

LABORATORY REPORT

Prepared For: Northgate Environmental Management
1100 Quail Street Suite 102
Newport Beach, CA 92660
Attention: Cindy Arnold

Project: Tronox - Henderson
2027-07-21

Sampled: 12/08/10
Received: 12/10/10
Issued: 12/14/10 16:54

NELAP #01108CA California ELAP#2706 CSDLAC #10256 AZ #AZ0671 NV #CA01531

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This entire report was reviewed and approved for release.*

SAMPLE CROSS REFERENCE

LABORATORY ID

ITL1090-01

CLIENT ID

SW-120910

MATRIX

Water

Reviewed By:



TestAmerica Irvine

Sushmitha Reddy For Amy Harris
Project Manager

Northgate Environmental Management
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Project ID: Tronox - Henderson
 2027-07-21
 Report Number: ITL1090

Sampled: 12/08/10
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EXTRACTABLE FUEL HYDROCARBONS (EPA 3510C/EPA 8015B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITL1090-01 (SW-120910 - Water)									P4
Reporting Units: mg/l									
DRO (C10-C28)	EPA 8015B	10L1279	0.040	0.10	0.13	2	12/10/10	12/11/10	
EFH (C24- C36)	EPA 8015B	10L1279	0.040	0.10	0.093	2	12/10/10	12/11/10	J
EFH (C10 - C40)	EPA 8015B	10L1279	0.040	0.10	0.19	2	12/10/10	12/11/10	
<i>Surrogate: n-Octacosane (45-120%)</i>					<i>104 %</i>				

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POLYNUCLEAR AROMATIC HYDROCARBONS BY GC/MS (EPA 8270C)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITL1090-01 (SW-120910 - Water)									P4, RL4
Reporting Units: ug/l									
Acenaphthene	EPA 8270C-SIM	10L1293	0.10	0.40	ND	2	12/10/10	12/11/10	
Acenaphthylene	EPA 8270C-SIM	10L1293	0.10	0.40	ND	2	12/10/10	12/11/10	
Anthracene	EPA 8270C-SIM	10L1293	0.10	0.40	ND	2	12/10/10	12/11/10	
Benzo(a)anthracene	EPA 8270C-SIM	10L1293	0.10	0.40	ND	2	12/10/10	12/11/10	
Benzo(a)pyrene	EPA 8270C-SIM	10L1293	0.10	0.40	ND	2	12/10/10	12/11/10	
Benzo(b)fluoranthene	EPA 8270C-SIM	10L1293	0.10	0.40	ND	2	12/10/10	12/11/10	
Benzo(g,h,i)perylene	EPA 8270C-SIM	10L1293	0.10	0.40	ND	2	12/10/10	12/11/10	
Benzo(k)fluoranthene	EPA 8270C-SIM	10L1293	0.10	0.40	ND	2	12/10/10	12/11/10	
Chrysene	EPA 8270C-SIM	10L1293	0.10	0.40	ND	2	12/10/10	12/11/10	
Dibenz(a,h)anthracene	EPA 8270C-SIM	10L1293	0.10	0.40	ND	2	12/10/10	12/11/10	
Fluoranthene	EPA 8270C-SIM	10L1293	0.10	0.40	ND	2	12/10/10	12/11/10	
Fluorene	EPA 8270C-SIM	10L1293	0.10	0.40	ND	2	12/10/10	12/11/10	
Indeno(1,2,3-cd)pyrene	EPA 8270C-SIM	10L1293	0.10	0.40	ND	2	12/10/10	12/11/10	
Naphthalene	EPA 8270C-SIM	10L1293	0.10	0.40	ND	2	12/10/10	12/11/10	
Phenanthrene	EPA 8270C-SIM	10L1293	0.10	0.40	ND	2	12/10/10	12/11/10	
Pyrene	EPA 8270C-SIM	10L1293	0.10	0.40	ND	2	12/10/10	12/11/10	
Surrogate: 2-Fluorobiphenyl (50-120%)					66 %				
Surrogate: Nitrobenzene-d5 (45-120%)					78 %				
Surrogate: Terphenyl-d14 (50-125%)					74 %				

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METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITL1090-01 (SW-120910 - Water)									
Reporting Units: mg/l									
Aluminum	EPA 6010B	10L1365	0.040	0.050	0.31	1	12/11/10	12/13/10	
Mercury	EPA 7470A	10L1463	0.00010	0.00020	0.00033	1	12/13/10	12/13/10	
Boron	EPA 6010B	10L1365	0.020	0.050	12	1	12/11/10	12/13/10	
Iron	EPA 6010B	10L1365	0.015	0.020	0.17	1	12/11/10	12/13/10	
Magnesium	EPA 6010B	10L1365	0.012	0.020	7.5	1	12/11/10	12/13/10	
Manganese	EPA 6010B	10L1365	0.0070	0.020	1.8	1	12/11/10	12/13/10	
Potassium	EPA 6010B	10L1365	0.37	0.50	20	1	12/11/10	12/13/10	
Silver	EPA 6010B	10L1365	0.0060	0.010	ND	1	12/11/10	12/13/10	
Sodium	EPA 6010B	10L1365	19	50	5100	100	12/11/10	12/13/10	
Strontium	EPA 6010B	10L1365	0.0050	0.020	5.2	1	12/11/10	12/13/10	
Tin	EPA 6010B	10L1365	0.012	0.10	ND	1	12/11/10	12/13/10	
Titanium	EPA 6010B	10L1365	0.0020	0.0050	0.010	1	12/11/10	12/13/10	
Tungsten	EPA 6010B	10L1365	0.066	1.0	ND	1	12/11/10	12/14/10	

Sample ID: ITL1090-01 (SW-120910 - Water)

Reporting Units: ug/l

Uranium	EPA 6020	10L1366	0.050	0.10	0.52	1	12/11/10	12/13/10	
Antimony	EPA 6020	10L1366	0.10	2.0	0.62	1	12/11/10	12/13/10	J
Arsenic	EPA 6020	10L1366	0.050	5.0	5.0	1	12/11/10	12/13/10	
Barium	EPA 6020	10L1366	0.050	1.0	81	1	12/11/10	12/13/10	
Beryllium	EPA 6020	10L1366	0.050	1.0	ND	1	12/11/10	12/13/10	M2
Cadmium	EPA 6020	10L1366	0.050	1.0	ND	1	12/11/10	12/13/10	
Chromium	EPA 6020	10L1366	0.50	2.0	6.6	1	12/11/10	12/13/10	
Cobalt	EPA 6020	10L1366	0.050	1.0	1.8	1	12/11/10	12/13/10	
Copper	EPA 6020	10L1366	0.50	2.0	7.2	1	12/11/10	12/13/10	
Lead	EPA 6020	10L1366	0.050	1.0	1.2	1	12/11/10	12/13/10	
Molybdenum	EPA 6020	10L1366	0.050	2.0	17	1	12/11/10	12/13/10	
Nickel	EPA 6020	10L1366	0.050	2.0	3.4	1	12/11/10	12/13/10	
Selenium	EPA 6020	10L1366	0.50	5.0	9.6	1	12/11/10	12/13/10	M1
Silver	EPA 6020	10L1366	0.050	5.0	0.39	1	12/11/10	12/13/10	L1, J
Thallium	EPA 6020	10L1366	0.050	1.0	0.062	1	12/11/10	12/13/10	J
Vanadium	EPA 6020	10L1366	0.050	5.0	45	1	12/11/10	12/13/10	
Zinc	EPA 6020	10L1366	2.0	10	26	1	12/11/10	12/13/10	M2

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METHOD BLANK/QC DATA

EXTRACTABLE FUEL HYDROCARBONS (EPA 3510C/EPA 8015B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10L1279 Extracted: 12/10/10											
Blank Analyzed: 12/10/2010 (10L1279-BLK1)											
DRO (C10-C28)	ND	0.050	0.020	mg/l							
Surrogate: n-Octacosane	0.179			mg/l	0.200		89	45-120			
LCS Analyzed: 12/10/2010 (10L1279-BS1)											
DRO (C10-C28)	0.800	0.050	0.020	mg/l	1.00		80	40-115			MNR1
Surrogate: n-Octacosane	0.184			mg/l	0.200		92	45-120			
LCS Dup Analyzed: 12/10/2010 (10L1279-BSD1)											
DRO (C10-C28)	0.743	0.050	0.020	mg/l	1.00		74	40-115	7	25	
Surrogate: n-Octacosane	0.177			mg/l	0.200		88	45-120			

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POLYNUCLEAR AROMATIC HYDROCARBONS BY GC/MS (EPA 8270C)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10L1293 Extracted: 12/10/10											
Blank Analyzed: 12/11/2010 (10L1293-BLK1)											
Acenaphthene	ND	0.20	0.050	ug/l							
Acenaphthylene	ND	0.20	0.050	ug/l							
Anthracene	ND	0.20	0.050	ug/l							
Benzo(a)anthracene	ND	0.20	0.050	ug/l							
Benzo(a)pyrene	ND	0.20	0.050	ug/l							
Benzo(b)fluoranthene	ND	0.20	0.050	ug/l							
Benzo(g,h,i)perylene	ND	0.20	0.050	ug/l							
Benzo(k)fluoranthene	ND	0.20	0.050	ug/l							
Chrysene	ND	0.20	0.050	ug/l							
Dibenz(a,h)anthracene	ND	0.20	0.050	ug/l							
Fluoranthene	ND	0.20	0.050	ug/l							
Fluorene	ND	0.20	0.050	ug/l							
Indeno(1,2,3-cd)pyrene	ND	0.20	0.050	ug/l							
Naphthalene	ND	0.20	0.050	ug/l							
Phenanthrene	ND	0.20	0.050	ug/l							
Pyrene	ND	0.20	0.050	ug/l							
Surrogate: 2-Fluorobiphenyl	0.823			ug/l	1.00		82	50-120			
Surrogate: Nitrobenzene-d5	0.893			ug/l	1.00		89	45-120			
Surrogate: Terphenyl-d14	0.890			ug/l	1.00		89	50-125			
LCS Analyzed: 12/11/2010 (10L1293-BS1)											
Acenaphthene	0.773	0.20	0.050	ug/l	1.00		77	60-120			MNR1
Acenaphthylene	0.787	0.20	0.050	ug/l	1.00		79	60-120			
Anthracene	0.891	0.20	0.050	ug/l	1.00		89	65-120			
Benzo(a)anthracene	0.907	0.20	0.050	ug/l	1.00		91	65-120			
Benzo(a)pyrene	0.864	0.20	0.050	ug/l	1.00		86	55-130			
Benzo(b)fluoranthene	0.863	0.20	0.050	ug/l	1.00		86	55-125			
Benzo(g,h,i)perylene	0.807	0.20	0.050	ug/l	1.00		81	45-135			
Benzo(k)fluoranthene	0.868	0.20	0.050	ug/l	1.00		87	50-125			
Chrysene	0.866	0.20	0.050	ug/l	1.00		87	65-120			
Dibenz(a,h)anthracene	0.744	0.20	0.050	ug/l	1.00		74	50-135			
Fluoranthene	0.896	0.20	0.050	ug/l	1.00		90	60-120			
Fluorene	0.824	0.20	0.050	ug/l	1.00		82	65-120			
Indeno(1,2,3-cd)pyrene	0.999	0.20	0.050	ug/l	1.00		100	45-135			
Naphthalene	0.746	0.20	0.050	ug/l	1.00		75	55-120			
Phenanthrene	0.762	0.20	0.050	ug/l	1.00		76	65-120			

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POLYNUCLEAR AROMATIC HYDROCARBONS BY GC/MS (EPA 8270C)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10L1293 Extracted: 12/10/10											
LCS Analyzed: 12/11/2010 (10L1293-BS1)											
Pyrene	0.975	0.20	0.050	ug/l	1.00		97	55-125			MNR1
Surrogate: 2-Fluorobiphenyl	0.689			ug/l	1.00		69	50-120			
Surrogate: Nitrobenzene-d5	0.814			ug/l	1.00		81	45-120			
Surrogate: Terphenyl-d14	0.892			ug/l	1.00		89	50-125			
LCS Dup Analyzed: 12/11/2010 (10L1293-BSD1)											
Acenaphthene	0.732	0.20	0.050	ug/l	1.00		73	60-120	5	20	
Acenaphthylene	0.802	0.20	0.050	ug/l	1.00		80	60-120	2	20	
Anthracene	0.867	0.20	0.050	ug/l	1.00		87	65-120	3	20	
Benzo(a)anthracene	0.911	0.20	0.050	ug/l	1.00		91	65-120	0.4	20	
Benzo(a)pyrene	0.861	0.20	0.050	ug/l	1.00		86	55-130	0.4	25	
Benzo(b)fluoranthene	0.864	0.20	0.050	ug/l	1.00		86	55-125	0.09	25	
Benzo(g,h,i)perylene	0.765	0.20	0.050	ug/l	1.00		76	45-135	5	25	
Benzo(k)fluoranthene	0.856	0.20	0.050	ug/l	1.00		86	50-125	1	20	
Chrysene	0.857	0.20	0.050	ug/l	1.00		86	65-120	1	20	
Dibenz(a,h)anthracene	0.725	0.20	0.050	ug/l	1.00		73	50-135	3	25	
Fluoranthene	0.922	0.20	0.050	ug/l	1.00		92	60-120	3	20	
Fluorene	0.817	0.20	0.050	ug/l	1.00		82	65-120	0.9	20	
Indeno(1,2,3-cd)pyrene	0.968	0.20	0.050	ug/l	1.00		97	45-135	3	25	
Naphthalene	0.769	0.20	0.050	ug/l	1.00		77	55-120	3	20	
Phenanthrene	0.771	0.20	0.050	ug/l	1.00		77	65-120	1	20	
Pyrene	0.942	0.20	0.050	ug/l	1.00		94	55-125	3	25	
Surrogate: 2-Fluorobiphenyl	0.722			ug/l	1.00		72	50-120			
Surrogate: Nitrobenzene-d5	0.833			ug/l	1.00		83	45-120			
Surrogate: Terphenyl-d14	0.851			ug/l	1.00		85	50-125			

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METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 10L1365 Extracted: 12/11/10											
Blank Analyzed: 12/13/2010-12/14/2010 (10L1365-BLK1)											
Aluminum	ND	0.050	0.040	mg/l							
Boron	0.0239	0.050	0.020	mg/l							J
Iron	ND	0.020	0.015	mg/l							
Magnesium	ND	0.020	0.012	mg/l							
Manganese	ND	0.020	0.0070	mg/l							
Potassium	ND	0.50	0.37	mg/l							
Silver	ND	0.010	0.0060	mg/l							
Sodium	ND	0.50	0.19	mg/l							
Strontium	ND	0.020	0.0050	mg/l							
Tin	ND	0.10	0.012	mg/l							
Titanium	ND	0.0050	0.0020	mg/l							
Tungsten	ND	1.0	0.066	mg/l							
LCS Analyzed: 12/13/2010-12/14/2010 (10L1365-BS1)											
Aluminum	1.05	0.050	0.040	mg/l	1.00		105	80-120			
Boron	0.931	0.050	0.020	mg/l	1.00		93	80-120			
Iron	0.979	0.020	0.015	mg/l	1.00		98	80-120			
Magnesium	5.07	0.020	0.012	mg/l	5.00		101	80-120			
Manganese	0.994	0.020	0.0070	mg/l	1.00		99	80-120			
Potassium	9.93	0.50	0.37	mg/l	10.0		99	80-120			
Silver	0.473	0.010	0.0060	mg/l	0.500		95	80-120			
Sodium	9.96	0.50	0.19	mg/l	10.0		100	80-120			
Strontium	0.999	0.020	0.0050	mg/l	1.00		100	80-120			
Tin	0.983	0.10	0.012	mg/l	1.00		98	80-120			
Titanium	0.991	0.0050	0.0020	mg/l	1.00		99	80-120			
Tungsten	20.1	1.0	0.066	mg/l	20.0		100	80-120			
LCS Dup Analyzed: 12/13/2010-12/14/2010 (10L1365-BSD1)											
Aluminum	1.06	0.050	0.040	mg/l	1.00		106	80-120	0.3	20	
Boron	0.916	0.050	0.020	mg/l	1.00		92	80-120	2	20	
Iron	0.976	0.020	0.015	mg/l	1.00		98	80-120	0.3	20	
Magnesium	5.07	0.020	0.012	mg/l	5.00		101	80-120	0.1	20	
Manganese	0.993	0.020	0.0070	mg/l	1.00		99	80-120	0.03	20	
Potassium	10.1	0.50	0.37	mg/l	10.0		101	80-120	2	20	
Silver	0.481	0.010	0.0060	mg/l	0.500		96	80-120	2	20	
Sodium	10.3	0.50	0.19	mg/l	10.0		103	80-120	3	20	

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METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10L1365 Extracted: 12/11/10											
LCS Dup Analyzed: 12/13/2010-12/14/2010 (10L1365-BSD1)											
Strontium	1.04	0.020	0.0050	mg/l	1.00		104	80-120	4	20	
Tin	0.990	0.10	0.012	mg/l	1.00		99	80-120	0.7	20	
Titanium	0.996	0.0050	0.0020	mg/l	1.00		100	80-120	0.5	20	
Tungsten	20.0	1.0	0.066	mg/l	20.0		100	80-120	0.6	20	

Batch: 10L1366 Extracted: 12/11/10

Blank Analyzed: 12/13/2010 (10L1366-BLK1)

Uranium	ND	0.10	0.050	ug/l							
Antimony	ND	2.0	0.10	ug/l							
Arsenic	ND	5.0	0.050	ug/l							
Barium	ND	1.0	0.050	ug/l							
Beryllium	ND	1.0	0.050	ug/l							
Cadmium	ND	1.0	0.050	ug/l							
Chromium	ND	2.0	0.50	ug/l							
Cobalt	ND	1.0	0.050	ug/l							
Copper	ND	2.0	0.50	ug/l							
Lead	ND	1.0	0.050	ug/l							
Molybdenum	0.104	2.0	0.050	ug/l							J
Nickel	0.215	2.0	0.050	ug/l							J
Selenium	ND	5.0	0.50	ug/l							
Silver	ND	5.0	0.050	ug/l							
Thallium	ND	1.0	0.050	ug/l							
Vanadium	0.111	5.0	0.050	ug/l							J
Zinc	ND	10	2.0	ug/l							

LCS Analyzed: 12/13/2010 (10L1366-BS1)

Uranium	86.6	0.10	0.050	ug/l	80.0		108	85-115			
Antimony	88.4	2.0	0.10	ug/l	80.0		111	80-120			
Arsenic	86.7	5.0	0.050	ug/l	80.0		108	80-120			
Barium	86.2	1.0	0.050	ug/l	80.0		108	80-120			
Beryllium	83.4	1.0	0.050	ug/l	80.0		104	80-120			
Cadmium	85.1	1.0	0.050	ug/l	80.0		106	80-120			
Chromium	86.6	2.0	0.50	ug/l	80.0		108	80-120			
Cobalt	85.8	1.0	0.050	ug/l	80.0		107	80-120			
Copper	86.9	2.0	0.50	ug/l	80.0		109	80-120			

TestAmerica Irvine

Sushmitha Reddy For Amy Harris
 Project Manager

Northgate Environmental Management
 1100 Quail Street Suite 102
 Newport Beach, CA 92660
 Attention: Cindy Arnold

Project ID: Tronox - Henderson
 2027-07-21
 Report Number: ITL1090

Sampled: 12/08/10
 Received: 12/10/10

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10L1366 Extracted: 12/11/10											
LCS Analyzed: 12/13/2010 (10L1366-BS1)											
Lead	86.3	1.0	0.050	ug/l	80.0		108	80-120			
Molybdenum	88.5	2.0	0.050	ug/l	80.0		111	80-120			
Nickel	86.6	2.0	0.050	ug/l	80.0		108	80-120			
Selenium	86.5	5.0	0.50	ug/l	80.0		108	80-120			
Silver	97.7	5.0	0.050	ug/l	80.0		122	80-120			LI
Thallium	85.0	1.0	0.050	ug/l	80.0		106	80-120			
Vanadium	85.6	5.0	0.050	ug/l	80.0		107	80-120			
Zinc	86.8	10	2.0	ug/l	80.0		108	80-120			
Matrix Spike Analyzed: 12/13/2010 (10L1366-MS1)											
						Source: ITL1090-01					
Uranium	80.4	0.10	0.050	ug/l	80.0	0.518	100	70-130			
Antimony	91.6	2.0	0.10	ug/l	80.0	0.616	114	75-125			
Arsenic	101	5.0	0.050	ug/l	80.0	4.95	121	75-125			
Barium	171	1.0	0.050	ug/l	80.0	80.5	113	75-125			
Beryllium	61.5	1.0	0.050	ug/l	80.0	ND	77	75-125			
Cadmium	79.0	1.0	0.050	ug/l	80.0	ND	99	75-125			
Chromium	84.2	2.0	0.50	ug/l	80.0	6.56	97	75-125			
Cobalt	72.6	1.0	0.050	ug/l	80.0	1.82	88	75-125			
Copper	73.0	2.0	0.50	ug/l	80.0	7.20	82	75-125			
Lead	74.1	1.0	0.050	ug/l	80.0	1.17	91	75-125			
Molybdenum	108	2.0	0.050	ug/l	80.0	16.6	114	75-125			
Nickel	71.7	2.0	0.050	ug/l	80.0	3.41	85	75-125			
Selenium	129	5.0	0.50	ug/l	80.0	9.58	149	75-125			MI
Silver	83.3	5.0	0.050	ug/l	80.0	0.391	104	75-125			
Thallium	75.7	1.0	0.050	ug/l	80.0	0.0621	95	75-125			
Vanadium	129	5.0	0.050	ug/l	80.0	45.3	104	75-125			
Zinc	81.4	10	2.0	ug/l	80.0	26.0	69	75-125			M2

TestAmerica Irvine

Sushmitha Reddy For Amy Harris
 Project Manager

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 2027-07-21
 Report Number: ITL1090

Sampled: 12/08/10
 Received: 12/10/10

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10L1366 Extracted: 12/11/10											
Matrix Spike Dup Analyzed: 12/13/2010 (10L1366-MSD1)						Source: ITL1090-01					
Uranium	76.9	0.10	0.050	ug/l	80.0	0.518	96	70-130	4	20	
Antimony	87.9	2.0	0.10	ug/l	80.0	0.616	109	75-125	4	20	
Arsenic	97.4	5.0	0.050	ug/l	80.0	4.95	116	75-125	4	20	
Barium	162	1.0	0.050	ug/l	80.0	80.5	102	75-125	5	20	
Beryllium	59.5	1.0	0.050	ug/l	80.0	ND	74	75-125	3	20	M2
Cadmium	75.8	1.0	0.050	ug/l	80.0	ND	95	75-125	4	20	
Chromium	80.7	2.0	0.50	ug/l	80.0	6.56	93	75-125	4	20	
Cobalt	70.1	1.0	0.050	ug/l	80.0	1.82	85	75-125	4	20	
Copper	70.8	2.0	0.50	ug/l	80.0	7.20	80	75-125	3	20	
Lead	71.1	1.0	0.050	ug/l	80.0	1.17	87	75-125	4	20	
Molybdenum	104	2.0	0.050	ug/l	80.0	16.6	110	75-125	3	20	
Nickel	68.9	2.0	0.050	ug/l	80.0	3.41	82	75-125	4	20	
Selenium	120	5.0	0.50	ug/l	80.0	9.58	138	75-125	7	20	M1
Silver	81.4	5.0	0.050	ug/l	80.0	0.391	101	75-125	2	20	
Thallium	73.3	1.0	0.050	ug/l	80.0	0.0621	92	75-125	3	20	
Vanadium	124	5.0	0.050	ug/l	80.0	45.3	99	75-125	4	20	
Zinc	78.5	10	2.0	ug/l	80.0	26.0	66	75-125	4	20	M2

Batch: 10L1463 Extracted: 12/13/10

Blank Analyzed: 12/13/2010 (10L1463-BLK1)

Mercury	ND	0.00020	0.00010	mg/l
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LCS Analyzed: 12/13/2010 (10L1463-BS1)

Mercury	0.00833	0.00020	0.00010	mg/l	0.00800	104	80-120
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Matrix Spike Analyzed: 12/13/2010 (10L1463-MS1)

Mercury	0.00850	0.00020	0.00010	mg/l	0.00800	0.000332	102	70-130
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TestAmerica Irvine

Sushmitha Reddy For Amy Harris
 Project Manager

Northgate Environmental Management
1100 Quail Street Suite 102
Newport Beach, CA 92660
Attention: Cindy Arnold

Project ID: Tronox - Henderson
2027-07-21
Report Number: ITL1090

Sampled: 12/08/10
Received: 12/10/10

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10L1463 Extracted: 12/13/10											
Matrix Spike Dup Analyzed: 12/13/2010 (10L1463-MSD1)						Source: ITL1090-01					
Mercury	0.00845	0.00020	0.00010	mg/l	0.00800	0.000332	102	70-130	0.6	20	

TestAmerica Irvine

Sushmitha Reddy For Amy Harris
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

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Northgate Environmental Management
1100 Quail Street Suite 102
Newport Beach, CA 92660
Attention: Cindy Arnold

Project ID: Tronox - Henderson
2027-07-21
Report Number: ITL1090

Sampled: 12/08/10
Received: 12/10/10

DATA QUALIFIERS AND DEFINITIONS

- J** Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- L1** Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above acceptance limits.
- M1** The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M2** The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- MNR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- P4** Sample received in inappropriate sample container.
- RL4** Reporting limit raised due to insufficient sample volume.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

ADDITIONAL COMMENTS

For Extractable Fuel Hydrocarbons (EFH, DRO, ORO) :

Unless otherwise noted, Extractable Fuel Hydrocarbons (EFH, DRO, ORO) are quantitated against a Diesel Fuel Standard.

TestAmerica Irvine

Sushmitha Reddy For Amy Harris
Project Manager

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Northgate Environmental Management
1100 Quail Street Suite 102
Newport Beach, CA 92660
Attention: Cindy Arnold

Project ID: Tronox - Henderson
2027-07-21
Report Number: ITL1090

Sampled: 12/08/10
Received: 12/10/10

Certification Summary

TestAmerica Irvine

Method	Matrix	Nelac	California
EDD + Level 4	Water	N/A	N/A
EPA 6010B	Water	X	X
EPA 6020	Water	X	X
EPA 7470A	Water	X	X
EPA 8015B	Water	X	X
EPA 8270C-SIM	Water	X	X
Preservation	Water	N/A	N/A

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Irvine

Sushmitha Reddy For Amy Harris
Project Manager

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FTC 1090

CHAIN-OF-CUSTODY / Analytical Request Document
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed and accurate.

northgate
environmental management, inc.
24411 Ridge Route Drive, Suite 130
Laguna Hills, California 92653

Required Project Information:
 Site ID #: **TRONOX LLC, HENDERSON**
 Project #: **2027.07.21**
 Site Address: **1600 W Lake Mead Pkwy**
 City: **Henderson** State: **NV** Zip: **89016**
 Lab Name: **Test America Laboratories Inc**
 Address: **17481 Deorian Ave, Suite 100**
 Irvine, California 92614
 Lab P#: **Sushmitha Reddy**
 Phone/Fac: **949-381-1022**
 Lab PM email: **Sushmitha.Reddy@testamericainc.com**
 Phone/Fax: **(949)378-7004**
 Applicable Lab Quote #:
 Site PM Email: **derrick.willie@ngem.com**

Required Invoice Information:
 Send Invoice to:
 Address: **PO Box 65**
 City/State: **Henderson, NV 89009** Phone #: **(949) 280-8283**
 PO #

Send EDD to: **Frank.Hagar@ngem.com**
 CC Hardcopy report to: **PDF Electronic Version Only - FTP Upload**
 CC Hardcopy report to:

COC # 02027.02.3517
 Total # of Samples: **1** Event Complete?

Regular	Rush	X	Mark One
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

ITEM #	SAMPLE ID Samples IDs MUST BE UNIQUE	SAMPLE LOCATION	MATRIX CODE	G-GRAB C-COMP	SAMPLE TYPE	SAMPLE DATE	SAMPLE TIME	# OF CONTAINERS	Comments/Lab Sample I.D.	Analysis	Sample Receipt Conditions						
											Temp in OC	Samples on Ice?	Sample Intact?	Temp Blank?			
1	SW-120810	RZ-D	WG	G	N	12/08/10	22:17	3	Pipeline Response	X							
										SW 246 6010 6020 Totals							
										QAPP List							
										UPRES							
										Preservative							
										Filter							

Handwritten note:
 12/10/10
 12/10/10
 12/10/10

Additional Comments/Special Instructions:
24-HOUR RUSH TAT
 Cindy Arnold will provide full metals list

Signature and Date:
 Signature: *[Signature]* Date Signed: **12/09/2010**
 Name: **Patrick Fertinger, NGEM**

Tracking #: **7724**

Sample Receipt Conditions:
 Temp in OC: Y/N
 Samples on Ice?: Y/N
 Sample Intact?: Y/N
 Temp Blank?: Y/N

10/07

*ITL 1090 ADD IN***ADDITIONAL ANALYSIS REQUEST FORM**Today's Date: 12/10 Del Mar Analytical Project Manager: *Such*Request via: telephone chain of custody form fax transmission E-mail otherClient: *Nortgate* Contact: *Cindy Arnold*Project: *ITL1090*

Date Sampled: _____ Date Received: _____

Status: in progress completed received today received yesterday on hold other**SAMPLE
NUMBER****SAMPLE
DESCRIPTION****ANALYSIS
REQUESTED****SPECIAL
REQUIREMENTS***ITL1090-01**8240-SIMP ARES**Use SDOMP-ly**TPH- DEO/MRO**Add in.**Prs: Cancel Platinum.*TURNAROUND STATUS: Same Day 24hr 48hr 3days 5days Standard No Rush Charge

