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Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776

509.924.9200 fax 509.924.9290 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132 503.906.9200 fax 503.906.9210

**Portland** 

20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

**METRO-REM** 

Project: Soil Characterization

600 NE Grand Ave.

Project Number: None

Reported:

Portland, OR 97232

Project Manager: Elaine Stewart

09/03/03 09:45

#### ANALYTICAL REPORT FOR SAMPLES

To mary Headley

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

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METRO-REM

600 NE Grand Ave.

Project: Soil Characterization

Project Number: None

Reported:

Portland, OR 97232

Project Manager: Elaine Stewart

09/03/03 09:45

## 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 Rece	ived: 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	**		n	n	*		
Lead	20.5	0.446	*	11	#	*		*	,
Mercury	0.109	0.0500	H '	**	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	**.	. "	"		*	<b>#</b>	
North Slough 2 (P3H0458-02) Soil			•		Sampled: 08/	14/03 Rece	ived: 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		11	*	н	#	*	
Lead	15.3	0.394	11	**	**			**	
Mercury	0.0620	0.0463	11	**	EPA 7471A	08/18/03	08/18/03	3080557	
Nickel	22.8	0.787	11	**	EPA 6020	08/21/03	08/28/03	3080716	
Zine	159	1.57		. 11	۳.	н	н	**	
Bybee Lake 1 (P3H0458-03) Soil					Sampled: 08/	14/03 Rece	ived: 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	•	**	**	**		n	
Mercury	0.0793	0.0641	н	**	EPA 7471A	08/18/03	08/18/03	3080557	
Nickel	22.0	0.847	н	*	EPA 6020	08/21/03	08/28/03	3080716	•
Zinc	145	1.69	11	*	Ħ	Ħ	н .	"	*
Bybee Lake 2 (P3H0458-04) Soil					Sampled: 08/1	14/03 Recei	ived: 08/14/0	03	
Arsenic	6.73	0.500	mg/kg dry	1	EPA 6020	08/21/03	08/28/03	3080716	
Copper	29.8	2.00	н	11	н	#	**	#	
Lead	18.4	0.500	**	**	•	**	H	**	
Mercury	0.0467	0.0439	**	н	EPA 7471A	08/18/03	08/18/03	3080557	
Nickel	22.2	1.00	н		EPA 6020	08/21/03	08/28/03	3080716	
Zinc	110	2.00	н		11	"	n	"	

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METRO-REM

Project: Soil Characterization

600 NE Grand Ave.

Project Number: None

Reported:

Portland, OR 97232

Project Manager: Elaine Stewart

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
North Slough 1 (P3H0458-01) Soil		03							
Aldrin	ND	6.70	ug/kg dry	1	EPA 8081A	08/19/03	08/21/03	3080605	
alpha-BHC	ND	6.70	**	••	*	*		Ħ	
beta-BHC .	ND	6.70	**	n		*	*		
delta-BHC	ND	6.70	н	**	*	**	#		
gamma-BHC (Lindane)	ND	6.70	н	**	*	**			
gamma-Chlordane	ND	6.70	*	. *	**	**	• н		
alpha-Chlordane	ND	6.70	n	*	**	m			
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	**	H	*	•	H		
Endosulfan II	ND	6.70	**	**	*			*	
Endosulfan sulfate	ND	6.70	# .	•	•	•	•	Ħ	
Endrin	ND	6.70	**		**		•	H	
Endrin aldehyde	ND	6.70	**	<b>n</b> .	•	**	H	•	
Endrin ketone	ND	6.70	*	•	**	**	H	٠.	
Heptachlor	ND	6.70	•	**	**	*	*	**	
Heptachlor epoxide	ND	6.70	**		•	*	n	•	,
Methoxychlor	ND	13.4		2		*	08/21/03		R-05
Toxaphene	ND	200	m.	1	**	**	08/21/03	**	
Surr: Decachlorobiphenyl Surr: 2,4,5,6-Tetrachloro-m-xylene	100 % 76.8 %	16-149 36-140							

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**METRO-REM** 

Project: Soil Characterization

600 NE Grand Ave.

Project Number: None

Reported:

Portland, OR 97232

Project Manager: Elaine Stewart

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
North Slough 2 (P3H0458-02) Soil					Sampled: 08/	14/03 Rece	ived: 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	11	**		•			
delta-BHC	ND	6.70	*	*	#		**	**	
gamma-BHC (Lindane)	ND	6.70		*	*	**	**	*	
gamma-Chlordane	ND	6.70	*	"				" .	
alpha-Chlordane	ND	6.70	#	**	Ħ	*	"		
Chlordane (tech)	ND	150	**	Ħ	**	#	**	**	
4,4'-DDD	ND	6.70	*	#	**	**	**		•
4,4'-DDE	ND	6.70	*	*	н	**	**	*	• .
4,4'-DDT	ND	13.4	H	2	н	"	08/21/03	•	R-05
Dieldrin	ND	6.70	*	1	H	#	08/21/03	*	
Endosulfan I	ND	6.70	•	н		*		н	
Endosulfan II	ND	6.70	w ·	**	**	**	, н	**	
Endosulfan sulfate	ND	6.70	*		Ħ	H	**	"	
Endrin	ND	6.70	*	*		"	•	*	
Endrin aldehyde	ND	6.70	Ħ	*	•	"	*	н	
Endrin ketone	ND	6.70	, "			*	H	11	
Heptachlor	ND	6.70			н		u u	•	
Heptachlor epoxide	ND	6.70		*	. ••	11	11		
Methoxychlor	ND	13.4		2	••	H	08/21/03		R-05
Toxaphene	ND	200	н	1	, "	**	08/21/03	*	
Surr: Decachlorobiphenyl	90.3 %	16-149		•			٠,		
Surr: 2,4,5,6-Tetrachloro-m-xylene	75.1 %	36-140							_

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**METRO-REM** 

Project: Soil Characterization

600 NE Grand Ave.

Project Number: None

Reported:

Portland, OR 97232

Project Manager: Elaine Stewart

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 1 (P3H0458-03) Soil					03				
Aldrin	ND	6.70	ug/kg dry	1	EPA 8081A	08/19/03	08/21/03	3080605	
alpha-BHC	ND	6.70	**		Ħ	*	**		
beta-BHC	ND	6.70	n		<b>n</b> .	**	*	**	
delta-BHC	ND	6.70	#	**	*	**	*	*	
gamma-BHC (Lindane)	ND	6.70	**		**			**	
gamma-Chlordane	ND	6.70	11	**		**	*	Ħ	
alpha-Chlordane	ND	6.70	**	**	•	**		*	
Chlordane (tech)	ND	150	17	Ħ	H	<b>"</b> .	*		
4,4'-DDD	. ND	6.70		**	*	**		*	
4,4'-DDE	. ND	6.70		**		**			
4,4'-DDT	ND	13.4	*	2		n	08/21/03		R-05
Dieldrin	ND	6.70	*	1	#		08/21/03		
Endosulfan I	ND	6.70	н	*		н			
Endosulfan II	ND	6.70		*		•	*		
Endosulfan sulfate	ND	6.70	n				*	*	
Endrin	ND	6.70			*	*	*	**	
Endrin aldehyde	ND	6.70		**	*	н	H	**	
Endrin ketone	ND	6.70		**	*		*		
Heptachlor	ND	6.70		**	*	**	**	n	
Heptachlor epoxide	ND	6.70	*	**	H			•	
Methoxychlor	ND	. 13.4	•	2	*	w	08/21/03	*	R-05
Toxaphene	ND	200		1	<b>n</b>	*	08/21/03		
Surr: Decachlorobiphenyl Surr: 2,4,5,6-Tetrachloro-m-xylene	96.3 % 73.5 %	16-149 36-140							

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METRO-REM

600 NE Grand Ave.

Project: Soil Characterization

Project Number: None

Reported:

Portland, OR 97232

Project Manager: Elaine Stewart

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	н	**	#	Ħ		*		
delta-BHC	ND	6.70	н	*	н	**		Ħ		
gamma-BHC (Lindane)	ND	6.70	#	Ħ	**	**	• #	•	* .	
gamma-Chlordane	ND	6.70	#	**	**	**	. •	n		
alpha-Chlordane	ND	6.70	#	н	"		*			
Chlordane (tech)	ND	150	*	н	•	. "	*	. ••		
4,4'-DDD	ND	6.70	*	- n	**	**	**	* •		
4,4'-DDE	ND	6.70		. 44		n		**		
4,4'-DDT	ND	13.4	*	2	н	н	08/21/03	*	R-05	
Dieldrin	ND	6.70	н .	1		u	08/21/03	**		
Endosulfan I	ND	6.70	Ħ	**	#	11	Ħ	н		
Endosulfan II	ND	6.70	**	**	**	11	. "	н	* (	
Endosulfan sulfate	ND	6.70	**	**	н .	11	n	н		
Endrin	ND	6.70	*	. #1	*	**	**	H		
Endrin aldehyde	ND	6.70		#	"	"	**	н		
Endrin ketone	ND	6.70	**	**	n	• "	"	н		
Heptachlor	ND	6.70	**	#	n	. "	**	**		
Heptachlor epoxide	ND	6.70		**	11	<b>;</b> **	H	н		
Methoxychlor	ND	13.4		2	•	**	08/21/03	**	R-05	
Toxaphene	ND	200		1	"	**	08/21/03	*		
Surr: Decachlorobiphenyl Surr: 2,4,5,6-Tetrachloro-m-xylene	93.7 % 73.5 %	16-149 36-140						-		

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**METRO-REM** 

Project: Soil Characterization

600 NE Grand Ave.

Project Number: None

Reported:

Portland, OR 97232

Project Manager: Elaine Stewart

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
North Slough 1 (P3H0458-01) Soil					Sampled: 08/	14/03 Rece	eived: 08/14	/03	
Acenaphthene	ND	13.4	ug/kg dry	1	EPA 8270m	08/18/03	08/20/03	3080555	
Acenaphthylene	ND	13.4	**	٠.		**	**		•
Anthracene	ND	13.4	**	•	**	**		**	
Benzo (a) anthracene	ND	13.4	**		*	**	**	*	
Benzo (a) pyrene	ND	13.4	**	*	*	н	*	*	
Benzo (b) fluoranthene	ND	13.4	**	**	#	**	**	•	•
Benzo (ghi) perylene	ND	13.4	**	**	H	#	**		
Benzo (k) fluoranthene	ND	13.4	**	Ħ	*	н	**	n	
Chrysene	ND	13.4	**	**	#	п		•	
Dibenzo (a,h) anthracene	ND	13.4	н	. **	#	*	. *		
Fluoranthene	ND	13.4	11	**	11	**	**	•	
Fluorene	ND	13.4	11	H	**	**	*		
Indeno (1,2,3-cd) pyrene	ND	13.4	**	н		*	*	*	
Naphthalene .	ND	13.4	. н	**	*	*		*	
Phenanthrene	ND	13.4	17	**			н	*	
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: 08/1	4/03 Rece	ived: 08/14/	03	
Acenaphthene	ND	13.4	ug/kg dry	1 -	EPA 8270m	08/18/03	08/21/03	3080555	
Acenaphthylene	ND	13.4	N	*	*	**	*	*	
Anthracene	ND	13.4	n	*	•	•	•	*	,
Benzo (a) anthracene	ND	13.4		*	n	•		#	•
Benzo (a) pyrene	ND	13.4	**	H	н.	•	**	*	
Benzo (b) fluoranthene	ND	13.4		#	*	. •	•	•	
Benzo (ghi) perylene	ND	13.4		•	**	Ħ	•		
Benzo (k) fluoranthene	ND	13.4				*	•	+	
Chrysene	ND	13.4	•	*	**	•	*		
Dibenzo (a,h) anthracene	ND	13.4	Ħ	*	•		*		
Fluoranthene	ND	13.4			**	•	**		
Fluorene	ND	13.4			•	•	**		
Indeno (1,2,3-cd) pyrene	ND	13.4	**	**		**	**	*	
Naphthalene	ND	13.4	**	H	•	**	,,	**	
Phenanthrene	ND	13.4		Ħ	*		**	**	
Pyrene	ND	13.4		*		**	**	**	

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METRO-REM

Project: Soil Characterization

Reported:

600 NE Grand Ave. Portland, OR 97232 Project Number: None

Project Manager: Elaine Stewart

09/03/03 09:45

## Polynuclear Aromatic Compounds per EPA 8270M-SIM

### North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepa	red Analyzed	Batch	Notes
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: 08/1	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	**		w .	н	**	**	
Benzo (a) anthracene	ND	13.4	**	H	•	**		**	
Benzo (a) pyrene	. ND	13.4	47	H	**	**		**	
Benzo (b) fluoranthene	ND	13.4	**	**	н		*	*	R-08
Benzo (ghi) perylene	ND	13.4	*	**	н	11	#	#	
Benzo (k) fluoranthene	ND	13.4	**	•	**		. "	**	R-08
Chrysene	ND	13.4	н .	. "	**		. "	**	
Dibenzo (a,h) anthracene	ND	13.4	**	H	*		**	н	
Fluoranthene	ND	13.4	**	٠.	н	, #	. "	н	
Fluorene	ND	13.4	" .	**	н .	#	**		
Indeno (1,2,3-cd) pyrene	ND	13.4	. *	**	**	н	**		•
Naphthalene	ND	13.4	*	**	**	#	**	· •	
Phenanthrene	ND	13.4	**	**	"	**			
Pyrene	ND	13.4	**	#	•	**	Ħ		
Surr: Fluorene-d10	110%	40-150							
Surr: Pyrene-d10	140 %	40-150					-		
Surr: Benzo (a) pyrene-d12	125 %	40-150			9	•			

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503.906.9200 fax 503.906.9210

20332 Empire Avenue, Sulte F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

**METRO-REM** 

Project: Soil Characterization

600 NE Grand Ave.

Project Number: None

Reported:

Portland, OR 97232

Project Manager: Elaine Stewart

09/03/03 09:45

# Polynuclear Aromatic Compounds per EPA 8270M-SIM

## North Creek Analytical - Portland

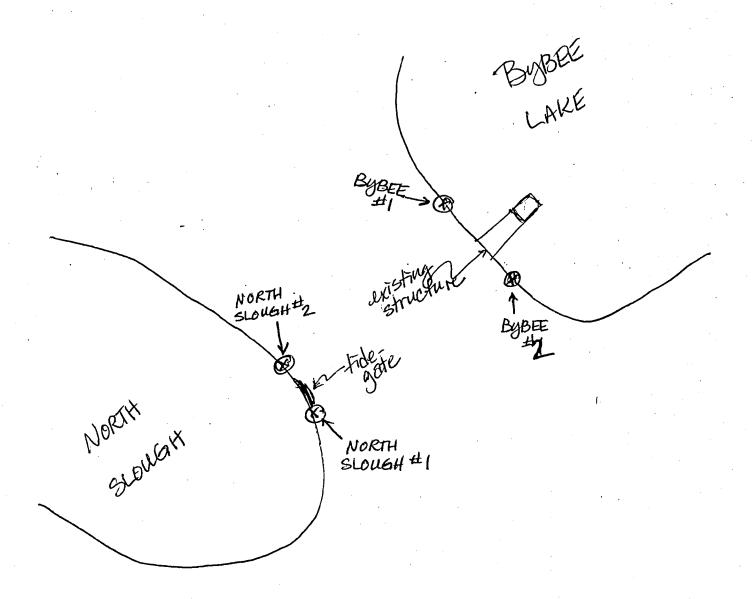
		Reporting							
Analyte	Result	Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
Bybee Lake 2 (P3H0458-04) Soil					Sampled: 08/1	14/03 Rece	ived: 08/14/	03	•
Acenaphthene	ND	13.4	ug/kg dry	1	EPA 8270m	08/18/03	08/21/03	3080555	
Acenaphthylene	ND	13.4	**	•	*	•	*	۳.	
Anthracene	ND	13.4	**	* .	*	*	•	. #	
Benzo (a) anthracene	ND	13.4	**	*	**	**	*	#	
Benzo (a) pyrene	ND	13.4	*	*	*	•	•	**	
Benzo (b) fluoranthene	ND	13.4	*	•	. **	Ħ	**	**	
Benzo (ghi) perylene	ND	13.4	*		•	*	•	*	
Benzo (k) fluoranthene	ND	13.4	**	*	•	*	*	*	
Chrysene	ND	13.4	*	*	•	Ħ	*	*	
Dibenzo (a,h) anthracene	, ND	13.4	*	н	•	**	•	*	
Fluoranthene	ND	13.4	Ħ	*		•	**	**	
Fluorene	ND	13.4	**	*	**	H	*	*	
Indeno (1,2,3-cd) pyrene	ND	13.4	**	**	•	*	•	**	
Naphthalene	ND	13.4	m.	*	•	m	•	*	
Phenanthrene	ND	13.4	**	*	*	**	*	*	
Pyrene	ND	13.4	*			<b>H</b>	#	**	
Surr: Fluorene-d10	105 %	40-150							
Surr: Pyrene-d10	136 %	40-150							•
Surr: Benzo (a) pyrene-d12	133 %	40-150							

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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

Crystal Jones, Project Manager

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