Site Inspection Report
For
Steamtown USA
(Former)
Rockingham, Vermont

EPA ID # VTD988367025

March 1994

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I. Introduction

The Hazardous Materials Management Division (HMMD), Department of Environmental Conservation (DEC), conducted a Site Investigation (SI) at the former Steamtown U.S.A. property located in Rockingham, Vermont, under a cooperative agreement with the Environmental Protection Agency (EPA). The purpose of the SI is to collect information concerning conditions at the former Steamtown USA property, to assess the threat to human health and the environment, and to determine the need for further investigation under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) as amended or other authority. The scope of the SI included reviewing previous file information, sampling of waste and environmental media to test preliminary assessment (PA) hypotheses, document HRS factor values and scores, and collecting additional non-sampling information.

2. Site Description

2.1 Location

The Former Steamtown U.S.A. property is located off Route 5 in the town of Rockingham, Vermont. The geographic coordinates are 43° 09'46.2" north latitude and 72° 27' 12.0" west longitude. The elevation is approximately 93 meters (300 feet) above mean sea level. The site is bounded on the north and west by the Bellows Falls Industrial Park and private residents, the east by the Connecticut River, and the south by Albees Cove (Figure 1,2) (1).

One CERCLIS site is located within a one mile radius of the Former Steamtown property. The Whitney Blake Company of Vermont (VTD064440365) is located across the railroad tracks northwest of the site. The former Simmonds Precision property (VT Site # 911039), currently the site of a Ben and Jerry's ice cream distribution center is located west of the Steamtown property (Figure 1,2) (2).

2.2 Site Description

The property encompasses approximately 85 acres. The majority of the property is zoned commercial-industrial. Portions of the property (wetlands, 100 foot zone along river) are zoned recreation conservation (3).

Structures identified on site at the southern portion of the property include a gift shop, diner, water tower, and a paved parking area east of the gift shop/diner. Structures identified on the northern portion of the site include a large railcar maintenance shed, a dismantled railroad turntable, an open shed which was being used for storage of farm equipment and a small storage shed. In general all structures appeared to be in a state of disrepair and vandalized. Several railcars were on side tracks paralleling the main railroad tracks. What appeared to be an old locomotive boiler was located in the vicinity of the railcars (4).

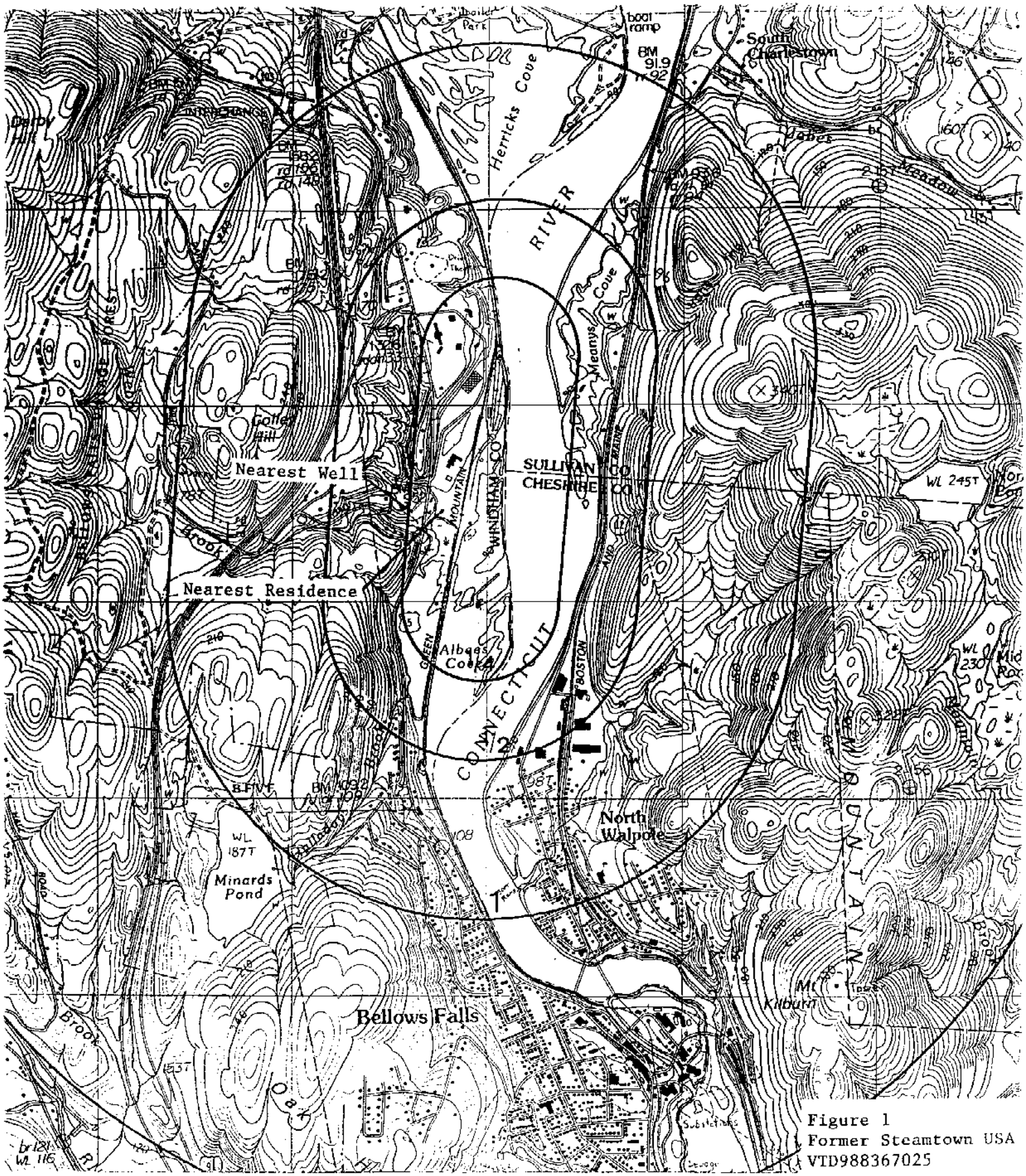

Figure 1
Former Steamtown USA
VTD988367025

SCALE 1:25 000

1 CENTIMETER ON THE MAP REPRESENTS 250 METERS ON THE GROUND

KILOMETERS 1 .5 0 1 2

MILES 1 .5 0 1 2

VT.

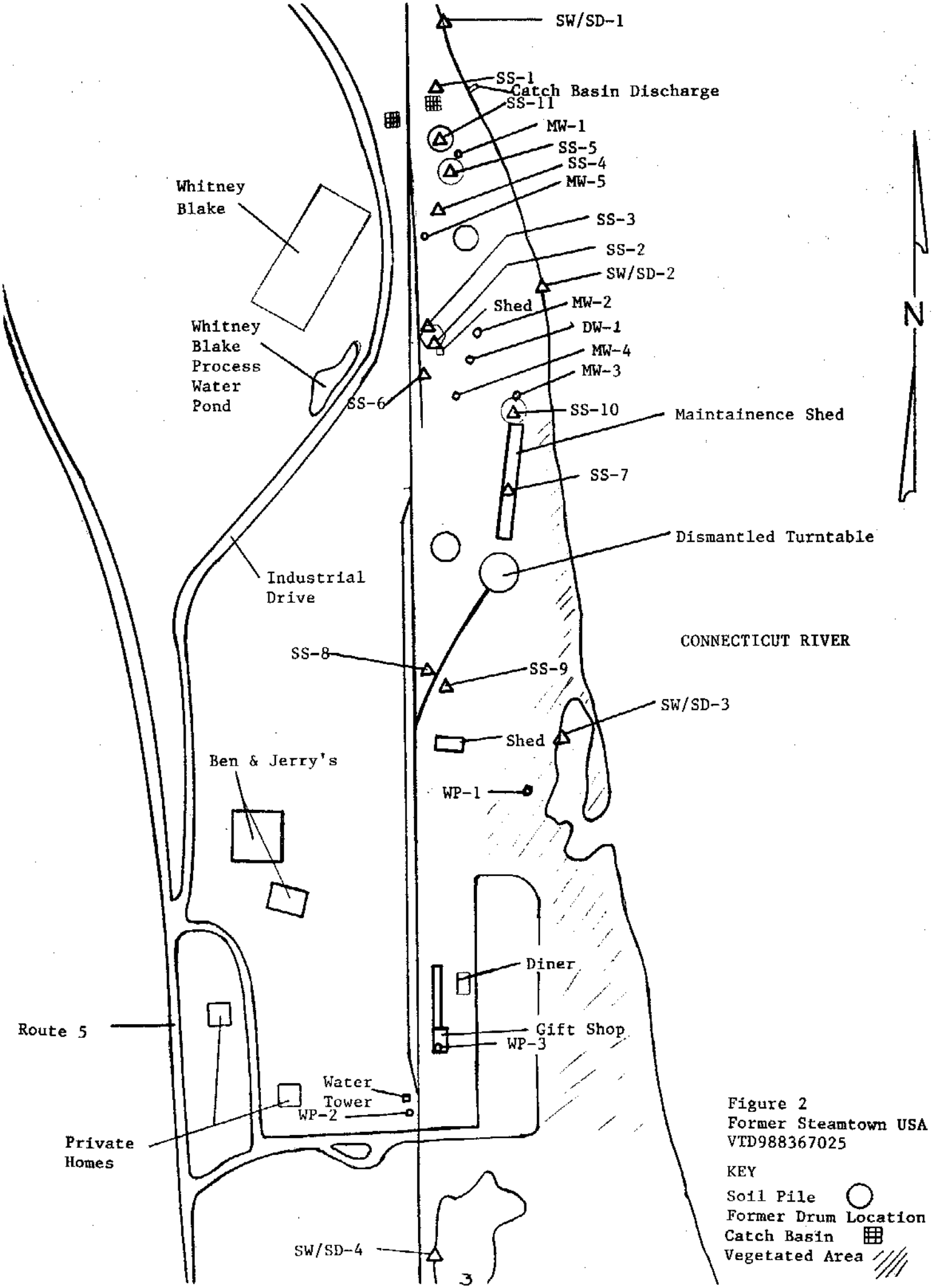

Figure 2
Former Steamtown USA
VTD988367025

KEY

Soil Pile
Former Drum Location
Catch Basin
Vegetated Area

Several piles were located on the northern portion of the property. It appeared that the upper few inches of soil had been removed and placed in the piles. Assorted railroad equipment (ties, spikes,plates) were noted in the piles. Several crushed drums were noted in one pile. It also appeared some material was burned adjacent to the soil pile where soil sample # 5 was collected (4).

Wetlands were identified on the eastern and southern portions of the property. A portion of the property southeast of the gift shop/diner was being used for agricultural purposes (corn). Areas along the river bank and the wetlands were generally heavily vegetated. The northern portion of the property was lightly vegetated with grass (4).

2.3 Operational History and Waste Characteristics

Land uses at the property were generally agricultural (farming, pasture) in nature. A stock chute and slaughter house operated on the property for a time during the 1930's (3).

Prior to the development of Steamtown, portions of the property were regraded. The northern portion of the property was lowered approximately 20 feet to its present level. The material removed was used to fill wetlands on the southern portion of the property. The regrading resulted in the addition of approximately 35 acres of land (3).

Steamtown U.S.A. was operated as a rail museum and excursion train at the property from 1966 to 1983. Structures identified from 1974 aerial and orthophotographs include two locomotive maintenance sheds, a turntable, numerous rail cars or locomotives and several buildings. A site survey identified the buildings as a restaurant/gift shop, public rest rooms and a covered storage area (Figure 2,3). Several 250 gallon above ground storage tanks are also reported to have been on the property. A 8,077 gallon #2 fuel oil underground storage tank (UST) was also located on the property. The tank was removed in June 1991 (5).

In 1981-1982, the village of Bellows Falls wanted to develop a new water supply well just south of Steamtown. Analysis of groundwater samples from test well and Steamtown wells revealed levels of volatile organic chemicals (VOC's). VOC's detected included 1,1,1-trichloroethane (1,1,1-TCA), trichloroethylene (TCE), tetrachloroethylene (PCE), 1,1,2 - trichloroethane (1,1,2-TCA), benzene and toluene. Samples were also collected of the Whitney Blake extrusion coolant water and pond coolant water. Analysis of these samples revealed levels of 1,1,1-TCA, PCE, nickel and cadmium. Based on these sampling results the area was deemed inappropriate for a new water supply well (6).

In August 1990, the Vermont DEC received a complaint that waste oil had been disposed on the property and that other hazardous materials may be stored on the property. Upon investigation several abandoned rail cars were noted. One rail car contained five partially full drums of an unknown liquid. The odor of solvent and oil was present. A second car contained another partially full drum and a oily type residue was noted on the rail car floor. An area of stained soil was identified in the area of a small storage shed and a 275 gallon above ground

tank. The tank had the word "diesel" crossed out and "utility oil" written beneath it. A second area of stained soil was noted in the vicinity of nine drums located approximately 75 feet east of the storage shed. Three metal pipes which appeared to be monitor wells were also identified (7).

In April 1990, the owner conducted a site investigation. The scope of the investigation included soil, groundwater and surface water sampling. Benzene, toluene, ethylbenzene, xylene (BTEX), PCE, TCE and 1,1,2,2-tetrachloroethane were detected in soils samples collected from the vicinity of the storage shed and former drum storage area. The most frequently detected metals were chromium (up to 225 mg/kg) and lead (up to 632 mg/kg). Mercury was detected in one location at a concentration of 2.83 mg/kg. PCE, 1,1-DCA, 1,1,1-TCA and methylene chloride were detected in samples collected from the deep well. PCE and 1,1,1-TCA was detected in standing water in a concrete pit adjacent to MW-2. 1,1,1-TCA was detected in a surface water sample collected upriver of the catch basin outfall. Levels of arsenic, cadmium, lead , mercury, selenium, iron and manganese were detected in surface and ground water samples (3).

In November 1990, the rail cars previously identified were removed. In April 1991 approximately 200 pounds of chlorinated solvent contaminated waste oil was removed from six drums. In June 1991, a 8,000 gallon underground storage tank (UST) was removed. No contamination was identified during the removal (5). It also appears as part of the cleanup efforts that the upper few inches of soil has been bulldozed into several piles. Railroad ties, rails, and several crushed drums were noted in the piles.

Waste streams identified at Steamtown include painting, degreasing, parts cleaning and locomotive and rail car maintenance. Wastes typically associated with these streams include paints, thinners, degreasers, solvents, oils, and grease (9). The information on past disposal practices or amount of waste generated could not determined (10).

3. Waste Source Sampling

3.1 Sampling Locations

Table 1 summarizes the locations for samples collected during the SI. Media sampled includes soil (11 samples collected), groundwater (8 samples and 1 duplicate), surface water and sediment (4 samples each). Groundwater samples were analyzed for VOC's and select metals (dissolved). Soil samples were analyzed for VOC's, semi volatile organic compounds (SVOC's) and select metals. Surface water samples were analyzed for VOC's and select metals (total) while sediment samples were analyzed for SVOC's and select metals.

3.2 Analytical Results

Analysis detected VOC's in two groundwater samples (MW-1, DW-1/Dup). Elevated levels of metals and SVOC's were detected in one sediment sample (SD-3). SVOC's were detected

in four soil samples (SS-5, SS-6, SS-7, SS-10) while VOC's (chloroform) was detected in six samples (SS-2, SS-3, SS-5, SS-7, SS-9, SS-11).

3.3 Conclusions

Analytical results indicate VOC's, SVOC's, and elevated levels of metals have been detected at the site. VOC's were detected in two groundwater samples and six soil samples. SVOC's were detected in four soil samples. SVOC's and elevated levels of metals were detected in one sediment sample.

4. Ground Water Pathway

4.1 Hydrologic Setting

The site lies within the Vermont Piedmont geomorphic subdivision of the New England Uplands Section of the New England Province. The Piedmont is an undulating to rough surfaced plateau locally marked by mountain ranges and isolated peaks (11, 12).

The property is located along the Brattleboro - Averill syncline which parallels the Connecticut River from the Massachusetts line north to the Canadian border. The site is underlain by the Littleton Formation. The Littleton formation consists of slates and phyllites with interbeds of grey quartzite (11, 12).

Surficial materials mapped in the vicinity of the site include recent stream alluvium, postglacial fluvial sands, and glaciolacustrine sands and lake bottom sediments (silts, silty-clay, clay) (13). Observation well and soil boring logs and the Steamtown U.S.A. and Whitney Blake well logs indicate surficial material on site to generally consist of topsoil (0'-2' thick), silty fine sand (15'-20' thick), assorted sands and gravels (9'-15' thick) followed by layers of silts, sandy silts and clayey silts with occasional lenses of fine to medium sand to depths of approximately 240 feet. The depth to bedrock is not known.

The Soil Conservation Service has mapped soils at the former Steamtown U.S.A. as Winooski silt loam. This type of soil is found on flood plains, nearly level, moderately well drained and very deep (>60"). Winooski soils have a moderate to moderately rapid permeability rate, and a seasonal high water table of 1.5- 3.0 feet during the winter and spring months. The seasonal high water table and potential flood hazard are identified as serious limitations for Winooski soils being used for septic tank absorption fields or for lagoons/ponds. Other soils mapped in the vicinity of the former Steamtown U.S.A. property include Ondawa and Rumney fine sandy loam soils. These soils exhibit similar characteristics to Winooski soils except the poor filtration capabilities pose further limitations for use of these soils as septic tank absorption fields or lagoons/ponds (14).

Table 1
Former Steamtown USA
SI Sample Location Data

Sample	Media	Parameter	Location
SS-1	Soil	VOC,SVOC,Metals	Northern Portion of Property
SS-2	Soil	VOC,SVOC,Metals	Stained Soil 25' Northwest of Shed
SS-3	Soil	VOC, SVOC,Metals	Vicinity Former Drum Storage Area
SS-4	Soil	VOC,SVOC,Metals	Stained Soil 20' North of MW-5
SS-5	Soil	VOC,SVOC,Metals	Soil Pile 20' North of MW-1
SS-6	Soil	VOC,SVOC,Metals	Stained Soil 50' Southwest of Shed
SS-7	Soil	VOC, SVOC,Metals	Inside Maintenance Building
SS-8	Soil	VOC,SVOC,Metal	100' Southwest of Turntable
SS-9	Soil	VOC,SVOC,Metals	100' South of Turntable
SS-10	Soil	VOC,SVOC,Metals	Soil Pile North of Maintenance Building
SS-11	Soil	VOC,SVOC,Metals	Soil Pile Northwest of MW-1
MW-1	Aqueous	VOC, Metals	Monitor Well MW-1
MW-2	Aqueous	VOC, Metals	Monitor Well MW-2
MW-3	Aqueous	VOC, Metals	Monitor Well MW-3
MW-4	Aqueous	VOC, Metals	Monitor Well MW-4
MW-5	Aqueous	VOC, Metals	Monitor Well MW-5
DW-1	Aqueous	VOC, Metals	Unused Deep Well
DW-1Dup	Aqueous	VOC, Metals	Unused Deep Well
WP-1	Aqueous	VOC, Metals	Well Point in Shed, Sample Not Collected
WP-2	Aqueous	VOC, Metals	Well Point Near Water Tower
WP-3	Aqueous	VOC, Metals	Well Point in Gift Shop
SW-1	Aqueous	VOC,Metals	Connecticut River
SW-2	Aqueous	VOC,Metals	Connecticut River
SW-3	Aqueous	VOC,Metals	Islet on East Side of Site
SW-4	Aqueous	VOC,Metals	Wetland South of Site
SD-1	Sediment	SVOC,Metals	Same Location as SW-1
SD-2	Sediment	SVOC,Metals	Same Location as SW-2
SD-3	Sediment	SVOC,Metals	Same Location as SW-3
SD-4	Sediment	SVOC,Metals	Same Location as SW-4
Trip Blank	Aqueous	VOC	

Initial studies of the area selected for the new well identified an aquifer varying from 9-15 feet thick at a depth of 22-37 feet below land surface. Based on a 8 hour pump test, the preliminary transmissivity of the aquifer was determined to be 6,000 ft^2/day. It was believed the aquifer would have been adequate to supply the 700 gpm required by Bellows Falls (15).

4.2 Targets

Five public-community groundwater water supply systems are located within four miles of the site. These systems supply approximately 303 individuals (Table 2). Approximately 3,700 individuals rely on the Bellows Falls Water Department for water (16). This includes residents of the Village of Bellows Falls and along Route 5 and the Industrial Park. Minards Pond is the source for the Bellows Falls Water Department and is located approximately 1.6 miles southwest of the site. The remaining individuals residing within the four miles radius (approximately 3,470) rely on private wells or springs (Table 3).

Establishments in the Bellows Falls Industrial Park and nearby residents are connected to the Bellows Falls Village water main which runs along Route 5 and into the industrial park. Steamtown relied on several 1.5 inch well points and a six inch drilled well for water. The 6 inch well is located in the rail yard area. Its main use was for filling locomotive boilers, but was also used to provide water for the rest room facilities and possibly some offices. The Well

Table 2
Public-Community Groundwater Supply Systems
Within A Four Mile Radius
of the
Former Steamtown USA

System Name	Source	Distance from Site	Population Served
North Shore Trailer Park	One Unconsolidated Well	1.3 Miles North	36
North Westminster Water	One Bedrock Well	2.1 Miles South	80
Shady Pines Mobile Home Park	One Unconsolidated Well	2.7 Miles South	84
Kurn Hatten Girls School	One Bedrock Well	3.2 Miles South	60
Clark Water System	One Bedrock Well	3.3 Miles Southwest	43
Total Population Served			303

Completion Report (WCR) for Steamtown well indicates it is an unconsolidated well 240 feet deep yielding 49 gallons per minute (gpm). Specific information is not available on the well points but they are reported to have been installed by Steamtown personnel and 20 to 25 feet deep (3). In 1989 the Whitney Blake Company installed a well to provide process water. This well is an unconsolidated well 256 feet deep and yields 300 gpm. Fifteen WCRs are on file with the DEC as being within a one mile radius of the site (17).

4.3 Sample Locations

A total of eight (8) groundwater samples were collected during the SI. Samples were collected from five (5) monitor wells, three (3) well points and the unused deep well. A duplicate sample was collected from the deep well. Sample collection locations are illustrated on Figure 2.

4.4 Analytical Results

Analytical results indicate a release to groundwater has occurred. Analysis of samples collected from monitor well MW-1 identified methylene chloride (270 ug/l) and 1,1,1-trichloroethane at 21 ug/l while analysis of the sample collected from the deep well (DW-1/DW-

Table 3
Private Well Users
Within Four Miles
of the
Former Steamtown USA

Distance From Site in Miles	Approximate Population Served
Onsite	0
0.00-0.25	12
0.25-0.50	38
0.50-1.00	278
1.00-2.00	664
2.00-3.00	1,478
3.00-4.00	1,000
Total	3,470

1 Dup) identified 1,1,1-TCA, 1,1-dichloroethene (1,1-DCE) and tetrachloroethene (PCE) at concentrations of 55 ug/l (53 ug/l), 6 ug/l (6 ug/l) and 5 ug/l (5 ug/l) respectively. The only metal detected above method detection limits were mercury (1.2 ug/l) detected in sample MW-5 and zinc (8,310 ug/l) in sample WP-3 (Table 3).

4.5 Conclusions

VOC's have been detected in groundwater above established State and Federal standards. Approximately 303 and 3,470 people rely on public and private drinking water sources within a one mile and four mile radius of the site, respectively. Vermont residents in the vicinity of the site are connected to the Bellows Falls Water Department which obtains water from Minards Pond. The nearest public water supply system (North Shore Trailer Park) serving 30 residents is located approximately 1.3 miles north of the site.

5. Surface Water Pathway

5.1 Hydrologic Setting

The Connecticut River is the predominant hydrologic feature and abuts the entire eastern portion of the site. The 50 year annual mean river flow as measured at N. Walpole, N.H. gaging station approximately three miles downstream of the site is 9,532 cubic feet per second (ft^3/sec) (18). The 20 year average annual precipitation as measured at Bellows Falls is 40.4 inches per year (19). The mean annual lake evaporation is approximately 23 inches per year for a net annual precipitation of 17.4 inches per year (20). Two catch basins are located on the northern portion of the property. These catch basins discharge to the Connecticut River. No other drainage pathways were noted. A small inlet is located on the eastern portion of the property and is open to the Connecticut River.

5.2 Targets

No public drinking water supplies have been identified within 15 miles downstream of the Connecticut River (16).

Several Wetlands have been mapped within a mile of the site. These are generally located along the Connecticut River and are riverine, lacustrine or palustrine systems. The lacustrine wetlands are limnetic or littoral subsystems in the open water class. The palustrine systems are forested, scrub-shrub, emergent or a combination thereof. The riverine systems are of the upper perennial type (21).

The Connecticut River is a fishery. Sport fish indigenous to the Connecticut in the vicinity of the site include large and small mouth bass (Micropterus salmoides, Micropterus dolomieui) and walleye pike (Stizostedion vitreum). The 44 mile stretch of the Connecticut River from Wilder Dam to Bellows Falls is a recommended canoe trip containing class II and class IV rapids (22).

Table 4
Groundwater Analytical Results
Metals and VOCs
Former Steamtown USA

Compound	Sample Location									
	MW-1	MW-2	MW-3	MW-4	MW-5	DW-1	DW-1DUP	WP-1	WP-2	WP-3
Arsenic	<5	<5	<5	<5	<5	<5	<5	NA	<5	<5
Cadmium	<2	<2	<2	<2	<2	<2	<2	NA	<2	<2
Chromium	<10	<10	<10	<10	<10	<10	<10	NA	<10	<10
Copper	<10	<10	<10	<10	<10	<10	<10	NA	<10	<10
Lead	<10	<10	<10	<10	<10	<10	<10	NA	<10	<10
Mercury	<0.2	<0.2	<0.2	<0.2	1.2	<0.2	<0.2	NA	<0.2	<0.2
Nickel	<10	<10	<10	<10	<10	<10	<10	NA	<10	<10
Selenium	<5	<5	<5	<5	<5	<5	<5	NA	<10	<10
Zinc	<40	<40	<40	<40	<40	<40	<40	NA	<40	8,310
Method 2840										
Methylene Chloride	270	ND	ND	ND	ND	ND	ND	NA	ND	ND
1,1,1-TCA	21	ND	ND	ND	ND	55	53	NA	ND	ND
1,1-DCE	ND	ND	ND	ND	ND	6	6	NA	ND	ND
PCE	ND	ND	ND	ND	ND	5	5	NA	ND	ND

Results expressed in ug/l
Samples Analyzed for Dissolved Metals Concentrations
ND-Compound Not Detected Above Method Detection Limits NA-Sample Not Analyzed

Several rare, endangered, threatened species or significant natural habitats are found within a one mile radius of the site. Significant natural communities within a mile of the site include shallow rush/grass marsh wetlands. Rare, endangered or threatened species within a mile include pursh's bulrush (Scirpus purshianus), pygmyweed (Tillaea aquatica), hairy sedge (Carex trichocarpa), many-fruited false-loosestrife (Luduigia polycarpa) and the orchard oriole (Icterus spurious). The habitat for the majority of these species is in the vicinity of Herricks Cove, but pygmyweed is also found in the vicinity of Albees Cove (23).

5.3 Sample Locations

Surface water and sediment samples were collected from four locations during the SI. Two samples (SW/SD-1, SW/SD-2) were collected from the Connecticut River, one from a small islet (SW/SD-3) and one from a wetland south of the site (Figure 2). During the collection of sample SD-3, it was apparent that the area in the vicinity of the islet had been filled. Pails that were labeled tar were noted partially buried in the bank. Railroad ties, plywood and other wooden debris were noted in the islet.

5.4 Analytical Results

Analytical results for surface water samples are included in Table 5. No VOC's were detected in any surface water samples. The only metal detected above method detection limits was arsenic at 5 ug/l in sample SW-4. Analytical results for sediment samples are listed in Table 6. No metals were identified above method detection limits in SD-2. The only metals identified in samples SD-1 and SD-4 were arsenic at 5.1 mg/kg and 2.8 mg/kg respectively and zinc at 26 mg/kg and 36 mg/kg. Sample SD-3 exhibited the highest levels of metals. Arsenic (16 mg/kg), chromium (85 mg/kg), copper (173 mg/kg), mercury (0.13 mg/kg), nickel (140 mg/kg), lead (291 mg/kg) and zinc (378 mg/kg) were identified. The only sediment sample where SVOC's were detected was sample SD-3 where the total SVOC concentration was 46.8 mg/kg.

5.5 Conclusions

The Connecticut River is the predominant surface water feature with a mean flow of 9,532 ft^3/sec. No public water intakes are located within the 15 mile downstream limit of the site. VOC's were not detected in any surface water sample. Arsenic was detected in one surface water sample (SW-4) at 5 ug/l. Sediment sample SD-3 contained elevated levels of metals and total SVOC concentration of 46.8 mg/kg. One State endangered species and three threatened species have been identified within one mile of the site.

Table 5 Surface Water Analytical Results Metals and VOCs Former Steamtown USA				
Compound	Sample Location			
	SW-1	SW-2	SW-3	SW-4
Arsenic	<5	<5	<5	5
Cadmium	<2	<2	<2	<2
Chromium	<10	<10	<10	<10
Copper	<10	<10	<10	<10
Lead	<10	<10	<10	<10
Mercury	<0.2	<0.2	<0.2	<0.2
Nickel	<10	<10	<10	<10
Selenium	<5	<5	<5	<5
Zinc	<40	<40	<40	<40
Method 8240	ND	ND	ND	ND

Samples Analyzed for Total Metals Concentrations
Results Expressed in ug/l
ND-Compound(s) Not Detected Above Method Detection Limits

6.0 Soil Exposure and Air Pathway

6.1 Physical Conditions

The property encompasses approximately 85 acres. The majority of the property is zoned commercial-industrial. Portions of the property (wetlands, 100 foot zone along river) are zoned recreation conservation (3).

Vehicle access is controlled by a locked gate at the entrance. No other site access controls exist at the site. Structures identified on site at the southern portion of the site include a gift shop, diner, water tower and a well house. A paved parking area was located east of the gift shop/diner. Structures identified on the northern portion of the site include a large railcar maintenance shed, a dismantled railroad turntable, an open shed which was being used for storage of farm equipment and a small empty storage shed. In general all structures appeared to be in a state of disrepair and vandalized. Several railcars were on side tracks paralleling the main railroad tracks. What appeared to be an old locomotive boiler was located in the vicinity of the railcars (4).

Table 6
Sediment Analytical Results
Metals and VOCs
Former Steamtown USA

Compound	Sample Location			
	SD-1	SD-2	SD-3	SD-4
Arsenic	5.10	<2.50	16.00	2.80
Cadmium	<5.00	<5.00	<5.00	<5.00
Chromium	<25.00	<25.00	85.00	<25.00
Copper	<25.00	<25.00	173.00	<25.00
Lead	<25.00	<25.00	291.00	<25.00
Mercury	<0.10	<0.10	0.13	<0.10
Nickel	<25.00	<25.00	140.00	<25.00
Selenium	<2.50	<2.50	<2.50	<2.50
Zinc	26.00	<25.00	378.0	36.00
Method 8240	ND	ND	ND	ND
% Solids	83.2	80.8	27.6	66.8

Results expressed in dry weight concentrations
Results expressed in mg/kg
ND-Compound(s) not detected above method detection limits

Several piles were located on the northern portion of the property. It appeared that the upper few inches of soil had been removed and placed in the piles. Assorted railroad equipment (ties, spikes,plates) were noted in the piles. Several crushed drums were noted in one pile. It also appeared some material was burned adjacent to the soil pile where soil sample # 5 was collected (4).

Wetlands were identified on the eastern and southern portions of the property. A portion of the property southeast of the gift shop/diner was being used for agricultural purposes (corn). Areas along the river bank and the wetlands were generally heavily vegetated. The northern portion of the property was lightly vegetated with grass (4).

6.2 Soil and Air Targets

No workers are present at the site. The closest residence is located approximately 300 feet west of the site. Approximately 7,019 people reside within a four mile radius of the site (Table 8). Wetlands are located south of the site (24).

Table 7 Sediment Analytical Results SVOCs Former Steamtown USA				
Compound	Sample Location			
	SD-1	SD-2	SD-3	SD-4
Fluoranthene	ND	ND	7,400	ND
Pyrene	ND	ND	7,400	ND
Benzo (A) Anthracene	ND	ND	5,200	ND
Chrysene	ND	ND	4,800	ND
Benzo (B) Fluoranthene	ND	ND	6,600	ND
Benzo (K) Fluoranthene	ND	ND	4,800	ND
Benzo (A) Pyrene	ND	ND	4,400	ND
Indeno(1,2,3,CD) Pyrene	ND	ND	4,000	ND
Benzo (G,H,I) Perylene	ND	ND	2,200	ND
Total SVOCs	ND	ND	46,800	ND

Results expressed in dry weight concentrations
Results expressed in ug/kg

6.3 Soil Sample Locations

Eleven soil samples were collected during the SI. Samples were collected from areas that were potentially subject to contamination, areas exhibiting potential contamination (stained soils), and areas previously sampled which identified contamination. Soil sample locations are identified in Table 1 and illustrated on Figure 2. Samples were analyzed for VOC's, SVOC's and select metals.

6.4 Soil Analytical Results

The only VOC identified in soil samples was chloroform (Table 9). Chloroform was detected in seven soil samples (SS-2, SS-3, SS-5, SS-6, SS-7, SS-9, SS-11). The highest levels detected was in sample SS-3 at 97 ug/kg. The only metals detected above method detection limits were arsenic, lead and zinc (Table 9). Arsenic was detected in five samples (SS-4, SS-5, SS-6, SS-10, SS-11) with the highest concentration detected in sample SS-4 at 5.5 mg/kg. Lead was detected in three samples (SS-5, SS-10, SS-11) with the highest concentration at SS-10 (68

mg/kg). Zinc was detected in six samples (SS-5, SS-6, SS-7, SS-9, SS-10, SS-11). The highest concentration of zinc was detected in SS-10 at 198 mg/kg. SVOC's were detected in four samples (SS-5, SS-6, SS-7, SS-10). The highest total SVOC concentration was 22,280 ug/kg detected in SS-7 (Table 10). Metals were not detected in either Filter Blank. VOCs were not detected in the Trip Blank (Table 11).

6.5 Air Analytical Results

Ambient air samples for laboratory analysis were not collected. Ambient air was monitored during the SI with a photoionization device (PID). No readings above background were noted during the SI.

6.6 Conclusions

The property is the site of the former Steamtown USA railroad museum. Currently the property is unused. The only access control to the site is a gate across the road to prevent vehicular access. No other barriers to entry exist. Workers are not present on the site and the nearest residence located on the access road approximately 300 feet west of the site. Soil samples collected from the site detected VOC's (chloroform), metals (arsenic, lead, zinc) and SVOC's. The highest total SVOC concentration detected was 22,280 ug/kg. Approximately 7,020 people live within a four mile radius of the site. Wetlands and state endangered and threatened species are present within a mile of the site.

7. Summary

The Former Steamtown USA site is the location of a railroad museum and excursion train. The museum operated from the late 1960's to the early 1980's. Currently the property is unused. The only access control to the site is a gate across the road to prevent vehicular access. No other barriers to entry exist. No workers are present on the site and the nearest residence is approximately 300 feet west of the site.

Five public-community water supply systems serving approximately 301 individuals are within a four mile radius of the site. The closest public water supply system (North Shore Trailer Park) which serves 30 residents is located approximately 1.3 miles north of the site. Vermont residents in the vicinity of the site are connected to the Bellows Falls Water Department which obtains water from Minards Pond. Approximately 3,470 individuals within a four mile radius of the site rely on private wells or springs. Groundwater contamination was originally detected in 1981 when Bellows Falls was seeking to develop a new water supply well in the area. Groundwater samples collected from MW-1 and the deep well during the SI identified 1,1,1-TCA, 1,1-DCA and PCE. Inorganic compounds were not detected above method detection limits.

The Connecticut River is the predominant surface water feature with a mean flow of 9,532 ft^3/sec. No public water intakes are located within the 15 mile downstream limit of the site.

Table 8
Population Distribution
Within A Four Mile Radius
Former Steamtown USA

Radial Distance From Site (Miles)	Town	Approximate Population	Subtotal
Onsite	Rockingham	0	0
0.00-0.25	Rockingham	35	35
0.25-0.50	Rockingham	63	
	Charlseton	13	76
0.50-1.00	Rockingham	53	
	Charleston	3	
	Walpole	262	
	Bellows Falls	102	420
1.00-2.00	Rockingham	187	
	Charleston	163	
	Walpole	352	
	Bellows Falls	3041	3,743
2.00-3.00	Rockingham	333	
	Charleston	53	
	Walpole	105	
	Bellows Falls	124	
	Langdon	148	
	N. Westminster	268	
	Westminster	338	
	Saxtons River	274	1,642
3.00-4.00	Rockingham	282	
	Charleston	13	
	Walpole	264	
	Langdon	195	
	Westminster	146	
	Saxtons River	203	1,103
Total			7,019

VOC's were not detected in any surface water sample. Arsenic was detected in one surface water sample (SW-4) at 5 ug/l. Sediment sample SD-3 contained elevated levels of metals and total SVOC concentration of 46.8 mg/kg. One State endangered species and three threatened species have been identified within one mile of the site.

Soil samples collected from the site detected VOC's (chloroform), metals (arsenic, lead, zinc) and SVOC's. The highest total SVOC concentration detected was 22,280 ug/kg. Approximately 7,019 people live within a four mile radius of the site. Wetlands and state endangered and threatened species are present within a mile of the site.

Table 9
Soil Analytical Results
Metals and VOCs
Former Steamtown USA

Compound	Sample Location										
	SS-1	SS-2	SS-3	SS-4	SS-5	SS-6	SS-7	SS-8	SS-9	SS-10	SS-11
Arsenic	<2.50	<2.50	<2.50	5.50	4.20	4.10	<2.50	<2.50	<2.50	4.40	2.50
Cadmium	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Chromium	<25.00	<25.00	<25.00	<25.00	<25.00	<25.00	<25.00	<25.00	<25.00	<25.00	<25.00
Copper	<25.00	<25.00	<25.00	<25.00	<25.00	<25.00	<25.00	<25.00	<25.00	<25.00	<25.00
Lead	<25.00	<25.00	<25.00	<25.00	40.00	<25.00	<25.00	<25.00	<25.00	68.00	34.00
Mercury	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Nickel	<25.00	<25.00	<25.00	<25.00	<25.00	<25.00	<25.00	<25.00	<25.00	<25.00	<25.00
Selenium	<2.50	<2.50	<2.50	<2.50	<2.50	<2.50	<2.50	<2.50	<2.50	<2.50	<2.50
Zinc	<25.00	<25.00	<25.00	<25.00	86.00	29.00	36.00	<25.00	28.00	198.00	105.00
% Solids	96.0	93.2	90.7	83.0	90.9	90.8	94.7	92.3	91.3	90.3	87.6
Method 8240(ug/kg)											
Chloroform	ND	28	97	ND	27	35	29	ND	42	ND	41

Results Expressed in mg/kg unless otherwise stated
Results expressed in dry weight concentrations

Table 10
Soil Analytical Results
SVOCs
Former Steamtown USA

Compound	Sample Location										
	SS-1	SS-2	SS-3	SS-4	SS-5	SS-6	SS-7	SS-8	SS-9	SS-10	SS-11
Phenanthrene	ND	ND	ND	ND	430	750	880	ND	ND	630	ND
Fluoranthene	ND	ND	ND	ND	1,800	2,000	3,600	ND	ND	1,300	ND
Pyrene	ND	ND	ND	ND	1,800	1,500	3,200	ND	ND	1,000	ND
Benzo (A) Anthracene	ND	ND	ND	ND	950	830	1,800	ND	ND	630	ND
Chrysene	ND	ND	ND	ND	1,100	980	2,200	ND	ND	800	ND
Benzo (B) Fluoranthene	ND	ND	ND	ND	1,300	1,100	3,000	ND	ND	1,000	ND
Benzo (K) Fluoranthene	ND	ND	ND	ND	1,100	730	2,400	ND	ND	630	ND
Benzo (A) Pyrene	ND	ND	ND	ND	850	660	1,800	ND	ND	500	ND
Indeno(1,2,3,CD) Pyrene	ND	ND	ND	ND	490	470	1,600	ND	ND	400	ND
Benzo (G,H,I) Perylene	ND	ND	ND	ND	260	250	1,400	ND	ND	240	ND
DiBenz (A,H) Anthracene	ND	ND	ND	ND	ND	ND	400	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	240	ND
2-Methyl Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	220	ND
Anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	200	ND
Total SVOCs	ND	ND	ND	ND	10,080	9,270	22,280	ND	ND	7,790	ND

Results Expressed in ug/kg unless otherwise stated
Results expressed in dry weight concentrations

Table 11 Filter and Blank Analysis Former Steamtown USA			
Compound	Sample		
	Filter Blank 1	Filter Blank 2	Trip Blank
Arsenic	<5	<5	NA
Cadmium	<2	<2	NA
Chromium	<10	<10	NA
Copper	<10	<10	NA
Lead	<10	<10	NA
Mercury	<0.2	<0.2	NA
Nickel	<10	<10	NA
Selenium	<5	<5	NA
Zinc	<40	<40	NA
Method 8240	NA	NA	ND

Results expressed in ug/l
Samples analyzed for dissolved metals
NA-Sample not analyzed for this compound
ND-Compound not detected above method detection limits

8. References

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23. Marshall, Everett, 1992, letter to Diane Hanley, Vermont Nongame and Natural Heritage Program, December 5, 1992.

24. Young, Michael, 1993, Population and groundwater use calculations.

Topographic Maps

Bellows Falls, Vermont - New Hampshire, 7.5 minute Quadrangle, 1985 Provisional Edition, 1:25,000.

Orthophotos

Map	Sheet Number	Scale
Rockingham, East	156072	1:5,000
Signal Hill	152072	1:5,000

Aerial Photographs

Series	Photograph Number	Scale
VT 7420	11-30/31/32	1:20,000
VT 62H	31-216/217	1:18,000

Appendix A
Pre SI Sample Data

Skinner&Sherman REPORT

Work Order # 90-06-075

Received: 06/11/90

Results by Sample

SAMPLE ID MW-1 SAMPLE # 01 FRACTIONS: A,B,C,D

Date & Time Collected 06/08/90 13:20:00 Category WATER

418_1W <0.70 mg/L	AG_I_W <10 ug/L	AS_G_W 8.8 ug/L	BE_I_W <5 ug/L	CD_I_W <5 ug/L	CR_I_W <20 ug/L
CU_I_W 29.5 ug/L	HG_W <0.20 ug/L	NI_I_W <15 ug/L	PB_G_W 9.3 ug/L	SB_I_W <50 ug/L	SE_G_W <5 ug/L
TL_G_W <5 ug/L	ZN_I_W <20 ug/L				

TMA
ThermoAnalytical Inc.
Skinner & Sherman Laboratories Inc. 300 Second Avenue, P.O. Box 527, Waltham, Massachusetts (617) 890-7200

Received: 06/11/90

Skinner&Sherman REPORT
Results by Sample

Work Order # 90-06-075

SAMPLE ID MW-1 FRACTION 01B TEST CODE VOA W NAME Volatile Organics-Aqueous
Date & Time Collected 06/08/90 13:20:00 Category WATER

COMPOUND	RESULT	DET LIMIT	COMPOUND	RESULT	DET LIMIT
Chloromethane	ND	10	Bromodichloromethane	ND	5.0
Vinyl Chloride	ND	10	2-Chloroethyl Vinyl Ether	ND	5.0
Bromomethane	ND	10	4-Methyl-2-pentanone	ND	10
Chloroethane	ND	10	cis-1,3-Dichloropropene	ND	5.0
Trichlorofluoromethane	ND	5.0	Toluene	ND	5.0
Acetone	ND	10	trans-1,3-Dichloropropene	ND	5.0
1,1-Dichloroethene	ND	5.0	1,1,2-Trichloroethane	ND	5.0
Carbon Disulfide	ND	5.0	2-Hexanone	ND	10
Methylene Chloride	ND	5.0	Tetrachloroethene	ND	5.0
trans-1,2-Dichloroethene	ND	5.0	Dibromochloromethane	ND	5.0
cis-1,2-Dichloroethene	ND	5.0	Chlorobenzene	ND	5.0
1,1-Dichloroethane	ND	5.0	Ethylbenzene	ND	5.0
Vinyl Acetate	ND	10	m and p-Xylene	ND	5.0
2-Butanone	ND	10	o-Xylene	ND	5.0
Chloroform	ND	5.0	Styrene	ND	5.0
1,1,1-Trichloroethane	ND	5.0	Bromoform	ND	5.0
Carbon Tetrachloride	ND	5.0	1,1,2,2-Tetrachloroethane	ND	5.0
Benzene	ND	5.0	1,3-Dichlorobenzene	ND	5.0
1,2-Dichloroethane	ND	5.0	1,4-Dichlorobenzene	ND	5.0
Trichloroethene	ND	5.0	1,2-Dichlorobenzene	ND	5.0
1,2-Dichloropropane	ND	5.0			

NOTES AND DEFINITIONS FOR THIS REPORT

All results reported in micrograms/liter

ND = not detected at stated detection limit

TMA
Thermo Analytical Inc.
Skinner & Sherman Laboratories Inc. 300 Second Avenue, P.O. Box 521, Waltham, Massachusetts 02254-0521 (617) 890-7200
TEST: FAX (617) 890-[illegible]

Results by Sample

SAMPLE ID MW-2 SAMPLE # 02 FRACTIONS: A,B,C,D
Date & Time Collected 06/08/90 14:10:00 Category WATER

418_1W <0.70 mg/L	AG_I_W <10 ug/L	AS_G_W <5 ug/L	BE_I_W <5 ug/L	CD_I_W <5 ug/L	CR_I_W <20 ug/L	
CU_I_W <10 ug/L	HG_W <0.20 ug/L	NI_I_W <15 ug/L	PB_G_W <5 ug/L	SB_I_W <50 ug/L	SE_G_W <5 ug/L	
TL_G_W <5 ug/L	ZN_I_W <20 ug/L					

TMA
ThermoAnalytical
Skinner & Sherman Laboratories, Inc. 500 Second Avenue P.O. Box 521, Waltham, Massachusetts 02254-0521 (617) 890-7200

Received: 06/11/90

Results by Sample

SAMPLE ID MW-2 FRACTION 028 TEST CODE VOA W NAME Volatile Organics-Aqueous

Date & Time Collected 06/08/90 14:10:00 Category WATER

COMPOUND	RESULT	DET LIMIT	COMPOUND	RESULT	DET LIMIT
Chloromethane	ND	10	Bromodichloromethane	ND	5.0
Vinyl Chloride	ND	10	2-Chloroethyl Vinyl Ether	ND	5.0
Bromomethane	ND	10	4-Methyl-2-pentanone	ND	10
Chloroethane	ND	10	cis-1,3-Dichloropropene	ND	5.0
Trichlorofluoromethane	ND	5.0	Toluene	ND	5.0
Acetone	ND	10	trans-1,3-Dichloropropene	ND	5.0
1,1-Dichloroethene	ND	5.0	1,1,2-Trichloroethane	ND	5.0
Carbon Disulfide	ND	5.0	2-Hexanone	ND	10
Methylene Chloride	ND	5.0	Tetrachloroethene	ND	5.0
trans-1,2-Dichloroethene	ND	5.0	Dibromochloromethane	ND	5.0
cis-1,2-Dichloroethene	ND	5.0	Chlorobenzene	ND	5.0
1,1-Dichloroethane	ND	5.0	Ethylbenzene	ND	5.0
Vinyl Acetate	ND	10	m and p-Xylene	ND	5.0
2-Butanone	ND	10	o-Xylene	ND	5.0
Chloroform	ND	5.0	Styrene	ND	5.0
1,1,1-Trichloroethane	ND	5.0	Bromoform	ND	5.0
Carbon Tetrachloride	ND	5.0	1,1,2,2-Tetrachloroethane	ND	5.0
Benzene	ND	5.0	1,3-Dichlorobenzene	ND	5.0
1,2-Dichloroethane	ND	5.0	1,4-Dichlorobenzene	ND	5.0
Trichloroethene	ND	5.0	1,2-Dichlorobenzene	ND	5.0
1,2-Dichloropropane	ND	5.0			

NOTES AND DEFINITIONS FOR THIS REPORT

All results reported in micrograms/liter

ND = not detected at stated detection limit

TMA
Thermo Analytical
Skinner & Sherman
300 Second Avenue, P.O. Box 5271, Waltham, Massachusetts 02
(617) 890-7200

Received: 06/11/90

Skinner&Sherman REPORT

Work Order # 90-06-075

Results by Sample

SAMPLE ID MW-3

SAMPLE # 03 ACTIONS: A,B,C

Date & Time Collected 06/08/90 15:50:00 Category WATER

418_1W <0.70
mg/L

TMA
Thermo Analytical Inc.
Skinner & Sherman Laboratories Inc.
300 Second Avenue, P.O. Box 527, Waltham, Massachusetts 02254-0527 (617) 890-7200
1-800-4LAB-TEST · FAX (617) 890-7888

Received: 06/11/90

Skinner&Sherman REPORT

Results by Sample

Work Order # 90-06-075

SAMPLE ID MW-3

FRACTION 03B TEST CODE VOA W NAME Volatile Organics-Aqueous

Date & Time Collected 06/08/90 14:40:00 Category WATER

COMPOUND	RESULT	DET LIMIT	COMPOUND	RESULT	DET LIMIT
Chloromethane	ND	10	Bromodichloromethane	ND	5.0
Vinyl Chloride	ND	10	2-Chloroethyl Vinyl Ether	ND	5.0
Bromomethane	ND	10	4-Methyl-2-pentanone	ND	10
Chloroethane	ND	10	cis-1,3-Dichloropropene	ND	5.0
Trichlorofluoromethane	ND	5.0	Toluene	ND	5.0
Acetone	ND	10	trans-1,3-Dichloropropene	ND	5.0
1,1-Dichloroethene	ND	5.0	1,1,2-Trichloroethane	ND	5.0
Carbon Disulfide	ND	5.0	2-Hexanone	ND	10
Methylene Chloride	ND	5.0	Tetrachloroethene	ND	5.0
trans-1,2-Dichloroethene	ND	5.0	Dibromochloromethane	ND	5.0
cis-1,2-Dichloroethene	ND	5.0	Chlorobenzene	ND	5.0
1,1-Dichloroethane	ND	5.0	Ethylbenzene	ND	5.0
Vinyl Acetate	ND	10	m and p-Xylene	ND	5.0
2-Butanone	ND	10	o-Xylene	ND	5.0
Chloroform	ND	5.0	Styrene	ND	5.0
1,1,1-Trichloroethane	ND	5.0	Bromoform	ND	5.0
Carbon Tetrachloride	ND	5.0	1,1,2,2-Tetrachloroethane	ND	5.0
Benzene	ND	5.0	1,3-Dichlorobenzene	ND	5.0
1,2-Dichloroethane	ND	5.0	1,4-Dichlorobenzene	ND	5.0
Trichloroethene	ND	5.0	1,2-Dichlorobenzene	ND	5.0
1,2-Dichloropropane	ND	5.0			

NOTES AND DEFINITIONS FOR THIS REPORT

All results reported in micrograms/liter

ND = not detected at stated detection limit

TMA
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Skinner & Sherman Laboratories Inc. 300 Second Avenue, P.O. Box 521, Waltham, Massachusetts 02254-0521 (617) 890-7200
TEST FAX (617) 890-3888

Received: 06/11/90

Skinner&Sherman REPORT
Results by Sample

Work Order # 90-06-075

SAMPLE ID MW-4

SAMPLE # 04 FRACTIONS: A,B,C

Date & Time Collected 06/08/90 14:25:00 Category WATER

418_1W <0.70
mg/L

TMA
Thermo Analytical Inc.
Skinner & Sherman Laboratories Inc.
This report is rendered upon all of the following conditions: Skinner & Sherman Laboratories, Inc. retains ownership of this report until [illegible] invoice is satisfi[illegible] Expert witness services shall be available in conjunction with this report only if prior notification of this potential requirement was [illegible] before the analysis. Cl[illegible] will be responsible for Skinner & Sherman costs and consulting fees if our services are required by subpoena or otherwise in legal proceedings. Total liability is limited to the lever[illegible] amount. The results listed refer only to tested samples and applicable parameters. Product endorsement is neither inferred nor implied. Skinner & Sherman Laboratories, Inc. [illegible] exercise due diligence but will not be responsible for lost or destroyed samples or evidence unless client makes appropriate insurance coverage arrangements. Samples are held [illegible] thirty days following issuance of report. Samples will be stored at client's expense, if authorized in writing.

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1-800-4 LAB-TEST FAX (617) 890-3883

Received: 06/11/90 Results by Sample

SAMPLE ID MW-4 FRACTION 04B TEST CODE VOA W NAME Volatile Organics-Aqueous
Date & Time Collected 06/08/90 14:25:00 Category WATER

COMPOUND	RESULT	DET LIMIT	COMPOUND	RESULT	DET LIMIT
Chloromethane	ND	10	Bromodichloromethane	ND	5.0
Vinyl Chloride	ND	10	2-Chloroethyl Vinyl Ether	ND	5.0
Bromomethane	ND	10	4-Methyl-2-pentanone	ND	10
Chloroethane	ND	10	cis-1,3-Dichloropropene	ND	5.0
Trichlorofluoromethane	ND	5.0	Toluene	ND	5.0
Acetone	ND	10	trans-1,3-Dichloropropene	ND	5.0
1,1-Dichloroethene	ND	5.0	1,1,2-Trichloroethane	ND	5.0
Carbon Disulfide	ND	5.0	2-Hexanone	ND	10
Methylene Chloride	ND	5.0	Tetrachloroethene	ND	5.0
trans-1,2-Dichloroethene	ND	5.0	Dibromochloromethane	ND	5.0
cis-1,2-Dichloroethene	ND	5.0	Chlorobenzene	ND	5.0
1,1-Dichloroethane	ND	5.0	Ethylbenzene	ND	5.0
Vinyl Acetate	ND	10	m and p-Xylene	ND	5.0
2-Butanone	ND	10	o-Xylene	ND	5.0
Chloroform	ND	5.0	Styrene	ND	5.0
1,1,1-Trichloroethane	ND	5.0	Bromoform	ND	5.0
Carbon Tetrachloride	ND	5.0	1,1,2,2-Tetrachloroethane	ND	5.0
Benzene	ND	5.0	1,3-Dichlorobenzene	ND	5.0
1,2-Dichloroethane	ND	5.0	1,4-Dichlorobenzene	ND	5.0
Trichloroethene	ND	5.0	1,2-Dichlorobenzene	ND	5.0
1,2-Dichloropropane	ND	5.0			

NOTES AND DEFINITIONS FOR THIS REPORT
All results reported in micrograms/liter
ND = not detected at stated detection limit

TMA
Thermo Analytical Inc.
Skinner & Sherman Laboratories Inc. 300 Second Avenue, P.O. Box 521, Waltham, Massachusetts 02254-0521 (617) 890-720
1-800-4LAB-TEST, FAX (617) 890-[illegible]

Received: 06/11/90

Skinner&Sherman REPORT

Results by Sample

Work Order # 90-06-075

SAMPLE ID MW-5 SAMPLE # 05 FRACTIONS: A,B,C

Date & Time Collected 06/08/90 13:50:00 Category WATER

418_1W	<0.70	mg/L

TMA
Thermo Analytical Inc.
Skinner & Sherman Laboratories Inc. 300 Second Avenue, P.O. Box 521, Waltham, Massachusetts 02254-0521 (617) 890-7200
1-800-FLAB TEST FAX (617) 890-3883

Received: 06/11/90 Results by Sample

SAMPLE ID MW-5 FRACTION 05B TEST CODE VOA W NAME Volatile Organics-Aqueous

Date & Time Collected 06/08/90 13:50:00 Category WATER

COMPOUND	RESULT	DET LIMIT	COMPOUND	RESULT	DET LIMIT
Chloromethane	ND	10	Bromodichloromethane	ND	5.0
Vinyl Chloride	ND	10	2-Chloroethyl Vinyl Ether	ND	5.0
Bromomethane	ND	10	4-Methyl-2-pentanone	ND	10
Chloroethane	ND	10	cis-1,3-Dichloropropene	ND	5.0
Trichlorofluoromethane	ND	5.0	Toluene	ND	5.0
Acetone	ND	10	trans-1,3-Dichloropropene	ND	5.0
1,1-Dichloroethene	ND	5.0	1,1,2-Trichloroethane	ND	5.0
Carbon Disulfide	ND	5.0	2-Hexanone	ND	10
Methylene Chloride	ND	5.0	Tetrachloroethene	ND	5.0
trans-1,2-Dichloroethene	ND	5.0	Dibromochloromethane	ND	5.0
cis-1,2-Dichloroethene	ND	5.0	Chlorobenzene	ND	5.0
1,1-Dichloroethane	ND	5.0	Ethylbenzene	ND	5.0
Vinyl Acetate	ND	10	m and p-Xylene	ND	5.0
2-Butanone	ND	10	o-Xylene	ND	5.0
Chloroform	ND	5.0	Styrene	ND	5.0
1,1,1-Trichloroethane	ND	5.0	Bromoform	ND	5.0
Carbon Tetrachloride	ND	5.0	1,1,2,2-Tetrachloroethane	ND	5.0
Benzene	ND	5.0	1,3-Dichlorobenzene	ND	5.0
1,2-Dichloroethane	ND	5.0	1,4-Dichlorobenzene	ND	5.0
Trichloroethene	ND	5.0	1,2-Dichlorobenzene	ND	5.0
1,2-Dichloropropene	ND	5.0			

NOTES AND DEFINITIONS FOR THIS REPORT

All results reported in micrograms/liter

ND = not detected at stated detection limit

TMA Thermo Analytical Inc.
Skinner & Sherman Laboratories Inc. 300 Second Avenue, P.O. Box 521, Waltham, Massachusetts 02254-0521 (617) 890-72
1-800-4 LAB TEST FAX (617) 890-3883

Received: 06/11/90

Skinner&Sherman REPORT
Results by Sample

Work Order # 90-06-075

SAMPLE ID Dup

FRACTION 06A TEST CODE VOA W NAME Volatile Organics-Aqueous
Date & Time Collected 06/08/90 Category WATER

COMPOUND	RESULT	DET LIMIT	COMPOUND	RESULT	DET LIMIT
Chloromethane	ND	10	Bromodichloromethane	ND	5.0
Vinyl Chloride	ND	10	2-Chloroethyl Vinyl Ether	ND	5.0
Bromomethane	ND	10	4-Methyl-2-pentanone	ND	10
Chloroethane	ND	10	cis-1,3-Dichloropropene	ND	5.0
Trichlorofluoromethane	ND	5.0	Toluene	ND	5.0
Acetone	ND	10	trans-1,3-Dichloropropene	ND	5.0
1,1-Dichloroethene	ND	5.0	1,1,2-Trichloroethane	ND	5.0
Carbon Disulfide	ND	5.0	2-Hexanone	ND	10
Methylene Chloride	ND	5.0	Tetrachloroethene	ND	5.0
trans-1,2-Dichloroethene	ND	5.0	Dibromochloromethane	ND	5.0
cis-1,2-Dichloroethene	ND	5.0	Chlorobenzene	ND	5.0
1,1-Dichloroethane	ND	5.0	Ethylbenzene	ND	5.0
Vinyl Acetate	ND	10	m and p-Xylene	ND	5.0
2-Butanone	ND	10	o-Xylene	ND	5.0
Chloroform	ND	5.0	Styrene	ND	5.0
1,1,1-Trichloroethane	ND	5.0	Bromoform	ND	5.0
Carbon Tetrachloride	ND	5.0	1,1,2,2-Tetrachloroethane	ND	5.0
Benzene	ND	5.0	1,3-Dichlorobenzene	ND	5.0
1,2-Dichloroethane	ND	5.0	1,4-Dichlorobenzene	ND	5.0
Trichloroethene	ND	5.0	1,2-Dichlorobenzene	ND	5.0
1,2-Dichloropropane	ND	5.0			

NOTES AND DEFINITIONS FOR THIS REPORT

All results reported in micrograms/liter

ND = not detected at stated detection limit

This report is rendered upon all of the following conditions: Skinner & Sherman Laboratories, Inc. retains ownership of this report until receipt of authorized invoice is made. Report without receipt shall be inoperable to compensation, with this report only if prior notification of this potential requirement was made. [illegible] will be responsible for [illegible] and consulting fees if our services are required by subpoena or otherwise in legal proceedings. [illegible] is limited to the [illegible] amount. The results listed relate only to tested samples and applicable parameters. Product endorsement is neither inferred nor implied. Skinner & Sherman Laboratories, Inc. exercises due diligence but will not be responsible for lost or damaged samples or evidence unless client makes appropriate insurance coverage arrangements. Samples are held thirty days following issuance of reports. Samples will be stored at client's expense, if authorized in writing.

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Skinner & Sherman Laboratories Inc. 300 Second Avenue, P.O. Box 521, Waltham, Massachusetts 02254-0521 (617) 890-7200
[illegible] LAB TEST FAX (617) 890-3883

TEST CODE 418 1W NAME Petroleum Hydrocarbons-H2O

Petroleum Hydrocarbons in Water, Total Recoverable
EPA Method 418.1 (Spectrophotometric, Infrared)

TEST CODE AG I W NAME Silver - ICP

SW846 Method 6010 - Inductively Coupled Plasma Spectroscopy (ICP)

TEST CODE AS G W NAME Arsenic - Graphite Furn.

SW846 Method 7060 - Arsenic (AA, Furnace Technique)

TEST CODE BE I W NAME Beryllium - ICP - Water

SW846 Method 6010 - Inductively Coupled Plasma Spectroscopy (ICP).

TEST CODE CD I W NAME Cadmium - ICP

SW846 Method 6010 - Inductively Coupled Plasma Spectroscopy (ICP)

TEST CODE CR I W NAME Chromium - ICP

SW846 Method 6010 - Inductively Coupled Plasma Spectroscopy (ICP)

TEST CODE CU I W NAME Copper - ICP

SW846 Method 6010 - Inductively Coupled Plasma Spectroscopy (ICP)

TEST CODE GFDI W NAME Graphite Furnace Digestion

SW846 Method 3020 - Acid digestion of aqueous samples and extracts for analysis for total metals by graphite furnace atomic absorption spectroscopy

TEST CODE HGDI W NAME Mercury Prep - Aqueous

SW846 Method 7470 preparation of water for mercury analysis.

TEST CODE HG W NAME Mercury - Cold Vapor AA

SW846 Method 7470 manual Cold-Vapor Technique.

TEST CODE ICPDIW NAME Metals Prep ICP - Aqueous

SW846 Method 3010 - Acid digestion of aqueous samples and extracts for total metals for analysis by Flame Atomic Absorption Spectroscopy or Inductively Coupled Plasma Spectroscopy

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TEST CODE NI I W NAME Nickel - ICP

SW846 Method 6010 - Inductively Coupled Plasma Spectroscopy (ICP)

TEST CODE PB G W NAME Lead - Graphite Furn.

SW846 Method 7421 - Lead (AA, Furnace Technique)

TEST CODE SB I W NAME Antimony - ICP

SW846 Method 6010 - Inductively Coupled Plasma Spectroscopy (ICP)

TEST CODE SE G W NAME Selenium - Graphite Furn.

SW846 Method 7740 - Selenium (AA, Furnace Technique)

TEST CODE TL G W NAME Thallium - Graphite Furn.

SW846 Method 7841 - Thallium (AA, Furnace Technique)

TEST CODE VOA W NAME Volatile Organics-Aqueous

Volatile Organics in Water - Hazardous Substance List

SW846 Method 8240

Aqueous samples are analyzed in accordance with Method 8240 using a purge and trap technique followed by Gas Chromatography/Mass Spectroscopy.

Quality assurance procedures for GCMS include daily tuning and calibration of the mass spectrometer and the use of surrogate standards in each sample to monitor method performance. Quantitation is performed by the internal standard method. Analysis of blanks, duplicate samples and standards are run frequently as further quality assurance procedures.

TEST CODE ZN I W NAME Zinc - ICP

SW846 Method 6010 - Inductively Coupled Plasma Spectroscopy (ICP)

ENDYNE, INC.

Laboratory Services

32 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT
EPA METHOD 624 -- GC/MS PURGEABLES

CLIENT: So. Vt. Engineering
REPORT DATE: May 8, 1990 ANALYSIS DATE: May 3, 1990
PROJECT NAME: Steamtown STATION: Site #26A
SAMPLER: Gay Hanson/Jim Putnam REF. #: 11,561
DATE SAMPLED: April 23, 1990 DATE RECEIVED: April 24, 1990

Parameter	Quantitation Limit (ug/kg)	Concentration (ug/kg)
Benzene	5	ND[1]
Bromodichloromethane	5	ND
Bromoform	5	ND
Bromomethane	20	ND
Carbon tetrachloride	5	ND
Chlorobenzene	10	ND
Chloroethane	20	ND
2-Chloroethylvinyl ether	10	ND
Chloroform	5	ND
Chloromethane	20	ND
Dibromochloromethane	5	ND
1,2-Dichlorobenzene	10	ND
1,3-Dichlorobenzene	10	ND
1,4-Dichlorobenzene	10	ND
1,1-Dichloroethane	5	ND
1,2-Dichloroethane	5	ND
1,1 Dichloroethene	5	ND
trans-1,2-Dichloroethene	5	ND
1,2-Dichloropropane	10	ND
cis-1,3-Dichloropropene	10	ND
trans-1,3-Dichloropropene	10	ND
Ethylbenzene	10	ND
Methylene Chloride	5	PLE[2]
1,1,2,2-Tetrachloroethane	10	ND
Tetrachloroethene	5	ND
Toluene	10	ND
1,1,1-Trichloroethane	5	ND
1,1,2-Trichloroethane	5	ND
Trichloroethene	5	ND
Trichlorofluoromethane	10	ND
Vinyl Chloride	20	ND
Xylenes	10	ND
MTBE	10	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:

1 None detected
2 Present in background laboratory environment

Reviewed by Suzanne M. Grendahl

ENDYNE, INC.

Laboratory Services

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LABORATORY REPORT
EPA METHOD 624 -- GC/MS PURGEABLES

CLIENT: So. Vt. Engineering
REPORT DATE: May 8, 1990 ANALYSIS DATE: May 3, 1990
PROJECT NAME: Steamtown STATION: Site #45
SAMPLER: Gay Hanson/Jim Putnam REF. #: 11,570
DATE SAMPLED: April 23, 1990 DATE RECEIVED: April 24, 1990

Parameter	Quantitation Limit (ug/kg)	Concentration (ug/kg)
Benzene	5	5.70
Bromodichloromethane	5	ND[1]
Bromoform	5	ND
Bromomethane	20	ND
Carbon tetrachloride	5	ND
Chlorobenzene	10	ND
Chloroethane	20	ND
2-Chloroethylvinyl ether	10	ND
Chloroform	5	ND
Chloromethane	20	ND
Dibromochloromethane	5	ND
1,2-Dichlorobenzene	10	ND
1,3-Dichlorobenzene	10	ND
1,4-Dichlorobenzene	10	ND
1,1-Dichloroethane	5	ND
1,2-Dichloroethane	5	ND
1,1 Dichloroethene	5	ND
trans-1,2-Dichloroethene	5	ND
1,2-Dichloropropane	10	ND
cis-1,3-Dichloropropene	10	ND
trans-1,3-Dichloropropene	10	ND
Ethylbenzene	10	ND
Methylene Chloride	5	PLE[2]
1,1,2,2-Tetrachloroethane	10	ND
Tetrachloroethene	5	ND
Toluene	10	ND
1,1,1-Trichloroethane	5	ND
1,1,2-Trichloroethane	5	ND
Trichloroethene	5	ND
Trichlorofluoromethane	10	ND
Vinyl Chloride	20	ND
Xylenes	10	ND
MTBE	10	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:
1 None detected
2 Present in background laboratory environment

Reviewed by Suzann M. Gerdak

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LABORATORY REPORT
EPA METHOD 624 -- GC/MS PURGEABLES

CLIENT: So. Vt. Engineering
REPORT DATE: May 15, 1990 ANALYSIS DATE: May 8, 1990
PROJECT NAME: Steamtown STATION: Site 50
SAMPLER: Gay Hanson/Jim Putnam REF. #: 11,751
DATE SAMPLED: April 26, 1990 DATE RECEIVED: April 27, 1990

Parameter	Quantitation[3] Limit (ug/kg)	Concentration (ug/kg)
Benzene	5	70.4
Bromodichloromethane	5	ND[1]
Bromoform	5	ND
Bromomethane	20	ND
Carbon tetrachloride	5	ND
Chlorobenzene	10	ND
Chloroethane	20	ND
2-Chloroethylvinyl ether	10	ND
Chloroform	5	ND
Chloromethane	20	ND
Dibromochloromethane	5	ND
1,2-Dichlorobenzene	10	ND
1,3-Dichlorobenzene	10	ND
1,4-Dichlorobenzene	10	ND
1,1-Dichloroethane	5	ND
1,2-Dichloroethane	5	ND
1,1 Dichloroethene	5	ND
trans-1,2-Dichloroethene	5	ND
1,2-Dichloropropane	10	ND
cis-1,3-Dichloropropene	10	ND
trans-1,3-Dichloropropene	10	ND
Ethylbenzene	10	ND
Methylene Chloride	5	PLE[2]
1,1,2,2-Tetrachloroethane	10	599.
Tetrachloroethene	5	93.2
Toluene	10	41.8
1,1,1-Trichloroethane	5	ND
1,1,2-Trichloroethane	5	ND
Trichloroethene	5	180.
Trichlorofluoromethane	10	ND
Vinyl Chloride	20	ND
Xylenes	10	2,220.
MTBE	10	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 2

NOTES:

1 None detected
2 Present in background laboratory environment
3 Dilution increased quantitation limit by a factor of 10

Reviewed by Suzanne M. Fierdah

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S.V.E.

LABORATORY REPORT
EPA METHOD 624 -- GC/MS PURGEABLES

CLIENT: So. Vt. Engineering
REPORT DATE: May 15, 1990
PROJECT NAME: Steamtown
SAMPLER: Gay Hanson/Jim Putnam
DATE SAMPLED: April 24, 1990

ANALYSIS DATE: May 7, 1990
STATION: Site 56
REF. #: 11,637
DATE RECEIVED: April 26, 1990

Parameter	Quantitation[3] Limit (ug/kg)	Concentration (ug/kg)
Benzene	5	17.8
Bromodichloromethane	5	ND[1]
Bromoform	5	ND
Bromomethane	20	ND
Carbon tetrachloride	5	ND
Chlorobenzene	10	ND
Chloroethane	20	ND
2-Chloroethylvinyl ether	10	ND
Chloroform	5	ND
Chloromethane	20	ND
Dibromochloromethane	5	ND
1,2-Dichlorobenzene	10	ND
1,3-Dichlorobenzene	10	ND
1,4-Dichlorobenzene	10	ND
1,1-Dichloroethane	5	ND
1,2-Dichloroethane	5	ND
1,1 Dichloroethene	5	ND
trans-1,2-Dichloroethene	5	ND
1,2-Dichloropropane	10	ND
cis-1,3-Dichloropropene	10	ND
trans-1,3-Dichloropropene	10	ND
Ethylbenzene	10	ND
Methylene Chloride	5	PLE[2]
1,1,2,2-Tetrachloroethane	10	ND
Tetrachloroethene	5	ND
Toluene	10	ND
1,1,1-Trichloroethane	5	ND
1,1,2-Trichloroethane	5	ND
Trichloroethene	5	ND
Trichlorofluoromethane	10	ND
Vinyl Chloride	20	ND
Xylenes	10	ND
MTBE	10	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:
1 None detected
2 Present in background laboratory environment
3 Dilution increased quantitation limit by a factor of 10

Reviewed by Suzanne M. Hendahl

ENDYNE, INC.

Laboratory Services

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LABORATORY REPORT
EPA METHOD 624 -- GC/MS PURGEABLES

CLIENT: So. Vt. Engineering
REPORT DATE: May 15, 1990
PROJECT NAME: Steamtown
SAMPLER: Gay Hanson/Jim Putnam
DATE SAMPLED: April 24, 1990

ANALYSIS DATE: May 7, 1990
STATION: Site 60
REF. #: 11,642
DATE RECEIVED: April 26, 1990

Parameter	Quantitation[3] Limit (ug/kg)	Concentration (ug/kg)
Benzene	5	ND[1]
Bromodichloromethane	5	ND
Bromoform	5	ND
Bromomethane	20	ND
Carbon tetrachloride	5	ND
Chlorobenzene	10	ND
Chloroethane	20	ND
2-Chloroethylvinyl ether	10	ND
Chloroform	5	ND
Chloromethane	20	ND
Dibromochloromethane	5	ND
1,2-Dichlorobenzene	10	ND
1,3-Dichlorobenzene	10	ND
1,4-Dichlorobenzene	10	ND
1,1-Dichloroethane	5	ND
1,2-Dichloroethane	5	ND
1,1 Dichloroethene	5	ND
trans-1,2-Dichloroethene	5	ND
1,2-Dichloropropane	10	ND
cis-1,3-Dichloropropene	10	ND
trans-1,3-Dichloropropene	10	ND
Ethylbenzene	10	22.7
Methylene Chloride	5	PLE[2]
1,1,2,2-Tetrachloroethane	10	ND
Tetrachloroethene	5	ND
Toluene	10	44.1
1,1,1-Trichloroethane	5	ND
1,1,2-Trichloroethane	5	ND
Trichloroethene	5	ND
Trichlorofluoromethane	10	ND
Vinyl Chloride	20	ND
Xylenes	10	52.3
MTBE	10	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:

1 None detected
2 Present in background laboratory environment
3 Dilution increased quantitation limit by a factor of 10

Reviewed by Suzann M. Grandale

ENDYNE, INC.

Laboratory Services

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LABORATORY REPORT
EPA METHOD 624 -- GC/MS PURGEABLES

CLIENT: So. Vt. Engineering
REPORT DATE: May 15, 1990
PROJECT NAME: Steamtown
SAMPLER: Gay Hanson/Jim Putnam
DATE SAMPLED: April 24, 1990

ANALYSIS DATE: May 7, 1990
STATION: Site 76
REF. #: 11,647
DATE RECEIVED: April 26, 1990

Parameter	Quantitation[3] Limit (ug/kg)	Concentration (ug/kg)
Benzene	5	ND[1]
Bromodichloromethane	5	ND
Bromoform	5	ND
Bromomethane	20	ND
Carbon tetrachloride	5	ND
Chlorobenzene	10	ND
Chloroethane	20	ND
2-Chloroethylvinyl ether	10	ND
Chloroform	5	ND
Chloromethane	20	ND
Dibromochloromethane	5	ND
1,2-Dichlorobenzene	10	ND
1,3-Dichlorobenzene	10	ND
1,4-Dichlorobenzene	10	ND
1,1-Dichloroethane	5	ND
1,2-Dichloroethane	5	ND
1,1 Dichloroethene	5	ND
trans-1,2-Dichloroethene	5	ND
1,2-Dichloropropane	10	ND
cis-1,3-Dichloropropene	10	ND
trans-1,3-Dichloropropene	10	ND
Ethylbenzene	10	ND
Methylene Chloride	5	PLE[2]
1,1,2,2-Tetrachloroethane	10	ND
Tetrachloroethene	5	24.6
Toluene	10	ND
1,1,1-Trichloroethane	5	ND
1,1,2-Trichloroethane	5	ND
Trichloroethene	5	ND
Trichlorofluoromethane	10	ND
Vinyl Chloride	20	ND
Xylenes	10	11.9
MTBE	10	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 2

NOTES:

1 None detected
2 Present in background laboratory environment
3 Dilution increased quantitation limit by a factor of 10

Reviewed by Suzanne M. Frendall

ENDYNE, INC.

Laboratory Services

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LABORATORY REPORT
EPA METHOD 624 -- GC/MS PURGEABLES

CLIENT: So. Vt. Engineering
REPORT DATE: May 15, 1990 ANALYSIS DATE: May 8, 1990
PROJECT NAME: Steamtown STATION: Site 81 I
SAMPLER: Gay Hanson/Jim Putnam REF. #: 11,752
DATE SAMPLED: April 26, 1990 DATE RECEIVED: April 27, 1990

Parameter	Quantitation[3] Limit (ug/kg)	Concentration (ug/kg)
Benzene	5	53.0
Bromodichloromethane	5	ND[2]
Bromoform	5	ND
Bromomethane	20	ND
Carbon tetrachloride	5	ND
Chlorobenzene	10	ND
Chloroethane	20	ND
2-Chloroethylvinyl ether	10	ND
Chloroform	5	ND
Chloromethane	20	ND
Dibromochloromethane	5	ND
1,2-Dichlorobenzene	10	ND
1,3-Dichlorobenzene	10	ND
1,4-Dichlorobenzene	10	ND
1,1-Dichloroethane	5	ND
1,2-Dichloroethane	5	ND
1,1 Dichloroethene	5	ND
trans-1,2-Dichloroethene	5	ND
1,2-Dichloropropane	10	ND
cis-1,3-Dichloropropene	10	ND
trans-1,3-Dichloropropene	10	ND
Ethylbenzene	10	ND
Methylene Chloride	5	PLE[2]
1,1,2,2-Tetrachloroethane	10	4.51
Tetrachloroethene	5	63.9
Toluene	10	31.5
1,1,1-Trichloroethane	5	ND
1,1,2-Trichloroethane	5	ND
Trichloroethene	5	135.
Trichlorofluoromethane	10	ND
Vinyl Chloride	20	ND
Xylenes	10	1,680.
MTBE	10	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 3

NOTES:

1 None detected
2 Present in background laboratory environment
3 Dilution increased quantitation limit by a factor of 10

Reviewed by Suzanne M. Fumdahl

ENDYNE, INC.

Laboratory Services

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LABORATORY REPORT
EPA METHOD 624 -- GC/MS PURGEABLES

CLIENT: So. Vt. Engineering
REPORT DATE: May 15, 1990 ANALYSIS DATE: May 8, 1990
PROJECT NAME: Steamtown STATION: Site 82 A
SAMPLER: Gay Hanson/Jim Putnam REF. #: 11,753
DATE SAMPLED: April 26, 1990 DATE RECEIVED: April 27, 1990

Parameter	Quantitation[3] Limit (ug/kg)	Concentration (ug/kg)
Benzene	5	ND[1]
Bromodichloromethane	5	ND
Bromoform	5	ND
Bromomethane	20	ND
Carbon tetrachloride	5	ND
Chlorobenzene	10	ND
Chloroethane	20	ND
2-Chloroethylvinyl ether	10	ND
Chloroform	5	ND
Chloromethane	20	ND
Dibromochloromethane	5	ND
1,2-Dichlorobenzene	10	ND
1,3-Dichlorobenzene	10	ND
1,4-Dichlorobenzene	10	ND
1,1-Dichloroethane	5	ND
1,2-Dichloroethane	5	ND
1,1 Dichloroethene	5	ND
trans-1,2-Dichloroethene	5	ND
1,2-Dichloropropane	10	ND
cis-1,3-Dichloropropene	10	ND
trans-1,3-Dichloropropene	10	ND
Ethylbenzene	10	831.
Methylene Chloride	5	PLE[2]
1,1,2,2-Tetrachloroethane	10	ND
Tetrachloroethene	5	46.5
Toluene	10	85.9
1,1,1-Trichloroethane	5	ND
1,1,2-Trichloroethane	5	ND
Trichloroethene	5	ND
Trichlorofluoromethane	10	ND
Vinyl Chloride	20	ND
Xylenes	10	3,480.
MTBE	10	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 3

NOTES:

1. None detected
2. Present in background laboratory environment
3. Dilution increased quantitation limit by a factor of 10

Reviewed by Suzanne M. Hinckle

ENDYNE, INC.

Laboratory Services

32 James Brown Drive
Williston, Vermont 05495
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LABORATORY REPORT
EPA METHOD 624 -- GC/MS PURGEABLES

CLIENT: So. Vt. Engineering
REPORT DATE: May 15, 1990 ANALYSIS DATE: May 8, 1990
PROJECT NAME: Steamtown STATION: Site 82 B
SAMPLER: Gay Hanson/Jim Putnam REF. #: 11,757
DATE SAMPLED: April 26, 1990 DATE RECEIVED: April 27, 1990

Parameter	Quantitation[3] Limit (ug/kg)	Concentration (ug/kg)
Benzene	5	ND[1]
Bromodichloromethane	5	ND
Bromoform	5	ND
Bromomethane	20	ND
Carbon tetrachloride	5	ND
Chlorobenzene	10	ND
Chloroethane	20	ND
2-Chloroethylvinyl ether	10	ND
Chloroform	5	ND
Chloromethane	20	ND
Dibromochloromethane	5	ND
1,2-Dichlorobenzene	10	ND
1,3-Dichlorobenzene	10	ND
1,4-Dichlorobenzene	10	ND
1,1-Dichloroethane	5	ND
1,2-Dichloroethane	5	ND
1,1 Dichloroethene	5	ND
trans-1,2-Dichloroethene	5	ND
1,2-Dichloropropane	10	ND
cis-1,3-Dichloropropene	10	ND
trans-1,3-Dichloropropene	10	ND
Ethylbenzene	10	545.
Methylene Chloride	5	PLE[2]
1,1,2,2-Tetrachloroethane	10	ND
Tetrachloroethene	5	ND
Toluene	10	60.9
1,1,1-Trichloroethane	5	ND
1,1,2-Trichloroethane	5	ND
Trichloroethene	5	ND
Trichlorofluoromethane	10	ND
Vinyl Chloride	20	ND
Xylenes	10	3,130.
MTBE	10	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 2

NOTES:
1 None detected
2 Present in background laboratory environment
3 Dilution increased quantitation limit by a factor of 10

Reviewed by Suzanne M. Grundahl

ENDYNE, INC.

Laboratory Services

32 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT
EPA METHOD 624 -- GC/MS PURGEABLES

CLIENT: So. Vt. Engineering
REPORT DATE: May 15, 1990
PROJECT NAME: Steamtown
SAMPLER: Gay Hanson/Jim Putnam
DATE SAMPLED: April 24, 1990

ANALYSIS DATE: May 7, 1990
STATION: Site 83
REF. #: 11,649
DATE RECEIVED: April 26, 1990

Parameter	Quantitation[3] Limit (ug/kg)	Concentration (ug/kg)
Benzene	5	ND[1]
Bromodichloromethane	5	ND
Bromoform	5	ND
Bromomethane	20	ND
Carbon tetrachloride	5	ND
Chlorobenzene	10	ND
Chloroethane	20	ND
2-Chloroethylvinyl ether	10	ND
Chloroform	5	ND
Chloromethane	20	ND
Dibromochloromethane	5	ND
1,2-Dichlorobenzene	10	ND
1,3-Dichlorobenzene	10	ND
1,4-Dichlorobenzene	10	ND
1,1-Dichloroethane	5	ND
1,2-Dichloroethane	5	ND
1,1 Dichloroethene	5	ND
trans-1,2-Dichloroethene	5	ND
1,2-Dichloropropane	10	ND
cis-1,3-Dichloropropene	10	ND
trans-1,3-Dichloropropene	10	ND
Ethylbenzene	10	ND
Methylene Chloride	5	PLE[2]
1,1,2,2-Tetrachloroethane	10	ND
Tetrachloroethene	5	ND
Toluene	10	ND
1,1,1-Trichloroethane	5	ND
1,1,2-Trichloroethane	5	ND
Trichloroethene	5	ND
Trichlorofluoromethane	10	ND
Vinyl Chloride	20	ND
Xylenes	10	35.9
MTBE	10	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:
1 None detected
2 Present in background laboratory environment
3 Dilution increased quantitation limit by a factor of 10

Reviewed by Suzanne M. Gibson

ENDYNE, INC.

Laboratory Services

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LABORATORY REPORT
EPA METHOD 624 -- GC/MS PURGEABLES

CLIENT: So. Vt. Engineering
REPORT DATE: May 15, 1990
PROJECT NAME: Steamtown
SAMPLER: Gay Hanson/Jim Putnam
DATE SAMPLED: April 24, 1990

ANALYSIS DATE: May 7, 1990
STATION: Site 107
REF. #: 11,638
DATE RECEIVED: April 26, 1990

Parameter	Quantitation Limit (ug/kg)	Concentration (ug/kg)
Benzene	5	ND[1]
Bromodichloromethane	5	ND
Bromoform	5	ND
Bromomethane	20	ND
Carbon tetrachloride	5	ND
Chlorobenzene	10	ND
Chloroethane	20	ND
2-Chloroethylvinyl ether	10	ND
Chloroform	5	ND
Chloromethane	20	ND
Dibromochloromethane	5	ND
1,2-Dichlorobenzene	10	ND
1,3-Dichlorobenzene	10	ND
1,4-Dichlorobenzene	10	ND
1,1-Dichloroethane	5	ND
1,2-Dichloroethane	5	ND
1,1 Dichloroethene	5	ND
trans-1,2-Dichloroethene	5	ND
1,2-Dichloropropane	10	ND
cis-1,3-Dichloropropene	10	ND
trans-1,3-Dichloropropene	10	ND
Ethylbenzene	10	ND
Methylene Chloride	5	PLE[2]
1,1,2,2-Tetrachloroethane	10	ND
Tetrachloroethene	5	ND
Toluene	10	ND
1,1,1-Trichloroethane	5	ND
1,1,2-Trichloroethane	5	ND
Trichloroethene	5	ND
Trichlorofluoromethane	10	ND
Vinyl Chloride	20	ND
Xylenes	10	ND
MTBE	10	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:

1 None detected
2 Present in background laboratory environment

Reviewed by Suzanne M. Grenier

ENDYNE, INC.

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LABORATORY REPORT
EPA METHOD 624 -- GC/MS PURGEABLES

CLIENT: So. Vt. Engineering
REPORT DATE: May 15, 1990
PROJECT NAME: Steamtown
SAMPLER: Gay Hanson/Jim Putnam
DATE SAMPLED: April 24, 1990

ANALYSIS DATE: May 7, 1990
STATION: Site 108
REF. #: 11,639
DATE RECEIVED: April 26, 1990

Parameter	Quantitation Limit (ug/kg)	Concentration (ug/kg)
Benzene	5	ND[1]
Bromodichloromethane	5	ND
Bromoform	5	ND
Bromomethane	20	ND
Carbon tetrachloride	5	ND
Chlorobenzene	10	ND
Chloroethane	20	ND
2-Chloroethylvinyl ether	10	ND
Chloroform	5	ND
Chloromethane	20	ND
Dibromochloromethane	5	ND
1,2-Dichlorobenzene	10	ND
1,3-Dichlorobenzene	10	ND
I,4-Dichlorobenzene	10	ND
1,1-Dichloroethane	5	ND
1,2-Dichloroethane	5	ND
1,1 Dichloroethene	5	ND
trans-1,2-Dichloroethene	5	ND
1,2-Dichloropropane	10	ND
cis-1,3-Dichloropropene	10	ND
trans-1,3-Dichloropropene	10	ND
Ethylbenzene	10	ND
Methylene Chloride	5	PLE[2]
1,1,2,2-Tetrachloroethane	10	ND
Tetrachloroethene	5	ND
Toluene	10	ND
1,1,1-Trichloroethane	5	ND
1,1,2-Trichloroethane	5	ND
Trichloroethene	5	ND
Trichlorofluoromethane	10	ND
Vinyl Chloride	20	ND
Xylenes	10	ND
MTBE	10	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:
1 None detected
2 Present in background laboratory environment

Reviewed by Suzanne M. Fredette

ENDYNE, INC.

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LABORATORY REPORT
EPA METHOD 624 -- GC/MS PURGEABLES

CLIENT: So. Vt. Engineering
REPORT DATE: May 15, 1990
PROJECT NAME: Steamtown
SAMPLER: Gay Hanson/Jim Putnam
DATE SAMPLED: April 24, 1990

ANALYSIS DATE: May 7, 1990
STATION: Site 57
REF. #: 11,640
DATE RECEIVED: April 26, 1990

Parameter	Quantitation[3] Limit (ug/kg)	Concentration (ug/kg)
Benzene	5	ND[1]
Bromodichloromethane	5	ND
Bromoform	5	ND
Bromomethane	20	ND
Carbon tetrachloride	5	ND
Chlorobenzene	10	ND
Chloroethane	20	ND
2-Chloroethylvinyl ether	10	ND
Chloroform	5	ND
Chloromethane	20	ND
Dibromochloromethane	5	ND
1,2-Dichlorobenzene	10	ND
1,3-Dichlorobenzene	10	ND
1,4-Dichlorobenzene	10	ND
1,1-Dichloroethane	5	ND
1,2-Dichloroethane	5	ND
1,1 Dichloroethene	5	ND
trans-1,2-Dichloroethene	5	ND
1,2-Dichloropropane	10	ND
cis-1,3-Dichloropropene	10	ND
trans-1,3-Dichloropropene	10	ND
Ethylbenzene	10	ND
Methylene Chloride	5	PLE[2]
1,1,2,2-Tetrachloroethane	10	ND
Tetrachloroethene	5	ND
Toluene	10	ND
1,1,1-Trichloroethane	5	ND
1,1,2-Trichloroethane	5	ND
Trichloroethene	5	ND
Trichlorofluoromethane	10	ND
Vinyl Chloride	20	ND
Xylenes	10	ND
MTBE	10	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:

1 None detected
2 Present in background laboratory environment
3 Dilution increased quantitation limit by a factor of 10

Reviewed by Suzanne M. Greenlaw

ENDYNE, INC.

Laboratory Services

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LABORATORY REPORT
EPA METHOD 624 -- GC/MS PURGEABLES

CLIENT: So. Vt. Engineering
REPORT DATE: May 15, 1990
PROJECT NAME: Steamtown
SAMPLER: Gay Hanson/Jim Putnam
DATE SAMPLED: April 24, 1990

ANALYSIS DATE: May 7, 1990
STATION: Site 58
REF. #: 11,641
DATE RECEIVED: April 26, 1990

Parameter	Quantitation[3] Limit (ug/kg)	Concentration (ug/kg)
Benzene	5	ND[1]
Bromodichloromethane	5	ND
Bromoform	5	ND
Bromomethane	20	ND
Carbon tetrachloride	5	ND
Chlorobenzene	10	ND
Chloroethane	20	ND
2-Chloroethylvinyl ether	10	ND
Chloroform	5	ND
Chloromethane	20	ND
Dibromochloromethane	5	ND
1,2-Dichlorobenzene	10	ND
1,3-Dichlorobenzene	10	ND
1,4-Dichlorobenzene	10	ND
1,1-Dichloroethane	5	ND
1,2-Dichloroethane	5	ND
1,1 Dichloroethene	5	ND
trans-1,2-Dichloroethene	5	ND
1,2-Dichloropropane	10	ND
cis-1,3-Dichloropropene	10	ND
trans-1,3-Dichloropropene	10	ND
Ethylbenzene	10	ND
Methylene Chloride	5	PLE[2]
1,1,2,2-Tetrachloroethane	10	ND
Tetrachloroethene	5	ND
Toluene	10	ND
1,1,1-Trichloroethane	5	ND
1,1,2-Trichloroethane	5	ND
Trichloroethene	5	ND
Trichlorofluoromethane	10	ND
Vinyl Chloride	20	ND
Xylenes	10	ND
MTBE	10	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 1

NOTES:

1 None detected
2 Present in background laboratory environment
3 Dilution increased quantitation limit by a factor of 10

Reviewed by Suzanne M. Gunsche

ENDYNE, INC.

Laboratory Services

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LABORATORY REPORT
EPA METHOD 624 -- GC/MS PURGEABLES

CLIENT: So. Vt. Engineering
REPORT DATE: May 15, 1990
PROJECT NAME: Steamtown
SAMPLER: Gay Hanson/Jim Putnam
DATE SAMPLED: April 24, 1990

ANALYSIS DATE: May 7, 1990
STATION: Site 63
REF. #: 11,643
DATE RECEIVED: April 26, 1990

Parameter	Quantitation[3] Limit (ug/kg)	Concentration (ug/kg)
Benzene	5	ND[1]
Bromodichloromethane	5	ND
Bromoform	5	ND
Bromomethane	20	ND
Carbon tetrachloride	5	ND
Chlorobenzene	10	ND
Chloroethane	20	ND
2-Chloroethylvinyl ether	10	ND
Chloroform	5	ND
Chloromethane	20	ND
Dibromochloromethane	5	ND
1,2-Dichlorobenzene	10	ND
1,3-Dichlorobenzene	10	ND
1,4-Dichlorobenzene	10	ND
1,1-Dichloroethane	5	ND
1,2-Dichloroethane	5	ND
1,1 Dichloroethene	5	ND
trans-1,2-Dichloroethene	5	ND
1,2-Dichloropropane	10	ND
cis-1,3-Dichloropropene	10	ND
trans-1,3-Dichloropropene	10	ND
Ethylbenzene	10	ND
Methylene Chloride	5	PLE[2]
1,1,2,2-Tetrachloroethane	10	ND
Tetrachloroethene	5	ND
Toluene	10	ND
1,1,1-Trichloroethane	5	ND
1,1,2-Trichloroethane	5	ND
Trichloroethene	5	ND
Trichlorofluoromethane	10	ND
Vinyl Chloride	20	ND
Xylenes	10	ND
MTBE	10	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 2

NOTES:

1 None detected
2 Present in background laboratory environment
3 Dilution increased quantitation limit by a factor of 10

Reviewed by Suzanne M. Hendar

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LABORATORY REPORT
EPA METHOD 624 -- GC/MS PURGEABLES

CLIENT: So. Vt. Engineering
REPORT DATE: May 15, 1990
PROJECT NAME: Steamtown
SAMPLER: Gay Hanson/Jim Putnam
DATE SAMPLED: April 24, 1990

ANALYSIS DATE: May 7, 1990
STATION: Site 64
REF. #: 11,644
DATE RECEIVED: April 26, 1990

Parameter	Quantitation[3] Limit (ug/kg)	Concentration (ug/kg)
Benzene	5	ND[1]
Bromodichloromethane	5	ND
Bromoform	5	ND
Bromomethane	20	ND
Carbon tetrachloride	5	ND
Chlorobenzene	10	ND
Chloroethane	20	ND
2-Chloroethylvinyl ether	10	ND
Chloroform	5	ND
Chloromethane	20	ND
Dibromochloromethane	5	ND
1,2-Dichlorobenzene	10	ND
1,3-Dichlorobenzene	10	ND
1,4-Dichlorobenzene	10	ND
1,1-Dichloroethane	5	ND
1,2-Dichloroethane	5	ND
1,1 Dichloroethene	5	ND
trans-1,2-Dichloroethene	5	ND
1,2-Dichloropropane	10	ND
cis-1,3-Dichloropropene	10	ND
trans-1,3-Dichloropropene	10	ND
Ethylbenzene	10	ND
Methylene Chloride	5	PLE[2]
1,1,2,2-Tetrachloroethane	10	ND
Tetrachloroethene	5	ND
Toluene	10	ND
1,1,1-Trichloroethane	5	ND
1,1,2-Trichloroethane	5	ND
Trichloroethene	5	ND
Trichlorofluoromethane	10	ND
Vinyl Chloride	20	ND
Xylenes	10	ND
MTBE	10	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:
1 None detected
2 Present in background laboratory environment
3 Dilution increased quantitation limit by a factor of 10

Reviewed by Elizabeth M. Grendahl

ENDYNE, INC.

Laboratory Services

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LABORATORY REPORT
EPA METHOD 624 -- GC/MS PURGEABLES

CLIENT: So. Vt. Engineering
REPORT DATE: May 15, 1990
PROJECT NAME: Steamtown
SAMPLER: Gay Hanson/Jim Putnam
DATE SAMPLED: April 24, 1990

ANALYSIS DATE: May 7, 1990
STATION: Site 80
REF. #: 11,648
DATE RECEIVED: April 26, 1990

Parameter	Quantitation[3] Limit (ug/kg)	Concentration (ug/kg)
Benzene	5	ND[1]
Bromodichloromethane	5	ND
Bromoform	5	ND
Bromomethane	20	ND
Carbon tetrachloride	5	ND
Chlorobenzene	10	ND
Chloroethane	20	ND
2-Chloroethylvinyl ether	10	ND
Chloroform	5	ND
Chloromethane	20	ND
Dibromochloromethane	5	ND
1,2-Dichlorobenzene	10	ND
1,3-Dichlorobenzene	10	ND
1,4-Dichlorobenzene	10	ND
1,1-Dichloroethane	5	ND
1,2-Dichloroethane	5	ND
1,1 Dichloroethene	5	ND
trans-1,2-Dichloroethene	5	ND
1,2-Dichloropropane	10	ND
cis-1,3-Dichloropropene	10	ND
trans-1,3-Dichloropropene	10	ND
Ethylbenzene	10	ND
Methylene Chloride	5	PLE[2]
1,1,2,2-Tetrachloroethane	10	ND
Tetrachloroethene	5	ND
Toluene	10	ND
1,1,1-Trichloroethane	5	ND
1,1,2-Trichloroethane	5	ND
Trichloroethene	5	ND
Trichlorofluoromethane	10	ND
Vinyl Chloride	20	ND
Xylenes	10	ND
MTBE	10	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:

1 None detected
2 Present in background laboratory environment
3 Dilution increased quantitation limit by a factor of 10

Reviewed by Suzanne M. Frendorf

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Laboratory Services

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LABORATORY REPORT
EPA METHOD 624 -- GC/MS PURGEABLES

CLIENT: So. Vt. Engineering
REPORT DATE: May 15, 1990
PROJECT NAME: Steamtown
SAMPLER: Gay Hanson/Jim Putnam
DATE SAMPLED: April 24, 1990

ANALYSIS DATE: May 7, 1990
STATION: Site 97
REF. #: 11,650
DATE RECEIVED: April 26, 1990

Parameter	Quantitation[3] Limit (ug/kg)	Concentration (ug/kg)
Benzene	5	ND[1]
Bromodichloromethane	5	ND
Bromoform	5	ND
Bromomethane	20	ND
Carbon tetrachloride	5	ND
Chlorobenzene	10	ND
Chloroethane	20	ND
2-Chloroethylvinyl ether	10	ND
Chloroform	5	ND
Chloromethane	20	ND
Dibromochloromethane	5	ND
1,2-Dichlorobenzene	10	ND
1,3-Dichlorobenzene	10	ND
1,4-Dichlorobenzene	10	ND
1,1-Dichloroethane	5	ND
1,2-Dichloroethane	5	ND
1,1 Dichloroethene	5	ND
trans-1,2-Dichloroethene	5	ND
1,2-Dichloropropane	10	ND
cis-1,3-Dichloropropene	10	ND
trans-1,3-Dichloropropene	10	ND
Ethylbenzene	10	ND
Methylene Chloride	5	PLE[2]
1,1,2,2-Tetrachloroethane	10	ND
Tetrachloroethene	5	ND
Toluene	10	ND
1,1,1-Trichloroethane	5	ND
1,1,2-Trichloroethane	5	ND
Trichloroethene	5	ND
Trichlorofluoromethane	10	ND
Vinyl Chloride	20	ND
Xylenes	10	ND
MTBE	10	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:

1 None detected
2 Present in background laboratory environment
3 Dilution increased quantitation limit by a factor fo 10

Reviewed by Suzanne M. Theriault

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LABORATORY REPORT
EPA METHOD 624 -- GC/MS PURGEABLES

CLIENT: So. Vt. Engineering
REPORT DATE: May 15, 1990
PROJECT NAME: Steamtown
SAMPLER: Gay Hanson/Jim Putnam
DATE SAMPLED: April 24, 1990

ANALYSIS DATE: May 7, 1990
STATION: Site 110
REF. #: 11,651
DATE RECEIVED: April 26, 1990

Parameter	Quantitation[3] Limit (ug/kg)	Concentration (ug/kg)
Benzene	5	ND[1]
Bromodichloromethane	5	ND
Bromoform	5	ND
Bromomethane	20	ND
Carbon tetrachloride	5	ND
Chlorobenzene	10	ND
Chloroethane	20	ND
2-Chloroethylvinyl ether	10	ND
Chloroform	5	ND
Chloromethane	20	ND
Dibromochloromethane	5	ND
1,2-Dichlorobenzene	10	ND
1,3-Dichlorobenzene	10	ND
1,4-Dichlorobenzene	10	ND
1,1-Dichloroethane	5	ND
1,2-Dichloroethane	5	ND
1,1 Dichloroethene	5	ND
trans-1,2-Dichloroethene	5	ND
1,2-Dichloropropane	10	ND
cis-1,3-Dichloropropene	10	ND
trans-1,3-Dichloropropene	10	ND
Ethylbenzene	10	ND
Methylene Chloride	5	PLE[2]
1,1,2,2-Tetrachloroethane	10	ND
Tetrachloroethene	5	ND
Toluene	10	ND
1,1,1-Trichloroethane	5	ND
1,1,2-Trichloroethane	5	ND
Trichloroethene	5	ND
Trichlorofluoromethane	10	ND
Vinyl Chloride	20	ND
Xylenes	10	ND
MTBE	10	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:

1 None detected
2 Present in background laboratory environment
3 Dilution increased quantitation limit by a factor of 10

Reviewed by Stephen M. Henwood

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LABORATORY REPORT
EPA METHOD 624 -- GC/MS PURGEABLES

CLIENT: So. Vt. Engineering
REPORT DATE: May 15, 1990 ANALYSIS DATE: May 8, 1990
PROJECT NAME: Steamtown STATION: Site 81 0
SAMPLER: Gay Hanson/Jim Putnam REF. #: 11,756
DATE SAMPLED: April 26, 1990 DATE RECEIVED: April 27, 1990

Parameter	Quantitation[3] Limit (ug/kg)	Concentration (ug/kg)
Benzene	5	ND[1]
Bromodichloromethane	5	ND
Bromoform	5	ND
Bromomethane	20	ND
Carbon tetrachloride	5	ND
Chlorobenzene	10	ND
Chloroethane	20	ND
2-Chloroethylvinyl ether	10	ND
Chloroform	5	ND
Chloromethane	20	ND
Dibromochloromethane	5	ND
1,2-Dichlorobenzene	10	ND
1,3-Dichlorobenzene	10	ND
1,4-Dichlorobenzene	10	ND
1,1-Dichloroethane	5	ND
1,2-Dichloroethane	5	ND
1,1 Dichloroethene	5	ND
trans-1,2-Dichloroethene	5	ND
1,2-Dichloropropane	10	ND
cis-1,3-Dichloropropene	10	ND
trans-1,3-Dichloropropene	10	ND
Ethylbenzene	10	ND
Methylene Chloride	5	PLE[2]
1,1,2,2-Tetrachloroethane	10	ND
Tetrachloroethene	5	ND
Toluene	10	ND
1,1,1-Trichloroethane	5	ND
1,1,2-Trichloroethane	5	ND
Trichloroethene	5	ND
Trichlorofluoromethane	10	ND
Vinyl Chloride	20	ND
Xylenes	10	ND
MTBE	10	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:

1 None detected
2 Present in background laboratory environment
3 Dilution increased quantitation limit by a factor of 10

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LABORATORY REPORT
EPA METHOD 624 -- GC/MS PURGEABLES

CLIENT: So. Vt. Engineering
REPORT DATE: May 8, 1990 ANALYSIS DATE: May 3, 1990
PROJECT NAME: Steamtown STATION: Site #2
SAMPLER: Gay Hanson/Jim Putnam REF. #: 11,553
DATE SAMPLED: April 23, 1990 DATE RECEIVED: April 24, 1990

Parameter	Quantitation Limit (ug/kg)	Concentration (ug/kg)
Benzene	5	ND[1]
Bromodichloromethane	5	ND
Bromoform	5	ND
Bromomethane	20	ND
Carbon tetrachloride	5	ND
Chlorobenzene	10	ND
Chloroethane	20	ND
2-Chloroethylvinyl ether	10	ND
Chloroform	5	ND
Chloromethane	20	ND
Dibromochloromethane	5	ND
1,2-Dichlorobenzene	10	ND
1,3-Dichlorobenzene	10	ND
1,4-Dichlorobenzene	10	ND
1,1-Dichloroethane	5	ND
1,2-Dichloroethane	5	ND
1,1 Dichloroethene	5	ND
trans-1,2-Dichloroethene	5	ND
1,2-Dichloropropane	10	ND
cis-1,3-Dichloropropene	10	ND
trans-1,3-Dichloropropene	10	ND
Ethylbenzene	10	ND
Methylene Chloride	5	PLE[2]
1,1,2,2-Tetrachloroethane	10	ND
Tetrachloroethene	5	ND
Toluene	10	ND
1,1,1-Trichloroethane	5	ND
1,1,2-Trichloroethane	5	ND
Trichloroethene	5	ND
Trichlorofluoromethane	10	ND
Vinyl Chloride	20	ND
Xylenes	10	ND
MTBE	10	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:
1 None detected
2 Present in background laboratory environment

Reviewed by Suzanne M. Gardabl

ENDYNE, INC.

Laboratory Services

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LABORATORY REPORT
EPA METHOD 624 -- GC/MS PURGEABLES

CLIENT: So. Vt. Engineering
REPORT DATE: May 8, 1990 ANALYSIS DATE: May 3, 1990
PROJECT NAME: Steamtown STATION: Site #6
SAMPLER: Gay Hanson/Jim Putnam REF. #: 11,555
DATE SAMPLED: April 23, 1990 DATE RECEIVED: April 24, 1990

Parameter	Quantitation Limit (ug/kg)	Concentration (ug/kg)
Benzene	5	ND[1]
Bromodichloromethane	5	ND
Bromoform	5	ND
Bromomethane	20	ND
Carbon tetrachloride	5	ND
Chlorobenzene	10	ND
Chloroethane	20	ND
2-Chloroethylvinyl ether	10	ND
Chloroform	5	ND
Chloromethane	20	ND
Dibromochloromethane	5	ND
1,2-Dichlorobenzene	10	ND
1,3-Dichlorobenzene	10	ND
1,4-Dichlorobenzene	10	ND
1,1-Dichloroethane	5	ND
1,2-Dichloroethane	5	ND
1,1 Dichloroethene	5	ND
trans-1,2-Dichloroethene	5	ND
1,2-Dichloropropane	10	ND
cis-1,3-Dichloropropene	10	ND
trans-1,3-Dichloropropene	10	ND
Ethylbenzene	10	ND
Methylene Chloride	5	PLE[2]
1,1,2,2-Tetrachloroethane	10	ND
Tetrachloroethene	5	ND
Toluene	10	ND
1,1,1-Trichloroethane	5	ND
1,1,2-Trichloroethane	5	ND
Trichloroethene	5	ND
Trichlorofluoromethane	10	ND
Vinyl Chloride	20	ND
Xylenes	10	ND
MTBE	10	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:
1 None detected
2 Present in background laboratory environment

Reviewed by Suzanne M. Hendahl

ENDYNE, INC.

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LABORATORY REPORT
EPA METHOD 624 -- GC/MS PURGEABLES

CLIENT: So. Vt. Engineering
REPORT DATE: May 8, 1990 ANALYSIS DATE: May 3, 1990
PROJECT NAME: Steamtown STATION: Site #22
SAMPLER: Gay Hanson/Jim Putnam REF. #: 11,558
DATE SAMPLED: April 23, 1990 DATE RECEIVED: April 24, 1990

Parameter	Quantitation Limit (ug/kg)	Concentration (ug/kg)
Benzene	5	ND[1]
Bromodichloromethane	5	ND
Bromoform	5	ND
Bromomethane	20	ND
Carbon tetrachloride	5	ND
Chlorobenzene	10	ND
Chloroethane	20	ND
2-Chloroethylvinyl ether	10	ND
Chloroform	5	ND
Chloromethane	20	ND
Dibromochloromethane	5	ND
1,2-Dichlorobenzene	10	ND
1,3-Dichlorobenzene	10	ND
1,4-Dichlorobenzene	10	ND
1,1-Dichloroethane	5	ND
1,2-Dichloroethane	5	ND
1,1 Dichloroethene	5	ND
trans-1,2-Dichloroethene	5	ND
1,2-Dichloropropane	10	ND
cis-1,3-Dichloropropene	10	ND
trans-1,3-Dichloropropene	10	ND
Ethylbenzene	10	ND
Methylene Chloride	5	PLE[2]
1,1,2,2-Tetrachloroethane	10	ND
Tetrachloroethene	5	ND
Toluene	10	ND
1,1,1-Trichloroethane	5	ND
1,1,2-Trichloroethane	5	ND
Trichloroethene	5	ND
Trichlorofluoromethane	10	ND
Vinyl Chloride	20	ND
Xylenes	10	ND
MTBE	10	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:
1 None detected
2 Present in background laboratory environment

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LABORATORY REPORT
EPA METHOD 624 -- GC/MS PURGEABLES

CLIENT: So. Vt. Engineering
REPORT DATE: May 8, 1990 ANALYSIS DATE: May 3, 1990
PROJECT NAME: Steamtown STATION: Site #23
SAMPLER: Gay Hanson/Jim Putnam REF. #: 11,559
DATE SAMPLED: April 23, 1990 DATE RECEIVED: April 24, 1990

Parameter	Quantitation Limit (ug/kg)	Concentration (ug/kg)
Benzene	5	ND[1]
Bromodichloromethane	5	ND
Bromoform	5	ND
Bromomethane	20	ND
Carbon tetrachloride	5	ND
Chlorobenzene	10	ND
Chloroethane	20	ND
2-Chloroethylvinyl ether	10	ND
Chloroform	5	ND
Chloromethane	20	ND
Dibromochloromethane	5	ND
1,2-Dichlorobenzene	10	ND
1,3-Dichlorobenzene	10	ND
1,4-Dichlorobenzene	10	ND
1,1-Dichloroethane	5	ND
1,2-Dichloroethane	5	ND
1,1 Dichloroethene	5	ND
trans-1,2-Dichloroethene	5	ND
1,2-Dichloropropane	10	ND
cis-1,3-Dichloropropene	10	ND
trans-1,3-Dichloropropene	10	ND
Ethylbenzene	10	ND
Methylene Chloride	5	PLE[2]
1,1,2,2-Tetrachloroethane	10	ND
Tetrachloroethene	5	ND
Toluene	10	ND
1,1,1-Trichloroethane	5	ND
1,1,2-Trichloroethane	5	ND
Trichloroethene	5	ND
Trichlorofluoromethane	10	ND
Vinyl Chloride	20	ND
Xylenes	10	ND
MTBE	10	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:
1 None detected
2 Present in background laboratory environment

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LABORATORY REPORT
EPA METHOD 624 -- GC/MS PURGEABLES

CLIENT: So. Vt. Engineering
REPORT DATE: May 8, 1990 ANALYSIS DATE: May 3, 1990
PROJECT NAME: Steamtown STATION: Site #28
SAMPLER: Gay Hanson/Jim Putnam REF. #: 11,562
DATE SAMPLED: April 23, 1990 DATE RECEIVED: April 24, 1990

Parameter	Quantitation Limit (ug/kg)	Concentration (ug/kg)
Benzene	5	ND[1]
Bromodichloromethane	5	ND
Bromoform	5	ND
Bromomethane	20	ND
Carbon tetrachloride	5	ND
Chlorobenzene	10	ND
Chloroethane	20	ND
2-Chloroethylvinyl ether	10	ND
Chloroform	5	ND
Chloromethane	20	ND
Dibromochloromethane	5	ND
1,2-Dichlorobenzene	10	ND
1,3-Dichlorobenzene	10	ND
1,4-Dichlorobenzene	10	ND
1,1-Dichloroethane	5	ND
1,2-Dichloroethane	5	ND
1,1 Dichloroethene	5	ND
trans-1,2-Dichloroethene	5	ND
1,2-Dichloropropane	10	ND
cis-1,3-Dichloropropene	10	ND
trans-1,3-Dichloropropene	10	ND
Ethylbenzene	10	ND
Methylene Chloride	5	PLE[2]
1,1,2,2-Tetrachloroethane	10	ND
Tetrachloroethene	5	ND
Toluene	10	ND
1,1,1-Trichloroethane	5	ND
1,1,2-Trichloroethane	5	ND
Trichloroethene	5	ND
Trichlorofluoromethane	10	ND
Vinyl Chloride	20	ND
Xylenes	10	ND
MTBE	10	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:
1 None detected
2 Present in background laboratory environment

Reviewed by Suzanne M. Hendall

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LABORATORY REPORT
EPA METHOD 624 -- GC/MS PURGEABLES

CLIENT: So. Vt. Engineering
REPORT DATE: May 8, 1990 ANALYSIS DATE: May 3, 1990
PROJECT NAME: Steamtown STATION: Site #31
SAMPLER: Gay Hanson/Jim Putnam REF. #: 11,563
DATE SAMPLED: April 23, 1990 DATE RECEIVED: April 24, 1990

Parameter	Quantitation Limit (ug/kg)	Concentration (ug/kg)
Benzene	5	ND[1]
Bromodichloromethane	5	ND
Bromoform	5	ND
Bromomethane	20	ND
Carbon tetrachloride	5	ND
Chlorobenzene	10	ND
Chloroethane	20	ND
2-Chloroethylvinyl ether	10	ND
Chloroform	5	ND
Chloromethane	20	ND
Dibromochloromethane	5	ND
1,2-Dichlorobenzene	10	ND
1,3-Dichlorobenzene	10	ND
1,4-Dichlorobenzene	10	ND
1,1-Dichloroethane	5	ND
1,2-Dichloroethane	5	ND
1,1 Dichloroethene	5	ND
trans-1,2-Dichloroethene	5	ND
1,2-Dichloropropane	10	ND
cis-1,3-Dichloropropene	10	ND
trans-1,3-Dichloropropene	10	ND
Ethylbenzene	10	ND
Methylene Chloride	5	PLE[2]
1,1,2,2-Tetrachloroethane	10	ND
Tetrachloroethene	5	ND
Toluene	10	ND
1,1,1-Trichloroethane	5	ND
1,1,2-Trichloroethane	5	ND
Trichloroethene	5	ND
Trichlorofluoromethane	10	ND
Vinyl Chloride	20	ND
Xylenes	10	ND
MTBE	10	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:
1 None detected
2 Present in background laboratory environment

Reviewed by Suzanne M. Grenache

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LABORATORY REPORT
EPA METHOD 624 -- GC/MS PURGEABLES

CLIENT: So. Vt. Engineering
REPORT DATE: May 8, 1990 ANALYSIS DATE: May 3, 1990
PROJECT NAME: Steamtown STATION: Site #33
SAMPLER: Gay Hanson/Jim Putnam REF. #: 11,564
DATE SAMPLED: April 23, 1990 DATE RECEIVED: April 24, 1990

Parameter	Quantitation Limit (ug/kg)	Concentration (ug/kg)
Benzene	5	ND[1]
Bromodichloromethane	5	ND
Bromoform	5	ND
Bromomethane	20	ND
Carbon tetrachloride	5	ND
Chlorobenzene	10	ND
Chloroethane	20	ND
2-Chloroethylvinyl ether	10	ND
Chloroform	5	ND
Chloromethane	20	ND
Dibromochloromethane	5	ND
1,2-Dichlorobenzene	10	ND
1,3-Dichlorobenzene	10	ND
1,4-Dichlorobenzene	10	ND
1,1-Dichloroethane	5	ND
1,2-Dichloroethane	5	ND
1,1 Dichloroethene	5	ND
trans-1,2-Dichloroethene	5	ND
1,2-Dichloropropane	10	ND
cis-1,3-Dichloropropene	10	ND
trans-1,3-Dichloropropene	10	ND
Ethylbenzene	10	ND
Methylene Chloride	5	PLE[2]
1,1,2,2-Tetrachloroethane	10	ND
Tetrachloroethene	5	ND
Toluene	10	ND
1,1,1-Trichloroethane	5	ND
1,1,2-Trichloroethane	5	ND
Trichloroethene	5	ND
Trichlorofluoromethane	10	ND
Vinyl Chloride	20	ND
Xylenes	10	ND
MTBE	10	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:
1 None detected
2 Present in background laboratory environment

Reviewed by Suzanne M. Grendahl

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LABORATORY REPORT
EPA METHOD 624 -- GC/MS PURGEABLES

CLIENT: So. Vt. Engineering
REPORT DATE: May 8, 1990 ANALYSIS DATE: May 3, 1990
PROJECT NAME: Steamtown STATION: Site #36A
SAMPLER: Gay Hanson/Jim Putnam REF. #: 11,566
DATE SAMPLED: April 23, 1990 DATE RECEIVED: April 24, 1990

Parameter	Quantitation Limit (ug/kg)	Concentration (ug/kg)
Benzene	5	ND[1]
Bromodichloromethane	5	ND
Bromoform	5	ND
Bromomethane	20	ND
Carbon tetrachloride	5	ND
Chlorobenzene	10	ND
Chloroethane	20	ND
2-Chloroethylvinyl ether	10	ND
Chloroform	5	ND
Chloromethane	20	ND
Dibromochloromethane	5	ND
1,2-Dichlorobenzene	10	ND
1,3-Dichlorobenzene	10	ND
1,4-Dichlorobenzene	10	ND
1,1-Dichloroethane	5	ND
1,2-Dichloroethane	5	ND
1,1 Dichloroethene	5	ND
trans-1,2-Dichloroethene	5	ND
1,2-Dichloropropane	10	ND
cis-1,3-Dichloropropene	10	ND
trans-1,3-Dichloropropene	10	ND
Ethylbenzene	10	ND
Methylene Chloride	5	PLE[2]
1,1,2,2-Tetrachloroethane	10	ND
Tetrachloroethene	5	ND
Toluene	10	ND
1,1,1-Trichloroethane	5	ND
1,1,2-Trichloroethane	5	ND
Trichloroethene	5	ND
Trichlorofluoromethane	10	ND
Vinyl Chloride	20	ND
Xylenes	10	ND
MTBE	10	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:
1 None detected
2 Present in background laboratory environment

Reviewed by Suzanne M. Grendahl

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LABORATORY REPORT
EPA METHOD 624 -- GC/MS PURGEABLES

CLIENT: So. Vt. Engineering
REPORT DATE: May 8, 1990 ANALYSIS DATE: May 3, 1990
PROJECT NAME: Steamtown STATION: Site #36
SAMPLER: Gay Hanson/Jim Putnam REF. #: 11,567
DATE SAMPLED: April 23, 1990 DATE RECEIVED: April 24, 1990

Parameter	Quantitation Limit (ug/L)	Concentration (ug/L)
Benzene	5	ND[1]
Bromodichloromethane	5	ND
Bromoform	5	ND
Bromomethane	20	ND
Carbon tetrachloride	5	ND
Chlorobenzene	10	ND
Chloroethane	20	ND
2-Chloroethylvinyl ether	10	ND
Chloroform	5	ND
Chloromethane	20	ND
Dibromochloromethane	5	ND
1,2-Dichlorobenzene	10	ND
1,3-Dichlorobenzene	10	ND
1,4-Dichlorobenzene	10	ND
1,1-Dichloroethane	5	ND
1,2-Dichloroethane	5	ND
1,1 Dichloroethene	5	ND
trans-1,2-Dichloroethene	5	ND
1,2-Dichloropropane	10	ND
cis-1,3-Dichloropropene	10	ND
trans-1,3-Dichloropropene	10	ND
Ethylbenzene	10	ND
Methylene Chloride	5	PLE[2]
1,1,2,2-Tetrachloroethane	10	ND
Tetrachloroethene	5	ND
Toluene	10	ND
1,1,1-Trichloroethane	5	ND
1,1,2-Trichloroethane	5	ND
Trichloroethene	5	ND
Trichlorofluoromethane	10	ND
Vinyl Chloride	20	ND
Xylenes	10	ND
MTBE	10	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:
1 None detected
2 Present in background laboratory environment

Reviewed by Suzanne M. Grendahl

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LABORATORY REPORT
EPA METHOD 624 -- GC/MS PURGEABLES

CLIENT: So. Vt. Engineering
REPORT DATE: May 8, 1990
PROJECT NAME: Steamtown
SAMPLER: Gay Hanson/Jim Putnam
DATE SAMPLED: April 23, 1990

ANALYSIS DATE: May 3, 1990
STATION: Site #37
REF. #: 11,568
DATE RECEIVED: April 24, 1990

Parameter	Quantitation Limit (ug/kg)	Concentration (ug/kg)
Benzene	5	ND[1]
Bromodichloromethane	5	ND
Bromoform	5	ND
Bromomethane	20	ND
Carbon tetrachloride	5	ND
Chlorobenzene	10	ND
Chloroethane	20	ND
2-Chloroethylvinyl ether	10	ND
Chloroform	5	ND
Chloromethane	20	ND
Dibromochloromethane	5	ND
1,2-Dichlorobenzene	10	ND
1,3-Dichlorobenzene	10	ND
1,4-Dichlorobenzene	10	ND
1,1-Dichloroethane	5	ND
1,2-Dichloroethane	5	ND
1,1 Dichloroethene	5	ND
trans-1,2-Dichloroethene	5	ND
1,2-Dichloropropane	10	ND
cis-1,3-Dichloropropene	10	ND
trans-1,3-Dichloropropene	10	ND
Ethylbenzene	10	ND
Methylene Chloride	5	PLE[2]
1,1,2,2-Tetrachloroethane	10	ND
Tetrachloroethene	5	ND
Toluene	10	ND
1,1,1-Trichloroethane	5	ND
1,1,2-Trichloroethane	5	ND
Trichloroethene	5	ND
Trichlorofluoromethane	10	ND
Vinyl Chloride	20	ND
Xylenes	10	ND
MTBE	10	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:
1 None detected
2 Present in background laboratory environment

Reviewed by Suzanne M. Grendahl

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LABORATORY REPORT
EPA METHOD 624 -- GC/MS PURGEABLES

CLIENT: So. Vt. Engineering
REPORT DATE: May 8, 1990
PROJECT NAME: Steamtown
SAMPLER: Gay Hanson/Jim Putnam
DATE SAMPLED: April 23, 1990

ANALYSIS DATE: May 3, 1990
STATION: Site #41
REF. #: 11,569
DATE RECEIVED: April 24, 1990

Parameter	Quantitation Limit (ug/ug)	Concentration (ug/kg)
Benzene	5	ND[1]
Bromodichloromethane	5	ND
Bromoform	5	ND
Bromomethane	20	ND
Carbon tetrachloride	5	ND
Chlorobenzene	10	ND
Chloroethane	20	ND
2-Chloroethylvinyl ether	10	ND
Chloroform	5	ND
Chloromethane	20	ND
Dibromochloromethane	5	ND
1,2-Dichlorobenzene	10	ND
1,3-Dichlorobenzene	10	ND
1,4-Dichlorobenzene	10	ND
1,1-Dichloroethane	5	ND
1,2-Dichloroethane	5	ND
1,1 Dichloroethene	5	ND
trans-1,2-Dichloroethene	5	ND
1,2-Dichloropropane	10	ND
cis-1,3-Dichloropropene	10	ND
trans-1,3-Dichloropropene	10	ND
Ethylbenzene	10	ND
Methylene Chloride	5	PLE[2]
1,1,2,2-Tetrachloroethane	10	ND
Tetrachloroethene	5	ND
Toluene	10	ND
1,1,1-Trichloroethane	5	ND
1,1,2-Trichloroethane	5	ND
Trichloroethene	5	ND
Trichlorofluoromethane	10	ND
Vinyl Chloride	20	ND
Xylenes	10	ND
MTBE	10	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:

1 None detected
2 Present in background laboratory environment

Reviewed by Suzanne M. Genesse

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LABORATORY REPORT
EPA METHOD 624 -- GC/MS PURGEABLES

CLIENT: So. Vt. Engineering
REPORT DATE: May 8, 1990 ANALYSIS DATE: May 3, 1990
PROJECT NAME: Steamtown STATION: Site #51
SAMPLER: Gay Hanson/Jim Putnam REF. #: 11,571
DATE SAMPLED: April 23, 1990 DATE RECEIVED: April 24, 1990

Parameter	Quantitation Limit (ug/kg)	Concentration (ug/kg)
Benzene	5	ND[1]
Bromodichloromethane	5	ND
Bromoform	5	ND
Bromomethane	20	ND
Carbon tetrachloride	5	ND
Chlorobenzene	10	ND
Chloroethane	20	ND
2-Chloroethylvinyl ether	10	ND
Chloroform	5	ND
Chloromethane	20	ND
Dibromochloromethane	5	ND
1,2-Dichlorobenzene	10	ND
1,3-Dichlorobenzene	10	ND
1,4-Dichlorobenzene	10	ND
1,1-Dichloroethane	5	ND
1,2-Dichloroethane	5	ND
1,1 Dichloroethene	5	ND
trans-1,2-Dichloroethene	5	ND
1,2-Dichloropropane	10	ND
cis-1,3-Dichloropropene	10	ND
trans-1,3-Dichloropropene	10	ND
Ethylbenzene	10	ND
Methylene Chloride	5	PLE[2]
1,1,2,2-Tetrachloroethane	10	ND
Tetrachloroethene	5	ND
Toluene	10	ND
1,1,1-Trichloroethane	5	ND
1,1,2-Trichloroethane	5	ND
Trichloroethene	5	ND
Trichlorofluoromethane	10	ND
Vinyl Chloride	20	ND
Xylenes	10	ND
MTBE	10	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:
1 None detected
2 Present in background laboratory environment

Reviewed by Suzanne M. Grendahl

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LABORATORY REPORT
EPA METHOD 624 -- GC/MS PURGEABLES

CLIENT: So. Vt. Engineering
REPORT DATE: May 8, 1990 ANALYSIS DATE: May 3, 1990
PROJECT NAME: Steamtown STATION: Site #52
SAMPLER: Gay Hanson/Jim Putnam REF. #: 11,572
DATE SAMPLED: April 23, 1990 DATE RECEIVED: April 24, 1990

Parameter	Quantitation Limit (ug/kg)	Concentration (ug/kg)
Benzene	5	ND[1]
Bromodichloromethane	5	ND
Bromoform	5	ND
Bromomethane	20	ND
Carbon tetrachloride	5	ND
Chlorobenzene	10	ND
Chloroethane	20	ND
2-Chloroethylvinyl ether	10	ND
Chloroform	5	ND
Chloromethane	20	ND
Dibromochloromethane	5	ND
1,2-Dichlorobenzene	10	ND
1,3-Dichlorobenzene	10	ND
1,4-Dichlorobenzene	10	ND
1,1-Dichloroethane	5	ND
1,2-Dichloroethane	5	ND
1,1 Dichloroethene	5	ND
trans-1,2-Dichloroethene	5	ND
1,2-Dichloropropane	10	ND
cis-1,3-Dichloropropene	10	ND
trans-1,3-Dichloropropene	10	ND
Ethylbenzene	10	ND
Methylene Chloride	5	PLE[2]
1,1,2,2-Tetrachloroethane	10	ND
Tetrachloroethene	5	ND
Toluene	10	ND
1,1,1-Trichloroethane	5	ND
1,1,2-Trichloroethane	5	ND
Trichloroethene	5	ND
Trichlorofluoromethane	10	ND
Vinyl Chloride	20	ND
Xylenes	10	ND
MTBE	10	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:
1 None detected
2 Present in background laboratory environment

Reviewed by Suzanne M. Grendahl

ENDYNE, INC.

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LABORATORY REPORT

DATE: May 29, 1990
CLIENT: Southern Vermont Engineering
PROJECT: Steamtown
SAMPLE COLLECTED BY: Gay Hanson/Jim Putnam
DATE SAMPLED: April 23, 1990
DATE RECEIVED: April 24, 1990

Tested parameters are reported in milligrams per kilogram (ppm).*

Parameter	Reference Number			
	11,598	11,600	11,603	11,604
Arsenic	5.00	9.00	10.0	12.0
Barium	25.0	61.8	20.7	20.9
Cadmium	2.5	0.8	0.33	0.75
Chromium	16.0	5.0	21.0	24.0
Lead	61.0	15.0	52.0	18.0
Mercury	0.062	0.026	<0.011	<0.011
Nickel	9.10	12.5	16.6	17.6
Silver	0.300	0.200	0.200	0.200
Copper	9.09	13.2	6.22	8.81
Iron	12864.	2312.	11743.	12863.
Manganese	272.	126.	394.	418.
Zinc	45.0	2.51	<2.07	<2.20
Selenium	<0.450	<0.450	<0.400	0.900

Sample ID:

11,598: Site #2; 10:33 a.m.
11,600: Site 6; 11:15 a.m.
11,603: Site 22; 12:34 p.m.
11,604: Site 23; 12:43 p.m.

Notes:

* Detection limits may vary depending on amount of soil used in extraction

Reviewed by Suzanne M. Grendahl

ENDYNE, INC.

Laboratory Services

32 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

DATE: May 29, 1990
CLIENT: Southern Vermont Engineering
PROJECT: Steamtown
SAMPLE COLLECTED BY: Gay Hanson/Jim Putnam
DATE SAMPLED: April 24, 1990
DATE RECEIVED: April 25, 1990

Tested parameters are reported in milligrams per kilogram (ppm).

Parameter	Reference Number			
	11,670	11,671	11,672	11,673
Arsenic	9.00	15.0	50.0	10.0
Barium	15.0	438.	67.2	31.3
Cadmium	0.500	0.600	1.60	0.400
Chromium	20.0	175.	50.0	25.0
Lead	65.0	30.0	597.	38.0
Mercury	<0.011	<0.011	<0.011	<0.011
Nickel	23.5	163.	63.2	25.2
Silver	0.200	0.400	0.600	0.200
Copper	10.0	498.	1,343.	10.0
Iron	14,150.	26,250.	18,000.	15,000.
Manganese	200.	845.	500.	100.
Zinc	46.0	67.2	217.	37.5
Selenium	<0.450	<0.450	<0.450	<0.450

Sample ID:

11,670: Site 56; 12:41
11,671: Site 107; 12:26
11,672: Site 108; 12:32
11,673: Site 57; 12:48

Reviewed by Suzann M. Hendahl

ENDYNE, INC.

Laboratory Services

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LABORATORY REPORT

DATE: May 29, 1990
CLIENT: Southern Vermont Engineering
PROJECT: Steamtown
SAMPLE COLLECTED BY: Gay Hanson/Jim Putnam
DATE SAMPLED: April 24, 1990
DATE RECEIVED: April 25, 1990

Tested parameters are reported in milligrams per kilogram (ppm).

Parameter	Reference Number			
	11,674	11,675	11,676	11,677
Arsenic	17.0	6.00	8.00	9.00
Barium	33.8	20.2	17.3	16.1
Cadmium	0.400	0.200	1.60	0.300
Chromium	125.	24.0	30.0	225.
Lead	39.0	45.0	54.0	12.0
Mercury	<0.011	0.290	0.023	2.83
Nickel	4.95	12.1	13.8	23.2
Silver	0.100	0.100	0.100	0.100
Copper	15.0	4.76	9.90	7.43
Iron	14,600.	11,250.	13,750.	14,150.
Manganese	75.0	300.	350.	375.
Zinc	19.0	34.9	105.	32.7
Selenium	<0.450	<0.450	<0.450	<0.450

Sample ID:

11,674: Site 58; 12:57
11,675: Site 60; 1:03
11,676: Site 63; 1:19
11,677: Site 64; 1:32

Reviewed by Suzann M. Grendahl

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LABORATORY REPORT

DATE: May 29, 1990
CLIENT: Southern Vermont Engineering
PROJECT: Steamtown
SAMPLE COLLECTED BY: Gay Hanson/Jim Putnam
DATE SAMPLED: April 24, 1990
DATE RECEIVED: April 25, 1990

Tested parameters are reported in milligrams per kilogram (ppm).

Parameter	Reference Number			
	11,679	11,680	11,681	11,682
Arsenic	43.0	8.00	6.00	8.00
Barium	112.	13.7	20.7	13.4
Cadmium	0.600	0.200	0.300	0.400
Chromium	568.	0.150	2.4	18.0
Lead	995.	27.0	29.0	27.0
Mercury	<0.011	<0.011	0.038	0.023
Nickel	228.	4.18	20.6	18.0
Silver	0.200	0.200	0.100	0.090
Copper	1,005.	4.98	9.76	12.3
Iron	16,500.	14,150.	17,500.	14,600.
Manganese	1,250.	50.	375.	200.
Zinc	1,111.	7.96	82.0	28.4
Selenium	1.0	<0.450	<0.450	0.700

Sample ID:

11,679: Site 72; 2:00
11,680: Site 76; 2:13
11,681: Site 80; 2:21
11,682: Site 83; 2:30

Reviewed by Suzanne M Grendahl

ENDYNE, INC.

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LABORATORY REPORT

DATE: May 29, 1990
CLIENT: Southern Vermont Engineering
PROJECT: Steamtown
SAMPLE COLLECTED BY: Gay Hanson/Jim Putnam
DATE SAMPLED: April 24, 1990
DATE RECEIVED: April 25, 1990

Tested parameters are reported in milligrams per kilogram (ppm).

Parameter	Reference Number	
	11,683	11,684
Arsenic	9.00	13.0
Barium	9.95	33.8
Cadmium	0.200	0.400
Chromium	23.0	22.0
Lead	22.0	45.0
Mercury	0.045	<0.011
Nickel	22.2	16.5
Silver	0.090	0.100
Copper	9.95	30.0
Iron	14,600.	14,600.
Manganese	175.	275.
Zinc	24.4	51.5
Selenium	<0.450	0.700

Sample ID:

11,683: Site 97; 2:53
11,684: Site 110; 2:45

Reviewed by Suzann M. Grendahl

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LABORATORY REPORT

DATE: May 29, 1990
CLIENT: Southern Vermont Engineering
PROJECT: Steamtown
SAMPLE COLLECTED BY: Gay Hanson/Jim Putnam
DATE SAMPLED: April 26, 1990
DATE RECEIVED: April 27, 1990

Tested parameters are reported in milligrams per kilogram (ppm).

Parameter	Reference Number			
	11,765	11,766	11,767	11,768
Arsenic	7.00	7.00	7.00	9.00
Barium	15.4	27.2	11.2	81.6
Cadmium	0.700	1.20	0.50	0.8
Chromium	125.	28.0	18.0	88.0
Lead	632.	143.	50.	142.
Mercury	0.036	<0.011	<0.011	<0.011
Nickel	17.8	30.8	16.5	38.4
Silver	0.060	0.090	0.090	0.100
Copper	55.	39.6	17.4	49.0
Iron	17,500.	17,500.	14,600.	20,250.
Manganese	250.	125.	125.	175.
Zinc	26.9	71.3	22.8	118.
Selenium	<0.450	<0.450	<0.450	<0.450

Sample ID:

11,765: Site 50; 11:50
11,766: Site 81 I; 12:04
11,767: Site 82 A; 12:15
11,768: Site 95; 1:04

Reviewed by Suzanne M. Grendahl

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LABORATORY REPORT

DATE: May 29, 1990
CLIENT: Southern Vermont Engineering
PROJECT: Steamtown
SAMPLE COLLECTED BY: Gay Hanson/Jim Putnam
DATE SAMPLED: April 26, 1990
DATE RECEIVED: April 27, 1990

Tested parameters are reported in milligrams per kilogram (ppm).

Parameter	Reference Number	
	11,770	11,771
Arsenic	8.00	9.00
Barium	11.1	11.1
Cadmium	0.500	0.600
Chromium	23.	20.
Lead	27.0	37.0
Mercury	0.11	<0.011
Nickel	22.3	19.2
Silver	0.05	0.070
Copper	27.2	29.9
Iron	14,600.	150.
Manganese	225.	150.
Zinc	35.6	33.3
Selenium	<0.450	0.800

Sample ID:

11,770: Site 81 0; 11:59
11,771: Site 82 B; 12:22

Reviewed by Suzanne M. Hendrickson

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LABORATORY REPORT

DATE: May 29, 1990
CLIENT: Southern Vermont Engineering
PROJECT: Steamtown
SAMPLE COLLECTED BY: Gay Hanson/Jim Putnam
DATE SAMPLED: April 23, 1990
DATE RECEIVED: April 24, 1990

Tested parameters are reported in milligrams per liter (ppm).

Parameter	Reference Number
	11,611
Arsenic	<0.004
Barium	0.030
Cadmium	<0.0004
Chromium	0.001
Lead	<0.004
Mercury	0.0017
Nickel	<0.008
Silver	<0.001
Copper	0.004
Iron	2.80
Manganese	0.003
Zinc	0.130
Selenium	<0.01

Sample ID:

11,611: Site 36; 1:48

Reviewed by Suzanne M. Grenade

ENDYNE, INC.

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LABORATORY REPORT

DATE: May 29, 1990
CLIENT: Southern Vermont Engineering
PROJECT: Steamtown
SAMPLE COLLECTED BY: Gay Hanson/Jim Putnam
DATE SAMPLED: April 23, 1990
DATE RECEIVED: April 24, 1990

Tested parameters are reported in milligrams per kilogram (ppm).*

Parameter	Reference Number			
	11,606	11,607	11,608	11,609
Arsenic	4.00	9.00	6.00	6.00
Barium	7.52	110.	10.6	10.1
Cadmium	0.41	1.23	1.02	0.586
Chromium	9.00	35.0	21.0	25.0
Lead	17.0	520.	32.0	27.0
Mercury	<0.011	<0.011	<0.011	<0.011
Nickel	4.51	20.7	4.43	2.25
Silver	0.0002	0.0002	0.0002	0.0002
Copper	5.64	13.0	34.0	11.3
Iron	6579.	11450.	7660.	144.4
Manganese	432.	260.	255.	203.
Zinc	29.7	70.6	127.	48.6
Selenium	<0.400	0.450	<0.400	<0.450

Sample ID:

11,606: Site 26A; 1:03
11,607: Site 28; 1:22
11,608: Site 31; 1:29
11,609: Site 33; 1:37

Notes:

* Detection limits may vary depending on amount of soil used in extraction

Reviewed by Suzanne M Grenoble

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LABORATORY REPORT

DATE: May 29, 1990
CLIENT: Southern Vermont Engineering
PROJECT: Steamtown
SAMPLE COLLECTED BY: Gay Hanson/Jim Putnam
DATE SAMPLED: April 23, 1990
DATE RECEIVED: April 24, 1990

Tested parameters are reported in milligrams per kilogram (ppm).*

Parameter	Reference Number			
	11,610	11,612	11,613	11,614
Arsenic	12.0	10.0	99.0	10.0
Barium	40.9	15.1	76.7	46.3
Cadmium	0.688	0.603	0.495	0.495
Chromium	65.0	35.0	94.0	23.0
Lead	290.	78.0	50.0	100.
Mercury	<0.011	<0.011	0.076	0.052
Nickel	10.2	2.76	38.1	17.9
Silver	0.0002	0.0003	0.0003	0.0003
Copper	16.3	22.6	1832.	12.5
Iron	1812.	8543.	17327.	14600.
Manganese	326.	131.	248.	325.
Zinc	106.	54.3	66.3	46.5
Selenium	<0.400	<0.450	0.800	<0.450

Sample ID:

11,610: Site 36A; 1:52
11,612: Site 37; 2:07
11,613: Site 41; 2:17
11,614: Site 45; 2:39

Notes:

* Detection limits may vary depending on amount of soil used in extraction

Reviewed by Suzanne M. Grandahl

ENDYNE, INC.

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LABORATORY REPORT

DATE: May 29, 1990
CLIENT: Southern Vermont Engineering
PROJECT: Steamtown
SAMPLE COLLECTED BY: Gay Hanson/Jim Putnam
DATE SAMPLED: April 23, 1990
DATE RECEIVED: April 24, 1990

Tested parameters are reported in milligrams per kilogram (ppm).*

Parameter	Reference Number			
	11,615	11,616	11,617	11,618
Arsenic	9.0	10.0	<0.004	<0.004
Barium	9.95	12.5	0.009	0.008
Cadmium	0.945	1.05	<0.0004	<0.0004
Chromium	48.0	20.0	<0.001	<0.001
Lead	154.0	18.0	<0.004	<0.004
Mercury	<0.011	<0.011	<0.0005	<0.0005
Nickel	25.0	19.0	<0.008	<0.008
Silver	0.0002	0.0008	<0.001	<0.001
Copper	12.4	10.0	0.006	0.05
Iron	11940.	11650.	0.700	0.130
Manganese	199.	175.	0.005	0.025
Zinc	84.1	85.2	0.150	<0.05
Selenium	<0.450	<0.450	<0.01	<0.01

Sample ID:

11,615: Site 51; 2:52
11,616: Site 52; 3:04
11,617: Site 53; 3:24
11,618: Site 104; 3:19

Notes:

* Detection limits may vary depending on amount of soil used in extraction

Reviewed by Suzanne M. Grendahl

analytics environmental laboratory inc.

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111

Mr. Todd Johnson
Total Waste Management
142 River Road
Newington, NH 03801

March 27, 1991

Client Project:	Steam Town	**Lab #:**	21950
Project Number:	7167KS	**Matrix:**	Soil
Station ID:	Soil Battery Pile	**Collection Date:**	3/14/91
		Lab Receipt Date:	3/21/91
		Analysis Date:	3/25/91

pH Analysis

Sample	Result	Methodology
21950	pH 7.18	EPA Method 9045

Methodology reference: EPA SW-846, September 1986
Results reported as "Soil pH measured in water"

Authorized signature

Kenneth W. Teague
Laboratory Director

analytics environmental laboratory inc.

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111

Mr. Todd Johnson
Total Waste Management
142 River Road
Newington, NH 03801

March 27, 1991

Client Project:	Steam Town	Lab #:	21951
Project Number:	7167KS	Matrix:	Soil
Station ID:	Soil Battery Pile	Collection Date:	3/14/91
		Lab Receipt Date:	3/21/91
		Analysis Date:	3/25/91

pH Analysis

Sample	Result	Methodology
21951	pH 7.19	EPA Method 9045

Methodology reference: EPA SW-846, September 1986
Results reported as "Soil pH measured in water"

Authorized signature

Kenneth W. Teague
Laboratory Director

ENDYNE, INC.

Laboratory Services

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LABORATORY REPORT
EPA METHOD 624 -- GC/MS PURGEABLES

CLIENT: Southern Vermont Engineering
REPORT DATE: June 4, 1990
PROJECT NAME: Steamtown
SAMPLER: Wally Musgrove
DATE SAMPLED: May 17, 1990

ANALYSIS DATE: May 29, 1990
STATION: Main Well
REF. #: 12,151
DATE RECEIVED: May 18, 1990

Parameter	Quantitation Limit (ug/L)	Concentration (ug/L)
Benzene	5	ND[1]
Bromodichloromethane	5	ND
Bromoform	5	ND
Bromomethane	20	ND
Carbon tetrachloride	5	ND
Chlorobenzene	10	ND
Chloroethane	20	ND
2-Chloroethylvinyl ether	10	ND
Chloroform	5	ND
Chloromethane	20	ND
Dibromochloromethane	5	ND
1,2-Dichlorobenzene	10	ND
1,3-Dichlorobenzene	10	ND
1,4-Dichlorobenzene	10	ND
1,1-Dichloroethane	5	28.8
1,2-Dichloroethane	5	ND
1,1 Dichloroethene	5	TBQ[2]
trans-1,2-Dichloroethene	5	ND
1,2-Dichloropropane	10	ND
cis-1,3-Dichloropropene	10	ND
trans-1,3-Dichloropropene	10	ND
Ethylbenzene	10	ND
Methylene Chloride	5	7.78
1,1,2,2-Tetrachloroethane	10	ND
Tetrachloroethene	5	15.5
Toluene	10	ND
1,1,1-Trichloroethane	5	62.7
1,1,2-Trichloroethane	5	ND
Trichloroethene	5	TBQ
Trichlorofluoromethane	10	ND
Vinyl Chloride	20	ND
Xylenes	10	ND
MTBE	10	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:

1 None detected
2 Trace but below quantitation limit

Reviewed by Suzanne M. Grenelle

ENDYNE, INC.

Laboratory Services

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LABORATORY REPORT
EPA METHOD 624 -- GC/MS PURGEABLES

CLIENT: So. Vt. Engineering
REPORT DATE: May 15, 1990 ANALYSIS DATE: May 8, 1990
PROJECT NAME: Steamtown STATION: Site 4
SAMPLER: Gay Hanson/Jim Putnam REF. #: 11,755
DATE SAMPLED: April 26, 1990 DATE RECEIVED: April 27, 1990

Parameter	Quantitation Limit (ug/L)	Concentration (ug/L)
Benzene	5	ND[1]
Bromodichloromethane	5	ND
Bromoform	5	ND
Bromomethane	20	ND
Carbon tetrachloride	5	ND
Chlorobenzene	10	ND
Chloroethane	20	ND
2-Chloroethylvinyl ether	10	ND
Chloroform	5	ND
Chloromethane	20	ND
Dibromochloromethane	5	ND
1,2-Dichlorobenzene	10	ND
1,3-Dichlorobenzene	10	ND
1,4-Dichlorobenzene	10	ND
1,1-Dichloroethane	5	ND
1,2-Dichloroethane	5	ND
1,1 Dichloroethene	5	ND
trans-1,2-Dichloroethene	5	ND
1,2-Dichloropropane	10	ND
cis-1,3-Dichloropropene	10	ND
trans-1,3-Dichloropropene	10	ND
Ethylbenzene	10	ND
Methylene Chloride	5	PLE[2]
1,1,2,2-Tetrachloroethane	10	ND
Tetrachloroethene	5	ND
Toluene	10	ND
1,1,1-Trichloroethane	5	ND
1,1,2-Trichloroethane	5	ND
Trichloroethene	5	ND
Trichlorofluoromethane	10	ND
Vinyl Chloride	20	ND
Xylenes	10	ND
MTBE	10	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:
1 None detected
2 Present in background laboratory environment

Reviewed by Suzanne M. Fuendan

ENDYNE, INC.

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LABORATORY REPORT
EPA METHOD 624 -- GC/MS PURGEABLES

CLIENT: So. Vt. Engineering
REPORT DATE: May 8, 1990
PROJECT NAME: Steamtown
SAMPLER: Gay Hanson/Jim Putnam
DATE SAMPLED: April 23, 1990

ANALYSIS DATE: May 3, 1990
STATION: Site #5A
REF. #: 11,554
DATE RECEIVED: April 24, 1990

Parameter	Quantitation Limit (ug/L)	Concentration (ug/L)
Benzene	5	ND[1]
Bromodichloromethane	5	ND
Bromoform	5	ND
Bromomethane	20	ND
Carbon tetrachloride	5	ND
Chlorobenzene	10	ND
Chloroethane	20	ND
2-Chloroethylvinyl ether	10	ND
Chloroform	5	ND
Chloromethane	20	ND
Dibromochloromethane	5	ND
1,2-Dichlorobenzene	10	ND
1,3-Dichlorobenzene	10	ND
1,4-Dichlorobenzene	10	ND
1,1-Dichloroethane	5	ND
1,2-Dichloroethane	5	ND
1,1 Dichloroethene	5	ND
trans-1,2-Dichloroethene	5	ND
1,2-Dichloropropane	10	ND
cis-1,3-Dichloropropene	10	ND
trans-1,3-Dichloropropene	10	ND
Ethylbenzene	10	ND
Methylene Chloride	5	PLE[2]
1,1,2,2-Tetrachloroethane	10	ND
Tetrachloroethene	5	ND
Toluene	10	ND
1,1,1-Trichloroethane	5	ND
1,1,2-Trichloroethane	5	ND
Trichloroethene	5	ND
Trichlorofluoromethane	10	ND
Vinyl Chloride	20	ND
Xylenes	10	ND
MTBE	10	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:
1 None detected
2 Present in background laboratory environment

Reviewed by Suzanne M. Frendahl

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RECEIVED
JUN 04 1990
S.V.E.

LABORATORY REPORT
EPA METHOD 624 -- GC/MS PURGEABLES

CLIENT: So. Vermont Engineering
REPORT DATE: June 1, 1990 ANALYSIS DATE: May 29, 1990
PROJECT NAME: Steamtown STATION: #14
SAMPLER: Gay Hanson/Jim Putnam REF. #: 12,180
DATE SAMPLED: May 21, 1990 DATE RECEIVED: May 21, 1990

Parameter	Quantitation Limit (ug/L)	Concentration (ug/L)
Benzene	5	ND[1]
Bromodichloromethane	5	ND
Bromoform	5	ND
Bromomethane	20	ND
Carbon tetrachloride	5	ND
Chlorobenzene	10	ND
Chloroethane	20	ND
2-Chloroethylvinyl ether	10	ND
Chloroform	5	ND
Chloromethane	20	ND
Dibromochloromethane	5	ND
1,2-Dichlorobenzene	10	ND
1,3-Dichlorobenzene	10	ND
1,4-Dichlorobenzene	10	ND
1,1-Dichloroethane	5	ND
1,2-Dichloroethane	5	ND
1,1 Dichloroethene	5	ND
trans-1,2-Dichloroethene	5	ND
1,2-Dichloropropane	10	ND
cis-1,3-Dichloropropene	10	ND
trans-1,3-Dichloropropene	10	ND
Ethylbenzene	10	ND
Methylene Chloride	5	PLE[2]
1,1,2,2-Tetrachloroethane	10	ND
Tetrachloroethene	5	ND
Toluene	10	ND
1,1,1-Trichloroethane	5	ND
1,1,2-Trichloroethane	5	ND
Trichloroethene	5	ND
Trichlorofluoromethane	10	ND
Vinyl Chloride	20	ND
Xylenes	10	ND
MTBE	10	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 1

NOTES:
1 None detected
2 Present in background laboratory environment

Reviewed by Suzanne M. Brendan

ENDYNE, INC.

Laboratory Services

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LABORATORY REPORT
EPA METHOD 624 -- GC/MS PURGEABLES

CLIENT: So. Vt. Engineering
REPORT DATE: May 8, 1990 ANALYSIS DATE: May 3, 1990
PROJECT NAME: Steamtown STATION: Site #26
SAMPLER: Gay Hanson/Jim Putnam REF. #: 11,560
DATE SAMPLED: April 23, 1990 DATE RECEIVED: April 24, 1990

Parameter	Quantitation Limit (ug/L)	Concentration (ug/L)
Benzene	5	ND[1]
Bromodichloromethane	5	ND
Bromoform	5	ND
Bromomethane	20	ND
Carbon tetrachloride	5	ND
Chlorobenzene	10	ND
Chloroethane	20	ND
2-Chloroethylvinyl ether	10	ND
Chloroform	5	ND
Chloromethane	20	ND
Dibromochloromethane	5	ND
1,2-Dichlorobenzene	10	ND
1,3-Dichlorobenzene	10	ND
1,4-Dichlorobenzene	10	ND
1,1-Dichloroethane	5	ND
1,2-Dichloroethane	5	ND
1,1 Dichloroethene	5	ND
trans-1,2-Dichloroethene	5	ND
1,2-Dichloropropane	10	ND
cis-1,3-Dichloropropene	10	ND
trans-1,3-Dichloropropene	10	ND
Ethylbenzene	10	ND
Methylene Chloride	5	PLE[2]
1,1,2,2-Tetrachloroethane	10	ND
Tetrachloroethene	5	ND
Toluene	10	ND
1,1,1-Trichloroethane	5	ND
1,1,2-Trichloroethane	5	ND
Trichloroethene	5	ND
Trichlorofluoromethane	10	ND
Vinyl Chloride	20	ND
Xylenes	10	ND
MTBE	10	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:
1 None detected
2 Present in background laboratory environment

Reviewed by Suzanne M. Shandahl

ENDYNE, INC.

Laboratory Services

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LABORATORY REPORT
EPA METHOD 624 -- GC/MS PURGEABLES

CLIENT: So. Vt. Engineering
REPORT DATE: May 8, 1990
PROJECT NAME: Steamtown
SAMPLER: Gay Hanson/Jim Putnam
DATE SAMPLED: April 23, 1990

ANALYSIS DATE: May 3, 1990
STATION: Site #53
REF. #: 11,573
DATE RECEIVED: April 24, 1990

Parameter	Quantitation Limit (ug/L)	Concentration (ug/L)
Benzene	5	ND[1]
Bromodichloromethane	5	ND
Bromoform	5	ND
Bromomethane	20	ND
Carbon tetrachloride	5	ND
Chlorobenzene	10	ND
Chloroethane	20	ND
2-Chloroethylvinyl ether	10	ND
Chloroform	5	ND
Chloromethane	20	ND
Dibromochloromethane	5	ND
1,2-Dichlorobenzene	10	ND
1,3-Dichlorobenzene	10	ND
1,4-Dichlorobenzene	10	ND
1,1-Dichloroethane	5	ND
1,2-Dichloroethane	5	ND
1,1 Dichloroethene	5	ND
trans-1,2-Dichloroethene	5	ND
1,2-Dichloropropane	10	ND
cis-1,3-Dichloropropene	10	ND
trans-1,3-Dichloropropene	10	ND
Ethylbenzene	10	ND
Methylene Chloride	5	PLE[2]
1,1,2,2-Tetrachloroethane	10	ND
Tetrachloroethene	5	1.64
Toluene	10	ND
1,1,1-Trichloroethane	5	3.24
1,1,2-Trichloroethane	5	ND
Trichloroethene	5	ND
Trichlorofluoromethane	10	ND
Vinyl Chloride	20	ND
Xylenes	10	ND
MTBE	10	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:

1 None detected
2 Present in background laboratory environment

Reviewed by Suzanne M. Handak

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LABORATORY REPORT
EPA METHOD 624 -- GC/MS PURGEABLES

CLIENT: So. Vt. Engineering
REPORT DATE: May 15, 1990
PROJECT NAME: Steamtown
SAMPLER: Gay Hanson/Jim Putnam
DATE SAMPLED: April 24, 1990

ANALYSIS DATE: May 7, 1990
STATION: Site 66
REF. #: 11,645
DATE RECEIVED: April 26, 1990

Parameter	Quantitation Limit (ug/L)	Concentration (ug/L)
Benzene	5	ND[1]
Bromodichloromethane	5	ND
Bromoform	5	ND
Bromomethane	20	ND
Carbon tetrachloride	5	ND
Chlorobenzene	10	ND
Chloroethane	20	ND
2-Chloroethylvinyl ether	10	ND
Chloroform	5	ND
Chloromethane	20	ND
Dibromochloromethane	5	ND
1,2-Dichlorobenzene	10	ND
1,3-Dichlorobenzene	10	ND
1,4-Dichlorobenzene	10	ND
1,1-Dichloroethane	5	ND
1,2-Dichloroethane	5	ND
1,1 Dichloroethene	5	ND
trans-1,2-Dichloroethene	5	ND
1,2-Dichloropropane	10	ND
cis-1,3-Dichloropropene	10	ND
trans-1,3-Dichloropropene	10	ND
Ethylbenzene	10	ND
Methylene Chloride	5	PLE[2]
1,1,2,2-Tetrachloroethane	10	ND
Tetrachloroethene	5	ND
Toluene	10	ND
1,1,1-Trichloroethane	5	ND
1,1,2-Trichloroethane	5	ND
Trichloroethene	5	ND
Trichlorofluoromethane	10	ND
Vinyl Chloride	20	ND
Xylenes	10	ND
MTBE	10	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:

1 None detected
2 Present in background laboratory environment

Reviewed by Suzanne M. Giordano

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LABORATORY REPORT
EPA METHOD 624 -- GC/MS PURGEABLES

CLIENT: So. Vt. Engineering
REPORT DATE: May 15, 1990
PROJECT NAME: Steamtown
SAMPLER: Gay Hanson/Jim Putnam
DATE SAMPLED: April 24, 1990

ANALYSIS DATE: May 7, 1990
STATION: Site 99
REF. #: 11,652
DATE RECEIVED: April 26, 1990

Parameter	Quantitation[3] Limit (ug/L)	Concentration (ug/L)
Benzene	5	ND[1]
Bromodichloromethane	5	ND
Bromoform	5	ND
Bromomethane	20	ND
Carbon tetrachloride	5	ND
Chlorobenzene	10	ND
Chloroethane	20	ND
2-Chloroethylvinyl ether	10	ND
Chloroform	5	ND
Chloromethane	20	ND
Dibromochloromethane	5	ND
1,2-Dichlorobenzene	10	ND
1,3-Dichlorobenzene	10	ND
1,4-Dichlorobenzene	10	ND
1,1-Dichloroethane	5	ND
1,2-Dichloroethane	5	ND
1,1 Dichloroethene	5	ND
trans-1,2-Dichloroethene	5	ND
1,2-Dichloropropane	10	ND
cis-1,3-Dichloropropene	10	ND
trans-1,3-Dichloropropene	10	ND
Ethylbenzene	10	ND
Methylene Chloride	5	PLE[2]
1,1,2,2-Tetrachloroethane	10	ND
Tetrachloroethene	5	ND
Toluene	10	ND
1,1,1-Trichloroethane	5	ND
1,1,2-Trichloroethane	5	ND
Trichloroethene	5	ND
Trichlorofluoromethane	10	ND
Vinyl Chloride	20	ND
Xylenes	10	ND
MTBE	10	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:
1 None detected
2 Present in background laboratory environment
3 Dilution increased quantitation limit by a factor of 10

Reviewed by Susan M. Glendon

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LABORATORY REPORT
EPA METHOD 624 -- GC/MS PURGEABLES

CLIENT: So. Vt. Engineering
REPORT DATE: May 8, 1990 ANALYSIS DATE: May 3, 1990
PROJECT NAME: Steamtown STATION: Site #102
SAMPLER: Gay Hanson/Jim Putnam REF. #: 11,556
DATE SAMPLED: April 23, 1990 DATE RECEIVED: April 24, 1990

Parameter	Quantitation Limit (ug/L)	Concentration (ug/L)
Benzene	5	ND[1]
Bromodichloromethane	5	ND
Bromoform	5	ND
Bromomethane	20	ND
Carbon tetrachloride	5	ND
Chlorobenzene	10	ND
Chloroethane	20	ND
2-Chloroethylvinyl ether	10	ND
Chloroform	5	ND
Chloromethane	20	ND
Dibromochloromethane	5	ND
1,2-Dichlorobenzene	10	ND
1,3-Dichlorobenzene	10	ND
1,4-Dichlorobenzene	10	ND
1,1-Dichloroethane	5	ND
1,2-Dichloroethane	5	ND
1,1 Dichloroethene	5	ND
trans-1,2-Dichloroethene	5	ND
1,2-Dichloropropane	10	ND
cis-1,3-Dichloropropene	10	ND
trans-1,3-Dichloropropene	10	ND
Ethylbenzene	10	ND
Methylene Chloride	5	PLE[2]
1,1,2,2-Tetrachloroethane	10	ND
Tetrachloroethene	5	ND
Toluene	10	ND
1,1,1-Trichloroethane	5	ND
1,1,2-Trichloroethane	5	ND
Trichloroethene	5	ND
Trichlorofluoromethane	10	ND
Vinyl Chloride	20	ND
Xylenes	10	ND
MTBE	10	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:
1 None detected
2 Present in background laboratory environment

Reviewed by Suzanne M. Kendall

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LABORATORY REPORT
EPA METHOD 624 -- GC/MS PURGEABLES

CLIENT: So. Vt. Engineering
REPORT DATE: May 8, 1990
PROJECT NAME: Steamtown
SAMPLER: Gay Hanson/Jim Putnam
DATE SAMPLED: April 23, 1990

ANALYSIS DATE: May 3, 1990
STATION: Site #103
REF. #: 11,557
DATE RECEIVED: April 24, 1990

Parameter	Quantitation Limit (ug/L)	Concentration (ug/L)
Benzene	5	ND[1]
Bromodichloromethane	5	ND
Bromoform	5	ND
Bromomethane	20	ND
Carbon tetrachloride	5	ND
Chlorobenzene	10	ND
Chloroethane	20	ND
2-Chloroethylvinyl ether	10	ND
Chloroform	5	ND
Chloromethane	20	ND
Dibromochloromethane	5	ND
1,2-Dichlorobenzene	10	ND
1,3-Dichlorobenzene	10	ND
1,4-Dichlorobenzene	10	ND
1,1-Dichloroethane	5	ND
1,2-Dichloroethane	5	ND
1,1 Dichloroethene	5	ND
trans-1,2-Dichloroethene	5	ND
1,2-Dichloropropane	10	ND
cis-1,3-Dichloropropene	10	ND
trans-1,3-Dichloropropene	10	ND
Ethylbenzene	10	ND
Methylene Chloride	5	PLE[2]
1,1,2,2-Tetrachloroethane	10	ND
Tetrachloroethene	5	ND
Toluene	10	ND
1,1,1-Trichloroethane	5	ND
1,1,2-Trichloroethane	5	ND
Trichloroethene	5	ND
Trichlorofluoromethane	10	ND
Vinyl Chloride	20	ND
Xylenes	10	ND
MTBE	10	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:
1 None detected
2 Present in background laboratory environment

Reviewed by Suzanne M. Grendahl

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LABORATORY REPORT
EPA METHOD 624 -- GC/MS PURGEABLES

CLIENT: So. Vt. Engineering
REPORT DATE: May 8, 1990
PROJECT NAME: Steamtown
SAMPLER: Gay Hanson/Jim Putnam
DATE SAMPLED: April 23, 1990

ANALYSIS DATE: May 3, 1990
STATION: Site #104
REF. #: 11,574
DATE RECEIVED: April 24, 1990

Parameter	Quantitation Limit (ug/L)	Concentration (ug/L)
Benzene	5	ND[1]
Bromodichloromethane	5	ND
Bromoform	5	ND
Bromomethane	20	ND
Carbon tetrachloride	5	ND
Chlorobenzene	10	ND
Chloroethane	20	ND
2-Chloroethylvinyl ether	10	ND
Chloroform	5	ND
Chloromethane	20	ND
Dibromochloromethane	5	ND
1,2-Dichlorobenzene	10	ND
1,3-Dichlorobenzene	10	ND
1,4-Dichlorobenzene	10	ND
1,1-Dichloroethane	5	ND
1,2-Dichloroethane	5	ND
1,1 Dichloroethene	5	ND
trans-1,2-Dichloroethene	5	ND
1,2-Dichloropropane	10	ND
cis-1,3-Dichloropropene	10	ND
trans-1,3-Dichloropropene	10	ND
Ethylbenzene	10	ND
Methylene Chloride	5	PLE[2]
1,1,2,2-Tetrachloroethane	10	ND
Tetrachloroethene	5	ND
Toluene	10	ND
1,1,1-Trichloroethane	5	3.35
1,1,2-Trichloroethane	5	ND
Trichloroethene	5	ND
Trichlorofluoromethane	10	ND
Vinyl Chloride	20	ND
Xylenes	10	ND
MTBE	10	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:

1 None detected
2 Present in background laboratory environment

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LABORATORY REPORT
EPA METHOD 624 -- GC/MS PURGEABLES

CLIENT: So. Vt. Engineering
REPORT DATE: May 8, 1990
PROJECT NAME: Steamtown
SAMPLER: Gay Hanson/Jim Putnam
DATE SAMPLED: April 23, 1990

ANALYSIS DATE: May 3, 1990
STATION: Site #106
REF. #: 11,575
DATE RECEIVED: April 24, 1990

Parameter	Quantitation Limit (ug/L)	Concentration (ug/L)
Benzene	5	ND[1]
Bromodichloromethane	5	ND
Bromoform	5	ND
Bromomethane	20	ND
Carbon tetrachloride	5	ND
Chlorobenzene	10	ND
Chloroethane	20	ND
2-Chloroethylvinyl ether	10	ND
Chloroform	5	ND
Chloromethane	20	ND
Dibromochloromethane	5	ND
1,2-Dichlorobenzene	10	ND
1,3-Dichlorobenzene	10	ND
1,4-Dichlorobenzene	10	ND
1,1-Dichloroethane	5	ND
1,2-Dichloroethane	5	ND
1,1 Dichloroethene	5	ND
trans-1,2-Dichloroethene	5	ND
1,2-Dichloropropane	10	ND
cis-1,3-Dichloropropene	10	ND
trans-1,3-Dichloropropene	10	ND
Ethylbenzene	10	ND
Methylene Chloride	5	PLE[2]
1,1,2,2-Tetrachloroethane	10	ND
Tetrachloroethene	5	ND
Toluene	10	ND
1,1,1-Trichloroethane	5	ND
1,1,2-Trichloroethane	5	ND
Trichloroethene	5	ND
Trichlorofluoromethane	10	ND
Vinyl Chloride	20	ND
Xylenes	10	ND
MTBE	10	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:

1 None detected
2 Present in background laboratory environment

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LABORATORY REPORT

DATE: June 4, 1990
CLIENT: Southern Vermont Engineering
PROJECT: Steamtown
SAMPLE COLLECTED BY: Gay Hanson/Jim Putnam
DATE SAMPLED: May 17, 1990
DATE RECEIVED: May 18, 1990

Tested parameters are reported in milligrams per liter (ppm).

Parameter	Reference Number 12,150
Arsenic	<0.004
Barium	<0.008
Cadmium	<0.0004
Chromium	0.002
Lead	<0.004
Nickel	0.0092
Silver	0.002
Copper	0.006
Iron	0.002
Manganese	0.022
Selenium	<0.01

Sample ID:

12,150: Main Well; 2:00

Reviewed by Suzann M. Hendall

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LABORATORY REPORT

DATE: May 29, 1990
CLIENT: Southern Vermont Engineering
PROJECT: Steamtown
SAMPLE COLLECTED BY: Gay Hanson/Jim Putnam
DATE SAMPLED: April 26, 1990
DATE RECEIVED: April 27, 1990

Tested parameters are reported in milligrams per liter (ppm).

Parameter	Reference Number
	11,769
Arsenic	0.050
Barium	0.031
Cadmium	0.0007
Chromium	<0.001
Lead	0.200
Mercury	<0.0005
Nickel	0.014
Silver	<0.001
Copper	0.200
Iron	440.
Manganese	3.50
Zinc	<0.050
Selenium	<0.0005

Sample ID:

11,769: Site 4; 10:00

Reviewed by Suzann M. Grendahl

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LABORATORY REPORT

DATE: June 4, 1990
CLIENT: Southern Vermont Engineering
PROJECT: Steamtown
SAMPLE COLLECTED BY: Gay Hanson/Jim Putnam
DATE SAMPLED: May 21, 1990
DATE RECEIVED: May 21, 1990

Tested parameters are reported in milligrams per liter (ppm).

Parameter	Reference Number
	12,182
Arsenic	<0.004
Barium	0.700
Cadmium	0.0021
Chromium	0.004
Lead	0.013
Nickel	<0.008
Silver	0.0012
Copper	0.001
Iron	0.20
Manganese	2.73
Zinc	7.00
Selenium	<0.01

Sample ID:

12,182: #14; 9:11

Reviewed by Suzann M. Hendall

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LABORATORY REPORT

DATE: May 29, 1990
CLIENT: Southern Vermont Engineering
PROJECT: Steamtown
SAMPLE COLLECTED BY: Gay Hanson/Jim Putnam
DATE SAMPLED: April 23, 1990
DATE RECEIVED: April 24, 1990

Tested parameters are reported in milligrams per kilogram (ppm).*

Parameter	Reference Number
	11,619
Arsenic	<0.004
Barium	0.007
Cadmium	0.005
Chromium	<0.001
Lead	<0.004
Mercury	0.0035
Nickel	<0.008
Silver	<0.001
Copper	0.05
Iron	0.09
Manganese	0.017
Zinc	<0.05
Selenium	<0.01

Sample ID:

11,619: Site 106; 3:34

Notes:

* Detection limits may vary depending on amount of soil used in extraction

Reviewed by Suzann M. Hendall

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LABORATORY REPORT

DATE: May 29, 1990
CLIENT: Southern Vermont Engineering
PROJECT: Steamtown
SAMPLE COLLECTED BY: Gay Hanson/Jim Putnam
DATE SAMPLED: April 23, 1990
DATE RECEIVED: April 24, 1990

Tested parameters are reported in milligrams per kilogram (ppm).*

Parameter	Reference Number			
	11,615	11,616	11,617	11,618
Arsenic	9.0	10.0	<0.004	<0.004
Barium	9.95	12.5	0.009	0.008
Cadmium	0.945	1.05	<0.0004	<0.0004
Chromium	48.0	20.0	<0.001	<0.001
Lead	154.0	18.0	<0.004	<0.004
Mercury	<0.011	<0.011	<0.0005	<0.0005
Nickel	25.0	19.0	<0.008	<0.008
Silver	0.0002	0.0008	<0.001	<0.001
Copper	12.4	10.0	0.006	0.05
Iron	11940.	11650.	0.700	0.130
Manganese	199.	175.	0.005	0.025
Zinc	84.1	85.2	0.150	<0.05
Selenium	<0.450	<0.450	<0.01	<0.01

Sample ID:

11,615: Site 51; 2:52
11,616: Site 52; 3:04
11,617: Site 53; 3:24
11,618: Site 104; 3:19

Notes:

* Detection limits may vary depending on amount of soil used in extraction

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LABORATORY REPORT

DATE: May 29, 1990
CLIENT: Southern Vermont Engineering
PROJECT: Steamtown
SAMPLE COLLECTED BY: Gay Hanson/Jim Putnam
DATE SAMPLED: April 26, 1990
DATE RECEIVED: April 27, 1990

Tested parameters are reported in milligrams per kilogram (ppm).

Parameter	Reference Number			
	11,765	11,766	11,767	11,768
Arsenic	7.00	7.00	7.00	9.00
Barium	15.4	27.2	11.2	81.6
Cadmium	0.700	1.20	0.50	0.8
Chromium	125.	28.0	18.0	88.0
Lead	632.	143.	50.	142.
Mercury	0.036	<0.011	<0.011	<0.011
Nickel	17.8	30.8	16.5	38.4
Silver	0.060	0.090	0.090	0.100
Copper	55.	39.6	17.4	49.0
Iron	17,500.	17,500.	14,600.	20,250.
Manganese	250.	125.	125.	175.
Zinc	26.9	71.3	22.8	118.
Selenium	<0.450	<0.450	<0.450	<0.450

Sample ID:

11,765: Site 50; 11:50
11,766: Site 81 I; 12:04
11,767: Site 82 A; 12:15
11,768: Site 95; 1:04

Reviewed by Suzanne M. Grendahl

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Laboratory Services

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LABORATORY REPORT
EPA METHOD 624 -- GC/MS PURGEABLES

CLIENT: So. Vt. Engineering
REPORT DATE: May 15, 1990
PROJECT NAME: Steamtown
SAMPLER: Gay Hanson/Jim Putnam
DATE SAMPLED: April 26, 1990

ANALYSIS DATE: May 8, 1990
STATION: Site 95 A
REF. #: 11,754
DATE RECEIVED: April 27, 1990

Parameter	Quantitation[3] Limit (ug/kg)	Concentration (ug/kg)
Benzene	5	ND[1]
Bromodichloromethane	5	ND
Bromoform	5	ND
Bromomethane	20	ND
Carbon tetrachloride	5	ND
Chlorobenzene	10	ND
Chloroethane	20	ND
2-Chloroethylvinyl ether	10	ND
Chloroform	5	ND
Chloromethane	20	ND
Dibromochloromethane	5	ND
1,2-Dichlorobenzene	10	ND
1,3-Dichlorobenzene	10	ND
1,4-Dichlorobenzene	10	ND
1,1-Dichloroethane	5	ND
1,2-Dichloroethane	5	ND
1,1 Dichloroethene	5	ND
trans-1,2-Dichloroethene	5	ND
1,2-Dichloropropane	10	ND
cis-1,3-Dichloropropene	10	ND
trans-1,3-Dichloropropene	10	ND
Ethylbenzene	10	ND
Methylene Chloride	5	PLE[2]
1,1,2,2-Tetrachloroethane	10	ND
Tetrachloroethene	5	ND
Toluene	10	ND
1,1,1-Trichloroethane	5	ND
1,1,2-Trichloroethane	5	ND
Trichloroethene	5	ND
Trichlorofluoromethane	10	ND
Vinyl Chloride	20	ND
Xylenes	10	2,940.
MTBE	10	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:

1 None detected
2 Present in background laboratory environment
3 Dilution increased quantitation limit by a factor of 10

Reviewed by Suzanne M. Fredette

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LABORATORY REPORT

DATE: May 29, 1990
CLIENT: Southern Vermont Engineering
PROJECT: Steamtown
SAMPLE COLLECTED BY: Gay Hanson/Jim Putnam
DATE SAMPLED: April 23, 1990
DATE RECEIVED: April 24, 1990

Tested parameters are reported in milligrams per liter (ppm).

Parameter	Reference Number			
	11,599	11,601	11,602	11,605
Arsenic	<0.004	<0.004	<0.004	<0.004
Barium	0.017	0.019	0.012	0.009
Cadmium	<0.0004	<0.0004	0.0004	<0.0004
Chromium	0.001	0.011	<0.001	<0.001
Lead	<0.004	<0.004	<0.004	<0.004
Mercury	0.0016	<0.0005	0.0010	<0.0005
Nickel	<0.008	<0.008	<0.008	<0.008
Silver	<0.001	<0.001	<0.001	<0.001
Copper	0.002	0.002	0.001	0.001
Iron	0.230	0.090	0.070	0.140
Manganese	0.05	0.004	0.011	0.130
Zinc	<0.05	<0.05	<0.05	<0.05
Selenium	<0.01	<0.01	<0.01	<0.01

Sample ID:

11,599: Site 5A; 10:57
11,601: Site 102; 11:27
11,602: Site 103; 11:40
11,605: Site 26; 1:01

Reviewed by Suzann M. Grendahl

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S.V.E.

LABORATORY REPORT

DATE: May 29, 1990
CLIENT: Southern Vermont Engineering
PROJECT: Steamtown
SAMPLE COLLECTED BY: Gay Hanson/Jim Putnam
DATE SAMPLED: April 24, 1990
DATE RECEIVED: April 25, 1990

Tested parameters are reported in milligrams per liter (ppm).

Parameter	Reference Number	
	11,678	11,685
Arsenic	0.005	0.008
Barium	0.028	0.014
Cadmium	0.0011	0.0005
Chromium	<0.001	0.002
Lead	0.600	<0.004
Mercury	<0.0005	0.0034
Nickel	<0.008	<0.008
Silver	<0.001	<0.001
Copper	0.200	0.350
Iron	0.012	0.009
Manganese	0.250	0.050
Zinc	0.350	<0.050
Selenium	<0.010	0.014

Sample ID:

11,678: Site 66; 1:48
11,685: Site 99; 3:15

Reviewed by Suzanne M Sheridan

ENDYNE, INC.

Laboratory Services

32 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT
EPA METHOD 624 -- GC/MS PURGEABLES

CLIENT: So. Vt. Engineering
REPORT DATE: May 15, 1990
PROJECT NAME: Steamtown
SAMPLER: Gay Hanson/Jim Putnam
DATE SAMPLED: April 24, 1990

ANALYSIS DATE: May 7, 1990
STATION: Site 72
REF. #: 11,646
DATE RECEIVED: April 26, 1990

Parameter	Quantitation[3] Limit (ug/kg)	Concentration (ug/kg)
Benzene	5	ND[1]
Bromodichloromethane	5	ND
Bromoform	5	ND
Bromomethane	20	ND
Carbon tetrachloride	5	ND
Chlorobenzene	10	ND
Chloroethane	20	ND
2-Chloroethylvinyl ether	10	ND
Chloroform	5	ND
Chloromethane	20	ND
Dibromochloromethane	5	ND
1,2-Dichlorobenzene	10	ND
1,3-Dichlorobenzene	10	ND
1,4-Dichlorobenzene	10	ND
1,1-Dichloroethane	5	ND
1,2-Dichloroethane	5	ND
1,1 Dichloroethene	5	ND
trans-1,2-Dichloroethene	5	ND
1,2-Dichloropropane	10	ND
cis-1,3-Dichloropropene	10	ND
trans-1,3-Dichloropropene	10	ND
Ethylbenzene	10	52.2
Methylene Chloride	5	PLE[2]
1,1,2,2-Tetrachloroethane	10	ND
Tetrachloroethene	5	ND
Toluene	10	ND
1,1,1-Trichloroethane	5	ND
1,1,2-Trichloroethane	5	ND
Trichloroethene	5	4.46
Trichlorofluoromethane	10	ND
Vinyl Chloride	20	ND
Xylenes	10	31.5
MTBE	10	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 3

NOTES:
1 None detected
2 Present in background laboratory environment
3 Dilution increased quantitation limit by a factor of 10

Reviewed by Suzanne M. Gerrold

ENDYNE, INC.

Laboratory Services

32 James Brown Drive
Williston, Vermont 05495
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FAX 879-7103

LABORATORY REPORT

DATE: May 29, 1990
CLIENT: Southern Vermont Engineering
PROJECT: Steamtown
SAMPLE COLLECTED BY: Gay Hanson/Jim Putnam
DATE SAMPLED: April 24, 1990
DATE RECEIVED: April 25, 1990

Tested parameters are reported in milligrams per kilogram (ppm).

Parameter	Reference Number			
	11,679	11,680	11,681	11,682
Arsenic	43.0	8.00	6.00	8.00
Barium	112.	13.7	20.7	13.4
Cadmium	0.600	0.200	0.300	0.400
Chromium	568.	0.150	2.4	18.0
Lead	995.	27.0	29.0	27.0
Mercury	<0.011	<0.011	0.038	0.023
Nickel	228.	4.18	20.6	18.0
Silver	0.200	0.200	0.100	0.090
Copper	1,005.	4.98	9.76	12.3
Iron	16,500.	14,150.	17,500.	14,600.
Manganese	1,250.	50.	375.	200.
Zinc	1,111.	7.96	82.0	28.4
Selenium	1.0	<0.450	<0.450	0.700

Sample ID:

11,679: Site 72; 2:00
11,680: Site 76; 2:13
11,681: Site 80; 2:21
11,682: Site 83; 2:30

Reviewed by Suzanne M Grendahl

Appendix B
SI Sample Data

FINAL LAB REPORT

DATE 08/10/92

LAB ID 71118 REPORT TO M/YOUNG DUE DATE 08/17/92

SOURCE LOCATION 6255770200 FLTR BK-1 COLLECTION DATE 07/17/92

PROGRAM 021-MULTI-SITE COOP AGREEMENT (PREREMEDIAL) AMBIENT WATER SAMPLE Y

SUBMITTED BY 7/17/92 PHONE 244-8702 SUBMIT DATE 07/17/92 LEGAL YES

SAMPLE NOTES:

TEST CODE	TEST NAME		RESULT	UNIT OF MEASURE	REMARKS CODE	PROCESS DATE
DAS2	ARSENIC DISS - FURNACE	<	5	UG/L		08/05/92
DCD	CADMIUM DISSOLVED	<	2	UG/L		07/29/92
DCR	CHROMIUM DISSOLVED	<	10	UG/L		07/28/92
DCU	COPPER DISSOLVED	<	10	UG/L		07/28/92
DHG	MERCURY DISSOLVED	<	0.2	UG/L		08/05/92
DNI	NICKEL DISSOLVED	<	10	UG/L		07/29/92
DPB	LEAD DISSOLVED	<	10	UG/L		07/30/92
DZN	ZINC DISSOLVED	<	40	UG/L		07/29/92
DSE2	SELENIUM DISS - FURNACE	<	5	UG/L		07/31/92

FINAL LAB REPORT

DATE 08/10/92

LAB ID 71119 REPORT TO M/YOUNG DUE DATE 08/17/92

SOURCE LOCATION 6255770200 FLTR BK-2 COLLECTION DATE 07/17/92

PROGRAM 021-MULTI-SITE COOP AGREEMENT (PREREMEDIAL) AMBIENT WATER SAMPLE Y

SUBMITTED BY 7/17/92 PHONE 244-6702 SUBMIT DATE 07/17/92 LEGAL YES

SAMPLE NOTES:

TEST CODE	TEST NAME		RESULT	UNIT OF MEASURE	REMARKS CODE	PROCESS DATE
DAS2	ARSENIC DISS - FURNACE	<	5	UG/L		08/05/92
DCD	CADMIUM DISSOLVED	<	2	UG/L		07/29/92
DCR	CHROMIUM DISSOLVED	<	10	UG/L		07/28/92
DCU	COPPER DISSOLVED	<	10	UG/L		07/28/92
DHG	MERCURY DISSOLVED	<	0.2	UG/L		08/05/92
DNI	NICKEL DISSOLVED	<	10	UG/L		07/29/92
DPB	LEAD DISSOLVED	<	10	UG/L		07/30/92
DZN	ZINC DISSOLVED	<	40	UG/L		07/29/92
DSE2	SELENIUM DISS - FURNACE	<	5	UG/L		07/31/92

AUG 06 1992

DEPT. OF ENVIRONMENTAL CONSERVATION LAB MANAGEMENT SYSTEM PAGE 1

FINAL LAB REPORT

DATE 08/04/92

LAB ID 71117 REPORT TO M/YOUNG DUE DATE 08/17/92

SOURCE LOCATION 6255770200 TRIP BLANK COLLECTION DATE 07/17/92

PROGRAM 021-MULTI-SITE COOP AGREEMENT (PREREMEDIAL) AMBIENT WATER SAMPLE Y

SUBMITTED BY 7/17/92 PHONE 244-8702 SUBMIT DATE 07/17/92 LEGAL YES

SAMPLE NOTES:

TEST CODE	TEST NAME	RESULT	UNIT OF MEASURE	REMARKS CODE	PROCESS DATE
324W	METHOD 8240 TESTS, WATER	0	NONE	Z	07/23/92

FINAL LAB REPORT

DATE 08/19/92

LAB ID 71111 REPORT TO M/YOUNG DUE DATE 08/17/92

SOURCE LOCATION 6255770200 SS-1 COLLECTION DATE 07/14/92

PROGRAM 021-MULTI-SITE COOP AGREEMENT (PREREMEDIAL) AMBIENT WATER SAMPLE N

SUBMITTED BY 7/17/92 PHONE 244-8702 SUBMIT DATE 07/17/92 LEGAL YES

SAMPLE NOTES:

TEST CODE	TEST NAME		RESULT	UNIT OF MEASURE	REMARKS CODE	PROCESS DATE
827S	METHOD 8270, SOIL		0	NONE	Z	08/10/92
SAS2	ARSENIC SOIL - FURNACE	<	2.50	MG/KG DW		08/06/92
SCD	CADMIUM SOIL	<	5.00	MG/KG DW		07/29/92
SCR	CHROMIUM SOIL	<	25.00	MG/KG DW		07/28/92
SCU	COPPER SOIL	<	25.00	MG/KG DW		07/28/92
SHG	MERCURY SOIL	<	0.100	MG/KG DW		07/31/92
SNI	NICKEL SOIL	<	25.00	MG/KG DW		07/29/92
SPB	LEAD SOIL	<	25.00	MG/KG DW		07/30/92
SZN	ZINC SOIL	<	25.00	MG/KG DW		07/29/92
824S	METHOD 8240 TESTS, SOIL		0	NONE	Z	07/30/92
SSE2	SELENIUM SOIL - FURNACE	<	2.50	MG/KG DW		08/04/92
PSOL	SOLIDS-PERCENT		96.000	PERCENT		07/21/92

FINAL LAB REPORT

DATE 08/19/92

LAB ID 71112 REPORT TO M/YOUNG DUE DATE 08/17/92

SOURCE LOCATION 6255770200 SS-2 COLLECTION DATE 07/14/92

PROGRAM 021-MULTI-SITE COOP AGREEMENT (PREREMEDIAL) AMBIENT WATER SAMPLE N

SUBMITTED BY 7/17/92 PHONE 244-8702 SUBMIT DATE 07/17/92 LEGAL YES

SAMPLE NOTES:

TEST CODE	TEST NAME		RESULT	UNIT OF MEASURE	REMARKS CODE	PROCESS DATE
827S	METHOD 8270, SOIL		0	NONE	U	08/12/92
SAS2	ARSENIC SOIL - FURNACE	<	2.50	MG/KG DW		08/06/92
SCD	CADMIUM SOIL	<	5.00	MG/KG DW		07/29/92
SCR	CHROMIUM SOIL	<	25.00	MG/KG DW		07/28/92
SCU	COPPER SOIL	<	25.00	MG/KG DW		07/28/92
SHG	MERCURY SOIL	<	0.100	MG/KG DW		07/31/92
SNI	NICKEL SOIL	<	25.00	MG/KG DW		07/29/92
SPB	LEAD SOIL	<	25.00	MG/KG DW		07/30/92
SZN	ZINC SOIL		25.00	MG/KG DW		07/29/92
824S	METHOD 8240 TESTS, SOIL		0	NONE	U	07/30/92
SSE2	SELENIUM SOIL - FURNACE	<	2.50	MG/KG DW		08/04/92
PSOL	SOLIDS-PERCENT		93.200	PERCENT		07/21/92
VS21	:CHLOROFORM		28	UG/KG DW	J	07/30/92

FINAL LAB REPORT

DATE 08/19/92

LAB ID 71113 REPORT TO M/YOUNG DUE DATE 08/17/92

SOURCE LOCATION 6255770200 SS-3 COLLECTION DATE 07/14/92

PROGRAM 021-MULTI-SITE COOP AGREEMENT (PREREMEDIAL) AMBIENT WATER SAMPLE N

SUBMITTED BY 7/17/92 PHONE 244-8702 SUBMIT DATE 07/17/92 LEGAL YES

SAMPLE NOTES:

TEST CODE	TEST NAME		RESULT	UNIT OF MEASURE	REMARKS CODE	PROCESS DATE
827S	METHOD 8270, SOIL		0	NONE	Z	08/12/92
SAS2	ARSENIC SOIL - FURNACE	<	2.50	MG/KG DW		08/06/92
SCD	CADMIUM SOIL	<	5.00	MG/KG DW		07/29/92
SCR	CHROMIUM SOIL	<	25.00	MG/KG DW		07/28/92
SCU	COPPER SOIL	<	25.00	MG/KG DW		07/28/92
SHG	MERCURY SOIL	<	0.100	MG/KG DW		07/31/92
SNI	NICKEL SOIL	<	25.00	MG/KG DW		07/29/92
SPB	LEAD SOIL	<	25.00	MG/KG DW		07/30/92
SZN	ZINC SOIL	<	25.00	MG/KG DW		07/29/92
824S	METHOD 8240 TESTS, SOIL		0	NONE	T	07/30/92
SSE2	SELENIUM SOIL - FURNACE	<	2.50	MG/KG DW		08/04/92
PSOL	SOLIDS-PERCENT		90.700	PERCENT		07/21/92
VS21	:CHLOROFORM		97	UG/KG DW	J	07/30/92

FINAL LAB REPORT

DATE 08/19/92

LAB ID 71114 REPORT TO M/YOUNG DUE DATE 08/17/92

SOURCE LOCATION 6255770200 SS-4 COLLECTION DATE 07/14/92

PROGRAM 021-MULTI-SITE COOP AGREEMENT (PREREMEDIAL) AMBIENT WATER SAMPLE N

SUBMITTED BY 7/17/92 PHONE 244-8702 SUBMIT DATE 07/17/92 LEGAL YES

SAMPLE NOTES:

TEST CODE	TEST NAME		RESULT	UNIT OF MEASURE	REMARKS CODE	PROCESS DATE
827S	METHOD 8270, SOIL		0	NONE	Z	08/12/92
SAS2	ARSENIC SOIL - FURNACE		5.50	MG/KG DW		08/06/92
SCD	CADMIUM SOIL	<	5.00	MG/KG DW		07/29/92
SCR	CHROMIUM SOIL	<	25.00	MG/KG DW		07/28/92
SCU	COPPER SOIL	<	25.00	MG/KG DW		07/28/92
SHG	MERCURY SOIL	<	0.100	MG/KG DW		07/31/92
SNI	NICKEL SOIL	<	25.00	MG/KG DW		07/29/92
SPB	LEAD SOIL	<	25.00	MG/KG DW		07/30/92
SZN	ZINC SOIL	<	25.00	MG/KG DW		07/29/92
8245	METHOD 8240 TESTS, SOIL		0	NONE	Z	07/30/92
SSE2	SELENIUM SOIL - FURNACE	<	2.50	MG/KG DW		08/04/92
PSOL	SOLIDS-PERCENT		83.000	PERCENT		07/21/92

FINAL LAB REPORT

DATE 08/21/92

LAB ID 71109 REPORT TO M/YOUNG DUE DATE 08/17/92

SOURCE LOCATION 6255770200 SS- 5 COLLECTION DATE 07/16/92

PROGRAM 021-MULTI-SITE COOP AGREEMENT (PREREMEDIAL) AMBIENT WATER SAMPLE N

SUBMITTED BY 7/17/92 PHONE 244-8702 SUBMIT DATE 07/17/92 LEGAL YES

SAMPLE NOTES: SZN = UNABLE TO GET SAMPLE DUPLICATES TO RUN WITHIN RPD C ONTROL LIMITS.

TEST CODE	TEST NAME		RESULT	UNIT OF MEASURE	REMARKS CODE	PROCESS DATE
827S	METHOD 8270, SOIL		0	NONE	T	08/10/92
SAS2	ARSENIC SOIL - FURNACE		4.20	MG/KG DW		08/06/92
SCD	CADMIUM SOIL	<	5.00	MG/KG DW		07/29/92
SCR	CHROMIUM SOIL	<	25.00	MG/KG DW		07/28/92
SCU	COPPER SOIL	<	25.00	MG/KG DW		07/28/92
SHG	MERCURY SOIL	<	0.100	MG/KG DW		07/31/92
SNI	NICKEL SOIL	<	25.00	MG/KG DW		07/29/92
SPB	LEAD SOIL		40.00	MG/KG DW		08/06/92
SZN	ZINC SOIL		86.90	MG/KG DW		08/13/92
824S	METHOD 8240 TESTS, SOIL		0	NONE	S	07/30/92
SSE2	SELENIUM SOIL - FURNACE	<	2.50	MG/KG DW		08/04/92
PSOL	SOLIDS-PERCENT		90.900	PERCENT		07/21/92
VS21	:CHLOROFORM		27	UG/KG DW	J	07/30/92
SS64	*PHENANTHRENE		430	UG/KG DW		08/10/92
SS67	*FLUORANTHENE		1800	UG/KG DW		08/10/92

FINAL LAB REPORT

DATE 08/21/92

LAB ID 71109 REPORT TO M/YOUNG DUE DATE 08/17/92

SS68	*PYRENE	1800	UG/KG DW	08/10/92
SS70	*BENZO(A)ANTHRACENE	950	UG/KG DW	08/10/92
SS71	*CHRYSENE	1100	UG/KG DW	08/10/92
SS74	*BENZO(B)FLUORANTHENE	1300	UG/KG DW	08/10/92
SS75	*BENZO(K)FLUORANTHENE	1100	UG/KG DW	08/10/92
SS77	*BENZO(A)PYRENE	850	UG/KG DW	08/10/92
SS78	*INDENO(1,2,3,CD)PYRENE	490	UG/KG DW	08/10/92
SS80	*BENZO(G,H,I)PERYLENE	260	UG/KG DW	08/10/92

FINAL LAB REPORT

DATE 08/19/92

LAB ID 71110 REPORT TO M/YOUNG DUE DATE 08/17/92

SOURCE LOCATION 6255770200 SS-6 COLLECTION DATE 07/16/92

PROGRAM 021-MULTI-SITE COOP AGREEMENT (PREREMEDIAL) AMBIENT WATER SAMPLE N

SUBMITTED BY 7/17/92 PHONE 244-8702 SUBMIT DATE 07/17/92 LEGAL YES

SAMPLE NOTES:

TEST CODE	TEST NAME		RESULT	UNIT OF MEASURE	REMARKS CODE	PROCESS DATE
827S	METHOD 8270, SOIL		0	NONE	T	08/10/92
SAS2	ARSENIC SOIL - FURNACE		4.10	MG/KG DW		08/06/92
SCD	CADMIUM SOIL	<	5.00	MG/KG DW		07/29/92
SCR	CHROMIUM SOIL	<	25.00	MG/KG DW		07/28/92
SCU	COPPER SOIL	<	25.00	MG/KG DW		07/28/92
SHG	MERCURY SOIL	<	0.100	MG/KG DW		07/31/92
SNI	NICKEL SOIL	<	25.00	MG/KG DW		07/29/92
SPB	LEAD SOIL	<	25.00	MG/KG DW		07/30/92
SZN	ZINC SOIL		29.00	MG/KG DW		08/06/92
824S	METHOD 8240 TESTS, SOIL		0	NONE	T	07/30/92
SSE2	SELENIUM SOIL - FURNACE	<	2.50	MG/KG DW		08/04/92
PSOL	SOLIDS-PERCENT		90.800	PERCENT		07/21/92
VS21	:CHLOROFORM		35	UG/KG DW	J	07/30/92
SS64	*PHENANTHRENE		750	UG/KG DW		08/10/92
SS67	*FLUORANTHENE		2000	UG/KG DW		08/10/92

FINAL LAB REPORT

DATE 08/19/92

LAB ID 71110 REPORT TO M/YOUNG DUE DATE 08/17/92

SS68	*PYRENE	1500	UG/KG DW	08/10/92
SS70	*BENZO(A)ANTHRACENE	830	UG/KG DW	08/10/92
SS71	*CHRYSENE	960	UG/KG DW	08/10/92
SS74	*BENZO(B)FLUORANTHENE	1100	UG/KG DW	08/10/92
SS75	*BENZO(K)FLUORANTHENE	730	UG/KG DW	08/10/92
SS77	*BENZO(A)PYRENE	660	UG/KG DW	08/10/92
SS78	*INDENO(1,2,3,CD)PYRENE	470	UG/KG DW	08/10/92
SS80	*BENZO(G,H,I)PERYLENE	250	UG/KG DW	08/10/92

FINAL LAB REPORT

DATE 08/20/92

LAB ID 71115 REPORT TO M/YOUNG DUE DATE 08/17/92

SOURCE LOCATION 6255770200 SS-7 COLLECTION DATE 07/14/92

PROGRAM 021-MULTI-SITE COOP AGREEMENT (PREREMEDIAL) AMBIENT WATER SAMPLE N

SUBMITTED BY 7/17/92 PHONE 244-8702 SUBMIT DATE 07/17/92 LEGAL YES

SAMPLE NOTES:

TEST CODE	TEST NAME		RESULT	UNIT OF MEASURE	REMARKS CODE	PROCESS DATE
827S	METHOD 8270, SOIL		0	NONE	S	08/12/92
SAS2	ARSENIC SOIL - FURNACE	<	2.50	MG/KG DW		08/18/92
SCD	CADMIUM SOIL	<	5.00	MG/KG DW		07/29/92
SCR	CHROMIUM SOIL	<	25.00	MG/KG DW		07/28/92
SCU	COPPER SOIL	<	25.00	MG/KG DW		07/28/92
SHG	MERCURY SOIL	<	0.100	MG/KG DW		07/31/92
SNI	NICKEL SOIL	<	25.00	MG/KG DW		07/29/92
SPB	LEAD SOIL	<	25.00	MG/KG DW		07/30/92
SZN	ZINC SOIL		36.00	MG/KG DW		07/29/92
824S	METHOD 8240 TESTS, SOIL		0	NONE	S	07/30/92
SSE2	SELENIUM SOIL - FURNACE	<	2.50	MG/KG DW		08/04/92
PSOL	SOLIDS-PERCENT		94.700	PERCENT		07/21/92
VS21	:CHLOROFORM		29	UG/KG DW	J	07/30/92
SS64	*PHENANTHRENE		880	UG/KG DW		08/12/92
SS67	*FLUORANTHENE		3600	UG/KG DW		08/12/92

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FINAL LAB REPORT

DATE 08/20/92

LAB ID 71115 REPORT TO M/YOUNG DUE DATE 08/17/92

SS68	*PYRENE	3200	UG/KG DW	08/12/92
SS70	*BENZO(A)ANTHRACENE	1800	UG/KG DW	08/12/92
SS71	*CHRYSENE	2200	UG/KG DW	08/12/92
SS74	*BENZO(B)FLUORANTHENE	3000	UG/KG DW	08/12/92
SS75	*BENZO(K)FLUORANTHENE	2400	UG/KG DW	08/12/92
SS77	*BENZO(A)PYRENE	1800	UG/KG DW	08/12/92
SS78	*INDENO(1,2,3,CD)PYRENE	1600	UG/KG DW	08/12/92
SS79	*DIBENZ(A,H)ANTHRACENE	400	UG/KG DW	08/12/92
SS80	*BENZO(G,H,I)PERYLENE	1400	UG/KG DW	08/12/92

FINAL LAB REPORT

DATE 08/19/92

LAB ID 71106 REPORT TO M/YOUNG DUE DATE 08/17/92

SOURCE LOCATION 6255770200 SS-8 COLLECTION DATE 07/16/92

PROGRAM 021-MULTI-SITE COOP AGREEMENT (PREREMEDIAL) AMBIENT WATER SAMPLE N

SUBMITTED BY 7/17/92 PHONE 244-8702 SUBMIT DATE 07/17/92 LEGAL YES

SAMPLE NOTES:

TEST CODE	TEST NAME		RESULT	UNIT OF MEASURE	REMARKS CODE	PROCESS DATE
827S	METHOD 8270, SOIL		0	NONE	Z	08/10/92
SAS2	ARSENIC SOIL - FURNACE	<	2.50	MG/KG DW		08/06/92
SCD	CADMIUM SOIL	<	5.00	MG/KG DW		07/29/92
SCR	CHROMIUM SOIL	<	25.00	MG/KG DW		07/28/92
SCU	COPPER SOIL	<	25.00	MG/KG DW		07/28/92
SHG	MERCURY SOIL	<	0.100	MG/KG DW		07/22/92
SNI	NICKEL SOIL	<	25.00	MG/KG DW		07/29/92
SPB	LEAD SOIL	<	25.00	MG/KG DW		07/30/92
SZN	ZINC SOIL	<	25.00	MG/KG DW		07/29/92
824S	METHOD 8240 TESTS, SOIL		0	NONE	Z	07/30/92
SSE2	SELENIUM SOIL - FURNACE	<	2.50	MG/KG DW		08/04/92
PSOL	SOLIDS-PERCENT		92.300	PERCENT		07/21/92

FINAL LAB REPORT

DATE 08/19/92

LAB ID 71107 REPORT TO M/YOUNG DUE DATE 08/17/92

SOURCE LOCATION 6255770200 SS-9 COLLECTION DATE 07/16/92

PROGRAM 021-MULTI-SITE COOP AGREEMENT (PREREMEDIAL) AMBIENT WATER SAMPLE N

SUBMITTED BY 7/17/92 PHONE 244-8702 SUBMIT DATE 07/17/92 LEGAL YES

SAMPLE NOTES:

TEST CODE	TEST NAME		RESULT	UNIT OF MEASURE	REMARKS CODE	PROCESS DATE
827S	METHOD 8270, SOIL		0	NONE	Z	08/10/92
SAS2	ARSENIC SOIL - FURNACE	<	2.50	MG/KG DW		08/06/92
SCD	CADMIUM SOIL	<	5.00	MG/KG DW		07/29/92
SCR	CHROMIUM SOIL	<	25.00	MG/KG DW		07/28/92
SCU	COPPER SOIL	<	25.00	MG/KG DW		07/28/92
SHG	MERCURY SOIL	<	0.100	MG/KG DW		07/22/92
SNI	NICKEL SOIL	<	25.00	MG/KG DW		07/29/92
SPB	LEAD SOIL	<	25.00	MG/KG DW		07/30/92
SZN	ZINC SOIL		28.00	MG/KG DW		07/29/92
824S	METHOD 8240 TESTS, SOIL		0	NONE	S	07/30/92
SSE2	SELENIUM SOIL - FURNACE	<	2.50	MG/KG DW		08/04/92
PSOL	SOLIDS-PERCENT		91.300	PERCENT		07/21/92
VS21	:CHLOROFORM		42	UG/KG DW	J	07/30/92

FINAL LAB REPORT

DATE 08/21/92

LAB ID 71116 REPORT TO M/YOUNG DUE DATE 08/17/92

SOURCE LOCATION 6255770200 SS-10 COLLECTION DATE 07/14/92

PROGRAM 021-MULTI-SITE COOP AGREEMENT (PREREMEDIAL) AMBIENT WATER SAMPLE N

SUBMITTED BY 7/17/92 PHONE 244-8702 SUBMIT DATE 07/17/92 LEGAL YES

SAMPLE NOTES: SZN = UNABLE TO GET SAMPLE DUPLICATES TO RUN WITHIN RPD C ONTROL LIMITS.

TEST CODE	TEST NAME		RESULT	UNIT OF MEASURE	REMARKS CODE	PROCESS DATE
827S	METHOD 8270, SOIL		0	NONE	T	08/12/92
SAS2	ARSENIC SOIL - FURNACE		4.40	MG/KG DW		08/06/92
SCD	CADMIUM SOIL	<	5.00	MG/KG DW		07/29/92
SCR	CHROMIUM SOIL	<	25.00	MG/KG DW		07/28/92
SCU	COPPER SOIL	<	25.00	MG/KG DW		07/28/92
SHG	MERCURY SOIL	<	0.100	MG/KG DW		07/31/92
SNI	NICKEL SOIL	<	25.00	MG/KG DW		07/29/92
SPB	LEAD SOIL		68.00	MG/KG DW		08/06/92
SZN	ZINC SOIL		198.00	MG/KG DW		08/13/92
824S	METHOD 8240 TESTS, SOIL		0	NONE	Z	07/30/92
SSE2	SELENIUM SOIL - FURNACE	<	2.50	MG/KG DW		08/04/92
PSOL	SOLIDS-PERCENT		90.300	PERCENT		07/21/92
SS34	*NAPHTHALENE		240	UG/KG DW		08/12/92
SS39	*2-METHYLNAPHTHALENE		220	UG/KG DW		08/12/92
SS64	*PHENANTHRENE		630	UG/KG DW		08/12/92

FINAL LAB REPORT

DATE 08/21/92

LAB ID 71116 REPORT TO M/YOUNG DUE DATE 08/17/92

SS65	*ANTHRACENE	200	UG/KG DW	08/12/92
SS67	*FLUORANTHENE	1300	UG/KG DW	08/12/92
SS68	*PYRENE	1000	UG/KG DW	08/12/92
SS70	*BENZO(A)ANTHRACENE	630	UG/KG DW	08/12/92
SS71	*CHRYSENE	800	UG/KG DW	08/12/92
SS74	*BENZO(B)FLUORANTHENE	1000	UG/KG DW	08/12/92
SS75	*BENZO(K)FLUORANTHENE	630	UG/KG DW	08/12/92
SS77	*BENZO(A)PYRENE	500	UG/KG DW	08/12/92
SS78	*INDENO(1,2,3,CD)PYRENE	400	UG/KG DW	08/12/92
SS80	*BENZO(G,H,I)PERYLENE	240	UG/KG DW	08/12/92

FINAL LAB REPORT

DATE 08/21/92

LAB ID 71108 REPORT TO M/YOUNG DUE DATE 08/17/92

SOURCE LOCATION 6255770200 SS-11 COLLECTION DATE 07/16/92

PROGRAM 021-MULTI-SITE COOP AGREEMENT (PREREMEDIAL) AMBIENT WATER SAMPLE N

SUBMITTED BY 7/17/92 PHONE 244-8702 SUBMIT DATE 07/17/92 LEGAL YES

SAMPLE NOTES: SPB, SZN - UNABLE TO GET SAMPLE DUPLICATES WITHIN R PD CONTROL LIMITS.

TEST CODE	TEST NAME		RESULT	UNIT OF MEASURE	REMARKS CODE	PROCESS DATE
827S	METHOD 8270, SOIL		0	NONE	Z	08/10/92
SAS2	ARSENIC SOIL - FURNACE		2.50	MG/KG DW		08/06/92
SCD	CADMIUM SOIL	<	5.00	MG/KG DW		07/29/92
SCR	CHROMIUM SOIL	<	25.00	MG/KG DW		07/28/92
SCU	COPPER SOIL	<	25.00	MG/KG DW		07/28/92
SHG	MERCURY SOIL	<	0.100	MG/KG DW		07/22/92
SNI	NICKEL SOIL	<	25.00	MG/KG DW		07/29/92
SPB	LEAD SOIL		34.00	MG/KG DW		08/13/92
SZN	ZINC SOIL		105.00	MG/KG DW		08/13/92
824S	METHOD 8240 TESTS, SOIL		0	NONE	S	07/30/92
SSE2	SELENIUM SOIL - FURNACE	<	2.50	MG/KG DW		08/04/92
PSOL	SOLIDS-PERCENT		87.600	PERCENT		07/21/92
VS21	:CHLOROFORM		41	UG/KG DW	J	07/30/92

FINAL LAB REPORT

DATE 08/10/92

LAB ID 71088 REPORT TO M/YOUNG DUE DATE 08/17/92

SOURCE LOCATION 6255770200MW-1 COLLECTION DATE 07/14/92

PROGRAM 021-MULTI-SITE COOP AGREEMENT (PREREMEDIAL) AMBIENT WATER SAMPLE Y

SUBMITTED BY 7/17/92 PHONE 244-8702 SUBMIT DATE 07/17/92 LEGAL YES

SAMPLE NOTES:

TEST CODE	TEST NAME		RESULT	UNIT OF MEASURE	REMARKS CODE	PROCESS DATE
824W	METHOD 8240 TESTS, WATER		0	NONE	S	07/23/92
DAS2	ARSENIC DISS - FURNACE	<	5	UG/L		08/05/92
DCD	CADMIUM DISSOLVED	<	2	UG/L		07/29/92
DCR	CHROMIUM DISSOLVED	<	10	UG/L		07/28/92
DCU	COPPER DISSOLVED	<	10	UG/L		07/28/92
DHG	MERCURY DISSOLVED	<	0.2	UG/L		08/05/92
DNI	NICKEL DISSOLVED	<	10	UG/L		07/29/92
DPB	LEAD DISSOLVED	<	10	UG/L		07/30/92
DZN	ZINC DISSOLVED	<	40	UG/L		07/29/92
DSE2	SELENIUM DISS - FURNACE	<	5	UG/L		07/31/92
VW15	;METHYLENE CHLORIDE		270	PPB		07/23/92
VW22	;1,1,1-TRICHLOROETHANE		21	PPB		07/23/92

FINAL LAB REPORT

DATE 08/10/92

LAB ID 71089 REPORT TO M/YOUNG DUE DATE 08/17/92

SOURCE LOCATION 6255770200 MW-2 COLLECTION DATE 07/14/92

PROGRAM 021-MULTI-SITE COOP AGREEMENT (PREREMEDIAL) AMBIENT WATER SAMPLE Y

SUBMITTED BY 7/17/92 PHONE 244-8702 SUBMIT DATE 07/17/92 LEGAL YES

SAMPLE NOTES:

TEST CODE	TEST NAME		RESULT	UNIT OF MEASURE	REMARKS CODE	PROCESS DATE
824W	METHOD 8240 TESTS, WATER		0	NONE	Z	07/23/92
DAS2	ARSENIC DISS - FURNACE	<	5	UG/L		08/05/92
DCD	CADMIUM DISSOLVED	<	2	UG/L		07/29/92
DCR	CHROMIUM DISSOLVED	<	10	UG/L		07/28/92
DCU	COPPER DISSOLVED	<	10	UG/L		07/28/92
DHG	MERCURY DISSOLVED	<	0.2	UG/L		08/05/92
DNI	NICKEL DISSOLVED	<	10	UG/L		07/29/92
DPB	LEAD DISSOLVED	<	10	UG/L		07/30/92
DZN	ZINC DISSOLVED	<	40	UG/L		07/29/92
DSE2	SELENIUM DISS - FURNACE	<	5	UG/L		07/31/92

FINAL LAB REPORT

DATE 08/10/92

LAB ID 71090 REPORT TO M/YOUNG DUE DATE 08/17/92

SOURCE LOCATION 6255770200 MW-3 COLLECTION DATE 07/14/92

PROGRAM 021-MULTI-SITE COOP AGREEMENT (PREREMEDIAL) AMBIENT WATER SAMPLE Y

SUBMITTED BY 7/17/92 PHONE 244-8702 SUBMIT DATE 07/17/92 LEGAL YES

SAMPLE NOTES:

TEST CODE	TEST NAME		RESULT	UNIT OF MEASURE	REMARKS CODE	PROCESS DATE
824W	METHOD 8240 TESTS, WATER		0	NONE	Z	07/23/92
DAS2	ARSENIC DISS - FURNACE	<	5	UG/L		08/05/92
DCD	CADMIUM DISSOLVED	<	2	UG/L		07/29/92
DCR	CHROMIUM DISSOLVED	<	10	UG/L		07/28/92
DCU	COPPER DISSOLVED	<	10	UG/L		07/28/92
DHG	MERCURY DISSOLVED	<	0.2	UG/L		08/05/92
DNI	NICKEL DISSOLVED	<	10	UG/L		07/29/92
DPB	LEAD DISSOLVED	<	10	UG/L		07/30/92
DZN	ZINC DISSOLVED	<	40	UG/L		07/29/92
DSE2	SELENIUM DISS - FURNACE	<	5	UG/L		07/31/92

FINAL LAB REPORT

DATE 08/10/92

LAB ID 71092 REPORT TO M/YOUNG DUE DATE 08/17/92

SOURCE LOCATION 6255770200 MW-4 COLLECTION DATE 07/14/92

PROGRAM 021-MULTI-SITE COOP AGREEMENT (PREREMEDIAL) AMBIENT WATER SAMPLE Y

SUBMITTED BY 7/17/92 PHONE 244-8702 SUBMIT DATE 07/17/92 LEGAL YES

SAMPLE NOTES:

TEST CODE	TEST NAME		RESULT	UNIT OF MEASURE	REMARKS CODE	PROCESS DATE
824W	METHOD 8240 TESTS, WATER		0	NONE	Z	07/23/92
DAS2	ARSENIC DISS - FURNACE	<	5	UG/L		08/05/92
DCD	CADMIUM DISSOLVED	<	2	UG/L		07/29/92
DCR	CHROMIUM DISSOLVED	<	10	UG/L		07/28/92
DCU	COPPER DISSOLVED	<	10	UG/L		07/28/92
DHG	MERCURY DISSOLVED	<	0.2	UG/L		08/05/92
DNI	NICKEL DISSOLVED	<	10	UG/L		07/29/92
DPB	LEAD DISSOLVED	<	10	UG/L		07/30/92
DZN	ZINC DISSOLVED	<	40	UG/L		07/29/92
DSE2	SELENIUM DISS - FURNACE	<	5	UG/L		07/31/92

FINAL LAB REPORT

DATE 08/10/92

LAB ID 71093 REPORT TO M/YOUNG DUE DATE 08/17/92

SOURCE LOCATION 6255770200 MW-5 COLLECTION DATE 07/14/92

PROGRAM 021-MULTI-SITE COOP AGREEMENT (PREREMEDIAL) AMBIENT WATER SAMPLE Y

SUBMITTED BY 7/17/92 PHONE 244-8702 SUBMIT DATE 07/17/92 LEGAL YES

SAMPLE NOTES:

TEST CODE	TEST NAME		RESULT	UNIT OF MEASURE	REMARKS CODE	PROCESS DATE
824W	METHOD 8240 TESTS, WATER		0	NONE	Z	07/23/92
DAS2	ARSENIC DISS - FURNACE	<	5	UG/L		08/05/92
DCD	CADMIUM DISSOLVED	<	2	UG/L		07/29/92
DCR	CHROMIUM DISSOLVED	<	10	UG/L		07/28/92
DCU	COPPER DISSOLVED	<	10	UG/L		07/28/92
DHG	MERCURY DISSOLVED		1.2	UG/L		08/05/92
DNI	NICKEL DISSOLVED	<	10	UG/L		07/29/92
DPB	LEAD DISSOLVED	<	10	UG/L		07/30/92
DZN	ZINC DISSOLVED	<	40	UG/L		07/29/92
DSE2	SELENIUM DISS - FURNACE	<	5	UG/L		07/31/92

FINAL LAB REPORT

DATE 08/10/92

LAB ID 71094 REPORT TO M/YOUNG DUE DATE 08/17/92

SOURCE LOCATION 6255770200 DW-1 COLLECTION DATE 07/14/92

PROGRAM 021-MULTI-SITE COOP AGREEMENT (PREREMEDIAL) AMBIENT WATER SAMPLE Y

SUBMITTED BY 7/17/92 PHONE 244-8702 SUBMIT DATE 07/17/92 LEGAL YES

SAMPLE NOTES:

TEST CODE	TEST NAME		RESULT	UNIT OF MEASURE	REMARKS CODE	PROCESS DATE
824W	METHOD 8240 TESTS, WATER		0	NONE	S	07/23/92
DAS2	ARSENIC DISS - FURNACE	<	5	UG/L		08/05/92
DCD	CADMIUM DISSOLVED	<	2	UG/L		07/29/92
DCR	CHROMIUM DISSOLVED	<	10	UG/L		07/28/92
DCU	COPPER DISSOLVED	<	10	UG/L		07/28/92
DHG	MERCURY DISSOLVED	<	0.2	UG/L		08/05/92
DNI	NICKEL DISSOLVED	<	10	UG/L		07/29/92
DPB	LEAD DISSOLVED	<	10	UG/L		07/30/92
DZN	ZINC DISSOLVED	<	40	UG/L		07/29/92
DSE2	SELENIUM DISS - FURNACE	<	5	UG/L		07/31/92
VW13	;1,1-DICHLOROETHENE		6	PPB		07/23/92
VW22	;1,1,1-TRICHLOROETHANE		55	PPB		07/23/92
VW35	;TETRACHLOROETHENE (PERC)		5	PPB		07/23/92

FINAL LAB REPORT

DATE 08/10/92

LAB ID 71095 REPORT TO M/YOUNG DUE DATE 08/17/92

SOURCE LOCATION 6255770200 DW-1 DUPE COLLECTION DATE 07/14/92

PROGRAM 021-MULTI-SITE COOP AGREEMENT (PREREMEDIAL) AMBIENT WATER SAMPLE Y

SUBMITTED BY 7/17/92 PHONE 244-8702 SUBMIT DATE 07/17/92 LEGAL YES

SAMPLE NOTES:

TEST CODE	TEST NAME	RESULT	UNIT OF MEASURE	REMARKS CODE	PROCESS DATE
824W	METHOD 8240 TESTS, WATER	0	NONE	S	07/23/92
VW13	;1,1-DICHLOROETHENE	6	PPB		07/23/92
VW22	;1,1,1-TRICHLOROETHANE	53	PPB		07/23/92
VW35	;TETRACHLOROETHENE (PERC)	5	PPB		07/23/92

FINAL LAB REPORT

DATE 08/10/92

LAB ID 71096 REPORT TO M/YOUNG DUE DATE 08/17/92

SOURCE LOCATION 6255770200 WP-2 COLLECTION DATE 07/14/92

PROGRAM 021-MULTI-SITE COOP AGREEMENT (PREREMEDIAL) AMBIENT WATER SAMPLE Y

SUBMITTED BY 7/17/92 PHONE 244-8702 SUBMIT DATE 07/17/92 LEGAL YES

SAMPLE NOTES:

TEST CODE	TEST NAME		RESULT	UNIT OF MEASURE	REMARKS CODE	PROCESS DATE
824W	METHOD 8240 TESTS, WATER		0	NONE	Z	07/23/92
DAS2	ARSENIC DISS - FURNACE	<	5	UG/L		08/05/92
DCD	CADMIUM DISSOLVED	<	2	UG/L		07/29/92
DCR	CHROMIUM DISSOLVED	<	10	UG/L		07/28/92
DCU	COPPER DISSOLVED	<	10	UG/L		07/28/92
DHG	MERCURY DISSOLVED	<	0.2	UG/L		08/05/92
DNI	NICKEL DISSOLVED	<	10	UG/L		07/29/92
DPB	LEAD DISSOLVED	<	10	UG/L		07/30/92
DZN	ZINC DISSOLVED	<	40	UG/L		07/29/92
DSE2	SELENIUM DISS - FURNACE	<	5	UG/L		07/31/92

FINAL LAB REPORT

DATE 08/10/92

LAB ID 71097 REPORT TO M/YOUNG DUE DATE 08/17/92

SOURCE LOCATION 6255770200 WP-3 COLLECTION DATE 07/14/92

PROGRAM 021-MULTI-SITE COOP AGREEMENT (PREREMEDIAL) AMBIENT WATER SAMPLE Y

SUBMITTED BY 7/17/92 PHONE 244-8702 SUBMIT DATE 07/17/92 LEGAL YES

SAMPLE NOTES:

TEST CODE	TEST NAME		RESULT	UNIT OF MEASURE	REMARKS CODE	PROCESS DATE
824W	METHOD 8240 TESTS, WATER		0	NONE	Z	07/23/92
DAS2	ARSENIC DISS - FURNACE	<	5	UG/L		08/05/92
DCD	CADMIUM DISSOLVED	<	2	UG/L		07/29/92
DCR	CHROMIUM DISSOLVED	<	10	UG/L		07/28/92
DCU	COPPER DISSOLVED	<	10	UG/L		07/28/92
DHG	MERCURY DISSOLVED	<	0.2	UG/L		08/05/92
DNI	NICKEL DISSOLVED	<	10	UG/L		07/29/92
DPB	LEAD DISSOLVED	<	10	UG/L		07/30/92
DZN	ZINC DISSOLVED		8310	UG/L		07/29/92
DSE2	SELENIUM DISS - FURNACE	<	5	UG/L		07/31/92

FINAL LAB REPORT

DATE 08/10/92

LAB ID 71098 REPORT TO M/YOUNG DUE DATE 08/17/92

SOURCE LOCATION 6255770200 SW-1 COLLECTION DATE 07/14/92

PROGRAM 021-MULTI-SITE COOP AGREEMENT (PREREMEDIAL) AMBIENT WATER SAMPLE Y

SUBMITTED BY 7/17/92 PHONE 244-8702 SUBMIT DATE 07/17/92 LEGAL YES

SAMPLE NOTES:

TEST CODE	TEST NAME		RESULT	UNIT OF MEASURE	REMARKS CODE	PROCESS DATE
824W	METHOD 8240 TESTS, WATER		0	NONE	Z	07/23/92
TAS2	ARSENIC TOTAL - FURNACE	<	5	UG/L		08/05/92
TCD	CADMIUM TOTAL	<	2	UG/L		07/29/92
TCR	CHROMIUM TOTAL	<	10	UG/L		07/28/92
TCU	COPPER TOTAL	<	10	UG/L		07/28/92
THG	MERCURY TOTAL	<	0.2	UG/L		08/05/92
TNI	NICKEL TOTAL	<	10	UG/L		07/29/92
TPB	LEAD TOTAL	<	10	UG/L		07/30/92
TZN	ZINC TOTAL	<	40	UG/L		07/29/92
TSE2	SELENIUM TOTAL - FURNACE	<	5	UG/L		07/31/92

FINAL LAB REPORT

DATE 08/10/92

LAB ID 71099 REPORT TO M/YOUNG DUE DATE 08/17/92

SOURCE LOCATION 6255770200 SW-2 COLLECTION DATE 07/14/92

PROGRAM 021-MULTI-SITE COOP AGREEMENT (PREREMEDIAL) AMBIENT WATER SAMPLE Y

SUBMITTED BY 7/17/92 PHONE 244-8702 SUBMIT DATE 07/17/92 LEGAL YES

SAMPLE NOTES:

TEST CODE	TEST NAME		RESULT	UNIT OF MEASURE	REMARKS CODE	PROCESS DATE
824W	METHOD 8240 TESTS, WATER		0	NONE	Z	07/23/92
TAS2	ARSENIC TOTAL - FURNACE	<	5	UG/L		08/05/92
TCD	CADMIUM TOTAL	<	2	UG/L		07/29/92
TCR	CHROMIUM TOTAL	<	10	UG/L		07/28/92
TCU	COPPER TOTAL	<	10	UG/L		07/28/92
THG	MERCURY TOTAL	<	0.2	UG/L		08/05/92
TNI	NICKEL TOTAL	<	10	UG/L		07/29/92
TPB	LEAD TOTAL	<	10	UG/L		07/30/92
TZN	ZINC TOTAL	<	40	UG/L		07/29/92
TSL2	SELENIUM TOTAL - FURNACE	<	5	UG/L		07/31/92

FINAL LAB REPORT

DATE 08/10/92

LAB ID 71100 REPORT TO M/YOUNG DUE DATE 08/17/92

SOURCE LOCATION 6255770200 SW-3 COLLECTION DATE 07/16/92

PROGRAM 021-MULTI-SITE COOP AGREEMENT (PREREMEDIAL) AMBIENT WATER SAMPLE Y

SUBMITTED BY 7/17/92 PHONE 244-8702 SUBMIT DATE 07/17/92 LEGAL YES

SAMPLE NOTES:

TEST CODE	TEST NAME		RESULT	UNIT OF MEASURE	REMARKS CODE	PROCESS DATE
824W	METHOD 8240 TESTS, WATER		0	NONE	Z	07/23/92
TAS2	ARSENIC TOTAL - FURNACE	<	5	UG/L		08/05/92
TCD	CADMIUM TOTAL	<	2	UG/L		07/29/92
TCR	CHROMIUM TOTAL	<	10	UG/L		07/28/92
TCU	COPPER TOTAL	<	10	UG/L		07/28/92
THG	MERCURY TOTAL	<	0.2	UG/L		08/05/92
TNI	NICKEL TOTAL	<	10	UG/L		07/29/92
TPB	LEAD TOTAL	<	10	UG/L		07/30/92
TZN	ZINC TOTAL	<	40	UG/L		07/29/92
TSE2	SELENIUM TOTAL - FURNACE	<	5	UG/L		07/31/92

FINAL LAB REPORT

DATE 08/12/92

LAB ID 71101 REPORT TO M/YOUNG DUE DATE 08/17/92

SOURCE LOCATION 6255770200 SW-4 COLLECTION DATE 07/16/92

PROGRAM 021-MULTI-SITE COOP AGREEMENT (PREREMEDIAL) AMBIENT WATER SAMPLE Y

SUBMITTED BY 7/17/92 PHONE 244-8702 SUBMIT DATE 07/17/92 LEGAL YES

SAMPLE NOTES:

TEST CODE	TEST NAME		RESULT	UNIT OF MEASURE	REMARKS CODE	PROCESS DATE
824W	METHOD 8240 TESTS, WATER		0	NONE	Z	07/23/92
TAS2	ARSENIC TOTAL - FURNACE		5	UG/L		08/05/92
TCD	CADMIUM TOTAL	<	2	UG/L		07/29/92
TCR	CHROMIUM TOTAL	<	10	UG/L		07/28/92
TCU	COPPER TOTAL	<	10	UG/L		07/28/92
THG	MERCURY TOTAL	<	0.2	UG/L		08/05/92
TNI	NICKEL TOTAL	<	10	UG/L		07/29/92
TPB	LEAD TOTAL	<	10	UG/L		07/30/92
TZN	ZINC TOTAL	<	40	UG/L		07/29/92
TSE2	SELENIUM TOTAL - FURNACE	<	5	UG/L		07/31/92

FINAL LAB REPORT

DATE 08/20/92

LAB ID 71102 REPORT TO M/YOUNG DUE DATE 08/17/92

SOURCE LOCATION 625577200 SD-1 COLLECTION DATE 07/14/92

PROGRAM 021-MULTI-SITE CODP AGREEMENT (PREREMEDIAL) AMBIENT WATER SAMPLE N

SUBMITTED BY 7/17/92 PHONE 244-8702 SUBMIT DATE 07/17/92 LEGAL YES

SAMPLE NOTES:

TEST CODE	TEST NAME		RESULT	UNIT OF MEASURE	REMARKS CODE	PROCESS DATE
827S	METHOD 8270, SOIL		0	NONE	Z	08/10/92
SAS2	ARSENIC SOIL - FURNACE		5.10	MG/KG DW	J	08/18/92
SCD	CADMIUM SOIL	<	5.00	MG/KG DW		07/29/92
SCR	CHROMIUM SOIL	<	25.00	MG/KG DW		07/28/92
SCU	COPPER SOIL	<	25.00	MG/KG DW		07/28/92
SHG	MERCURY SOIL	<	0.100	MG/KG DW		07/22/92
SNI	NICKEL SOIL	<	25.00	MG/KG DW		07/29/92
SPB	LEAD SOIL	<	25.00	MG/KG DW		07/30/92
SZN	ZINC SOIL		26.00	MG/KG DW		07/29/92
SSF2	SELENIUM SOIL - FURNACE	<	2.50	MG/KG DW		08/04/92
PSOL	SOLIDS-PERCENT		83.200	PERCENT		07/21/92

FINAL LAB REPORT

DATE 08/19/92

LAB ID 71103 REPORT TO M/YOUNG DUE DATE 08/17/92

SOURCE LOCATION 6255770200 SD-2 COLLECTION DATE 07/14/92

PROGRAM 021-MULTI-SITE COOP AGREEMENT (PREREMEDIAL) AMBIENT WATER SAMPLE N

SUBMITTED BY 7/17/92 PHONE 244-8702 SUBMIT DATE 07/17/92 LEGAL YES

SAMPLE NOTES:

TEST CODE	TEST NAME		RESULT	UNIT OF MEASURE	REMARKS CODE	PROCESS DATE
827S	METHOD 8270, SOIL		0	NONE	Z	08/10/92
SAS2	ARSENIC SOIL - FURNACE	<	2.50	MG/KG DW		08/06/92
SCD	CADMIUM SOIL	<	5.00	MG/KG DW		07/29/92
SCR	CHROMIUM SOIL	<	25.00	MG/KG DW		07/28/92
SCU	COPPER SOIL	<	25.00	MG/KG DW		07/28/92
SHG	MERCURY SOIL	<	0.100	MG/KG DW		07/22/92
SNI	NICKEL SOIL	<	25.00	MG/KG DW		07/29/92
SPB	LEAD SOIL	<	25.00	MG/KG DW		07/30/92
SZN	ZINC SOIL	<	25.00	MG/KG DW		07/29/92
SSE2	SELENIUM SOIL - FURNACE	<	2.50	MG/KG DW		08/04/92
PSOL	SOLIDS-PERCENT		80.800	PERCENT		07/21/92

AUG 25 1992

FINAL LAB REPORT

DATE 08/21/92

LAB ID 71104 REPORT TO M/YOUNG DUE DATE 08/17/92

SOURCE LOCATION 6255770200 SD-3 COLLECTION DATE 07/16/92

PROGRAM 021-MULTI-SITE COOP AGREEMENT (PREREMEDIAL) AMBIENT WATER SAMPLE N

SUBMITTED BY 7/17/92 PHONE 244-8702 SUBMIT DATE 07/17/92 LEGAL YES

SAMPLE NOTES:

TEST CODE	TEST NAME	RESULT	UNIT OF MEASURE	REMARKS CODE	PROCESS DATE
827S	METHOD 8270, SOIL	0	NONE	T	08/10/92
SAS2	ARSENIC SOIL - FURNACE	16.00	MG/KG DW		08/18/92
SCD	CADMIUM SOIL	< 5.00	MG/KG DW		07/29/92
SCR	CHROMIUM SOIL	85.00	MG/KG DW		08/06/92
SCU	COPPER SOIL	173.00	MG/KG DW		07/28/92
SHG	MERCURY SOIL	0.130	MG/KG DW		07/22/92
SNI	NICKEL SOIL	140.00	MG/KG DW		07/29/92
SPB	LEAD SOIL	291.00	MG/KG DW		08/06/92
SZN	ZINC SOIL	378.00	MG/KG DW		07/29/92
SSE2	SELENIUM SOIL - FURNACE	< 2.50	MG/KG DW		08/04/92
PSOL	SOLIDS-PERCENT	27.600	PERCENT		07/21/92
SS67	*FLUORANTHENE	7400	UG/KG DW		08/10/92
SS68	*PYRENE	7400	UG/KG DW		08/10/92
SS70	*BENZO(A)ANTHRACENE	5200	UG/KG DW		08/10/92
SS71	*CHRYSENE	4800	UG/KG DW		08/10/92

FINAL LAB REPORT

DATE 08/21/92

LAB ID 71104 REPORT TO M/YOUNG DUE DATE 08/17/92

SS74	*BENZO(B)FLUORANTHENE	6600	UG/KG DW	08/10/92
SS75	*BENZO(K)FLUORANTHENE	4800	UG/KG DW	08/10/92
SS77	*BENZO(A)PYRENE	4400	UG/KG DW	08/10/92
SS78	*INDENO(1,2,3,CD)PYRENE	4000	UG/KG DW	08/10/92
SS80	*BENZO(G,H,I)PERYLENE	2200	UG/KG DW	08/10/92

FINAL LAB REPORT

DATE 08/19/92

LAB ID 71105 REPORT TO M/YOUNG DUE DATE 08/17/92

SOURCE LOCATION 6255770200 SD-4 COLLECTION DATE 07/16/92

PROGRAM 021-MULTI-SITE COOP AGREEMENT (PREREMEDIAL) AMBIENT WATER SAMPLE N

SUBMITTED BY 7/17/92 PHONE 244-8702 SUBMIT DATE 07/17/92 LEGAL YES

SAMPLE NOTES:

TEST CODE	TEST NAME		RESULT	UNIT OF MEASURE	REMARKS CODE	PROCESS DATE
827S	METHOD 8270, SOIL		0	NONE	U	08/10/92
SAS2	ARSENIC SOIL - FURNACE		2.80	MG/KG DW		08/06/92
SCD	CADMIUM SOIL	<	5.00	MG/KG DW		07/29/92
SCR	CHROMIUM SOIL	<	25.00	MG/KG DW		07/28/92
SCU	COPPER SOIL	<	25.00	MG/KG DW		07/28/92
SHG	MERCURY SOIL	<	0.100	MG/KG DW		07/22/92
SNI	NICKEL SOIL	<	25.00	MG/KG DW		07/29/92
SPB	LEAD SOIL	<	25.00	MG/KG DW		07/30/92
SZN	ZINC SOIL		36.00	MG/KG DW		08/06/92
SSE2	SELENIUM SOIL - FURNACE	<	2.50	MG/KG DW		08/04/92
PSOL	SOLIDS-PERCENT		66.800	PERCENT		07/21/92