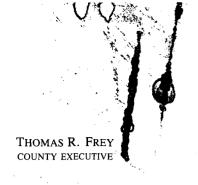
file. hw. 828044. 1990-6-6. State-st-Mt-hoptunel-laboralysis. PLF



Monroe County



JOHN M. DAVIS, P.E. DIRECTOR 716 • 274-7630



Department of Engineering 350 East Henrietta Road • Rochester, N.Y. 14620

June 6, 1990

Mr. George Harris
Chief, Remedial Action Section C
Division of Hazardous Waste Remediation
New York State Department of
Environmental Conservation
Room 222
50 Wolf Road
Albany, New York 12233-7010

RE: STATE - MT. HOPE TUNNEL
C-36-745-10
ROCHESTER PURE WATERS DISTRICT

DEGETVE
JUN 1 1 1990

BUREAU OF WESTERN REMEDIAL ACTION
DIVISION OF HAZARDOUS
WASTE REMEDIATION

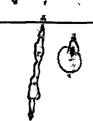
Data from the analysis of air, liquid, soil and muck samples for the period from May 21, 1990 to May 25, 1990 are enclosed for your information and use. Mining of the tunnel was completed on May 24, 1990 at $3:09~\rm p.m.$

Sincerely,

Philip W. Steinfeldt Associate Engineer

/td Enclosures

cc: Mr. Mike Khalil, DEC, Avon, w/encl.
Mr. Jim Smith, H & A of New York



DAILY FIELD REPORT

PROJECT:

STATE ST. - MT. HOPE TUNNEL

DATE: 21 May 1990

OT TENE

Rochester, New York

PAGE: 1 of 2

CLIENT:

STV/Seelye Stevenson Value &

FILE: 7433-82

Knecht

CONTRACTOR: WEATHER:

GCF Constructors Cloudy, rain 50°

CONTRACTOR ACTIVITIES:

Mined TBM tunnel from Station 81+70 to Station 81+97 (day shift), from 81+97 to 82+37 (swing shift), and from 82+37 to 82+90 (graveyard shift).

Hauled tunnel muck intermittently during the day shift and until approximately 1730 hrs. during the swing shift. Dumped tunnel muck on the spoil pile adjacent to Control Structure 41 after approximately 1330 hrs. during the day shift, and intermittently during the swing and graveyard shifts.

FIELD REPRESENTATIVE ACTIVITIES:

W. Lanik (H&A) performed routine air monitoring of the tunnel ventilation exhaust from 0752 to 1435 hrs. Conducted 12 tunnel exhaust air screenings using the Photovac 10s70 gas chromatograph.

Obtained one tunnel muck sample from the spoil pile and one sample of muck excavated from the 14-ft. diameter drop structure at Site 28, and performed headspace screening using the same instrument.

H. Thurston (H&A) performed routine air monitoring of the tunnel ventilation exhaust from 1513 to 2249 hrs. Conducted 13 tunnel exhaust air screenings using the Photovac 10s70 gas chromatograph.

Obtained two tunnel muck samples from the spoil pile and performed headspace screening using the same instrument.

P. Micciche (H&A) performed routine air monitoring of the tunnel ventilation exhaust from 2347 to 0637 hrs. Conducted 15 tunnel exhaust air screenings using the Photovac 10s70 gas chromatograph.

Obtained two tunnel muck samples from the spoil pile and performed headspace screening using the same instrument.

REPORT NO. 64

PROJECT:

STATE ST. - MT. HOPE TUNNEL

Rochester, New York

DATE: 21 May 1990 PAGE: 2 of 2

CLIENT:

STV/Seelye Stevenson Value &

PAGE: 2 of 2 FILE: 7433-82

Knecht

TEST DATA SUMMARY:

None of the action threshold levels for the targeted compounds referenced in the 1 March 1990 workplan (benzene, toluene, 1,2-DCE, methylene chloride, and vinyl chloride) were exceeded during the monitoring periods.

Headspace screening data are summarized on the attached Shift Data Tables.

FIELD REPRESENTATIVE	TIME ON SITE
W. Lanik	0715-1615
	(9.0 hrs.)
H. Thurston	1600-2300
	(7.0 hrs.)
P. Micciche	2300-0700
	(8.0 hrs.)

DISTRIBUTION

STV/Seelye Stevenson: Mr. Richard Richter

Mr. Suki Suresh

MCDOE: Mr. Phil Steinfeldt

H&A OF NEW YORK

OHILL DRIN HADEL

JECT: STATE ST. MT. HOPE AVE TUNNEL

NT: STV/ SEELYE STEVENSON VALUE & KNECHT

REPRESENTATIVE: W. Lanik 0

CKED BY: S. Parker

TUNNEL HEADINGS AT

START: 81 + 70

END: 81 + 97

ADVANCE: 27

FILE: 7433-82

PAGE: 1 OF 2

DATE: 21 May 1990

SHIFT: Day DFR NO.: 64

JNNEL AIR SAMPLES

APPARENT VOLATILE ORGANIC COMPOUNDS DETECTED IN PPM

	VINYL CHLORIDE	METHYLENE	1,2-DCE	BENZENE	TOLUENE	METHANE (PERCENT)	HYOROGEN SULFIDE	ETHYL BENZENE	M-XYLENE	STYRENE	UNKNOWNB*	TOTAL DETECTED
0752		-	1			_	0.92	-				0.92
0927					0.02	_	1.04			0.10	0.01	1.17
1001					0.02		1.01			0.14	0.07	1.24
1031				_	0.02		0.65			0.10	0.02	0.79
1100							0.86	-		0.05		0.91
1130					0.02		0.97		_	0.06	0.10	1.15
1200	_			_	0.01	-	1.03		_	-	0.07	1.11
1230					0.01		0.85			0.12	0.09	1.07
1300					0.08	_	**	_	. 0.05	0.39	1.52	2.04
1330			-	0.04	0.09	_	**	_	0.06	0.43	1.61	2.23
1400		_		0.05	0.11		**	_	0.06	0.45	1.84	2.51
1435	_	_	-	0.05	0.11		••	_	0.08	0.30	1.61	2.15
910aa	_	_	_		0.02				_	_	0.15	0.17
944cg					0.02				_	0.06	0.07	0.15

UNNEL MUCK/ SHAFT/ GROUNDWATER SAMPLES

AMPLE TYPE			TARGET COM	IPOUNDS					OTHERS		1	
TIME	VINYL	METHYLENE	1,2-DCE	BENZENE	TOLUENE	METHANE	HYDROGEN	ETHYL	M-XYLENE	STYRENE	nuknomua.	TOTAL
	CHLORIDE	CHLORIDE				(PERCENT)	SULFIDE	BENZENE				DETECTED
TM/1330		-		0.20	0.31	_			0.20	-	3.33	4.04
M28/1345			-				_	-	0.03		0.62	0.65
					·							
					·							

MARKS/ VISITORS:
Tunnel muck dumped after approximately 1330 hrs. during day shift.
Tunnel muck hauled from site intermittently during day shift.
-
No visitors to trailer during day shift.
No mining conducted from approximately 0700 to 1300 hrs.
Collected sample of muck excavated from the 14-ft. diameter drop structure at Site 28 at 1345 hrs.
Sample obtained from stockpile adjacent to the structure. Excavation advanced to approximately 45 ft.
below ground surface at the time of sampling.

SAMPLE TYPE:

TM TUNNEL MUCK

TS TUNNEL SEEP

SM# SHAFT SOIL OR MUCK FROM SITE 15, 27, OR 28

No samples were obtained from Sites 15 or 27 as no excavation was performed.

- 1. (*) UNIDENTIFIED CHROMATOGRAM PEAKS EXPRESSED IN TOLUENE EQUIVALENTS.
- 2. COMPOUNDS LESS THAN 10 PPB NOT REPORTED.
- 3. (cg) INDICATES CARRIER GAS BLANK ANALYSIS.
- 4. (aa) INDICATES AMBIENT AIR BLANK ANALYSIS.
- 5. (**) INDICATES PRESENCE OF COMPOUND IN SAMPLE WHICH ELUTED IN GENERAL RANGE OF HYDROGEN SULFIDE STANDARD, BUT WAS NOT WITHIN TWO PERCENT OF THE ELUTION TIME. COMPOUND CONCENTRATION REPORTED AS AN UNKNOWN.

Chin i Latta IMPLE

DIECT: STATE ST. MT. HOPE AVE TUNNEL

ENT: STV/ SEELYE STEVENSON VALUE & KNECHT

REPRESENTATIVE: W.Lanik/H. Thurston

:CKED BY: S. Parker

TUNNEL HEADINGS AT

START: 81 + 97

END: 82 + 37 ADVANCE: 40 PAGE: 1 OF 2 DATE: 21 May 1990

FILE: 7433-82

SHIFT: Swing DFR NO.: 64

JNNEL AIR SAMPLES

APPARENT VOLATILE ORGANIC COMPOUNDS DETECTED IN PPM

TIME			TARGET COM				DUNDS DE LEC		OTHERS			
	VINYL CHLORIDE	METHYLENE CHLORIDE	1,2-OCE	BENZENE	TOLUENE	METHANE (PERCENT)	HYDROGEN SULFIDE	ETHYL BENZENE	M-XYLENE	STYRENE	UNKNOWNS-	TOTAL DETECTED
1513			_	0.04	0.69		••		0.06	0.38	1,41	1.98
1548			· <u> </u>		0.03		1.67		0.02	0.21	0.13	2.06
1637	_				0.08		**	-	0.03	0.40	0.45	0.94
1708		<u> </u>		0.05	0.09		••		0.05	0.35	1.77	2.31
1835	-			0.02	0.07		**		0.05	0.30	1.13	1,57
1905				0.04	0.07		••	-	0.04	0.36	1.36	1.87
1941				0.05	0.10		••	_	0.08	0.39	2.14	2.76
2011			***	0.05	0.09		••	-	0.07	0.40	1.92	2.53
2041					0.02		••			0.12	0.32	0.46
2111			_		0.02	_	**	_	_	0.10	0.37	0.49
2141		_		_	0.02		2.00	_	_	0.11	0.13	2.26
2219	_		_				2.20	_	_		0.47	2.67
2249	_		-		·		1.16			0.07	<u>-</u>	1.23
					·							

JNNEL MUCK/ SHAFT/ GROUNDWATER SAMPLES

MITLETYPE			TARGET COM	APOUNDS .					OTHERS			
TIME	VINYL CHLORIDE	METHYLENE CHLORIDE	1,2-DCE	BENZENE	TOLUENE	METHANE (PERCENT)	HYDROGEN SULFIDE	ETHYL BENZENE	M-XYLENE	STYRENE	UNKNOWNS*	TOTAL DETECTED
TM/1850	_		_	0.14	0.26				0.16	-	1.09	1.65
TM/2149			0.08	0.12	0.18				0.10		0.92	1.40
			'	-						_		
						·						
										N.,		

RKS/ VISITORS:		- 				
Tunnel muck dum-	and intermediate mist		,			
Tunner muck dump	ed intermittently dur	ring swing sniπ.				
				•		
Tunnel muck haule	d from site intermitte	entiv until appro	vimately 1730 hrs.	durina swina shif	•	
Tullion mack hadio	o nom site intermitte	ontry dittii appro.	Ailliatory 1700 Ilis.	during swing sim	•	* · . · · · · · · · · · · · · · · · · ·
						
No visitors to trailer	during swing shift.					
						·
						,
	·					
						
			•			
						

SAMPLE TYPE:

TUNNEL MUCK

TS TUNNEL SEEP

SM# SHAFT SOIL OR MUCK FROM SITE 15, 27, OR 28

IOTES:

- 1. (*) UNIDENTIFIED CHROMATOGRAM PEAKS EXPRESSED IN TOLUENE EQUIVALENTS.
- 2. COMPOUNDS LESS THAN 10 PPB NOT REPORTED.
- 3. (**) INDICATES PRESENCE OF COMPOUND IN SAMPLE WHICH ELUTED IN GENERAL RANGE OF HYDROGEN SULFIDE STANDARD, BUT WAS NOT WITHIN TWO PERCENT OF THE ELUTION TIME. COMPOUND CONCENTRATION REPORTED AS AN UNKNOWN.

DIM LUMIN INDEL

OJECT: STATE ST, MT, HOPE AVE TUNNEL

JENT: STV/ SEELYE STEVENSON VALUE & KNECHT

A REPRESENTATIVE: P. Micciche

ECKED BY: S. Parker

TUNNEL AIR SAMPLES .

TUNNEL HEADINGS AT

START: 82 + 37 END: 82 + 90

ADVANCE: 53

FILE: 7433-82 PAGE: 1 OF 2

DATE: 21-22 May 1990

SHIFT: Graveyard **DFR NO.: 64**

APPARENT VOLATILE ORGANIC COMPOUNDS DETECTED IN PPM

TIME	TARGET COMPOUNDS OTHERS											
	VINYL CHLORIDE	METHYLENE CHLORIDE	1,2-DCE	BENZENE	TOLUENE	METHANE (PERCENT)	HYDROGEN BULFIDE	ETHYL BENZENE	M-XYLENE	STYRENE	UNKNOWNS"	TOTAL DETECTED
2347		_			0.08		••		0.07	0.33	2.00	2.48
0040				0.06	0.13		**	-	0.12	0.51	2.24	3.08
0059				_	0.03		2.00	-	0.04	0.30	0.36	2.73
0117		_			0.02		2.40	-	0.03	0.20	0.08	2.73
0135					0.02		1.41		0.02	0.14	0.01	1.60
0153	_		_		0.02	_	2.20	0.03	0.05		0.08	2.38
0215			_	0.03	0.06	-	••		0.02	0.28	1.14	1,53
0245				0.08	0.12		**		0.10	0.48	2.70	3.48
0325			_	0.06	0.21	_	**		0.10	0.40	2.07	2.84
4000		_		0.07	0.12		**		0.10	0.49	2.84	3.62
0430				0.07	0.13		**		0.10	0.53	3.03	3.86
0500	_			0.06	0.11				0.10	0.51	2.48	3.26
0530				0.06	0.11	_			0.10		2.64	2.91
0600			-	0.06	0.12		**		0.09	0.42	2.70	3.39
0637				0.07	0.13		••		0.10	0.77	2.72	3.79

TUNNEL MUCK/ SHAFT/ GROUNDWATER SAMPLES

BAMPLE TYPE		•	TARGET CON	i conta	·		I	Γ	T			MARK 1 1 A.N
TIME	VINYL	METHYLENE	1,2-DCE	BENZENE	TOLUENE	METHANE (PERCENT)	HYDROGEN SULFIDE	ETHYL BENZENE	M-XYLENE	STYRENE	UNKNOWN9*	TOTAL DETECTED
TM/0200			en en		0.27				0.15		3.12	3.54
TM/0520			-	0.21	0.32				0.18		4.74	5.45
				·								

REMARKS/ VISITORS:				
Tunnel muck dump	ped intermittently during gr	aveyard shift.		
	-			
No tunnel muck ha	auled from site during grave	eyard shift.		
No visitors to trailer	r during graveyard shift.			
	**************************************	* , <u></u>	· · · · · · · · · · · · · · · · · · ·	
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		

SAMPLE TYPE:

TM TUNNEL MUCK

TS TUNNEL SEEP

SM# SHAFT SOIL OR MUCK FROM SITE 15, 27, OR 28

- 1. (*) UNIDENTIFIED CHROMATOGRAM PEAKS EXPRESSED IN TOLUENE EQUIVALENTS.
- 2. COMPOUNDS LESS THAN 10 PPB NOT REPORTED.
- 3. (**) INDICATES PRESENCE OF COMPOUND IN SAMPLE WHICH ELUTED IN GENERAL RANGE OF HYDROGEN SULFIDE STANDARD, BUT WAS NOT WITHIN TWO PERCENT OF THE ELUTION TIME. COMPOUND CONCENTRATION REPORTED AS AN UNKNOWN.

DAILY FIELD REPORT

PROJECT:

STATE ST. - MT. HOPE TUNNEL

DATE: 22 May 1990

Rochester, New York STV/Seelye Stevenson Value &

1 of 2 PAGE: FILE: 7433-82

Knecht

CONTRACTOR:

GCF Constructors

WEATHER:

CLIENT:

Sunny 60⁰

CONTRACTOR ACTIVITIES:

Mined TBM tunnel from Station 82+90 to Station 83+32 (day shift), from 83+32 to 83+59 (swing shift), and from 83+59 to 84+08(graveyard shift).

Hauled tunnel muck intermittently during the day shift and until approximately 1630 hrs. during the swing shift. Dumped tunnel muck on the spoil pile adjacent to Control Structure 41 intermittently during the day and graveyard shifts and from approximately 1600 to 1800 hrs. during the swing shift.

FIELD REPRESENTATIVE ACTIVITIES:

W. Lanik (H&A) performed routine air monitoring of the tunnel ventilation exhaust from 0706 to 1458 hrs. Conducted 13 tunnel exhaust air screenings using the Photovac 10s70 gas chromatograph.

Obtained two tunnel muck samples from the spoil pile and one sample of muck excavated from the 14-ft. diameter drop structure at Site 28, and performed headspace screening using the same instrument.

S. Parker (H&A) performed routine air monitoring of the tunnel ventilation exhaust from 1544 to 2234 hrs. Conducted 12 tunnel exhaust air screenings using the Photovac 10s70 gas chromatograph.

Obtained one tunnel muck sample from the spoil pile and performed headspace screening using the same instrument.

P. Micciche (H&A) performed routine air monitoring of the tunnel ventilation exhaust from 2307 to 0630 hrs. Conducted 15 tunnel exhaust air screenings using the Photovac 10s70 gas chromatograph.

Obtained two tunnel muck samples from the spoil pile and performed headspace screening using the same instrument.

REPORT NO. 65

PROJECT: STATE ST. - MT. HOPE TUNNEL

DATE: 22 May 1990

Rochester, New York

PAGE: 2 of 2

CLIENT:

STV/Seelye Stevenson Value &

FILE:

7433-82

Knecht

Obtained routine weekly tunnel muck sample TM2315(0522) for subsequent analysis by General Testing Co. Noted that 6.21 ppm total unknown volatiles were detected during headspace screening of this sample, and that 17.02 ppm of unknowns were detected during headspace screening of sample TM/1620 performed during the swing shift. Sample TM/1620 may be selected to replace TM2315(0522) for organic volatiles analysis.

TEST DATA SUMMARY:

None of the action threshold levels for the targeted compounds referenced in the 1 March 1990 workplan (benzene, toluene, 1,2-DCE, methylene chloride, and vinyl chloride) were exceeded during the monitoring periods.

Headspace screening data are summarized on the attached Shift Data Tables.

FIELD REPRESENTATIVE	TIME ON SITE
W. Lanik	0700-1500
	(8.0 hrs.)
S. Parker	1500-2300
	(8.0 hrs.)
P. Micciche	2300-0700
	(8.0 hrs.)

DISTRIBUTION

STV/Seelye Stevenson: Mr. Richard Richter

Mr. Suki Suresh

MCDOE:

Mr. Phil Steinfeldt

H&A OF NEW YORK

SHIFT DATA TABLE

DJECT: STATE ST, MT, HOPE AVE TUNNEL

ENT: STV/ SEELYE STEVENSON VALUE & KNECHT

A REPRESENTATIVE: W. Lanik

ECKED BY: S. Parker

TUNNEL HEADINGS AT

START: 82 + 90

END: 83 + 32

ADVANCE: 42

FILE: 7433-82

PAGE: 1 OF 2

DATE: 22 May 1990

SHIFT: Day

DFR NO.: 65

UNNEL AIR SAMPLES

APPARENT VOLATILE ORGANIC COMPOUNDS DETECTED IN PPM

TIME			TARGET COM	POUNDS			ar Politik uto Marija Politika kan 1885		OTHERS			
	VINYL	METHYLENE CHLORIDE	1,2-DCE	BENZENE	TOLUENE	METHANE (PERCENT)	HYDROGEN SULFIDE	ETHYL BENZENE	M-XYLENE	STYRENE	UNKNOWNS*	TOTAL DETECTED
0706				0.07	0.13		••		0.12	0.49	2.19	3.00
0731					0.03		1.82		0.02	0.19	0.08	2.14
0848				0.04	0.08		••		0.08	0.27	1.98	2.41
0915				0.03	0.05		••		0.04	0.18	0.99	1.29
0945				0.03	0.09		**		0.06		1.09	1.27
1028					0.02		••	_	0.03	0.22	0.50	0.77
1118					0.02		**			0.15	0.40	0.57
1155			_				2.57	0.08		0.23	0.07	2.93
1231				0.04	0.09		**		0.08	0.42	1.21	1.84
1314						-	2.14			0.18	0.05	2.37
1352				0.04	0.07		**		0.06	0.34	1.08	1.57
1423					0.05		••		0.03	-	0.39	0.47
1458					0.02		••		0.03	0.14	0.43	0.62
0830aa			_						_			
											-	

UNNEL MUCK/ SHAFT/ GROUNDWATER SAMPLES

AMPLE TYPE			TARGET COM	POUNDS	Nejříří N		redicións de mis La lacementa de		OTHERS			
TIME	VINYL CHLORIDE	METHYLENE CHLORIDE	1,2-DCE	BENZENE	TOLUENE	METHANE (PERCENT)	HYDROGEN SULFIDE	ETHYL BENZENE	M-XYLENE	STYRENE	UNKNOWNS*	TOTAL DETECTED
TM/0840		_	-	0.31	0.48				0.23	0.18	13.90	15.08
M28/1220										0.05	0.49	0.54
TM/1400		_		0.19	0.31			_	0.17	0.12	5.94	6.73

MARKS/ VIS	ITORS:
Tuni	nel muck dumped intermittently during day shift.
	to meet deliped into millionity during day shirt.
_	
luni	nel muck hauled from site intermittently during day shift.
Colle	ected sample of muck excavated from the 14-ft. diameter drop structure at Site 28 at 1220 hrs.
Sam	ple obtained from stockpile adjacent to the structure. Excavation advanced to approximately 55 ft.
belo	w ground surface at the time of sampling.
Nos	amples were obtained from Sites 15 or 27 as no excavation was performed.
	

SAMPLE TYPE:

TUNNEL MUCK

TS TUNNEL SEEP

SM# SHAFT SOIL OR MUCK FROM SITE 15, 27, OR 28

- 1. (*) UNIDENTIFIED CHROMATOGRAM PEAKS EXPRESSED IN TOLUENE EQUIVALENTS.
- 2. COMPOUNDS LESS THAN 10 PPB NOT REPORTED.
- 3. (aa) INDICATES AMBIENT AIR BLANK ANALYSIS.
- 4. (**) INDICATES PRESENCE OF COMPOUND IN SAMPLE WHICH ELUTED IN GENERAL RANGE OF HYDROGEN SULFIDE STANDARD, BUT WAS NOT WITHIN TWO PERCENT OF THE ELUTION TIME. COMPOUND CONCENTRATION REPORTED AS AN UNKNOWN.

SHILL DATA TABLE

JECT: STATE ST. MT. HOPE AVE TUNNEL

ENT: STV/ SEELYE STEVENSON VALUE & KNECHT

REPRESENTATIVE: S. Parker

CKED BY: S. Parker

TUNNEL HEADINGS AT

START: 83 + 32

END: 83 + 59

ADVANCE: 27

FILE: 7433-82

PAGE: 1 OF 2

DATE: 22 May 1990

SHIFT: Swing DFR NO.: 65

JNNEL AIR SAMPLES

APPARENT VOLATILE ORGANIC COMPOUNDS DETECTED IN PPM

	VINYL	METHYLENE	1,2-OCE	BENZENE	TOLUENE	METHANE	HYDROGEN	ETHYL	M-XYLENE	BTYRENE	UNKNOWNS.	TOTAL
	CHLORIDE	CHLORIDE				(PERCENT)	SULFIDE	BENZENE				DETECTED
1544					0.03		2.30	0.03	0.04	0.25	0.06	2.71
1622					0.01		2.38	0.03		0.11	0.07	2.60
1708				0.02	0.08		**	-	0.08	0.45	1.36	1.99
1755				0.04	0.08		••	-	0.09	0.47	1.50	2.18
1834	-	_		0.01	0.06		••		0.09	0.63	1.02	1.81
1915	.—			0.04	0.08		••	-	0.09	0.42	1.84	2.47
1945	-		_		0.02		1.98		0.03	0.20	0.11	2.34
2016					0.02	_	1.77		_	0.15	0.03	1.97
2105					0.03		1.17	0.03	0.05	0.35	0.01	1.64
2138	1			-	0.01		1.15		_	0.18		1.34
2204							1.14			0.19	0.01	1.34
2234	-			0.04	0.09		**		0.09	0.38	1.55	2.15
	-											

JNNEL MUCK/ SHAFT/ GROUNDWATER SAMPLES

MPLE TYPE			TARGET COM	POUNDS					OTHERS			
TIME	VINYL	METHYLENE CHLORIDE	1,2-DCE	BENZENE	TOLUENE	METHANE (PERCENT)	HYDROGEN SULFIDE	ETHYL BENZENE	M-XYLENE	0-XYLENE	UNKNOWNS.	TOTAL DETECTED
M/1620				0.33	0.62				0.30		18.09**	19.24
M/1620D		_	_	0.35	0.52		_		0.30	0.04	17.02	18.23
	·											
											<u> </u>	

AAF	RKS/ VISITORS:
	Tunnel muck dumped intermittently from approximately 1600 to 1800 hrs. during swing shift.
	Tunnel muck hauled from site Intermittently until approximately 1630 hrs. during swing shift.
	No visitors to trailer during swing shift.
•	

SAMPLE TYPE:

TM TUNNEL MUCK

TUNNEL SEEP

SM# SHAFT SOIL OR MUCK FROM SITE 15, 27, OR 28

- 1. (*) UNIDENTIFIED CHROMATOGRAM PEAKS EXPRESSED IN TOLUENE EQUIVALENTS.
- 2. COMPOUNDS LESS THAN 10 PPB NOT REPORTED.
- 3. (**) INDICATES PRESENCE OF COMPOUND IN SAMPLE WHICH ELUTED IN GENERAL RANGE OF HYDROGEN SULFIDE STANDARD, BUT WAS NOT WITHIN TWO PERCENT OF THE ELUTION TIME. COMPOUND CONCENTRATION REPORTED AS AN UNKNOWN.
- 4. (D) INDICATES DUPLICATE ANALYSIS.
- 5. (***) INDICATES IMPRECISE RESULT DUE TO OFF-SCALE CHROMATOGRAM FOR UNKNOWN COMPOUNDS. SEE DUPLICATE ANALYSIS
 FOR MORE PRECISE CONCENTRATION OF UNKNOWNS. ALL OTHER CONCENTRATIONS REPORTED IN THE ORIGINAL ANALYSIS ARE
 BASED ON ON-SCALE CHROMATOGRAM PEAKS, AND THEREFORE ARE MORE PRECISE THAN THOSE IN THE DUPLICATE ANALYSIS.

SHIFT DATA TABLE

DJECT: STATE ST. MT. HOPE AVE TUNNEL

ENT: STV/ SEELYE STEVENSON VALUE & KNECHT

VREPRESENTATIVE: P. Micciche

ECKED BY: S. Parker

TUNNEL HEADINGS AT

START: 83 + 59

END: 84 + 08 ADVANCE: 49 FILE: 7433-82

PAGE: 1 OF 2

DATE: 22-23 May 1990

SHIFT: Graveyard

DFR NO.: 65

JNNEL AIR SAMPLES

APPARENT VOLATILE ORGANIC COMPOUNDS DETECTED IN PPM

	VINYL	METHYLENE	1,2-DCE	BENZENE	TOLUENE	METHANE (PERCENT)	HYDROGEN SULFIDE	ETHYL BENZENE	M-XYLENE	STYRENE	UNKNOWNS*	TOTAL DETECTED
2307				0.04	0.09		**		0.09	0.44	1.86	2.52
2351	1					-	2.05	-	_	0.19	0.04	2.28
0021				0.03	0.05	_	**		0.05	0.28	1.09	1.50
0051			_				2.03	-	_	0.17	0.04	2.24
0128				0.04	0.08		**		0.11	0.44	1.79	2.48
0200			· <u>-</u> _	0.04	0.10		**		0.09	0.38	2.10	2.71
0230	****						2.45			0.18	0.05	2.66
0300			-	0.05	0.10		**		0.10	0.46	2.22	2.93
0400	telesy				0.02	-	2.78	-	0.04	0.18	0.10	3,12
0417			-	0.04	0.09	_	**		0.10	0.33	1.74	2.30
0437					0.02		2.42		_	0.15	0.11	2.70
0 500		_		0.04	0.10	_	**		0.10	_	1.84	2.08
0530		_		0.05	0.09		**		0.09	0.40	2.06	2.69
0800					0.07		**				0.72	0.79
0630	_				0.04		2.23		0.04	1.33	0.21	3.85

JNNEL MUCK/ SHAFT/ GROUNDWATER SAMPLES

MPLE TYPE			TARGET COM	IPOUNDS		1964 1973 1971 1971 1972			OTHERS			
TRAE	VINYL	METHYLENE	1,2-DCE	BENZENE	TOLUENE	METHANE (PERCENT)	HYDROGEN SULFIDE	ETHYL BENZENE	M-XYLENE	STYRENE	UNKNOWNS*	TOTAL DETECTED
M/2315			_		0.36				0.26	0.04	6.21	6.87
ΠM/0210		_		0.14	0.20				0.18	0.04	3.14	3.70
											<u> </u>	
												t miline it see

EMARKS/ VISITORS:	
Tunnel muck dumped intermittently during graveyard shift.	
No tunnel muck hauled from site during graveyard shift.	
No visitors to trailer during graveyard shift.	
Obtained routine weekly tunnel muck sample TM 2315 (0522) for subsequent analysis by	
General Testing Co. Noted that 6.21 ppm total unknown volatiles were detected during	
headspace screening of this sample, and that 17.02 ppm of unknowns were detected during	
headspace screening of sample TM 1620 performed during the swing shift. Sample TM∕1620	
may be selected to replace TM/2315 (0522) for organic volatiles analysis.	

SAMPLE TYPE:

TM TUNNEL MUCK

TS TUNNEL SEEP

SM# SHAFT SOIL OR MUCK FROM SITE 15, 27, OR 28

- 1. (*) UNIDENTIFIED CHROMATOGRAM PEAKS EXPRESSED IN TOLUENE EQUIVALENTS.
- 2. COMPOUNDS LESS THAN 10 PPB NOT REPORTED.
- 3. (**) INDICATES PRESENCE OF COMPOUND IN SAMPLE WHICH ELUTED IN GENERAL RANGE OF HYDROGEN SULFIDE STANDARD, BUT WAS NOT WITHIN TWO PERCENT OF THE ELUTION TIME. COMPOUND CONCENTRATION REPORTED AS AN UNKNOWN.

DAILY FIELD REPORT

PROJECT:

STATE ST. - MT. HOPE TUNNEL

DATE: 23 May 1990

Rochester, New York

PAGE: 1 of 2

CLIENT:

STV/Seelve Stevenson Value &

FILE: 7433-82

Knecht

CONTRACTOR:

GCF Constructors

WEATHER:

Partly cloudy 60°

CONTRACTOR ACTIVITIES:

Mined TBM tunnel from Station 84+08 to Station 84+40 (day shift), from 84+40 to 84+91 (swing shift), and from 84+91 to 85+30 (graveyard shift).

Hauled tunnel muck intermittently during the day shift. Dumped tunnel muck on the spoil pile adjacent to Control Structure 41 intermittently during all three shifts.

FIELD REPRESENTATIVE ACTIVITIES:

W. Lanik (H&A) performed routine air monitoring of the tunnel ventilation exhaust from 0715 to 1440 hrs. Conducted 14 tunnel exhaust air screenings using the Photovac 10s70 gas chromatograph.

Obtained two tunnel muck samples from the spoil pile and one sample of muck excavated from the 14-ft. diameter drop structure at Site 28, and performed headspace screening using the same instrument.

S. Parker (H&A) performed routine air monitoring of the tunnel ventilation exhaust from 1511 to 2248 hrs. Conducted 14 tunnel exhaust air screenings using the Photovac 10s70 gas chromatograph.

Obtained two tunnel muck samples from the spoil pile and performed headspace screening using the same instrument.

P. Micciche (H&A) performed routine air monitoring of the tunnel ventilation exhaust from 2311 to 0633 hrs. Conducted 16 tunnel exhaust air screenings using the Photovac 10s70 gas chromatograph.

Obtained two tunnel muck samples from the spoil pile and performed headspace screening using the same instrument.

REPORT NO. 66

PROJECT:

STATE ST. - MT. HOPE TUNNEL

DATE: 23 May 1990

CLIENT:

Rochester, New York STV/Seelye Stevenson Value &

FILE:

PAGE: 2 of 2 7433-82

Knecht

TEST DATA SUMMARY:

None of the action threshold levels for the targeted compounds referenced in the 1 March 1990 workplan (benzene, toluene, 1,2-DCE, methylene chloride, and vinyl chloride) were exceeded during the monitoring periods.

Headspace screening data are summarized on the attached Shift Data Tables.

FIELD REPRESENTATIVE	<u>TIME ON SITE</u>
W. Lanik	0700-1515
	(8.25 hrs.)
S. Parker	1500-2315
<i>:</i>	(8.25 hrs.)
P. Micciche	2300-0700
	(8.0 hrs.)

DISTRIBUTION

STV/Seelye Stevenson: Mr. Richard Richter

Mr. Suki Suresh

MCDOE: Mr. Phil Steinfeldt

H&A OF NEW YORK

SIM I DATA TABLE

IOJECT: STATE ST. MT. HOPE AVE TUNNEL

IENT: STV/ SEELYE STEVENSON VALUE & KNECHT

A REPRESENTATIVE: W. Lanik

IECKED BY: S. Parker

TUNNEL HEADINGS AT

START: 84+08

END: 84 + 40

ADVANCE: 32

FILE: 7433-82

PAGE: 1 OF 2

DATE: 23 May 1990

SHIFT: Day

DFR NO.: 68

UNNEL AIR SAMPLES

APPARENT VOLATILE ORGANIC COMPOUNDS DETECTED IN PPM

TIME			TARGET COM	POUNDS					OTHERS			
	VINYL CHLORIDE	METHYLENE CHLORIDE	1,2-DCE	BENZENE	TOLUENE	METHANE (PERCENT)	HYDROGEN SULFIDE	ETHYL BENZENE	M-XYLENE	STYRENE	UNKNOWNS-	TOTAL DETECTED
0718							1.95			0.13	0.08	2.14
0745	<u></u>				0.04		1.64		0.02		0.23	1.93
0850							0.89				<u> </u>	0.89
0922					0.03		1.02			_	0.11	1.16
1000			-		0.03		1.86	_	0.02	0.41	0.26	2.58
1039					0.03		1.62		0.04	0.08	0.08	1,85
1115					0.08		0.99		0.04	0.23	0.48	1.80
1145					0.03		1.77		_	0.08	0.05	1.93
1215				0.04	0.10		••		0.07	0.45	1.40	2.06
1245			-		0.03		0.97	<u>-</u>		0.11	0.08	1.19
1308			-	0.04	0.10		••		0.09	0.58	1.64	2.45
1339			-	0.04	0.10		••		0.08	0.59	1.49	2.30
1414		_			0.04		1.66	_	0.04	0.17	0.21	2.12
1440			_	0.02	0.10	_	••		0.02	0.13	0.64	0.91
0834aa												
0906 cg							_				_	_

FUNNEL MUCK/ SHAFT/ GROUNDWATER SAMPLES

SAMPLE TYPE			TARGET CON	IPOUNDS					OTHERS			
TIME	VINYL	METHYLENE	1,2-DCE	BENZENE	TOLUENE	METHANE	HYDROGEN	M-XYLENE	STYRENE	O-XYLENE	UNKNOWNS*	TOTAL
	CHLORIDE	CHLORIDE				(PERCENT)	SULFIDE	BENZENE		ļ <u>.</u>	 	DETECTED
TM/0800				0.09	0.13			0.07		0.05	3.26	3.60
SM28/1140	-			0.02					0.07		0.43	0.52
TM/1300				0.17	0.21			0.10		0.11	5.30	5.89
												

RKS	/ VISITORS:
	Tunnel muck dumped intermittently during day shift.
	Tunnel muck hauled from site intermittently during day shift.
	No visitors to trailer during day shift.
	Collected sample of muck excavated from the 14-ft. diameter drop structure at Site 28 at 1140 hrs.
	Sample obtained from stockpile adjacent to the structure. Excavation advanced to approximately 60 ft.
1	below ground surface at the time of sampling.
_	
ı	No samples were obtained from Sites 15 or 27 as no excavation was performed during the day shift.

SAMPLE TYPE:

TM TUNNEL MUCK

TS TUNNEL SEEP

SM# SHAFT SOIL OR MUCK FROM SITE 15, 27, OR 28

IOTES:

- 1. (*) UNIDENTIFIED CHROMATOGRAM PEAKS EXPRESSED IN TOLUENE EQUIVALENTS.
- 2. COMPOUNDS LESS THAN 10 PPB NOT REPORTED.
- 3. (cg) INDICATES CARRIER GAS BLANK ANALYSIS.
- 4. (aa) INDICATES AMBIENT AIR BLANK ANALYSIS.
- 5. (**) INDICATES PRESENCE OF COMPOUND IN SAMPLE WHICH ELUTED IN GENERAL RANGE OF HYDROGEN SULFIDE STANDARD, BUT WAS NOT WITHIN TWO PERCENT OF THE ELUTION TIME. COMPOUND CONCENTRATION REPORTED AS AN UNKNOWN.

<u>Ulin I DATA TADEL</u>

OJECT: STATE ST. MT. HOPE AVE TUNNEL

IENT: STV/ SEELYE STEVENSON VALUE & KNECHT

A REPRESENTATIVE: S. Parker

ECKED BY: S. Parker

TUNNEL HEADINGS AT

START: 84 + 40

END: 84 + 91

ADVANCE: 51

FILE: 7433-82

PAGE: 1 OF 2

DATE: 23 May 1990 SHIFT: Swing

DFR NO.: 68

FUNNEL AIR SAMPLES

APPARENT VOLATILE ORGANIC COMPOUNDS DETECTED IN PPM

TIME			TARGET CON	POUNDS					OTHERS			
	VINYL CHLORIDE	METHYLENE CHLORIDE	1,2-DCE	BENZENE	TOLUENE	METHANE (PERCENT)	HYDROGEN SULFIDE	ETHYL BENZENE	M-XYLENE	STYRENE	UNKNOWNS-	TOTAL DETECTED
1511				0.04	0.10		••		0.08	0.29	1.50	2.01
1601				0.04	0.09		**		0.07	0.33	1.80	2.33
1641				0.04	0.10		**	_	0.08	0.88	2.04	3.14
1724				_	0.05		1.91	-	0.04	0.28	0.28	2.56
1754	_			0.04	0.09		**		0.08	0.47	1.75	2.43
1834			+	0.02	0.11		••	0.13	0.10	0.36	1.74	2.46
1904			-	0.05	, 0.11		**	ļ. 	0.09	0.63	2.05	2.93
1934			-	0.04	0.10	_	••	-	0.08	0.52	2.02	2.76
2004		_	_	0.05	0.15	_	••		0.09	0.64	2.20	3.13
2040	_			0.02	0.08		**		0.08	0.36	1.50	2.02
2110					0.03		1.92		0.02	0.22	0.17	2.36
2140				0.04	0.10	_	**		0.08	0.40	1.61	2.23
2219	_			0.04	0.09		**		0.08	0.30	1.56	2.04
2248	_				0.02	-	1.98			0.17	0.14	2,29
2203cg	_		-	_	_		_	_			0.13	0.13

"UNNEL MUCK! SHAFT! GROUNDWATER SAMPLES

SAMPLE TYPE			TARGET COM	APOUNDS .					OTHERS			
TIME	VINYL CHLORIDE	METHYLENE CHLORIDE	1,2-OCE	BENZENE	TOLUENE	METHANE (PERCENT)	HYDROGEN SULFIDE	ETHYL BENZENE	M-XYLENE	O-XYLENE	UNKNOWNS*	TOTAL DETECTED
TM/1525			_	0.19	0.22		_	_	0.11	0.02	7.58	8.12
TM/1940				0.15	0.19				0.10	0.09	4.54	5.07
								-				uti ke ji
			-									
	<u>.</u>		<u> </u>							·		
				1							1	

MAR	RKS/ VISITORS:
	To and more distance and the control of the control
	Tunnel muck dumped intermittently during swing shift.
	No tunnel muck hauled from site during swing shift.
	No visitors to trailer during swing shift.

SAMPLE TYPE:

TUNNEL MUCK

S TUNNEL SEEP

SM# SHAFT SOIL OR MUCK FROM SITE 15, 27, OR 28

- 1. (*) UNIDENTIFIED CHROMATOGRAM PEAKS EXPRESSED IN TOLUENE EQUIVALENTS.
- 2. COMPOUNDS LESS THAN 10 PPB NOT REPORTED.
- 3. (cg) INDICATES CARRIER GAS BLANK ANALYSIS.
- 4. (**) INDICATES PRESENCE OF COMPOUND IN SAMPLE WHICH ELUTED IN GENERAL RANGE OF HYDROGEN SULFIDE STANDARD, BUT WAS NOT WITHIN TWO PERCENT OF THE ELUTION TIME. COMPOUND CONCENTRATION REPORTED AS AN UNKNOWN.

OF I DATA TABLE

ROJECT: STATE ST. MT. HOPE AVE TUNNEL

.IENT: STV/ SEELYE STEVENSON VALUE & KNECHT

A REPRESENTATIVE: P. Micciche

IECKED BY: S. Parker

TUNNEL HEADINGS AT

START: 84 + 91

END: 85 + 30

ADVANCE: 39

FILE: 7433-82

PAGE: 1 OF 2

DATE: 23-24 May 1990

SHIFT: Graveyard DFR NO.: 66

TUNNEL AIR SAMPLES

APPARENT VOLATILE ORGANIC COMPOUNDS DETECTED IN PPM

	VINYL	METHYLENE	1,2-DCE	BENZENE	TOLUENE	METHANE (PERCENT)	HYDROGEN SULFIDE	ETHYL BENZENE	M-XYLENE	STYRENE	UNKNOWNS.	TOTAL
2311					0.03	(FERGENI)	1.26	- BENZENE		0.15	0.05	1.49
2341	<u></u>				0.03	_	1.28		_	0.12	0.13	1.54
0011				0.04	0.10	_	**		0.07	0.31	1.72	2.24
0041				_	0.03		1.97	-	0.02	0.19	0.16	2.37
1000	_				0.02		1.43	-	_	0.26	0.03	1.74
0130				0.04	0.10		••	1	0.08	0.52	1.98	2.70
0200				0.05	0.10	_	**	_	0.08	0.44	2.26	2.93
0245	_			_	0.03		2.08	-	-	0.23	0.15	2.49
0315					0.05	_	2.17	_	0.04	0.21	0.15	2.62
0345			_		0.04		2.18		0.04	0.25	0.21	2.72
0402	_	_			0.02	_	1.75	_		0.19	0.10	2.06
0430					0.04	_	1.78			0.17	0.16	2.15
0500				-			1.30		_	0.12	0.07	1.49
0530			_	_			1.37	_	_	0.15	_	1.52
0600				0.02	0.05	_	**	_		0.19	1.11	1.37
0633							1.14	-		0.16	0.07	1.37

TUNNEL MUCK/ SHAFT/ GROUNDWATER SAMPLES

SAMPLE TYPE			TARGET COM	POUNDS					OTHERS			
TIME	VINYL	METHYLENE CHLORIDE	1,2-DCE	BENZENE	TOLUENE	METHANE (PERCENT)	HYDROGEN SULFIDE	ETHYL BENZENE	M-XYLENE	O-XYLENE	UNKNOWNS*	TOTAL DETECTED
TM/0100				0.12	0.18				0.10	0.09	2.85	3.34
TM/0330				0.20	0.23				0.11	0.02	7.11	7.67
								,				
												Harris Harris
							-		<u> </u>			

EMARKS/ VISITORS:	
Tunnel muck dumped intermittently during graveyard shift.	
	·
No tunnel muck hauled from site during graveyard shift.	
•	
No visitors to trailer during graveyard shift.	
	•
-	

SAMPLE TYPE:

TM TUNNEL MUCK

TS TUNNEL SEEP

SM# SHAFT SOIL OR MUCK FROM SITE 15, 27, OR 28

- 1. (*) UNIDENTIFIED CHROMATOGRAM PEAKS EXPRESSED IN TOLUENE EQUIVALENTS.
- 2. COMPOUNDS LESS THAN 10 PPB NOT REPORTED.
- 3. (**) INDICATES PRESENCE OF COMPOUND IN SAMPLE WHICH ELUTED IN GENERAL RANGE OF HYDROGEN SULFIDE STANDARD, BUT WAS NOT WITHIN TWO PERCENT OF THE ELUTION TIME. COMPOUND CONCENTRATION REPORTED AS AN UNKNOWN.

DAILY FIELD REPORT

PROJECT: STATE ST. - MT. HOPE TUNNEL

DATE: 24 May 1990

Rochester, New York

PAGE: 1 of 2

STV/Seelye Stevenson Value &

FILE: 7433-82

Knecht

CONTRACTOR: GCF Constructors

WEATHER: Partly cloudy, 60°

CONTRACTOR ACTIVITIES:

CLIENT:

Mined TBM tunnel from Station 85+30 to Station 85+78 (day shift). Completed mining for mainline tunnel at Station 85+78.

Hauled tunnel muck intermittently during the day shift and until approximately 1515 hrs. during the swing shift. Dumped tunnel muck on the spoil pile adjacent to Control Structure 41 intermittently during the day shift and until approximately 1540 hrs. during the swing shift. No tunnel muck was dumped during the graveyard shift.

FIELD REPRESENTATIVE ACTIVITIES:

W. Lanik (H&A) performed routine air monitoring of the tunnel ventilation exhaust from 0705 to 1438 hrs. Conducted 16 tunnel exhaust air screenings using the Photovac 10s70 gas chromatograph.

Obtained two tunnel muck samples from the spoil pile and one sample of muck excavated from the 14-ft. diameter drop structure at Site 28, and performed headspace screening using the same instrument.

Delivered routine weekly tunnel muck samples to General Testing Co. Sample TM1620(0522) was submitted for volatiles analysis, and TM2315(0522) was submitted for phenol and inorganics analysis.

Conducted headspace screening on one tunnel seep sample obtained by F. Amos (H&A) and T. Wells (H&A) at Station 83+70.

S. Parker (H&A) performed routine air monitoring of the tunnel ventilation exhaust from 1508 to 2224 hrs. Conducted 12 tunnel exhaust air screenings using the Photovac 10s70 gas chromatograph.

No tunnel muck samples were available for headspace screening during the swing shift.

P. Micciche (H&A) performed routine air monitoring of the tunnel ventilation exhaust from 2311 to 0630 hrs. Conducted 16 tunnel exhaust air screenings using the Photovac 10s70 gas chromatograph.

REPORT NO. 67

PROJECT:

STATE ST. - MT. HOPE TUNNEL

DATE: 24 May 190

Rochester, New York

PAGE: 24 May 190

CLIENT:

STV/Seelye Stevenson Value &

FILE:

7433-82

Knecht

No tunnel muck samples were available for headspace screening during the graveyard shift.

TEST DATA SUMMARY:

None of the action threshold levels for the targeted compounds referenced in the 1 March 1990 workplan (benzene, toluene, 1,2-DCE, methylene chloride, and vinyl chloride) were exceeded during the monitoring periods.

Headspace screening data are summarized on the attached Shift Data Tables.

FIELD REPRESENTATIVE	TIME ON SITE
W. Lanik	0700- 1500
	(8.0 hrs.)
S. Parker	1500-2300
	(8.0 hrs.)
P. Micciche	2300-0700
	(8.0 hrs.)

DISTRIBUTION

STV/Seelye Stevenson: Mr. Richard Richter

Mr. Suki Suresh

MCDOE: Mr. Phil Steinfeldt

H&A OF NEW YORK

<u>للمنتوبة في الفيلة وتنورة المتراسين المتراسين المتراسين المتراسين المتراسين المتراسين المتراسين المتراسين المتراسين</u>

ROJECT: STATE ST. MT. HOPE AVE TUNNEL

LIENT: STV/ SEELYE STEVENSON VALUE & KNECHT

&A REPRESENTATIVE: W. Lanik

HECKED BY: W. Lanik

TUNNEL HEADINGS AT

START: 85 + 30 END: 85 + 78

ADVANCE: 48

FILE: 7433-82

PAGE: 1 OF 2 DATE: 24 May 1990

SHIFT: Day DFR NO.: 67

TUNNEL AIR SAMPLES

APPARENT VOLATILE ORGANIC COMPOUNDS DETECTED IN PPM

	VINYL	METHYLENE CHLORIDE	1,2-DCE	BENZENE	TOLUENE	METHANE (PERCENT)	HYDROGEN SULFIDE	ETHYL BENZENE	M-XYLENE	STYRENE	UNKNOWNS"	TOTAL DETECTED
0708		_					1.37		_	0.12	0.06	1.55
0735						<u>-</u>	1.89			0.11	0.08	2.08
0805				-	_		1.19	_	_	0.14	_	1.33
0835			_				0.97	J		-	0.07	1.04
0905							1.67		_	_	0.08	1.75
0935	_			0.04	0.10		••		0.07	0.43	1.72	2.38
1005			_	0.04	0.13	_	••	_	0.08	0.46	2.00	2.71
1035					0.03	_	2.06			0.16	0.18	2.43
1115	_	_			0.05		••			0.17	0.57	0.79
1145	_	_		0.05	0.10				0.08	0.40	1.88	2.61
1217	_			0.04	0.09	_	**		0.08	0.39	1.82	2.42
1240				0.05	0.10				0.07	0.34	2.15	2.71
1310		-		0.05	0.10	_	••	_	0.08	0.35	2.04	2.62
1340		-		0.05	0.13		**		0.06		2.12	2.36
1411	_	_		-	, 0.03	_	2.42	0.30	0.18	0.27	0.17	3.37
1438			-	0.03	0.08		••	_	0.05	0.26	1.32	1.72

TUNNEL MUCK/ SHAFT/ GROUNDWATER SAMPLES

SAMPLE TYPE			TARGET COM	IPOUNDS			OTHERS							
TIME	VINYL CHLORIDE	METHYLENE CHLORIDE	1,2-DCE	BENZENE	TOLUENE	METHANE (PERCENT)	HYDROGEN SULFIDE	M-XYLENE BENZENE	STYRENE	O-XYLENE	UNKNOWNS.	TOTAL DETECTED		
SM28/1000				0.02					0.10		0.84	0.96		
TM/1030			· · · · · · · · · · · · · · · · · · ·	0.20	0.33			0.14		0.13	3.93	4.73		
TM/1230				0.19	0.30			0.13		0.03	6.37	7.02		
TS/0935			**								1.97	1.97		
TS/0935D		_	_		_	_		_		_	2.70***	2.70		
					·									

EMAR	KS/ VISITORS:
•	Tunnel muck dumped intermittently after approximately 1000 hrs. during day shift.
	Tunnel muck hauled from site Intermittently during day shift.
	F. Amos and T. Wells (H&A) visited trailer at 0900 hrs. to obtain vials for seep sampling.
	Returned at 1330 hrs. to deliver seep sample TS/0935, collected at station 83+70.
	Collected sample of muck excavated from the 14-ft. diameter drop structure at Site 28 at 1000 hrs.
	Sample obtained from stockpile adjacent to the structure. Excavation advanced to approximately 62 ft.
	below ground surface at the time of sampling.
	No samples were obtained from Sites 15 or 27 as no excavation was performed during the day shift.
	Delivered routine weekly tunnel muck sample TM 1620 (0522) to General Testing Co. for volatiles
	analysis, and TM 2315 (0522) for phenol and Inorganics analysis.

SAMPLE TYPE:

TM TUNNEL MUCK

TS TUNNEL SEEP

SM# SHAFT SOIL OR MUCK FROM SITE 15, 27, OR 28

- 1. (*) UNIDENTIFIED CHROMATOGRAM PEAKS EXPRESSED IN TOLUENE EQUIVALENTS.
- 2. COMPOUNDS LESS THAN 10 PPB NOT REPORTED.
- 3. (D) INDICATES DUPLICATE ANALYSIS.
- 4. (**) INDICATES PRESENCE OF COMPOUND IN SAMPLE WHICH ELUTED IN GENERAL RANGE OF HYDROGEN SULFIDE STANDARD, BUT WAS NOT WITHIN TWO PERCENT OF THE ELUTION TIME. COMPOUND CONCENTRATION REPORTED AS AN UNKNOWN.
- 5. (***) INDICATES IMPRECISE RESULT DUE TO OFF-SCALE CHROMATOGRAM PEAKS FOR UNKNOWN COMPOUNDS. SEE ORIGINAL ANALYSIS FOR MORE PRECISE CONCENTRATION OF UNKNOWNS.

DIM I DATA TABLE

'ROJECT: STATE ST. MT. HOPE AVE TUNNEL

CLIENT: STV/ SEELYE STEVENSON VALUE & KNECHT

I&A REPRESENTATIVE: S. Parker

CHECKED BY: W. Lanik

TUNNEL HEADINGS AT

START: 85 + 78

END: 85 + 78

ADVANCE: --

FILE: 7433-82

PAGE: 1 OF 2

DATE: 24 May 1990

SHIFT: Swing

DFR NO.: 67

TUNNEL AIR SAMPLES

APPARENT VOLATILE ORGANIC COMPOUNDS DETECTED IN PPM

TIME	TARGET COMPOUNDS OTHERS											
	VINYL CHLORIDE	METHYLENE CHLORIDE	1,2-DCE	BENZENE	TOLUENE	METHANE (PERCENT)	HYDROGEN SULFIDE	ETHYL BENZENE	M-XYLENE	STYRENE	UNKNOWNS*	TOTAL DETECTED
1508				0.03	0.07		••	_	0.08	0.12	1.41	1.71
1538					0.03		3.13	-		0.16	0.10	3.42
1606		_				-	1.66	_		_		1.66
1635			***	_			1.67	0.07		_		1.74
1705							1.28				_	1.28
1758	_						_		0.04		0.26	0.30
1840										_	0.24	0.24
1924			<u>.</u>			_	1.78	_	_		0.04	1.82
2009							1.58			_	0.12	1.68
2054	_		_		_		1.52	_	_	· —	0.06	1.58
2139							1.57	_	-			1.57
2224		-					1.76	_			0.06	1.82
Straction (

TUNNEL MUCK/ SHAFT/ GROUNDWATER SAMPLES

BAMPLE TYPE			TARGET COM	POUNDS					OTHERS	panggar Cuman		
TIME	VINYL	METHYLENE CHLORIDE	1,2-DCE	BENZENE	TOLUENE	METHANE (PERCENT)	HYDROGEN SULFIDE	ETHYL BENZENE	M-XYLENE	STYRENE	UNKNOWNS*	TOTAL DETECTED

ARKS	VISITORS:
	Tunnel muck dumped until approximately 1540 hrs. during swing shift.
	Tunnel muck hauled from site until approximately 1515 hrs. during swing shift.
	No visitors to trailer during swing shift.
	GCF foreman informed S. Parker (H&A) that mining for the mainline tunnel was completed at approximately 1509 hrs.

SAMPLE TYPE:

TM TUNNEL MUCK

TS TUNNEL SEEP

SM# SHAFT SOIL OR MUCK FROM SITE 15, 27, OR 28

- 1. (*) UNIDENTIFIED CHROMATOGRAM PEAKS EXPRESSED IN TOLUENE EQUIVALENTS.
- 2. COMPOUNDS LESS THAN 10 PPB NOT REPORTED.
- 3. (**) INDICATES PRESENCE OF COMPOUND IN SAMPLE WHICH ELUTED IN GENERAL RANGE OF HYDROGEN SULFIDE STANDARD, BUT WAS NOT WITHIN TWO PERCENT OF THE ELUTION TIME. COMPOUND CONCENTRATION REPORTED AS AN UNKNOWN.

- DITH I DATA TABLE

ROJECT: STATE ST. MT. HOPE AVE TUNNEL

LIENT: STV/ SEELYE STEVENSON VALUE & KNECHT

&A REPRESENTATIVE: P. Micciche

HECKED BY: W. Lanik

TUNNEL HEADINGS AT

START: 85 + 78

END: 85 + 78

ADVANCE: ---

FILE: 7433-82

PAGE: 1 OF 2

DATE: 24-25 May 1990

SHIFT: Graveyard DFR NO.: 67

TUNNEL AIR SAMPLES

APPARENT VOLATILE ORGANIC COMPOUNDS DETECTED IN PPM

	VINYL	METHYLENE	1,2-DCE	BENZENE	TOLUENE	METHANE (PERCENT)	HYDROGEN SULFIDE	ETHYL BENZENE	M-XYLENE	STYRENE	UNKNOWNS-	TOTAL DETECTED
2311						_	1.62		_		0.07	1,69
2338	-	_					1.68		_		0.07	1.73
0000					_		1.42				0.18	1.60
0030							1.60				0.12	1.72
0100							1.62		-		0.10	1.72
0130							1.43				0.08	1.51
D200				***			1.53			0.11 .	0.04	1.68
0230			-			_	1.41	-			0.03	1.44
0300	-		_				1.52	-	_	_	0.03	1.55
0330	-					·	1.44	-			0.02	1.46
0400					_	_	1.52	_				1.52
0430	_				-		1.40					1.40
0500		-		_			1.39	-		-	0.04	1.43
0530	_						1.32				_	1.32
0600	_	_			-		1.51					1.51
0630				_		_	1.63			·	0.05	1.68

TUNNEL MUCK/ SHAFT/ GROUNDWATER SAMPLES

SAMPLE TYPE			TARGET CON	er og i er og og bregge	0.000 to 40.4000 to 5		JUNUS DE LEC		OTHERS			
TIME	VINYL	METHYLENE CHLORIDE	1,2-DCE	BENZENE	TOLUENE	METHANE (PERCENT)	HYDROGEN SULFIDE	ETHYL BENZENE	M-XYLENE	STYRENE	UNKNOWNS*	TOTAL DETECTED
												•
												#4 () () () -##1.09 /#

(S/ VISITORS:		· 			
\wedge					
No tunnel muck dumped during graveyard shift			·		
·					
26.00	· · · · · · · · · · · · · · · · · · ·	-			
Ata Assertal except baseled forces alto desire a second	1 100				
No tunnel muck hauled from site during gravey	ard snift.		·		
			•		
No visitors to trailer during graveyard shift.		-			
tro victore to trainer coming grave years					
		······································	· · · · · · · · · · · · · · · · · · ·		

SAMPLE TYPE:

TM TUNNEL MUCK

TS TUNNEL SEEP

SM# SHAFT SOIL OR MUCK FROM SITE 15, 27, OR 28

NOTES: 1. (*) UNIDENTIFIED CHROMATOGRAM PEAKS EXPRESSED IN TOLUENE EQUIVALENTS.
2. COMPOUNDS LESS THAN 10 PPB NOT REPORTED.

DAILY FIELD REPORT

PROJECT:

STATE ST. - MT. HOPE TUNNEL

DATE: 25 May 1990

Rochester, New York

1 of 1

CLIENT:

STV/Seelye Stevenson Value &

FILE:

7433-82

CONTRACTOR:

GCF Constructors

Knecht

WEATHER:

Sunny, 70°

CONTRACTOR ACTIVITIES:

Continued site work for surface structures at Sites 15, 27, and 28.

FIELD REPRESENTATIVE ACTIVITIES:

W. Lanik (H&A) performed routine air monitoring of the tunnel ventilation exhaust from 0935 to 1111 hrs. Conducted four tunnel exhaust air screenings using the Photovac 10s70 gas chromatograph.

Obtained one sample of muck excavated from the 14-ft. diameter drop structure at Site 28, and performed headspace screening using the same instrument.

TEST DATA SUMMARY:

None of the action threshold levels for the targeted compounds referenced in the 1 March 1990 workplan (benzene, toluene, 1,2-DCE, methylene chloride, and vinyl chloride) were exceeded during the monitoring periods.

Headspace screening data are summarized on the attached Shift Data Tables.

FIELD REPRESENTATIVE

W. Lanik

TIME ON SITE

0700-1145 (4.75 hrs.)

DISTRIBUTION

STV/Seelye Stevenson: Mr. Richard Richter

Mr. Suki Suresh

MCDOE: Mr. Phil Steinfeldt

HEA OF NEW

H & A OF NEW YORK ROCHESTER, NEW YORK

OLIII | DATA TABLE

ROJECT: STATE ST. MT. HOPE AVE TUNNEL

LIENT: STV/ SEELYE STEVENSON VALUE & KNECHT

&A REPRESENTATIVE: W. Lanik

HECKED BY: W. Lanik

ik

TUNNEL HEADINGS AT

START: ---

END: ---

ADVANCE: --

FILE: 7433-82

PAGE: 1 OF 2

DATE: 25 May 1990

SHIFT: Day DFR NO.: 68

TUNNEL AIR SAMPLES

APPARENT VOLATILE ORGANIC COMPOUNDS DETECTED IN PPM

TIME	efficie Wed		TARGET COM	APOUNDS	T	26-52-53-53-53			OTHERS	00000000000000000000000000000000000000		A through the field of the con-
	VINYL	METHYLENE	1,2-DCE	BENZENE	TOLUENE	METHANE (PERCENT)	HYDROGEN SULFIDE	ETHYL BENZENE	M-XYLENE	STYRENE	UNKNOWNS*	TOTAL DETECTED
0935			_	_	0.03	_	0.74			_	0.10	0.87
1011					0.03		0.83				0.11	0.97
1041					0.03		0.86		-		0.10	0.99
1111				<u> </u>	0.03		1.24				0.16	1.43
												388 et 1, 3
		-			-							
									,			
									<u> </u>			
	•											
		 		1	†	 	1	1	1			

TUNNEL MUCK/ SHAFT/ GROUNDWATER SAMPLES

SAMPLETYPE			TARGET COM	IPOUNDS					OTHERS			
TIME	VINYL	METHYLENE CHLORIDE	1,2-DCE	BENZENE	TOLUENE	METHANE (PERCENT)	HYDROGEN SULFIDE	ETHYL BENZENE	M-XYLENE	STYRENE	UNKNOWNS*	TOTAL DETECTED
SM28/0840						_				0.01	0.18	0.19
	, , , , , , , , , , , , , , , , , , ,											

REMARKS/ VISITORS:
No tunnel muck dumped during day shift.
The terminal mean configuration of the second configuratio
No tunnel muck hauled from site during day shift.
No visitors to trailer during day shift.
•
Fishers the short off at an annual model. 1115 has
Exhaust fan shut off at approximately 1115 hrs.
Collected sample of muck excavated from the 14-ft. diameter drop structure at Site 28 at 0840 hrs.
Sample obtained from stockpile adjacent to the structure. Excavation advanced to approximately 62 ft.
below ground surface at the time of sampling.
No samples were obtained from Sites 15 or 27 as no excavation was performed during the day shift.
reo dampide more obtained from execute of 27 de no obtained mad perfermed coming the day exists
ABBREVIATIONS: SAMPLE TYPE:
TM TUNNEL MUCK

TS TUNNEL SEEP

SM# SHAFT SOIL OR MUCK FROM SITE 15, 27, OR 28

- 1. (*) UNIDENTIFIED CHROMATOGRAM PEAKS EXPRESSED IN TOLUENE EQUIVALENTS.
- 2. COMPOUNDS LESS THAN 10 PPB NOT REPORTED.