



FINAL

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METRO-REM
 600 NE Grand Ave.
 Portland, OR 97232

Project: Soil Characterization
 Project Number: None
 Project Manager: Elaine Stewart

Reported:
 09/03/03 09:45

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
North Slough 1	P3H0458-01	Soil	08/14/03 13:10	08/14/03 14:18
North Slough 2	P3H0458-02	Soil	08/14/03 13:15	08/14/03 14:18
Bybee Lake 1	P3H0458-03	Soil	08/14/03 13:25	08/14/03 14:18
Bybee Lake 2	P3H0458-04	Soil	08/14/03 13:30	08/14/03 14:18

To Mary Headley
 9/3/03

North Creek Analytical - Portland

Crystal Jones, Project Manager

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METRO-REM 600 NE Grand Ave. Portland, OR 97232	Project: Soil Characterization Project Number: None Project Manager: Elaine Stewart	Reported: 09/03/03 09:45
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Total Metals per EPA 6000/7000 Series Methods
North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
North Slough 1 (P3H0458-01) Soil						Sampled: 08/14/03 Received: 08/14/03			
Arsenic	6.45	0.446	mg/kg dry	1	EPA 6020	08/21/03	08/28/03	3080716	
Copper	33.4	1.79	"	"	"	"	"	"	
Lead	20.5	0.446	"	"	"	"	"	"	
Mercury	0.109	0.0500	"	"	EPA 7471A	08/18/03	08/18/03	3080557	
Nickel	21.9	0.893	"	"	EPA 6020	08/21/03	08/28/03	3080716	
Zinc	118	1.79	"	"	"	"	"	"	
North Slough 2 (P3H0458-02) Soil						Sampled: 08/14/03 Received: 08/14/03			
Arsenic	5.06	0.394	mg/kg dry	1	EPA 6020	08/21/03	08/28/03	3080716	
Copper	30.5	1.57	"	"	"	"	"	"	
Lead	15.3	0.394	"	"	"	"	"	"	
Mercury	0.0620	0.0463	"	"	EPA 7471A	08/18/03	08/18/03	3080557	
Nickel	22.8	0.787	"	"	EPA 6020	08/21/03	08/28/03	3080716	
Zinc	159	1.57	"	"	"	"	"	"	
Bybee Lake 1 (P3H0458-03) Soil						Sampled: 08/14/03 Received: 08/14/03			
Arsenic	7.49	0.424	mg/kg dry	1	EPA 6020	08/21/03	08/28/03	3080716	
Copper	41.2	1.69	"	"	"	"	"	"	
Lead	37.0	0.424	"	"	"	"	"	"	
Mercury	0.0793	0.0641	"	"	EPA 7471A	08/18/03	08/18/03	3080557	
Nickel	22.0	0.847	"	"	EPA 6020	08/21/03	08/28/03	3080716	
Zinc	145	1.69	"	"	"	"	"	"	
Bybee Lake 2 (P3H0458-04) Soil						Sampled: 08/14/03 Received: 08/14/03			
Arsenic	6.73	0.500	mg/kg dry	1	EPA 6020	08/21/03	08/28/03	3080716	
Copper	29.8	2.00	"	"	"	"	"	"	
Lead	18.4	0.500	"	"	"	"	"	"	
Mercury	0.0467	0.0439	"	"	EPA 7471A	08/18/03	08/18/03	3080557	
Nickel	22.2	1.00	"	"	EPA 6020	08/21/03	08/28/03	3080716	
Zinc	110	2.00	"	"	"	"	"	"	

North Creek Analytical - Portland

Crystal Jones, Project Manager

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Environmental Laboratory Network



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METRO-REM 600 NE Grand Ave. Portland, OR 97232	Project: Soil Characterization Project Number: None Project Manager: Elaine Stewart	Reported: 09/03/03 09:45
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Organochlorine Pesticides per EPA Method 8081A
North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
North Slough 1 (P3H0458-01) Soil						Sampled: 08/14/03 Received: 08/14/03			
Aldrin	ND	6.70	ug/kg dry	1	EPA 8081A	08/19/03	08/21/03	3080605	
alpha-BHC	ND	6.70	"	"	"	"	"	"	
beta-BHC	ND	6.70	"	"	"	"	"	"	
delta-BHC	ND	6.70	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	6.70	"	"	"	"	"	"	
gamma-Chlordane	ND	6.70	"	"	"	"	"	"	
alpha-Chlordane	ND	6.70	"	"	"	"	"	"	
Chlordane (tech)	ND	150	"	"	"	"	"	"	
4,4'-DDD	ND	6.70	"	"	"	"	"	"	
4,4'-DDE	ND	6.70	"	"	"	"	"	"	
4,4'-DDT	ND	13.4	"	2	"	"	08/21/03	"	R-05
Dieldrin	ND	6.70	"	1	"	"	08/21/03	"	
Endosulfan I	ND	6.70	"	"	"	"	"	"	
Endosulfan II	ND	6.70	"	"	"	"	"	"	
Endosulfan sulfate	ND	6.70	"	"	"	"	"	"	
Endrin	ND	6.70	"	"	"	"	"	"	
Endrin aldehyde	ND	6.70	"	"	"	"	"	"	
Endrin ketone	ND	6.70	"	"	"	"	"	"	
Heptachlor	ND	6.70	"	"	"	"	"	"	
Heptachlor epoxide	ND	6.70	"	"	"	"	"	"	
Methoxychlor	ND	13.4	"	2	"	"	08/21/03	"	R-05
Toxaphene	ND	200	"	1	"	"	08/21/03	"	
Surr: Decachlorobiphenyl	100 %	16-149							
Surr: 2,4,5,6-Tetrachloro-m-xylene	76.8 %	36-140							

North Creek Analytical - Portland

Crystal Jones, Project Manager

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Organochlorine Pesticides per EPA Method 8081A
North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
North Slough 2 (P3H0458-02) Soil						Sampled: 08/14/03 Received: 08/14/03			
Aldrin	ND	6.70	ug/kg dry	1	EPA 8081A	08/19/03	08/21/03	3080605	
alpha-BHC	ND	6.70	"	"	"	"	"	"	
beta-BHC	ND	6.70	"	"	"	"	"	"	
delta-BHC	ND	6.70	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	6.70	"	"	"	"	"	"	
gamma-Chlordane	ND	6.70	"	"	"	"	"	"	
alpha-Chlordane	ND	6.70	"	"	"	"	"	"	
Chlordane (tech)	ND	150	"	"	"	"	"	"	
4,4'-DDD	ND	6.70	"	"	"	"	"	"	
4,4'-DDE	ND	6.70	"	"	"	"	"	"	
4,4'-DDT	ND	13.4	"	2	"	"	08/21/03	"	R-05
Dieldrin	ND	6.70	"	1	"	"	08/21/03	"	
Endosulfan I	ND	6.70	"	"	"	"	"	"	
Endosulfan II	ND	6.70	"	"	"	"	"	"	
Endosulfan sulfate	ND	6.70	"	"	"	"	"	"	
Endrin	ND	6.70	"	"	"	"	"	"	
Endrin aldehyde	ND	6.70	"	"	"	"	"	"	
Endrin ketone	ND	6.70	"	"	"	"	"	"	
Heptachlor	ND	6.70	"	"	"	"	"	"	
Heptachlor epoxide	ND	6.70	"	"	"	"	"	"	
Methoxychlor	ND	13.4	"	2	"	"	08/21/03	"	R-05
Toxaphene	ND	200	"	1	"	"	08/21/03	"	
Surr: Decachlorobiphenyl	90.3 %	16-149							
Surr: 2,4,5,6-Tetrachloro-m-xylene	75.1 %	36-140							

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Organochlorine Pesticides per EPA Method 8081A
North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
Bybee Lake 1 (P3H0458-03) Soil						Sampled: 08/14/03 Received: 08/14/03			
Aldrin	ND	6.70	ug/kg dry	1	EPA 8081A	08/19/03	08/21/03	3080605	
alpha-BHC	ND	6.70	"	"	"	"	"	"	
beta-BHC	ND	6.70	"	"	"	"	"	"	
delta-BHC	ND	6.70	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	6.70	"	"	"	"	"	"	
gamma-Chlordane	ND	6.70	"	"	"	"	"	"	
alpha-Chlordane	ND	6.70	"	"	"	"	"	"	
Chlordane (tech)	ND	150	"	"	"	"	"	"	
4,4'-DDD	ND	6.70	"	"	"	"	"	"	
4,4'-DDE	ND	6.70	"	"	"	"	"	"	
4,4'-DDT	ND	13.4	"	2	"	"	08/21/03	"	R-05
Dieldrin	ND	6.70	"	1	"	"	08/21/03	"	
Endosulfan I	ND	6.70	"	"	"	"	"	"	
Endosulfan II	ND	6.70	"	"	"	"	"	"	
Endosulfan sulfate	ND	6.70	"	"	"	"	"	"	
Endrin	ND	6.70	"	"	"	"	"	"	
Endrin aldehyde	ND	6.70	"	"	"	"	"	"	
Endrin ketone	ND	6.70	"	"	"	"	"	"	
Heptachlor	ND	6.70	"	"	"	"	"	"	
Heptachlor epoxide	ND	6.70	"	"	"	"	"	"	
Methoxychlor	ND	13.4	"	2	"	"	08/21/03	"	R-05
Toxaphene	ND	200	"	1	"	"	08/21/03	"	
Surr: Decachlorobiphenyl	96.3 %	16-149							
Surr: 2,4,5,6-Tetrachloro-m-xylene	73.5 %	36-140							

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METRO-REM
 600 NE Grand Ave.
 Portland, OR 97232

Project: Soil Characterization
 Project Number: None
 Project Manager: Elaine Stewart

Reported:
 09/03/03 09:45

Organochlorine Pesticides per EPA Method 8081A
North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
Bybee Lake 2 (P3H0458-04) Soil						Sampled: 08/14/03 Received: 08/14/03			
Aldrin	ND	6.70	ug/kg dry	1	EPA 8081A	08/19/03	08/21/03	3080605	
alpha-BHC	ND	6.70	"	"	"	"	"	"	
beta-BHC	ND	6.70	"	"	"	"	"	"	
delta-BHC	ND	6.70	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	6.70	"	"	"	"	"	"	
gamma-Chlordane	ND	6.70	"	"	"	"	"	"	
alpha-Chlordane	ND	6.70	"	"	"	"	"	"	
Chlordane (tech)	ND	150	"	"	"	"	"	"	
4,4'-DDD	ND	6.70	"	"	"	"	"	"	
4,4'-DDE	ND	6.70	"	"	"	"	"	"	
4,4'-DDT	ND	13.4	"	2	"	"	08/21/03	"	R-05
Dieldrin	ND	6.70	"	1	"	"	08/21/03	"	
Endosulfan I	ND	6.70	"	"	"	"	"	"	
Endosulfan II	ND	6.70	"	"	"	"	"	"	
Endosulfan sulfate	ND	6.70	"	"	"	"	"	"	
Endrin	ND	6.70	"	"	"	"	"	"	
Endrin aldehyde	ND	6.70	"	"	"	"	"	"	
Endrin ketone	ND	6.70	"	"	"	"	"	"	
Heptachlor	ND	6.70	"	"	"	"	"	"	
Heptachlor epoxide	ND	6.70	"	"	"	"	"	"	
Methoxychlor	ND	13.4	"	2	"	"	08/21/03	"	R-05
Toxaphene	ND	200	"	1	"	"	08/21/03	"	
Surr: Decachlorobiphenyl	93.7 %	16-149							
Surr: 2,4,5,6-Tetrachloro-m-xylene	73.5 %	36-140							

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Crystal Jones, Project Manager

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METRO-REM 600 NE Grand Ave. Portland, OR 97232	Project: Soil Characterization Project Number: None Project Manager: Elaine Stewart	Reported: 09/03/03 09:45
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Polynuclear Aromatic Compounds per EPA 8270M-SIM
North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
North Slough 1 (P3H0458-01) Soil						Sampled: 08/14/03 Received: 08/14/03			
Acenaphthene	ND	13.4	ug/kg dry	1	EPA 8270m	08/18/03	08/20/03	3080555	
Acenaphthylene	ND	13.4	"	"	"	"	"	"	
Anthracene	ND	13.4	"	"	"	"	"	"	
Benzo (a) anthracene	ND	13.4	"	"	"	"	"	"	
Benzo (a) pyrene	ND	13.4	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	13.4	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	13.4	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	13.4	"	"	"	"	"	"	
Chrysene	ND	13.4	"	"	"	"	"	"	
Dibenzo (a,h) anthracene	ND	13.4	"	"	"	"	"	"	
Fluoranthene	ND	13.4	"	"	"	"	"	"	
Fluorene	ND	13.4	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	13.4	"	"	"	"	"	"	
Naphthalene	ND	13.4	"	"	"	"	"	"	
Phenanthrene	ND	13.4	"	"	"	"	"	"	
Pyrene	ND	13.4	"	"	"	"	"	"	
Surr: Fluorene-d10	105 %	40-150							
Surr: Pyrene-d10	131 %	40-150							
Surr: Benzo (a) pyrene-d12	124 %	40-150							

North Slough 2 (P3H0458-02) Soil						Sampled: 08/14/03 Received: 08/14/03			
Acenaphthene	ND	13.4	ug/kg dry	1	EPA 8270m	08/18/03	08/21/03	3080555	
Acenaphthylene	ND	13.4	"	"	"	"	"	"	
Anthracene	ND	13.4	"	"	"	"	"	"	
Benzo (a) anthracene	ND	13.4	"	"	"	"	"	"	
Benzo (a) pyrene	ND	13.4	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	13.4	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	13.4	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	13.4	"	"	"	"	"	"	
Chrysene	ND	13.4	"	"	"	"	"	"	
Dibenzo (a,h) anthracene	ND	13.4	"	"	"	"	"	"	
Fluoranthene	ND	13.4	"	"	"	"	"	"	
Fluorene	ND	13.4	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	13.4	"	"	"	"	"	"	
Naphthalene	ND	13.4	"	"	"	"	"	"	
Phenanthrene	ND	13.4	"	"	"	"	"	"	
Pyrene	ND	13.4	"	"	"	"	"	"	

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METRO-REM
 600 NE Grand Ave.
 Portland, OR 97232

Project: Soil Characterization
 Project Number: None
 Project Manager: Elaine Stewart

Reported:
 09/03/03 09:45

Polynuclear Aromatic Compounds per EPA 8270M-SIM
North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
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North Slough 2 (P3H0458-02) Soil

Sampled: 08/14/03 Received: 08/14/03

Surr: Fluorene-d10	103 %	40-150							
Surr: Pyrene-d10	132 %	40-150							
Surr: Benzo (a) pyrene-d12	131 %	40-150							

Bybee Lake 1 (P3H0458-03) Soil

Sampled: 08/14/03 Received: 08/14/03

Acenaphthene	ND	13.4	ug/kg dry	1	EPA 8270m	08/18/03	08/21/03	3080555	
Acenaphthylene	ND	13.4	"	"	"	"	"	"	
Anthracene	ND	13.4	"	"	"	"	"	"	
Benzo (a) anthracene	ND	13.4	"	"	"	"	"	"	
Benzo (a) pyrene	ND	13.4	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	13.4	"	"	"	"	"	"	R-08
Benzo (ghi) perylene	ND	13.4	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	13.4	"	"	"	"	"	"	R-08
Chrysene	ND	13.4	"	"	"	"	"	"	
Dibenzo (a,h) anthracene	ND	13.4	"	"	"	"	"	"	
Fluoranthene	ND	13.4	"	"	"	"	"	"	
Fluorene	ND	13.4	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	13.4	"	"	"	"	"	"	
Naphthalene	ND	13.4	"	"	"	"	"	"	
Phenanthrene	ND	13.4	"	"	"	"	"	"	
Pyrene	ND	13.4	"	"	"	"	"	"	
Surr: Fluorene-d10	110 %	40-150							
Surr: Pyrene-d10	140 %	40-150							
Surr: Benzo (a) pyrene-d12	125 %	40-150							

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Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588

METRO-REM 600 NE Grand Ave. Portland, OR 97232	Project: Soil Characterization Project Number: None Project Manager: Elaine Stewart	Reported: 09/03/03 09:45
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Polynuclear Aromatic Compounds per EPA 8270M-SIM
North Creek Analytical - Portland

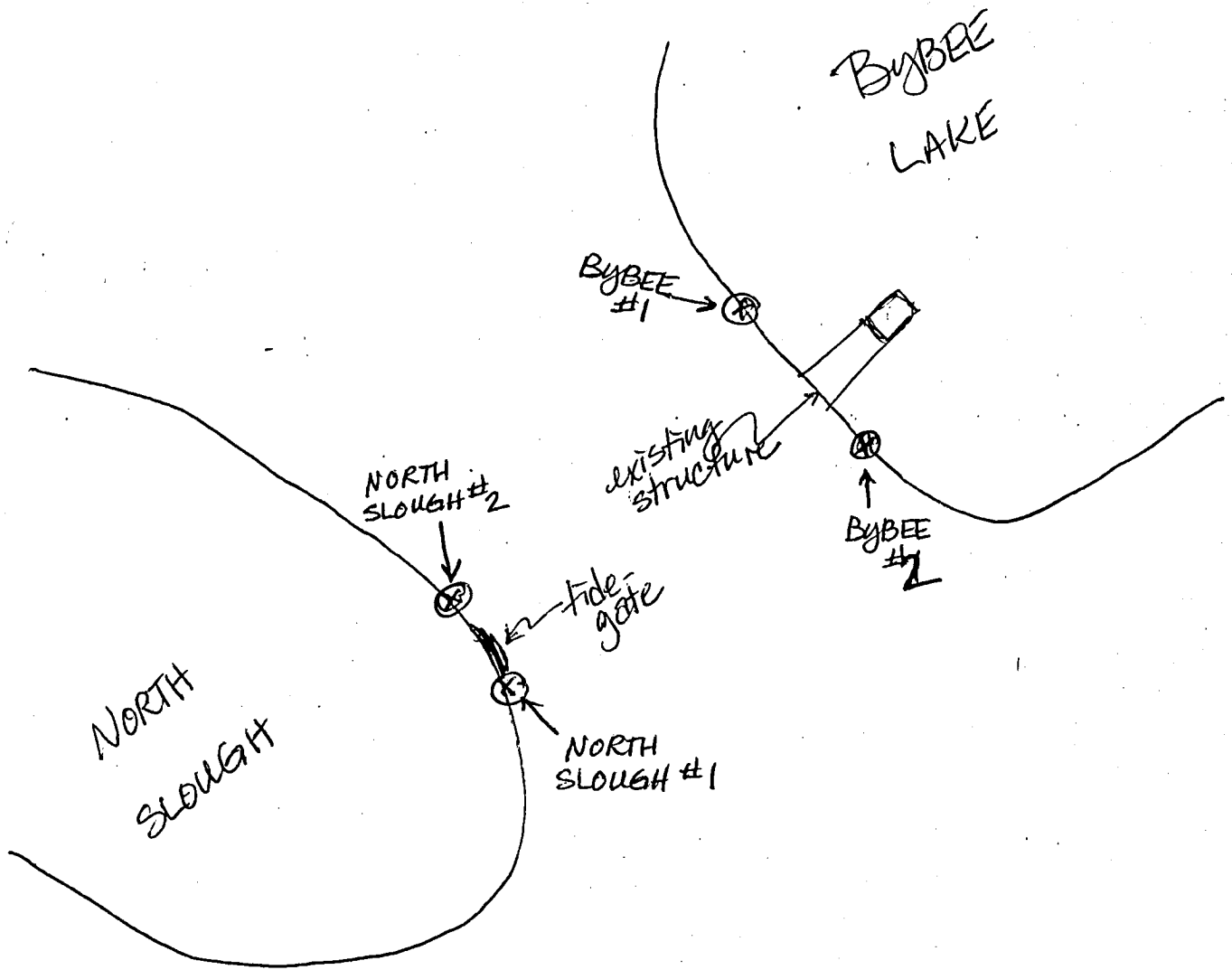
Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
Bybee Lake 2 (P3H0458-04) Soil						Sampled: 08/14/03 Received: 08/14/03			
Acenaphthene	ND	13.4	ug/kg dry	1	EPA 8270m	08/18/03	08/21/03	3080555	
Acenaphthylene	ND	13.4	"	"	"	"	"	"	
Anthracene	ND	13.4	"	"	"	"	"	"	
Benzo (a) anthracene	ND	13.4	"	"	"	"	"	"	
Benzo (a) pyrene	ND	13.4	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	13.4	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	13.4	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	13.4	"	"	"	"	"	"	
Chrysene	ND	13.4	"	"	"	"	"	"	
Dibenzo (a,h) anthracene	ND	13.4	"	"	"	"	"	"	
Fluoranthene	ND	13.4	"	"	"	"	"	"	
Fluorene	ND	13.4	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	13.4	"	"	"	"	"	"	
Naphthalene	ND	13.4	"	"	"	"	"	"	
Phenanthrene	ND	13.4	"	"	"	"	"	"	
Pyrene	ND	13.4	"	"	"	"	"	"	
Surr: Fluorene-d10	105 %	40-150							
Surr: Pyrene-d10	136 %	40-150							
Surr: Benzo (a) pyrene-d12	133 %	40-150							

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Crystal Jones, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

North Creek Analytical, Inc.
Environmental Laboratory Network



SOIL/SEDIMENT SAMPLE
LOCATIONS. 8/14/03.