

164326



Hawley Building, Suite 436  
1025 Main Street, Wheeling, WV 26003 1-304-233-1610

REC

NOV

TECHNICAL ASSISTANCE TEAM FOR EMERGENCY RESPONSE REMOVAL AND PREVENTION  
EPA CONTRACT 68-WO-0036

WESTERN  
S...

MEMORANDUM

TO: Dave Wright, OSC, Region III  
Western Response and Oil Enforcement Section

THRU: Bob Parkins ATATL, Wheeling, WV TDD #9010-53  
PCS #1053

FROM: Chuck Fisher, TAT Wheeling, WV

SUBJECT: Trip Report  
Penn-DOT, Route 19 Site  
Summit Township, Erie Co., Pa.

DATE: October 30, 1990

BACKGROUND

On May 8, 1990, OSC Dave Wright and TAT performed a windshield assessment of the Penn-DOT, Route 19 Site. The site is used for the storage of highway maintenance equipment and supplies. The windshield investigation showed deficiencies in drum storage and spillage of asphalt and oil emulsions and that access to the site is not restricted. It was determined that a preliminary assessment was needed to delineate areas of contamination onsite and offsite.

ASSESSMENT ACTIVITIES

OSC Dave Wright, OSC Jamie Fenske, and TAT arrived on site at 0900 hours, September 19, 1990, and performed a site inspection to determine the sampling locations. TAT members Barney and Piccolo were then instructed to obtain a residential water sample from the Hinkler Residence at 1761 West Townhall Road, Erie, PA, and a sample of the well water supply for the Penn-DOT Site. OSC Wright, OSC Fenske, and TAT obtained the following samples (see attached site sketch for sampling locations):

Station Number	Time Sampled	Analytical Performed
W01	1105 hours	Cyanide/VOA
W02	1125 hours	Cyanide/VOA
S01	1050 hours	Metals/VOA
S02	1100 hours	Metals/VOA

Roy F. Weston, Inc.  
MAJOR PROGRAMS DIVISION

In Association with Foster Wheeler Enviresponse, Inc., Resource Applications, Inc., C.C. Johnson Malhotra, P.C., and R.E. Sarriera Associates

AR100003

Station Number	Time Sampled	Analytical Performed
S03	1120 hours	Metals/VOA
S04	1145 hours	Metals/VOA
S05	1155 hours	Metals/VOA/BNA
S06	1150 hours	Metals/BNA
S07	1210 hours	Metals
S08	1215 hours	Metals
S09	1225 hours	Metals
S10	1230 hours	Metals

TAT arranged for analysis of the 2 liquid samples and the 10 soil samples. The samples were sent to SSM Laboratories in Reading, PA, September 20, 1990, with a three-week turnaround requested for the analytical results.

#### ANALYTICAL DATA

On October 15, 1990, TAT received the analytical data (included in this report) from the samples taken during the September 19, 1990, assessment. The data indicated 722 parts per million (ppm) of lead contamination at station S05, 123 ppm of lead at station S09, and 6 parts per billion (ppb) of methylene chloride in the well located onsite.

#### TOXICOLOGY

The following toxicological information was obtained from the According to NIOSH "Pocket Guide to Chemical Hazards" and the NIOSH "Registry of Toxic Effects of Chemical Substances".

Lead is classified as a priority toxic pollutant by EPA standards and poses a threat to human health through inhalation of dust-sized particles and ingestion. Lead may cause lassitude, insomnia, pallor, anosmia, weight loss, malnutrition, abdominal pain, colic, hypotension, anemia, tremors, and painful joints. The Toxic Dose Low (TDLo) for woman is 450 mg/kg, the quantity in the soil exceeds this level by 272 ppm. The EPA guidelines for lead levels in soils is 500 ppm. Lead is especially toxic to children.

Methylene chloride is also classified as a priority toxic pollutant by EPA standards and poses a threat to human health through inhalation, ingestion, and contact. Methylene chloride may cause fatigue, weakness, light headedness, numbness in the limbs, nausea, eye and skin irritation and vertigo. The compound is a carcinogen. The Maximum Contaminant Level (MCL) for methylene chloride under the Safe Drinking Water Act is 5 ppb.

AR100004

**RECOMMENDATION**

Since residents and workers are possibly exposed to levels of lead and methylene chloride, it is recommended by TAT that an information package be developed for ATSDR review. ORIGINAL

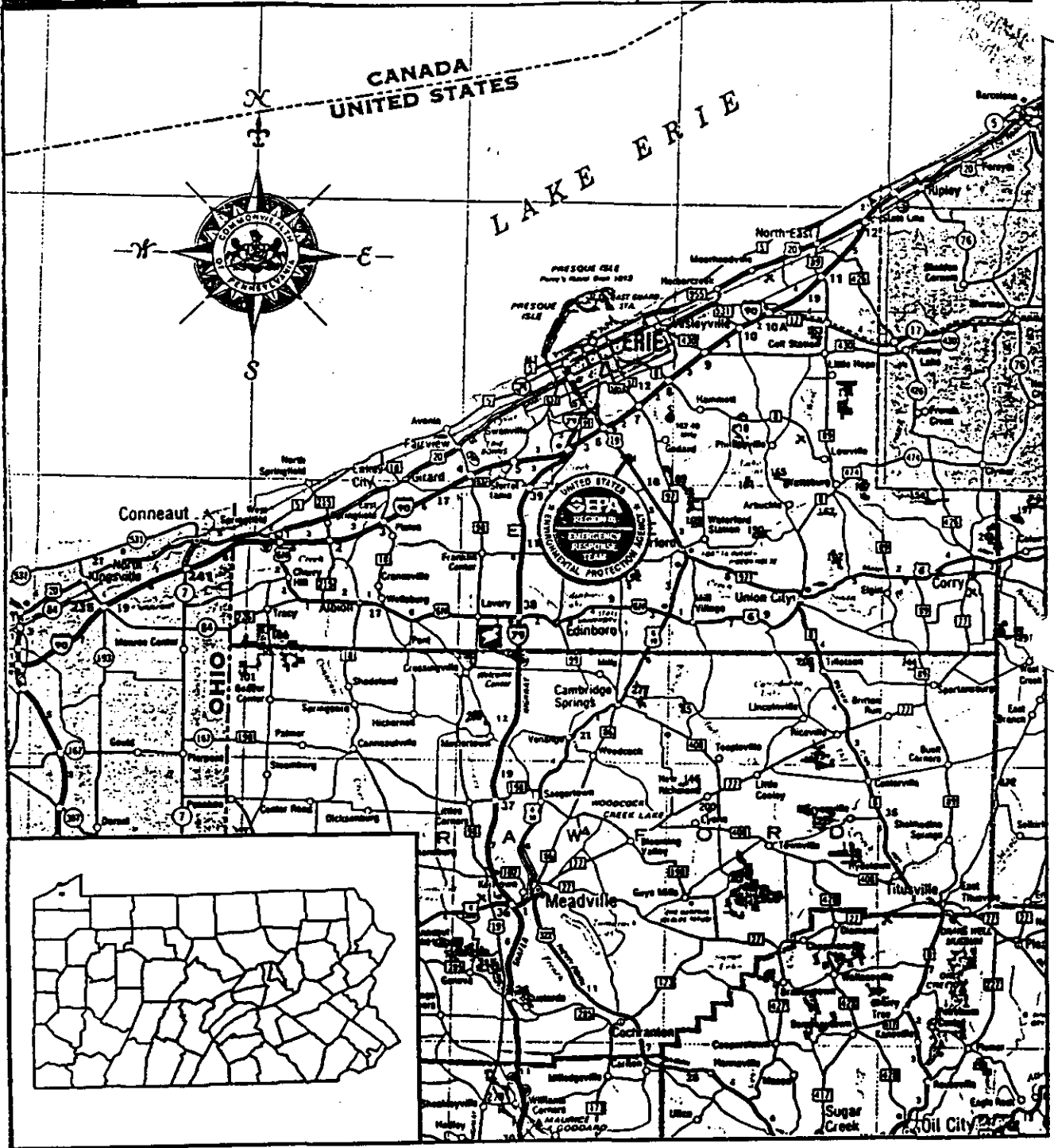
**ATTACHMENTS:** Photographs  
Site Sketches and Maps  
Safety Plan  
Analytical Results

AR100005



# WESTON • MPD

TDD Number: 9010-53  
PCS Number: 1053



**SITE LOCATION MAP**  
**Penn DOT, Route 19 Site**  
**Summit Township Erie County, PA**

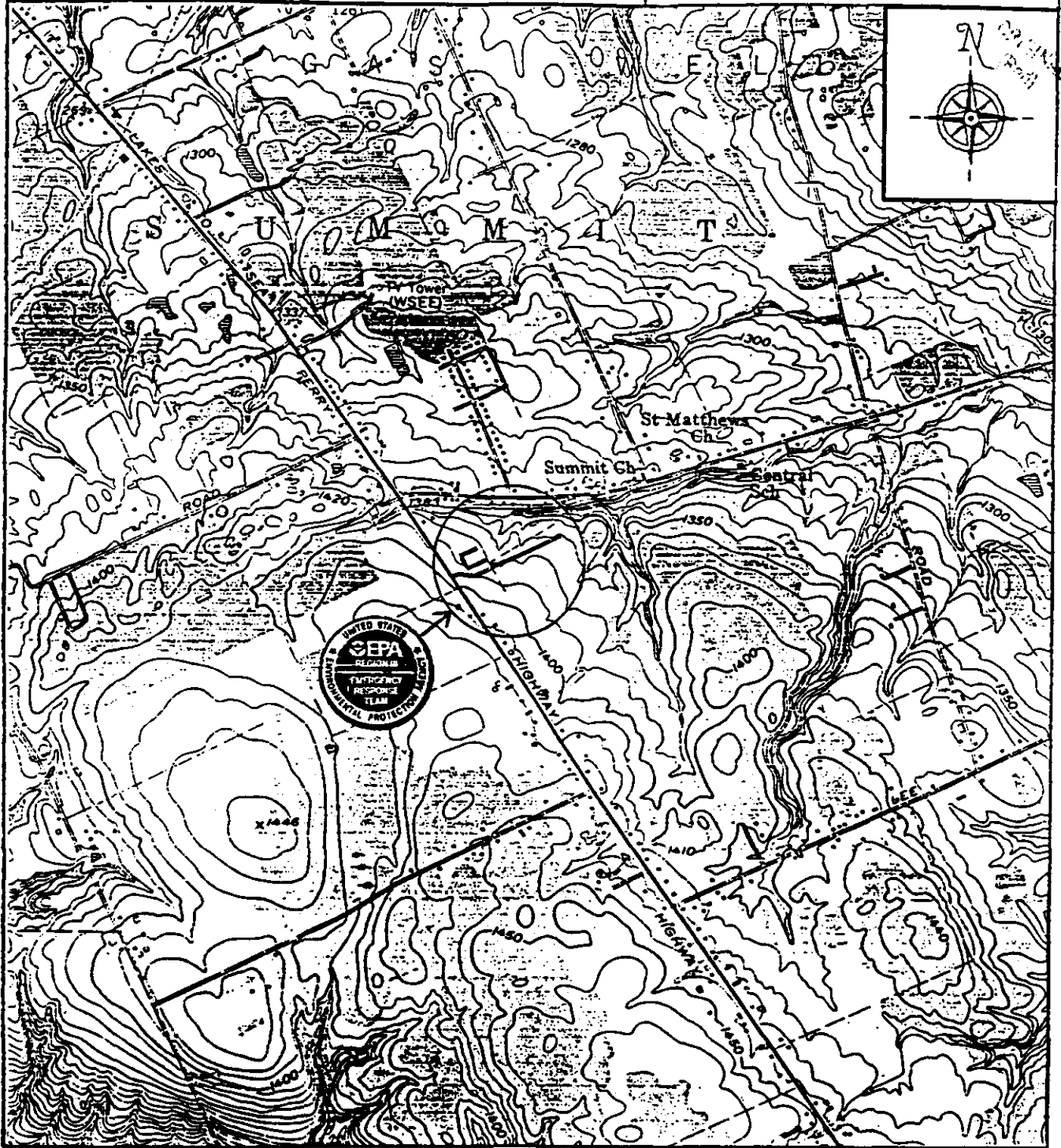
AR100006



# WESTON · MPD

TDD Number: 9010-53

PCS Number: 1053

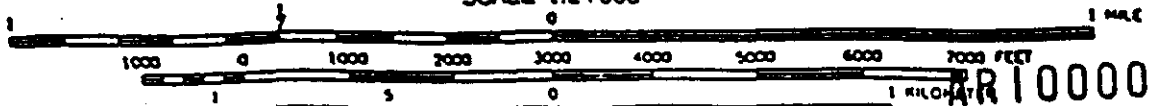


## SITE LOCATION MAP

(South Erie Quadrangle)

**Penn DOT Route 19 Site**  
**Summit Township, Erie County, PA**

SCALE 1:24 000

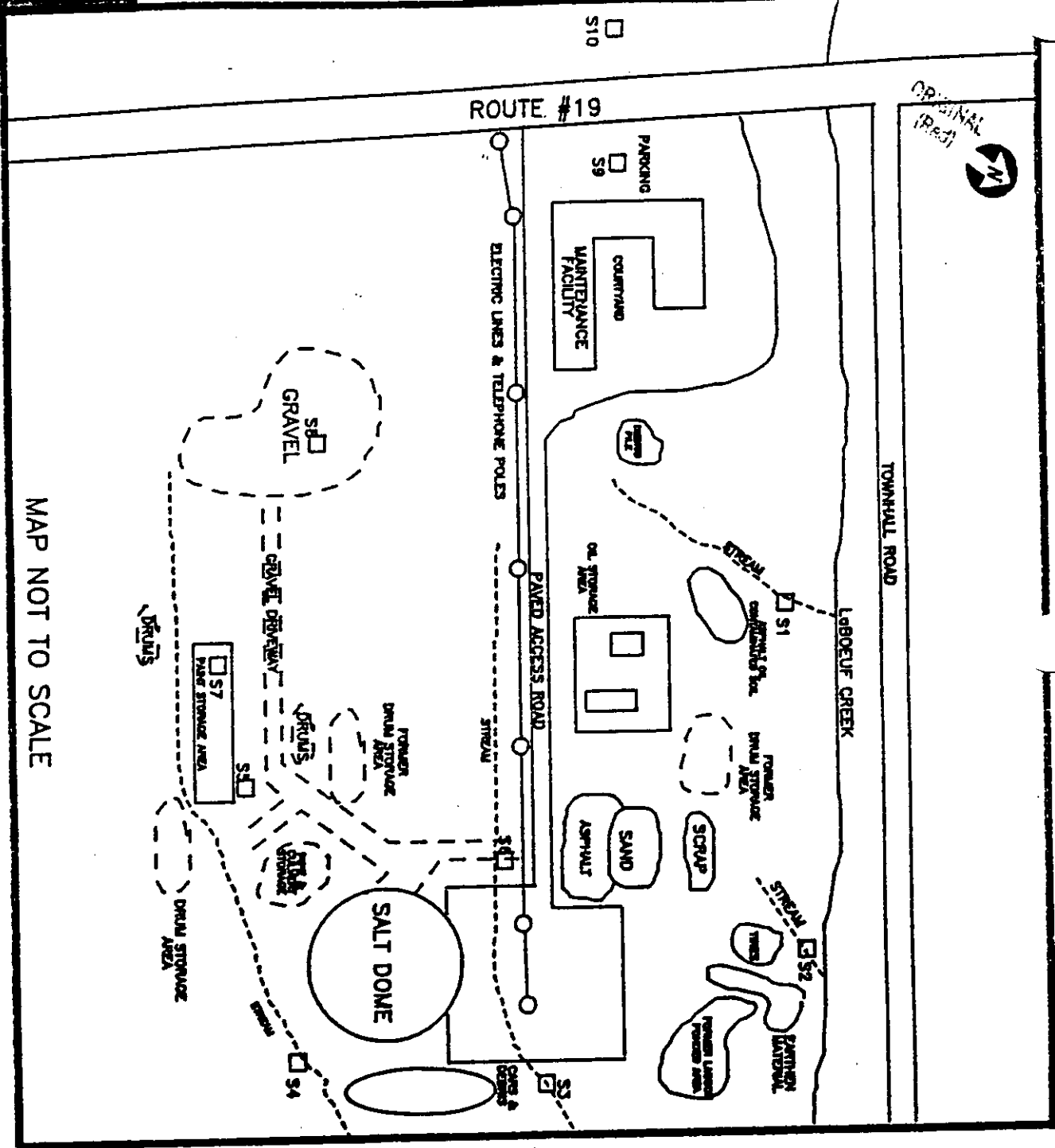


AR100007



# WESTON·MPD

TDD Number: 9010-53  
PCS Number: 1053



MAP NOT TO SCALE

**SITE LOCATION MAP**  
**Penn DOT, Route 19 Site**  
**Summit Township, Erie County, PA**

AR100008



ORIGINAL  
(Red)

61 6 06

SITS: PENNDOT ROUTE 319 SITE  
DATE: SEPTEMBER 19, 1990  
PCS: 1053 TDD:9010-53  
REMARK: PHOTO SHOWS COLLECTION OF SAMPLE S5.  
REMARK:  
REMARK:

AR100009

ORIGINAL  
(Red)



SITE: PENNDOT ROUTE #19 SITE  
DATE: SEPTEMBER 19, 1990  
PCS: 1053 TDD:9010-53  
REMARK: PHOTO SHOWS TAT PICCOLO COLLECTING SAM-  
REMARK: PLS S9.  
REMARK:

AR100010

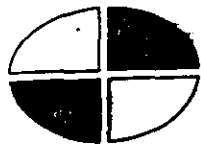




ORIGINAL  
(Red)

SITE: PENNDOT ROUTE #19 SITE  
DATE: SEPTEMBER 19, 1990  
PCS: 1053 TDD:9010-53  
REMARK: DRAINAGE WATER WELL FOR PENNDOT SITE.  
REMARK:  
REMARK:

AR100011



**SSM/Laboratories**

**ANALYTICAL DATA QUALITY PACKAGE**

**FOR**

**ROY F. WESTON, INC.**

ORIGINAL  
(Part)

**PENN DOT ROUTE 19 SITE**

**PROJECT NUMBER 9009-27**

**PURCHASE ORDER NUMBER 16-1322**

**PREPARED BY SSM/LABORATORIES**

**OCTOBER, 1990**

**MARIAN MURPHY**

**AR100012**

## Table of Contents

Cover Page .....	i
Table of Contents .....	ii
Analytical Data Package .....	1
Chain Of Custody Document .....	2
Laboratory Chronicle .....	3
Methodology Summary .....	4
Certificates of Analysis .....	5
<b>General Chemistry/Metals Quality Control Data</b>	
Method Detection Limits .....	28
Method Blank Results .....	29
Matrix Spike Results .....	30
Duplicate Analysis Results .....	31
<b>Base Neutral and Acid Extractables by GC/MS</b>	
Method Detection Limits .....	32
Method Blank Results .....	34
Surrogate Recovery .....	36
MS/MSD Recovery .....	37
Method Blank Summary .....	38
GC/MS Tuning Summary .....	39
Initial Calibration Report .....	40
Continuing Calibration Check Std. Report .....	43
Internal Standard Area Summary .....	46
<b>Purgeables by GC/MS</b>	
Method Detection Limits .....	48
Method Blank Results .....	49
Surrogate Recovery .....	51
MS/MSD Recovery .....	53
Method Blank Summary .....	54
GC/MS Tuning Summary .....	56
Initial Calibration Report .....	58
Continuing Calibration Check Std. Report .....	62
Internal Standard Area Summary .....	64

ORIGINAL  
(2007)

# ANALYTICAL DATA PACKAGE

Original  
1993

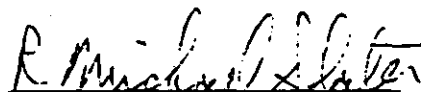
Client: Weston

Project Name: Penn DOT Route 19 Site

Client Designation

SSM Designation

S-1	1001787
S-2	1001788
S-3	1001789
S-4	1001790
S-5	1001791
S-6	1001792
S-7	1001793
S-8	1001794
S-9	1001795
S-10	1001796
W-1	1001797
W-2	1001798



R. Michael Slater  
QA Manager

AR100014

000 1

CHAIN OF CUSTODY RECORD

PROJ. NO. 9909-27 PROJECT NAME Penn-007 ORIGINAL ROUTE 19 SITE

SAMPLERS: (Signature) *John H. Fisher*  
*W. Lee & Barry, Roadhouse*

STA. NO. DATE TIME COMP GRAB STATION LOCATION

NO. OF CON-TAINERS	METALS	METALS / BNA	VOL'S	CYANIDE	REMARKS
3	1	2			8 oz LOT # E9249123
3	1	2			40 mL LOT # B0044010
3	1	2			
3	1	2			
3	1	2			
3	1	2			
1	1	1			
1	1	1			
1	1	1			
1	1	1			
4	3	1			

S1	9/19/90	1050	V		SITE BRAINAGET												
S2	9/19/90	1100	V		SITE DRAINAGE												
S3	9/19/90	1120	V		SITE DRAINAGE												
S4	9/19/90	1145	V		SITE DRAINAGE												
S5	9/18/90	1155	V		PAINT STORAGE												
S6	9/18/90	1150	V		PALLET DOME												
S7	9/19/90	1210	V		PAINT STORAGE												
S8	9/19/90	1215	V		GRAVEL AREA												
S9	9/19/90	1235	V		FRONT LAWN												
S10	9/19/90	1230	V		FIELD												
W1	9/19/90	1105	V		HINKLER WELL												
W2	9/19/90	1125	V		PONDOT WELL												

Relinquished by: (Signature) *John H. Fisher* Date / Time 9/20/90 1630 Received by: (Signature) \_\_\_\_\_ Date / Time \_\_\_\_\_ Relinquished by: (Signature) \_\_\_\_\_ Date / Time \_\_\_\_\_ Received by: (Signature) \_\_\_\_\_

Relinquished by: (Signature) \_\_\_\_\_ Date / Time \_\_\_\_\_ Received by: (Signature) \_\_\_\_\_ Date / Time \_\_\_\_\_ Relinquished by: (Signature) \_\_\_\_\_ Date / Time \_\_\_\_\_ Received by: (Signature) \_\_\_\_\_

Relinquished by: (Signature) *FEDER P* Date / Time 9-21-90 0945 Received by: (Signature) *John H. Fisher* Date / Time \_\_\_\_\_ Relinquished by: (Signature) \_\_\_\_\_ Date / Time \_\_\_\_\_ Received by: (Signature) \_\_\_\_\_

Relinquished by: (Signature) \_\_\_\_\_ Date / Time \_\_\_\_\_ Received by: (Signature) \_\_\_\_\_ Date / Time \_\_\_\_\_ Relinquished by: (Signature) \_\_\_\_\_ Date / Time \_\_\_\_\_ Received by: (Signature) \_\_\_\_\_

Remarks

Distribution: Original Accompanes Shipment: C to Coordinator Field F...

433


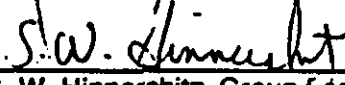
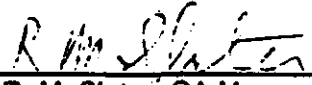
AR100015

# LABORATORY CHRONICLE

SSM SAMPLE DESIGNATION: 100433

ORIGINAL  
(Red)

ANALYTE	SAMPLE PREPARATION		SAMPLE ANALYSIS	
	ANALYST	DATE	ANALYST	DATE
Antimony	R. J. Spare	09/22/90	R. J. Spare	09/25/90
Beryllium	R. J. Spare	09/22/90	R. J. Spare	09/25/90
Cadmium	R. J. Spare	09/22/90	R. J. Spare	09/25/90
Chromium	R. J. Spare	09/22/90	R. J. Spare	09/25/90
Copper	R. J. Spare	09/22/90	R. J. Spare	09/25/90
Lead	R. J. Spare	09/22/90	R. J. Spare	09/25/90
Nickel	R. J. Spare	09/22/90	R. J. Spare	09/25/90
Silver	R. J. Spare	09/22/90	R. J. Spare	09/25/90
Thallium	R. J. Spare	09/22/90	R. J. Spare	09/25/90
Zinc	R. J. Spare	09/22/90	R. J. Spare	09/25/90
Arsenic	R. J. Spare	09/22/90	J. M. Goncher	10/01/90
Selenium	R. J. Spare	09/22/90	J. M. Goncher	10/01/90
Mercury	J. L. Paris	09/25/90	J. L. Paris	09/25/90
Volatiles	R. K. Lakin	09/27-29/90	R. K. Lakin	09/27-29/90
Semivolatiles	K. Mann	09/27/90	S. W. Hinershitz	10/10/90

<b>REVIEW AND APPROVAL:</b>	<b>SIGNATURE</b>	<b>DATE</b>
INORGANICS	 <hr/> R. J. Spare, Group Leader	10/12/90 <hr/>
ORGANICS	 <hr/> S. W. Hinershitz, Group Leader	10/12/90 <hr/>
QUALITY ASSURANCE	 <hr/> R. M. Slater, QA Manager	10-12-90 <hr/>





## ANALYTICAL REPORT

CLIENT: Marian Murphy  
Weston  
2890 Woodbridge Avenue  
Bldg. 209 Annex  
Edison NJ 08837-3679

SAMPLE: 1001787  
PROJECT: 100433  
PO NO:  
REPORTED: 11-OCT-90  
RECEIVED: 21-SEP-90  
WORK ORDER:

PROJECT DESCRIPTION: Penn-Dot Route 19 Site  
Project 9009-27

CLIENT IDENTIFICATION: S-1

SAMPLE DESCRIPTION: Site Drainage

SAMPLING DATE: 19-SEP-90 TIME: 10:50 BY: Chuck Fisher

	UNITS	RESULT
PRIORITY POLLUTANT METALS - SOLIDS		
Antimony	mg/kg	< 20.
Arsenic	mg/kg	13.5
Beryllium	mg/kg	< 1.2
Cadmium	mg/kg	< 1.2
Chromium	mg/kg	9.99
Copper	mg/kg	18.4
Lead	mg/kg	13.
Mercury	mg/kg	< 0.10
Nickel	mg/kg	18.3
Selenium	mg/kg	< 0.08
Silver	mg/kg	< 2.4
Thallium	mg/kg	< 20.
Zinc	mg/kg	56.4
Purgeable Hydrocarbons		
Acrolein	ug/kg	< 80.
Acrylonitrile	ug/kg	< 80.
Benzene	ug/kg	< 5.
Bromomethane	ug/kg	< 10.
Bromodichloromethane	ug/kg	< 5.
Bromoform	ug/kg	< 5.
Carbon tetrachloride	ug/kg	< 5.
Chlorobenzene	ug/kg	< 5.
Chloroethane	ug/kg	< 10.
2-Chloroethylvinyl ether	ug/kg	< 10.

AR100018





CLIENT: Weston  
SAMPLE: 1001787 S-1  
PROJECT: 100433

Page 2  
11-OCT-90

Chloroform	ug/kg	< 5.
Chloromethane	ug/kg	< 10.
Dibromochloromethane	ug/kg	< 5.
1,2-Dichlorobenzene	ug/kg	< 5.
1,3-Dichlorobenzene	ug/kg	< 5.
1,4-Dichlorobenzene	ug/kg	< 5.
1,1-Dichloroethane	ug/kg	< 5.
1,2-Dichloroethane	ug/kg	< 5.
1,1-Dichloroethene	ug/kg	< 5.
Trans-1,2-dichloroethene	ug/kg	< 5.
1,2-Dichloropropane	ug/kg	< 5.
cis-1,3-Dichloropropene	ug/kg	< 5.
trans-1,3-Dichloropropene	ug/kg	< 5.
Ethylbenzene	ug/kg	< 5.
Methylene chloride	ug/kg	< 5.
1,1,2,2-Tetrachloroethane	ug/kg	< 5.
Tetrachloroethene	ug/kg	< 5.
1,1,1-Trichloroethane	ug/kg	< 5.
1,1,2-Trichloroethane	ug/kg	< 5.
Trichloroethene	ug/kg	< 5.
Trichlorofluoromethane	ug/kg	< 5.
Toluene	ug/kg	< 5.
Vinyl chloride	ug/kg	< 10.

Respectfully submitted,

*Scott W. Hinnershitz*  
Scott W. Hinnershitz  
Group Leader, Organics

AR100019



## ANALYTICAL REPORT

CLIENT: Marian Murphy  
Weston  
2890 Woodbridge Avenue  
Bldg. 209 Annex  
Edison NJ 08837-3679

SAMPLE: 1001788  
PROJECT: 100433  
PO NO:  
REPORTED: 11-OCT-90  
RECEIVED: 21-SEP-90  
WORK ORDER:

PROJECT DESCRIPTION: Penn-Dot Route 19 Site  
Project 9009-27

CLIENT IDENTIFICATION: S-2

SAMPLE DESCRIPTION: Site Drainage

SAMPLING DATE: 19-SEP-90 TIME: 11:00 BY: Chuck Fisher

	UNITS	RESULT
<b>PRIORITY POLLUTANT METALS - SOLIDS</b>		
Antimony	mg/kg	< 20.
Arsenic	mg/kg	3.97
Beryllium	mg/kg	< 1.2
Cadmium	mg/kg	< 1.2
Chromium	mg/kg	6.46
Copper	mg/kg	21.7
Lead	mg/kg	< 8.
Mercury	mg/kg	< 0.10
Nickel	mg/kg	14.9
Selenium	mg/kg	< 0.08
Silver	mg/kg	< 2.4
Thallium	mg/kg	< 20.
Zinc	mg/kg	86.
<b>Purgeable Hydrocarbons</b>		
Acrolein	ug/kg	< 80.
Acrylonitrile	ug/kg	< 80.
Benzene	ug/kg	< 5.
Bromomethane	ug/kg	< 10.
Bromodichloromethane	ug/kg	< 5.
Bromoform	ug/kg	< 5.
Carbon tetrachloride	ug/kg	< 5.
Chlorobenzene	ug/kg	< 5.
Chloroethane	ug/kg	< 10.

AR100020



CLIENT: Weston  
SAMPLE: 1001788 S-2  
PROJECT: 100433

Page 2  
11-OCT-90

2-Chloroethylvinyl ether	ug/kg	< 10.
Chloroform	ug/kg	< 5.
Chloromethane	ug/kg	< 10.
Dibromochloromethane	ug/kg	< 5.
1,2-Dichlorobenzene	ug/kg	< 5.
1,3-Dichlorobenzene	ug/kg	< 5.
1,4-Dichlorobenzene	ug/kg	< 5.
1,1-Dichloroethane	ug/kg	< 5.
1,2-Dichloroethane	ug/kg	< 5.
1,1-Dichloroethene	ug/kg	< 5.
Trans-1,2-dichloroethene	ug/kg	< 5.
1,2-Dichloropropane	ug/kg	< 5.
cis-1,3-Dichloropropene	ug/kg	< 5.
trans-1,3-Dichloropropene	ug/kg	< 5.
Ethylbenzene	ug/kg	< 5.
Methylene chloride	ug/kg	< 5.
1,1,2,2-Tetrachloroethane	ug/kg	< 5.
Tetrachloroethene	ug/kg	< 5.
1,1,1-Trichloroethane	ug/kg	< 5.
1,1,2-Trichloroethane	ug/kg	< 5.
Trichloroethene	ug/kg	< 5.
Trichlorofluoromethane	ug/kg	< 5.
Toluene	ug/kg	< 5.
Vinyl chloride	ug/kg	< 10.

Respectfully submitted,

*Scott W. Hinnerst*  
Scott W. Hinnerst,  
Group Leader, Organics

AR100021



## ANALYTICAL REPORT

CLIENT: Marian Murphy  
Weston  
2890 Woodbridge Avenue  
Bldg. 209 Annex  
Edison NJ 08837-3679

SAMPLE: 1001789  
PROJECT: 100433  
PO NO:  
REPORTED: 11-OCT-90  
RECEIVED: 21-SEP-90  
WORK ORDER:

PROJECT DESCRIPTION: Penn-Dot Route 19 Site  
Project 9009-27

CLIENT IDENTIFICATION: S-3

SAMPLE DESCRIPTION: Site Drainage

SAMPLING DATE: 19-SEP-90 TIME: 11:20 BY: Chuck Fisher

	UNITS	RESULT
<b>PRIORITY POLLUTANT METALS - SOLIDS</b>		
Antimony	mg/kg	< 20.
Arsenic	mg/kg	5.17
Beryllium	mg/kg	< 1.2
Cadmium	mg/kg	< 1.2
Chromium	mg/kg	11.1
Copper	mg/kg	18.7
Lead	mg/kg	11.
Mercury	mg/kg	< 0.10
Nickel	mg/kg	17.4
Selenium	mg/kg	0.20
Silver	mg/kg	< 2.4
Thallium	mg/kg	< 20.
Zinc	mg/kg	72.7
<b>Purgeable Hydrocarbons</b>		
Acrolein	ug/kg	< 80.
Acrylonitrile	ug/kg	< 80.
Benzene	ug/kg	< 5.
Bromomethane	ug/kg	< 10.
Bromodichloromethane	ug/kg	< 5.
Bromoform	ug/kg	< 5.
Carbon tetrachloride	ug/kg	< 5.
Chlorobenzene	ug/kg	< 5.
Chloroethane	ug/kg	< 10.

AR100022



CLIENT: Weston  
SAMPLE: 1001789 S-3  
PROJECT: 100433

Page 2  
11-OCT-90

2-Chloroethylvinyl ether	ug/kg	< 10.
Chloroform	ug/kg	< 5.
Chloromethane	ug/kg	< 10.
Dibromochloromethane	ug/kg	< 5.
1,2-Dichlorobenzene	ug/kg	< 5.
1,3-Dichlorobenzene	ug/kg	< 5.
1,4-Dichlorobenzene	ug/kg	< 5.
1,1-Dichloroethane	ug/kg	< 5.
1,2-Dichloroethane	ug/kg	< 5.
1,1-Dichloroethene	ug/kg	< 5.
Trans-1,2-dichloroethene	ug/kg	< 5.
1,2-Dichloropropane	ug/kg	< 5.
cis-1,3-Dichloropropene	ug/kg	< 5.
trans-1,3-Dichloropropene	ug/kg	< 5.
Ethylbenzene	ug/kg	< 5.
Methylene chloride	ug/kg	< 5.
1,1,2,2-Tetrachloroethane	ug/kg	< 5.
Tetrachloroethene	ug/kg	< 5.
1,1,1-Trichloroethane	ug/kg	< 5.
1,1,2-Trichloroethane	ug/kg	< 5.
Trichloroethene	ug/kg	< 5.
Trichlorofluoromethane	ug/kg	< 5.
Toluene	ug/kg	< 5.
Vinyl chloride	ug/kg	< 10.

Respectfully submitted,

*Scott W. Hinnershitz*  
Scott W. Hinnershitz,  
Group Leader, Organics

AR100023



## ANALYTICAL REPORT

CLIENT: Marian Murphy  
Weston  
2890 Woodbridge Avenue  
Bldg. 209 Annex  
Edison NJ 08837-3679

SAMPLE: 1001790  
PROJECT: 100433  
PO NO:  
REPORTED: 11-OCT-90  
RECEIVED: 21-SEP-90  
WORK ORDER:

PROJECT DESCRIPTION: Penn-Dot Route 19 Site  
Project 9009-27

CLIENT IDENTIFICATION: S-4

SAMPLE DESCRIPTION: Site Drainage

SAMPLING DATE: 19-SEP-90 TIME: 11:45 BY: Chuck Fisher

	UNITS	RESULT
PRIORITY POLLUTANT METALS - SOLIDS		
Antimony	mg/kg	< 20.
Arsenic	mg/kg	4.54
Beryllium	mg/kg	< 1.2
Cadmium	mg/kg	< 1.2
Chromium	mg/kg	7.41
Copper	mg/kg	33.8
Lead	mg/kg	15.5
Mercury	mg/kg	< 0.10
Nickel	mg/kg	19.9
Selenium	mg/kg	< 0.08
Silver	mg/kg	< 2.4
Thallium	mg/kg	< 20.
Zinc	mg/kg	122.
Purgeable Hydrocarbons		
Acrolein	ug/kg	< 80.
Acrylonitrile	ug/kg	< 80.
Benzene	ug/kg	< 5.
Bromomethane	ug/kg	< 10.
Bromodichloromethane	ug/kg	< 5.
Bromoform	ug/kg	< 5.
Carbon tetrachloride	ug/kg	< 5.
Chlorobenzene	ug/kg	< 5.
Chloroethane	ug/kg	< 10.

AR100024

CLIENT: Weston  
SAMPLE: 1001790 S-4  
PROJECT: 100433

Page 1  
11-OCT-90

2-Chloroethylvinyl ether	ug/kg	< 10.
Chloroform	ug/kg	< 5.
Chloromethane	ug/kg	< 10.
Dibromochloromethane	ug/kg	< 5.
1,2-Dichlorobenzene	ug/kg	< 5.
1,3-Dichlorobenzene	ug/kg	< 5.
1,4-Dichlorobenzene	ug/kg	< 5.
1,1-Dichloroethane	ug/kg	< 5.
1,2-Dichloroethane	ug/kg	< 5.
1,1-Dichloroethene	ug/kg	< 5.
Trans-1,2-dichloroethene	ug/kg	< 5.
1,2-Dichloropropane	ug/kg	< 5.
cis-1,3-Dichloropropene	ug/kg	< 5.
trans-1,3-Dichloropropene	ug/kg	< 5.
Ethylbenzene	ug/kg	< 5.
Methylene chloride	ug/kg	< 5.
1,1,2,2-Tetrachloroethane	ug/kg	< 5.
Tetrachloroethene	ug/kg	< 5.
1,1,1-Trichloroethane	ug/kg	< 5.
1,1,2-Trichloroethane	ug/kg	< 5.
Trichloroethene	ug/kg	< 5.
Trichlorofluoromethane	ug/kg	< 5.
Toluene	ug/kg	< 5.
Vinyl chloride	ug/kg	< 10.

Respectfully submitted,

*Scott W. Hinnershitz*  
Scott W. Hinnershitz,  
Group Leader, Organics

AR100025



## ANALYTICAL REPORT

CLIENT: Marian Murphy  
Weston  
2890 Woodbridge Avenue  
Bldg. 209 Annex  
Edison NJ 08837-3679

SAMPLE: 1001791  
PROJECT: 100433  
PO NO:  
REPORTED: 11-OCT-90  
RECEIVED: 21-SEP-90  
WORK ORDER:

PROJECT DESCRIPTION: Penn-Dot Route 19 Site  
Project 9009-27

CLIENT IDENTIFICATION: S-5

SAMPLE DESCRIPTION: Paint Storage

SAMPLING DATE: 19-SEP-90 TIME: 11:55 BY: Chuck Fisher

	UNITS	RESULT
BN/A Extraction of Solid Samples		
Moisture	%	13.0
PRIORITY POLLUTANT METALS - SOLIDS		
Antimony	mg/kg	< 20.
Arsenic	mg/kg	2.75
Beryllium	mg/kg	17.2
Cadmium	mg/kg	< 1.2
Chromium	mg/kg	117.
Copper	mg/kg	1090.
Lead	mg/kg	722.
Mercury	mg/kg	< 0.10
Nickel	mg/kg	308.
Selenium	mg/kg	0.39
Silver	mg/kg	< 2.4
Thallium	mg/kg	< 20.
Zinc	mg/kg	6780.
Purgeable Hydrocarbons		
Acrolein	ug/Kg	< 80.
Acrylonitrile	ug/Kg	< 80.
Benzene	ug/Kg	< 5.
Bromomethane	ug/Kg	< 10.
Bromodichloromethane	ug/Kg	< 5.
Bromoform	ug/Kg	< 5.
Carbon tetrachloride	ug/Kg	< 5.

AR100026



CLIENT: Weston  
 SAMPLE: 1001791 S-5  
 PROJECT: 100433

Chlorobenzene	ug/Kg	< 5.
Chloroethane	ug/Kg	< 10.
2-Chloroethylvinyl ether	ug/Kg	< 10.
Chloroform	ug/Kg	< 5.
Chloromethane	ug/Kg	< 10.
Dibromochloromethane	ug/Kg	< 5.
1,2-Dichlorobenzene	ug/Kg	< 5.
1,3-Dichlorobenzene	ug/Kg	< 5.
1,4-Dichlorobenzene	ug/Kg	< 5.
1,1-Dichloroethane	ug/Kg	< 5.
1,2-Dichloroethane	ug/Kg	< 5.
1,1-Dichloroethene	ug/Kg	< 5.
Trans-1,2-dichloroethene	ug/Kg	< 5.
1,2-Dichloropropane	ug/Kg	< 5.
cis-1,3-Dichloropropene	ug/Kg	< 5.
trans-1,3-Dichloropropene	ug/Kg	< 5.
Ethylbenzene	ug/Kg	< 5.
Methylene chloride	ug/Kg	< 5.
1,1,2,2-Tetrachloroethane	ug/Kg	< 5.
Tetrachloroethene	ug/Kg	< 5.
1,1,1-Trichloroethane	ug/Kg	< 5.
1,1,2-Trichloroethane	ug/Kg	< 5.
Trichloroethene	ug/Kg	< 5.
Trichlorofluoromethane	ug/Kg	< 5.
Toluene	ug/Kg	< 5.
Vinyl chloride	ug/Kg	< 10.
HSL BN/A Extractables		
Acenaphthene	ug/Kg	< 330.
Acenaphthylene	ug/Kg	< 330.
Anthracene	ug/Kg	< 330.
Benzo[a]anthracene	ug/Kg	< 330.
Benzo[b]fluoranthene	ug/Kg	< 330.
Benzo[k]fluoranthene	ug/Kg	< 330.
Benzo[a]pyrene	ug/Kg	< 330.
Benzo[g,h,i]perylene	ug/Kg	< 330.
Benzoic acid	ug/Kg	< 1650.
Benzyl alcohol	ug/Kg	< 330.
Benzyl butyl phthalate	ug/Kg	< 330.
Bis(2-chloroethyl)ether	ug/Kg	< 330.
Bis(2-chloroethoxy)methane	ug/Kg	< 330.
Bis(2-ethylhexyl)phthalate	ug/Kg	< 330.
Bis(2-chloroisopropyl)ether	ug/Kg	< 330.
4-Bromophenyl phenyl ether	ug/Kg	< 330.
4-Chloroaniline	ug/Kg	< 330.
2-Chloronaphthalene	ug/Kg	< 330.

AR100027

CLIENT: Weston  
 SAMPLE: 1001791 S-5  
 PROJECT: 100433

Page 3  
 11-OCT-90

4-Chlorophenyl phenyl ether	ug/Kg	< 330.
Chrysene	ug/Kg	< 330.
Dibenzo[a,h]anthracene	ug/Kg	< 330.
Dibenzofuran	ug/Kg	< 330.
Di-n-butylphthalate	ug/Kg	< 330.
1,3-Dichlorobenzene	ug/Kg	< 330.
1,2-Dichlorobenzene	ug/Kg	< 330.
1,4-Dichlorobenzene	ug/Kg	< 330.
3,3'-Dichlorobenzidine	ug/Kg	< 660.
Diethyl phthalate	ug/Kg	< 330.
Dimethyl phthalate	ug/Kg	< 330.
2,4-Dinitrotoluene	ug/Kg	< 330.
2,6-Dinitrotoluene	ug/Kg	< 330.
Di-n-octylphthalate	ug/Kg	< 330.
Fluoranthene	ug/Kg	< 330.
Fluorene	ug/Kg	< 330.
Hexachlorobenzene	ug/Kg	< 330.
Hexachlorobutadiene	ug/Kg	< 330.
Hexachlorocyclopentadiene	ug/Kg	< 330.
Hexachloroethane	ug/Kg	< 330.
Indeno[1,2,3-cd]pyrene	ug/Kg	< 330.
Isophorone	ug/Kg	< 330.
2-Methylnaphthalene	ug/Kg	< 330.
Naphthalene	ug/Kg	< 330.
2-Nitroaniline	ug/Kg	< 1650.
3-Nitroaniline	ug/Kg	< 1650.
4-Nitroaniline	ug/Kg	< 1650.
Nitrobenzene	ug/Kg	< 330.
n-Nitrosodi-n-propylamine	ug/Kg	< 330.
n-Nitrosodiphenylamine	ug/Kg	< 330.
Phenanthrene	ug/Kg	< 330.
Pyrene	ug/Kg	< 330.
1,2,4-Trichlorobenzene	ug/Kg	< 330.
4-Chloro-3-methylphenol	ug/Kg	< 330.
2-Chlorophenol	ug/Kg	< 330.
2,4-Dichlorophenol	ug/Kg	< 330.
2,4-Dimethylphenol	ug/Kg	< 330.
2,4-Dinitrophenol	ug/Kg	< 330.
2-Methyl-4,6-dinitrophenol	ug/Kg	< 1650.
2-Methylphenol	ug/Kg	< 330.
4-Methylphenol	ug/Kg	< 330.
2-Nitrophenol	ug/Kg	< 330.
4-Nitrophenol	ug/Kg	< 1650.
Pentachlorophenol	ug/Kg	< 1650.
Phenol	ug/Kg	< 330.

AR100028



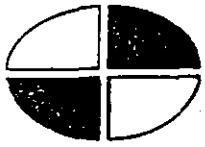
CLIENT: Weston  
SAMPLE: 1001791 S-5  
PROJECT: 100433

Page 4  
11-OCT-90

2,4,5-Trichlorophenol	ug/Kg	< 330.
2,4,6-Trichlorophenol	ug/Kg	< 330.

Respectfully submitted,  
*Scott W. Hinnershitz*  
Scott W. Hinnershitz,  
Group Leader, Organics

AR100029



## ANALYTICAL REPORT

ORIGINAL  
(1/21)

CLIENT: Marian Murphy  
Weston  
2890 Woodbridge Avenue  
Bldg. 209 Annex  
Edison NJ 08837-3679

SAMPLE: 1001792  
PROJECT: 100433  
PO NO:  
REPORTED: 11-OCT-90  
RECEIVED: 21-SEP-90  
WORK ORDER:

PROJECT DESCRIPTION: Penn-Dot Route 19 Site  
Project 9009-27

CLIENT IDENTIFICATION: S-6

SAMPLE DESCRIPTION: Salt Dome

SAMPLING DATE: 19-SEP-90 TIME: 11:50 BY: Chuck Fisher

	UNITS	RESULT
BN/A Extraction of Solid Samples		
Moisture	%	10.8
PRIORITY POLLUTANT METALS - SOLIDS		
Antimony	mg/kg	< 20.
Arsenic	mg/kg	4.69
Beryllium	mg/kg	< 1.2
Cadmium	mg/kg	< 1.2
Chromium	mg/kg	6.44
Copper	mg/kg	24.6
Lead	mg/kg	22.
Mercury	mg/kg	< 0.10
Nickel	mg/kg	16.1
Selenium	mg/kg	< 0.08
Silver	mg/kg	< 2.4
Thallium	mg/kg	< 20.
Zinc	mg/kg	76.9
HSL BN/A Extractables		
Acenaphthene	ug/Kg	< 330.
Acenaphthylene	ug/Kg	< 330.
Anthracene	ug/Kg	< 330.
Benzo[a]anthracene	ug/Kg	< 330.
Benzo[b]fluoranthene	ug/Kg	< 330.
Benzo[k]fluoranthene	ug/Kg	< 330.
Benzo[a]pyrene	ug/Kg	< 330.

AR100030

CLIENT: Weston  
 SAMPLE: 1001792 S-6  
 PROJECT: 100433

Page 2  
 11-OCT-90

Benzo(g,h,i]perylene	ug/Kg	< 330.
Benzoic acid	ug/Kg	< 1600.
Benzyl alcohol	ug/Kg	< 330.
Benzyl butyl phthalate	ug/Kg	< 330.
Bis(2-chloroethyl)ether	ug/Kg	< 330.
Bis(2-chloroethoxy)methane	ug/Kg	< 330.
Bis(2-ethylhexyl)phthalate	ug/Kg	< 330.
Bis(2-chloroisopropyl) ether	ug/Kg	< 330.
4-Bromophenyl phenyl ether	ug/Kg	< 330.
4-Chloroaniline	ug/Kg	< 330.
2-Chloronaphthalene	ug/Kg	< 330.
4-Chlorophenyl phenyl ether	ug/Kg	< 330.
Chrysene	ug/Kg	< 330.
Dibenzo[a,h]anthracene	ug/Kg	< 330.
Dibenzofuran	ug/Kg	< 330.
Di-n-butylphthalate	ug/Kg	< 330.
1,3-Dichlorobenzene	ug/Kg	< 330.
1,2-Dichlorobenzene	ug/Kg	< 330.
1,4-Dichlorobenzene	ug/Kg	< 330.
3,3'-Dichlorobenzidine	ug/Kg	< 660.
Diethyl phthalate	ug/Kg	< 330.
Dimethyl phthalate	ug/Kg	< 330.
2,4-Dinitrotoluene	ug/Kg	< 330.
2,6-Dinitrotoluene	ug/Kg	< 330.
Di-n-octylphthalate	ug/Kg	< 330.
Fluoranthene	ug/Kg	< 330.
Fluorene	ug/Kg	< 330.
Hexachlorobenzene	ug/Kg	< 330.
Hexachlorobutadiene	ug/Kg	< 330.
Hexachlorocyclopentadiene	ug/Kg	< 330.
Hexachloroethane	ug/Kg	< 330.
Indeno[1,2,3-cd]pyrene	ug/Kg	< 330.
Isophorone	ug/Kg	< 330.
2-Methylnaphthalene	ug/Kg	< 330.
Naphthalene	ug/Kg	< 330.
2-Nitroaniline	ug/Kg	< 1600.
3-Nitroaniline	ug/Kg	< 1600.
4-Nitroaniline	ug/Kg	< 1600.
Nitrobenzene	ug/Kg	< 330.
n-Nitrosodi-n-propylamine	ug/Kg	< 330.
n-Nitrosodiphenylamine	ug/Kg	< 330.
Phenanthrene	ug/Kg	< 330.
Pyrene	ug/Kg	< 330.
1,2,4-Trichlorobenzene	ug/Kg	< 330.
4-Chloro-3-methylphenol	ug/Kg	< 1600.

AR100031



ORIGINAL  
(Red)

CLIENT: Weston  
SAMPLE: 1001792 S-6  
PROJECT: 100433

Page 3  
11-OCT-90

2-Chlorophenol	ug/Kg	< 330.
2,4-Dichlorophenol	ug/Kg	< 330.
2,4-Dimethylphenol	ug/Kg	< 330.
2,4-Dinitrophenol	ug/Kg	< 330.
2-Methyl-4,6-dinitrophenol	ug/Kg	< 1600.
2-Methylphenol	ug/Kg	< 330.
4-Methylphenol	ug/Kg	< 330.
2-Nitrophenol	ug/Kg	< 330.
4-Nitrophenol	ug/Kg	< 1600.
Pentachlorophenol	ug/Kg	< 1600.
Phenol	ug/Kg	< 330.
2,4,5-Trichlorophenol	ug/Kg	< 330.
2,4,6-Trichlorophenol	ug/Kg	< 330.

Respectfully submitted,

*Scott W. Hinnerst*  
Scott W. Hinnerst,  
Group Leader, Organics

AR100032



ANALYTICAL REPORT

ORIGIN  
(Ref)

CLIENT: Marian Murphy  
Weston  
2890 Woodbridge Avenue  
Bldg. 209 Annex  
Edison NJ 08837-3679

SAMPLE: 1001793  
PROJECT: 100433  
PO NO:  
REPORTED: 11-OCT-90  
RECEIVED: 21-SEP-90  
WORK ORDER:

PROJECT DESCRIPTION: Penn-Dot Route 19 Site  
Project 9009-27

CLIENT IDENTIFICATION: S-7

SAMPLE DESCRIPTION: Paint Storage

SAMPLING DATE: 19-SEP-90 TIME: 12:10 BY: Chuck Fisher

	UNITS	RESULT
PRIORITY POLLUTANT METALS - SOLIDS		
Antimony	mg/kg	< 20.
Arsenic	mg/kg	4.07
Beryllium	mg/kg	< 1.2
Cadmium	mg/kg	< 1.2
Chromium	mg/kg	14.5
Copper	mg/kg	31.6
Lead	mg/kg	28.1
Mercury	mg/kg	< 0.10
Nickel	mg/kg	21.9
Selenium	mg/kg	< 0.08
Silver	mg/kg	< 2.4
Thallium	mg/kg	< 20.
Zinc	mg/kg	84.3

Respectfully submitted,  
*Scott W. Hinnershitz*  
Scott W. Hinnershitz,  
Group Leader, Organics

AR100033



ANALYTICAL REPORT

ORIGINAL  
(copy)

CLIENT: Marian Murphy  
Weston  
2890 Woodbridge Avenue  
Bldg. 209 Annex  
Edison NJ 08837-3679

SAMPLE: 1001794  
PROJECT: 100433  
PO NO:  
REPORTED: 11-OCT-90  
RECEIVED: 21-SEP-90  
WORK ORDER:

PROJECT DESCRIPTION: Penn-Dot Route 19 Site  
Project 9009-27

CLIENT IDENTIFICATION: S-8

SAMPLE DESCRIPTION: Gravel Area

SAMPLING DATE: 19-SEP-90 TIME: 12:15 BY: Chuck Fisher

	UNITS	RESULT
PRIORITY POLLUTANT METALS - SOLIDS		
Antimony	mg/kg	< 20.
Arsenic	mg/kg	3.48
Beryllium	mg/kg	< 1.2
Cadmium	mg/kg	< 1.2
Chromium	mg/kg	6.33
Copper	mg/kg	10.3
Lead	mg/kg	17.3
Mercury	mg/kg	< 0.10
Nickel	mg/kg	15.8
Selenium	mg/kg	< 0.08
Silver	mg/kg	< 2.4
Thallium	mg/kg	< 20.
Zinc	mg/kg	35.5

Respectfully submitted,

*Scott W. Hinnershitz*  
Scott W. Hinnershitz,  
Group Leader, Organics

AR100034





ANALYTICAL REPORT

ORIGINAL  
(Ref)

CLIENT: Marian Murphy  
Weston  
2890 Woodbridge Avenue  
Bldg. 209 Annex  
Edison NJ 08837-3679

SAMPLE: 1001795  
PROJECT: 100433  
PO NO:  
REPORTED: 11-OCT-90  
RECEIVED: 21-SEP-90  
WORK ORDER:

PROJECT DESCRIPTION: Penn-Dot Route 19 Site  
Project 9009-27

CLIENT IDENTIFICATION: S-9

SAMPLE DESCRIPTION: Front Lawn

SAMPLING DATE: 19-SEP-90 TIME: 12:25 BY: Chuck Fisher

	UNITS	RESULT
PRIORITY POLLUTANT METALS - SOLIDS		
Antimony	mg/kg	< 20.
Arsenic	mg/kg	18.7
Beryllium	mg/kg	< 1.2
Cadmium	mg/kg	4.44
Chromium	mg/kg	22.7
Copper	mg/kg	31.
Lead	mg/kg	123.
Mercury	mg/kg	0.535
Nickel	mg/kg	18.3
Selenium	mg/kg	< 0.08
Silver	mg/kg	< 2.4
Thallium	mg/kg	< 20.
Zinc	mg/kg	150.

Respectfully submitted,

*Scott W. Hinnershitz*  
Scott W. Hinnershitz  
Group Leader, Organics

AR100035



ANALYTICAL REPORT

10/21/90  
10:00

CLIENT: Marian Murphy  
Weston  
2890 Woodbridge Avenue  
Bldg. 209 Annex  
Edison NJ 08837-3679

SAMPLE: 1001796  
PROJECT: 100433  
PO NO:  
REPORTED: 11-OCT-90  
RECEIVED: 21-SEP-90  
WORK ORDER:

PROJECT DESCRIPTION: Penn-Dot Route 19 Site  
Project 9009-27

CLIENT IDENTIFICATION: S-10

SAMPLE DESCRIPTION: Field

SAMPLING DATE: 19-SEP-90 TIME: 12:30 BY: Chuck Fisher

	UNITS	RESULT
PRIORITY POLLUTANT METALS - SOLIDS		
Antimony	mg/kg	< 20.
Arsenic	mg/kg	3.39
Beryllium	mg/kg	< 1.2
Cadmium	mg/kg	< 1.2
Chromium	mg/kg	8.2
Copper	mg/kg	5.92
Lead	mg/kg	< 8.
Mercury	mg/kg	< 0.10
Nickel	mg/kg	12.3
Selenium	mg/kg	< 0.08
Silver	mg/kg	< 2.4
Thallium	mg/kg	< 20.
Zinc	mg/kg	69.7

Respectfully submitted,

Scott W. Hinnerstiz,  
Group Leader, Organics

AR100036



# ANALYTICAL REPORT

321144  
180

CLIENT: Marian Murphy  
Weston  
2890 Woodbridge Avenue  
Bldg. 209 Annex  
Edison NJ 08837-3679

SAMPLE: 1001797  
PROJECT: 100433  
PO NO:  
REPORTED: 11-OCT-90  
RECEIVED: 21-SEP-90  
WORK ORDER:

PROJECT DESCRIPTION: Penn-Dot Route 19 Site  
Project 9009-27

CLIENT IDENTIFICATION: W-1

SAMPLE DESCRIPTION: Hinkler Well

SAMPLING DATE: 19-SEP-90 TIME: 11:05 BY: Chuck Fisher

	UNITS	RESULT
Purgeable Hydrocarbons		
Acrolein	ug/l	< 80.
Acrylonitrile	ug/l	< 80.
Benzene	ug/l	< 5.
Bromomethane	ug/l	< 10.
Bromodichloromethane	ug/l	< 5.
Bromoform	ug/l	< 5.
Carbon tetrachloride	ug/l	< 5.
Chlorobenzene	ug/l	< 5.
Chloroethane	ug/l	< 10.
2-Chloroethylvinyl ether	ug/l	< 10.
Chloroform	ug/l	< 5.
Chloromethane	ug/l	< 10.
Dibromochloromethane	ug/l	< 5.
1,2-Dichlorobenzene	ug/l	< 5.
1,3-Dichlorobenzene	ug/l	< 5.
1,4-Dichlorobenzene	ug/l	< 5.
1,1-Dichloroethane	ug/l	< 5.
1,2-Dichloroethane	ug/l	< 5.
1,1-Dichloroethene	ug/l	< 5.
Trans-1,2-dichloroethene	ug/l	< 5.
1,2-Dichloropropane	ug/l	< 5.
cis-1,3-Dichloropropene	ug/l	< 5.
trans-1,3-Dichloropropene	ug/l	< 5.
Ethylbenzene	ug/l	< 5.
Methylene chloride	ug/l	< 5.

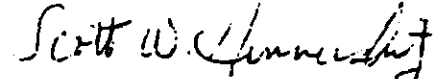
AR100037

CLIENT: Weston  
SAMPLE: 1001797 W-1  
PROJECT: 100433

Page 2  
11-OCT-90

1,1,2,2-Tetrachloroethane	ug/l	< 5.
Tetrachloroethene	ug/l	< 5.
1,1,1-Trichloroethane	ug/l	< 5.
1,1,2-Trichloroethane	ug/l	< 5.
Trichloroethene	ug/l	< 5.
Trichlorofluoromethane	ug/l	< 5.
Toluene	ug/l	< 5.
Vinyl chloride	ug/l	< 10.
Cyanide, Total	mg/l	< 0.01

Respectfully submitted,



Scott W. Hinnerstiz,  
Group Leader, Organics

AR100038



## ANALYTICAL REPORT

CLIENT: Marian Murphy  
Weston  
2890 Woodbridge Avenue  
Bldg. 209 Annex  
Edison NJ 08837-3679

SAMPLE: 1001798  
PROJECT: 100433  
PO NO:  
REPORTED: 11-OCT-90  
RECEIVED: 21-SEP-90  
WORK ORDER:

PROJECT DESCRIPTION: Penn-Dot Route 19 Site  
Project 9009-27

CLIENT IDENTIFICATION: W-2

SAMPLE DESCRIPTION: Penn Dot Well

SAMPLING DATE: 19-SEP-90 TIME: 11:25 BY: Chuck Fisher

	UNITS	RESULT
Purgeable Hydrocarbons		
Acrolein	ug/l	< 80.
Acrylonitrile	ug/l	< 80.
Benzene	ug/l	< 5.
Bromomethane	ug/l	< 10.
Bromodichloromethane	ug/l	< 5.
Bromoform	ug/l	< 5.
Carbon tetrachloride	ug/l	< 5.
Chlorobenzene	ug/l	< 5.
Chloroethane	ug/l	< 10.
2-Chloroethylvinyl ether	ug/l	< 10.
Chloroform	ug/l	< 5.
Chloromethane	ug/l	< 10.
Dibromochloromethane	ug/l	< 5.
1,2-Dichlorobenzene	ug/l	< 5.
1,3-Dichlorobenzene	ug/l	< 5.
1,4-Dichlorobenzene	ug/l	< 5.
1,1-Dichloroethane	ug/l	< 5.
1,2-Dichloroethane	ug/l	< 5.
1,1-Dichloroethene	ug/l	< 5.
Trans-1,2-dichloroethene	ug/l	< 5.
1,2-Dichloropropane	ug/l	< 5.
cis-1,3-Dichloropropene	ug/l	< 5.
trans-1,3-Dichloropropene	ug/l	< 5.
Ethylbenzene	ug/l	< 5.
Methylene chloride	ug/l	6.

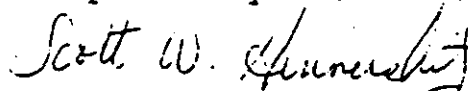
AR100039

CLIENT: Weston  
SAMPLE: 1001798 W-2  
PROJECT: 100433

Page 2  
11-OCT-90

1,1,2,2-Tetrachloroethane	ug/l	< 5.
Tetrachloroethene	ug/l	< 5.
1,1,1-Trichloroethane	ug/l	< 5.
1,1,2-Trichloroethane	ug/l	< 5.
Trichloroethene	ug/l	< 5.
Trichlorofluoromethane	ug/l	< 5.
Toluene	ug/l	< 5.
Vinyl chloride	ug/l	< 10.
Cyanide, Total	mg/l	< 0.01

Respectfully submitted,



Scott W. Hinnershitz  
Group Leader, Organics

AR100040









