohol	ND	ug/l	10.				
Carbazole	ND	ug/l	5.0				
Pyridine	ND	ug/l	50.				
2-Picoline	ND	ug/l	20.				
Pronamide	ND	ug/l	20.				
Methyl methanesulfonate	ND	ug/l	20.				
Surrogate Recovery							
2-Fluorophenol	39.0	%					
Phenol-d6	26.0	%					
Nitrobenzene-d5	57.0	%					
2-Fluorobiphenyl	71.0	%					
2,4,6-Tribromophenol	80.0	%					
4-Terphenyl-d14	81.0	%					

REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Update III, 1997.

45. Physiologically Available Cyanide (PAC), January 1996 Protocol, Mass DEP 1996.

GLOSSARY OF TERMS AND SYMBOLS

REF Reference number in which test method may be found.
METHOD Method number by which analysis was performed.
ID Initials of the analyst.

Please note that all solid samples are reported on dry weight basis unless noted otherwise.

LIMITATION OF LIABILITIES

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.

Quality Control Acceptance Criteria

Volatile Organics by Method 8260B

surrogate spike % recovery	AQ Limits		Soil Limits	
	LCL	UCL	LCL	UCL
1,2-Dichloroethane-d_4	75%	125%	75%	125%
4-Bromofluorobenzene	75%	125%	75%	125%
Toluene-d_8	75%	125%	75%	125%
Dibromofluoromethane	75%	125%	75%	125%

matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	percent recovery				duplicate and/or MSD	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
1,1-Dichloroethene	61%	145%	59%	172%	all target compounds	
Trichloroethene	71%	120%	62%	137%	20%	30%
Chlorobenzene	75%	130%	60%	133%		
Benzene	76%	127%	66%	142%		
Toluene	76%	125%	59%	139%		

Volatile Organics by Method 8021B

surrogate spike % recovery	AQ Limits		Soil Limits	
	LCL	UCL	LCL	UCL
4-Bromochlorobenzene	70%	110%	70%	120%
4-Bromofluorobenzene	70%	110%	70%	120%

matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	percent recovery				duplicate and/or MSD	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
1,1-Dichloroethene	70%	130%	70%	130%	all target compounds	
Trichloroethene	70%	130%	70%	130%	20%	30%
Chlorobenzene	70%	130%	70%	130%		
Benzene	70%	130%	70%	130%		
Toluene	70%	130%	70%	130%		
Ethylbenzene	70%	130%	70%	130%		

Semi-Volatile Organics by Method 8270C (includes PAHs)

surrogate spike % recovery	AQ Limits		Soil Limits	
	LCL	UCL	LCL	UCL
Nitrobenzene-d_5	23%	120%	23%	120%
Phenol-d_6	10%	120%	10%	120%
2-Fluorophenol	21%	120%	25%	120%
2-Fluorobiphenyl	43%	120%	30%	120%
p-Terphenyl-d_{14}	33%	120%	18%	120%
2,4,6-Tribromophenol	10%	120%	19%	120%

matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	percent recovery				duplicate and/or MSD	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
1,2,4-Trichlorobenzene	39%	98%	38%	107%	all target compounds	
Acenaphthene	46%	118%	31%	137%	40%	50%
2,4-Dinitrotoluene	24%	96%	28%	89%		
Pyrene	26%	127%	35%	142%		
N-Nitroso-di-*n*-propylamine	41%	116%	41%	126%		
1,4-Dichlorobenzene	36%	97%	28%	104%		
Pentachlorophenol	9%	103%	17%	109%		
Phenol	12%	110%	26%	90%		
2-Chlorophenol	27%	123%	25%	102%		
4-Chloro-3-methylphenol	23%	97%	26%	103%		
4-Nitrophenol	10%	80%	11%	114%		

Quality Control Acceptance Criteria

PCB/Pesticides by Method 8082/8081

surrogate spike % recovery	AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL		
2,4,5,6-Tetrachloro-m-xylene	40%	120%	40%	120%		
Decachlorobiphenyl	40%	120%	40%	120%		
matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	**percent recovery AQ Limits LCL**	**AQ Limits UCL**	**Soil Limits LCL**	**Soil Limits UCL**	**duplicate and/or MSD AQ Limits RPD**	**Soil Limits RPD**
Lindane	56%	123%	46%	127%	all target compounds	
Heptachlor	40%	131%	35%	130%	30%	50%
Aldrin	40%	120%	34%	132%		
Dieldrin	52%	126%	31%	134%		
Endrin	56%	121%	42%	139%		
4,4'-DDT	38%	127%	23%	134%		
Aroclor 1242/1016	40%	140%	40%	140%		
Aroclor 1260	40%	140%	40%	140%		

Volatile Petroleum Hydrocarbons (VPH) by MA DEP 98-1

surrogate spike % recovery	AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL		
2,5-Dibromotoluene	70%	130%	70%	130%		
laboratory control sample (LCS)	**percent recovery AQ Limits LCL**	**AQ Limits UCL**	**Soil Limits LCL**	**Soil Limits UCL**	**duplicate AQ Limits RPD**	**Soil Limits RPD**
all compounds	70%	130%	70%	130%	50%	50%

Extractable Petroleum Hydrocarbons (EPH) by MA DEP 98-1

surrogate spike % recovery	AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL		
Chloro-octadecane	40%	140%	40%	140%		
ortho-Terphenyl	40%	140%	40%	140%		
2-Fluorobiphenyl (fractionation)	40%	140%	40%	140%		
2-Bromonaphthalene (fractionation)	40%	140%	40%	140%		
laboratory control sample (LCS)	**percent recovery AQ Limits LCL**	**AQ Limits UCL**	**Soil Limits LCL**	**Soil Limits UCL**	**duplicate AQ Limits RPD**	**Soil Limits RPD**
all compounds	40%	140%	40%	140%	50%	50%

TPH (GC-FID) by Method 8100M

surrogate spike % recovery	AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL	duplicate AQ Limits RPD	duplicate Soil Limits RPD
ortho-Terphenyl	40%	140%	40%	140%	40%	40%

TPH by Method 418.1

matrix spike (MS) & laboratory control sample (LCS)	percent recovery AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL	duplicate AQ Limits RPD	duplicate Soil Limits RPD
TPH	60%	140%	60%	140%	40%	40%

Quality Control Acceptance Criteria

Trace Metals by Method 6010B/7000 series

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
target analyte	75%	125%	70%	140%	20%	35%

Mercury by Method 7470A/7471A

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
mercury	70%	130%	60%	140%	35%	45%

Total Cyanide by Method 9010B

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
cyanide	80%	120%	65%	135%	30%	40%

Total Phenol by Method 9065

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
phenol	70%	130%	65%	135%	20%	30%

HALEY & ALDRICH
Haley & Aldrich, Inc.
465 Medford St.,
Suite 2200,
Boston, MA 02129-1400

CHAIN OF CUSTODY RECORD

Phone (617) 886-7400
Fax (617) 886-7600

H&A FILE NO. 06558-631
PROJECT NAME Malden MGP
H&A CONTACT Sean Carroll

LABORATORY Alpha Analytical
ADDRESS Westboro
CONTACT P. Hendrickson

DELIVERY DATE 5/9/02
TURNAROUND TIME Standard
PROJECT MANAGER Bruce Wilkinson

Sample No.	Date	Time	Depth	Type	VOA	SVOC Full Volatile	Metals (RCRA 8) Pb(13)	Pesticides PCBs	VPH Full Suite C-ranges only	EPH Full Suite C-ranges only	TPH (specify)	TCLP (specify)	Reactivity Ignitability Corrosivity	TCN*	PAC*		Number of Containers
NC-2	5/8/02	1225		Water	X	X	X							X	X		7
97B-617-OW	5/8/02	1525		water	x	x	x							x	x		7
TRIP BLANK #1	5/8/02	1600		water	x												1
TRIP BLANK #2	5/8/02	1600		water	x												1

Analysis Requested

Comments (special instructions, precautions, additional method numbers, etc.)

TCN: Total Cyanide
PAC: Physiologically available Cyanide - run only if TCN detected.

LIQUID													
A/F													VOA Vial
	A												Amber Glass
		A/D								A/C	A		Plastic Bottle
A/F	A	A/D								A/C	A		Preservative
Y/O	1000	50								250	250		Volume

SOLID													
													VOA Vial
													Amber Glass
													Clear Glass
													Preservative
													Volume

Sampling Comments

Evidence samples were tampered with? YES NO
If YES, please explain in section below.

PRESERVATION KEY

A Sample chilled	C NaOH	E H_2SO_4	G Methanol
B Sample filtered	D HNO_3	F HCL	H Sodium Bisulfate

Relinquished by	Received by
Sign A. Shay Print S. Shay Firm Haley & Aldrich Date 5/8/02 Time 1715	Sign [illegible] Print [illegible] Firm H&A Date 5/8/02 Time 17:15
Relinquished by	Received by
Sign [illegible] Print [illegible] Firm H&A Date 5/9/02 Time 15:20	Sign [illegible] Print [illegible] Firm Alpha Date 5/9/02 Time 1520
Relinquished by	Received by
Sign [illegible] Print Firm Date Time	Sign [illegible] Print Ladebauche Firm Alpha Date 5/9/02 Time 1830

WHITE - Laboratory CANARY - Project Manager PINK - Haley & Aldrich Laboratory GOLDENROD - Haley & Aldrich Contact