

December 12, 1996

Glen May
NYS Dept. of Environmental Conservation
270 Michigan Ave.
Buffalo, NY 14203-2999

Dear Mr. May:

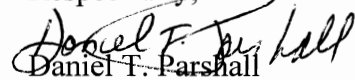
Attached find the analytical results of the groundwater samples taken on November 13, 1996, for our three inactive landfill sites following the requested reporting format.

Analytical results continue to confirm that closure of the three inactive landfills have effectively eliminated the migration of contaminants.

Would appreciate a copy of the analyticals from your laboratory, run on the split samples taken on May 30th.

Should any further information be required, call me at 879-8536.

Respectfully,



Daniel T. Parshall
Energy/Environmental Eng.

CC: M. Kaczynski
D. Pyanowski

DUNLOP TIRE

**ENVIRONMENTAL MONITORING OF INACTIVE
WASTE SITES 915018 A, B, AND C
FALL, 1996**

Prepared By:



"A Company Dedicated to Honesty, Quality and Service"

December 5, 1996
REF: GMU63J7/c

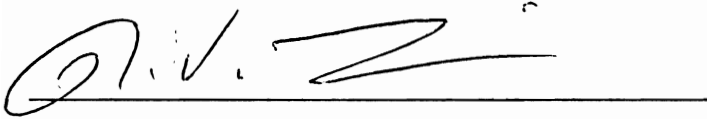
COMMENT

Dunlop Tire
Environmental Monitoring of Inactive
Waste Sites 915018 A, B, and C
December 5, 1996
GMU 63J7

The measurement of turbidity was inadvertently omitted during sampling. However, based on visual inspection by the Senior Field Technician, it is believed that all wells would have exhibited turbidity levels well below 50 NTU.

QA/QC VERIFICATION FOR PROJECT ID 63J7

The following report, as well as the supporting data, have been carefully reviewed for accuracy, adherence to the cited methods, and completeness. All data contained in this report was generated in accordance with the AES Laboratory Quality Assurance/Quality Control Program.



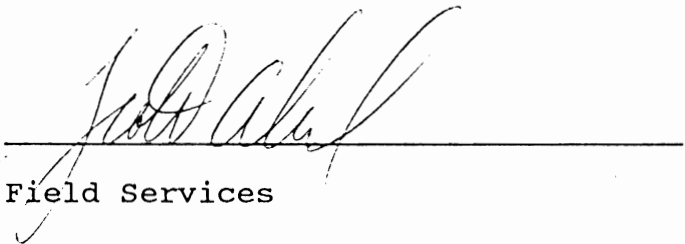
Metals Department



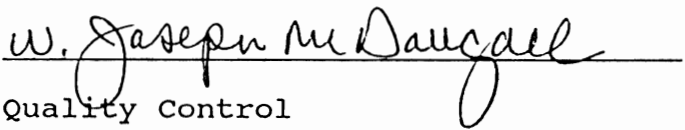
Inorganic Chemistry



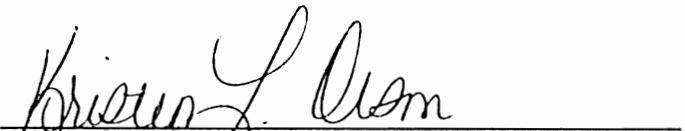
Organic Chemistry



Field Services



Quality Control



Project Manager

All 'Total' results on soil matrices are calculated on a dry weight basis, unless otherwise noted. Analyses noted as 'Performed in the laboratory' require immediate testing and should be performed in the field.

The following are standard abbreviations:

BQL - Below Quantifiable Limits
ND - None Detected
NG - No Growth of Colonies
NR - Not Requested
D - Indicates a dilution was required

Advanced Environmental Services, Inc.

2186 Liberty Drive
Niagara Falls, New York 14304
(716) 283-3120

QUARTERLY GROUNDWATER MONITORING - FIELD PARAMETER INFORMATION

November 12, 1996 thru November 13, 1996

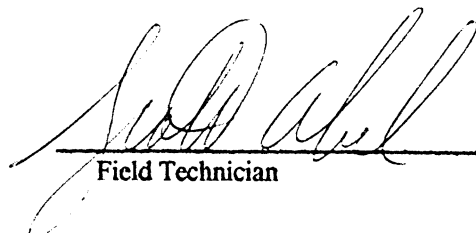
Dunlop Tire

Tonawanda, New York

AES Code: GMU

Project I.D. # 63J7

Monitoring Well Identification	Sampling Date	Sampling Time	Sampling Elevation (feet)	Appearance/Observations
C - 1	11/13/96	10:15 AM	11.05	Clear, no odor
C - 5	11/13/96	10:40 AM	21.99	Clear, no odor
C - 7	11/13/96	10:05 AM	16.78	Clear, no odor
OMW - A4	11/13/96	11:10 AM	19.42	Clear, no odor
OMW - A6	11/13/96	10:50 AM	16.90	Clear, no odor
OMW - B3	11/13/96	11:00 AM	11.91	Slightly Tan
OMW - B4	11/13/96	11:25 AM	16.33	Clear, no odor


Field Technician 12-4-96
Date

Advanced Environmental Services, Inc.

2186 Liberty Drive
Niagara Falls, New York 14304
(716) 283-3120

QUARTERLY GROUNDWATER MONITORING - FIELD PARAMETER INFORMATION

November 12, 1996 thru November 13, 1996

Dunlop Tire

Tonawanda, New York

AES Code: GMU

Project I.D. # 63J7

Monitoring Well I.D.	Evacuation Date	Monitoring Well Diameter	Water Level (ft.)	Bottom of Well (ft.)	Volume of Standing Water (gallons)	Volume of Evacuated Water (gallons)	Recharge Rate
C - 1	11/12/96	2	3.24	19.52	2.66	6.0 (DRY)	S
C - 5	11/12/96	2	5.32	29.32	3.92	12.00	R
C - 7	11/12/96	2	5.50	23.26	2.90	5.5 (DRY)	S
OMW - A4	11/12/96	2	7.54	25.42	2.92	6.0 (Dry)	S
OMW - A6	11/12/96	2	6.34	23.05	2.73	7.5 (Dry)	S
OMW - B3	11/12/96	2	5.52	16.96	1.87	5.0 (Dry)	S
OMW - B4	11/12/96	2	4.12	22.25	2.96	4.5 (DRY)	S

Abbreviations:

VS = Very Slow ----- Recharge Rate longer than 24 hr period.

S = Slow ----- Recharge Rate within 24 hr period.

R = Rapid ----- Recharge Rate within 1 hr period.

C = Continuous ---- Recharge Rate immediate.


Field Technician

12-4-96
Date

Table 1
Summary of Groundwater Analytical Results - Detected Compounds
(All results in ug/L)

Parameter	ARAR + (ppb)	Action * Level	OMW-A6 (UPGRADIENT)						
			5/30/91 **	4/28/95	10/4/95	05/01/96	11/13/96		
1,1-Dichloroethene	5		5						
1,1-Dichloroethane	5		17						
1,2-Dichloroethene (Total)	5								
Chloroform	100		0.6J						
1,1,1-Trichloroethane	5		80						
Benzene	0.7								
2-Butanone	N								
Acenaphthene	20G								
Fluorene	50								
Phenanthrene	50								
Anthracene	50								
Dibenzofuran	50								
Total Phenols	1			8	12	U	U		
4,4'-DDE	ND								
Arsenic	25								
Cadmium	10								
Chromium	50			2.3B	1.4B				
Lead	25		25	3.9	4.4J				

+ NYSDEC Ambient Water Quality Standards and Guidance Values, September 1990.

* Action levels are from the Long Term Monitoring Plan dated July 1994.

** Results from former upgradient monitoring well OMW-A3

G Guidance value.

J Indicates the value is less than the sample quantification limit but greater than zero.

B Indicates the value is less than the quantification limit but greater than or equal to the instrument detection limit.

U Indicates the value is not detected.

Table 1
Summary of Groundwater Analytical Results - Detected Compounds
(All results in ug/L)

Parameter	ARAR + (ppb)	Action * Level	OMW-C1(UPGRADIENT)					
			05/29/91	04/28/95	10/04/95	05/01/96	11/13/96	
1,1-Dichloroethene	5							
1,1-Dichloroethane	5							
1,2-Dichloroethene (Total)	5							
Chloroform	100							
1,1,1-Trichloroethane	5							
Benzene	0.7							
2-Butanone	N							
Acenaphthene	20G							
Fluorene	50							
Pnenanthrene	50							
Anthracene	50							
Dibenzofuran	50							
Total Phenols	1			15	U	U		
4,4'-DDE	ND							
Arsenic	25							
Cadmium	10							
Chromium	50		6.6B	2.1B				
Lead	25		14					

+ NYSDEC Ambient Water Quality Standards and Guidance Values, September 1990.

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** Results from former upgradient monitoring well OMW-A3

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U Indicates the value is not detected.

Table 1
Summary of Groundwater Analytical Results - Detected Compounds
(All results in ug/L)

Parameter	ARAR + (ppb)	Action * Level	OMW-C7			
			05/01/96	11/13/96		
1,1-Dichloroethene	5					
1,1-Dichloroethane	5		U	U		
1,2-Dichloroethene (Total)	5		U	U		
Chloroform	100					
1,1,1-Trichloroethane	5		U	U		
Benzene	0.7		U	U		
2-Butanone	N		U	U		
Acenaphthene	20G					
Fluorene	50					
Pnenanthrene	50					
Anthracene	50					
Dibenzofuran	50					
Total Phenols	1		U	U		
4,4'-DDE	ND					
Arsenic	25		U	U		
Cadmium	10		U	U		
Chromium	50		30	U		
Lead	25		U	U		

* NYSDEC Ambient Water Quality Standards and Guidance Values, September 1990.
 + Action levels are from the Long Term Monitoring Plan dated July 1994.
 ** Results from former upgradient monitoring well OMW-A3
 G Guidance value.
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 U Indicates the value is not detected.

Table 1
Summary of Groundwater Analytical Results - Detected Compounds
(All results in ug/L)

Parameter	ARAR + (ppb)	Action * Level	OMW-C5					
			05/01/96	11/13/96				
1,1-Dichloroethene	5							
1,1-Dichloroethane	5		U	U				
1,2-Dichloroethene (Total)	5		U	U				
Chloroform	100							
1,1,1-Trichloroethane	5		U	U				
Benzene	0.7		U	U				
2-Butanone	N		U	U				
Acenaphthene	20G							
Fluorene	50							
Pnenanthrene	50							
Anthracene	50							
Dibenzofuran	50							
Total Phenols	1		U	0.004				
4,4'-DDE	ND							
Arsenic	25		U	U				
Cadmium	10		U	U				
Chromium	50		20	U				
Lead	25		U	U				

+ NYSDEC Ambient Water Quality Standards and Guidance Values, September 1990.

* Action levels are from the Long Term Monitoring Plan dated July 1994.

** Results from former upgradient monitoring well OMW-A3

G Guidance value.

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U Indicates the value is not detected.

Table 1
Summary of Groundwater Analytical Results - Detected Compounds
(All results in ug/L)

Parameter	ARAR + (ppb)	Action * Level	OMW-A4 (DOWNGRADIANT)						
			5/30/91 **	4/28/95	10/4/95	5/1/96	11/13/96		
1,1-Dichloroethene	5								
1,1-Dichloroethane	5					U	U		
1,2-Dichloroethene (Total)	5					U	U		
Chloroform	100								
1,1,1-Trichloroethane	5					U	U		
Benzene	0.7					U	U		
2-Butanone	N					U	U		
Acenaphthene	20G								
Fluorene	50								
Phenanthrene	50								
Anthracene	50								
Dibenzofuran	50								
Total Phenols	1			19		U	U		
4,4'-DDE	ND								
Arsenic	25		69			U	U		
Cadmium	10		330			22	U		
Chromium	50		365	4.1B		20	U		
Lead	25		46			U	U		

+ NYSDEC Ambient Water Quality Standards and Guidance Values, September 1990.

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** Results from former upgradient monitoring well OMW-A3

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B Indicates the value is less than the quantification limit but greater than or equal to the instrument detection limit.

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Table 1
Summary of Groundwater Analytical Results - Detected Compounds
(All results in ug/L)

Parameter	ARAR + (ppb)	Action * Level	OMW-B4 (DOWNGRADIENT)					
			5/29/91 **	4/28/95	10/4/95	5/1/96	11/13/96	
1,1-Dichloroethene	5							
1,1-Dichloroethane	5	5				U	U	
1,2-Dichloroethene (Total)	5	5				U	U	
Chloroform	100							
1,1,1-Trichloroethane	5	5				U	U	
Benzene	0.7	2	1			U	U	
2-Butanone	N					U	U	
Acenaphthene	20G							
Fluorene	50							
Pnenanthrene	50							
Anthracene	50							
Dibenzofuran	50							
Total Phenols	1	1			8	U	U	
4,4'-DDE	ND							
Arsenic	25	25				U	U	
Cadmium	10	28	14			U	U	
Chromium	50	178	89		1.1B	20	U	
Lead	25	52	26			U	U	

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Table 1
Summary of Groundwater Analytical Results - Detected Compounds
(All results in ug/L)

Parameter	ARAR + (ppb)	Action * Level	OMW-B3 (DOWNGRADIANT)						
			05/29/91	05/16/95	10/04/95	05/01/96	11/13/96		
1,1-Dichloroethene	5					U			
1,1-Dichloroethane	5					U	U		
1,2-Dichloroethene (Total)	5					U	U		
Chloroform	100					U			
1,1,1-Trichloroethane	5					U	U		
Benzene	0.7					U	U		
2-Butanone	N					U	U		
Acenaphthene	20G		2J	3J	2J				
Fluorene	50			2J	1J				
Phenanthrene	50			3J	0.3J				
Anthracene	50			0.7J	0.2J				
Dibenzofuran	50			1J	0.6J				
Total Phenols	1			5	17	U	0.004		
4,4'-DDE	ND		0.12J						
Arsenic	25		7B	2.2B	8.1B	6	0.010		
Cadmium	10					U	U		
Chromium	50			1.6B	5B	U	U		
Lead	25		16	3.1	15.3J	U	U		

+ NYSDEC Ambient Water Quality Standards and Guidance Values, September 1990.

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** Results from former upgradient monitoring well OMW-A3

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B Indicates the value is less than the quantification limit but greater than or equal to the instrument detection limit.

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Table 1
Summary of Groundwater Analytical Results - Detected Compounds
(All results in ug/L)

Parameter	ARAR + (ppb)	Action * Level	Blind Duplicate					
			05/01/96	11/13/96				
1,1-Dichloroethene	5							
1,1-Dichloroethane	5		U	U				
1,2-Dichloroethene (Total)	5		U	U				
Chloroform	100							
1,1,1-Trichloroethane	5		U	U				
Benzene	0.7		U	U				
2-Butanone	N		U	U				
Acenaphthene	20G							
Fluorene	50							
Pnenanthrene	50							
Anthracene	50							
Dibenzofuran	50							
Total Phenols	1		U	U				
4,4'-DDE	ND							
Arsenic	25		U	0.090				
Cadmium	10		U	0.006				
Chromium	50		40	U				
Lead	25		U	0.008				

+ NYSDEC Ambient Water Quality Standards and Guidance Values, September 1990.

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** Results from former upgradient monitoring well OMW-A3

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B Indicates the value is less than the quantification limit but greater than or equal to the instrument detection limit.

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Table 1
Summary of Groundwater Analytical Results - Detected Compounds
(All results in ug/L)

Parameter	ARAR + (ppb)	Action * Level	Trip Blank	
			05/01/96	11/13/96
1,1-Dichloroethene	5			
1,1-Dichloroethane	5		U	U
1,2-Dichloroethene (Total)	5		U	U
Chloroform	100			
1,1,1-Trichloroethane	5		U	U
Benzene	0.7		U	U
2-Butanone	N		U	U
Acenaphthene	20G			
Fluorene	50			
Phenanthrene	50			
Anthracene	50			
Dibenzofuran	50			
Total Phenols	1			
4,4'-DDE	ND			
Arsenic	25			
Cadmium	10			
Chromium	50			
Lead	25			

+ NYSDEC Ambient Water Quality Standards and Guidance Values, September 1990.

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** Results from former upgradient monitoring well OMW-A3

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Table 1
Summary of Groundwater Analytical Results - Detected Compounds
(All results in ug/L)

Parameter	ARAR + (ppb)	Action * Level	Method Blank			
			05/01/96	11/13/96		
1,1-Dichloroethene	5					
1,1-Dichloroethane	5		U	U		
1,2-Dichloroethene (Total)	5		U	U		
Chloroform	100		U			
1,1,1-Trichloroethane	5		U	U		
Benzene	0.7		U	U		
2-Butanone	N		U	U		
Acenaphthene	20G					
Fluorene	50					
Phenanthrene	50					
Anthracene	50					
Dibenzofuran	50					
Total Phenols	1		U	U		
4,4'-DDE	ND					
Arsenic	25		U	U		
Cadmium	10		U	U		
Chromium	50		U	U		
Lead	25		U	U		

+ NYSDEC Ambient Water Quality Standards and Guidance Values, September 1990.

* Action levels are from the Long Term Monitoring Plan dated July 1994.

** Results from former upgradient monitoring well OMW-A3

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U Indicates the value is not detected.

Advanced Environmental Services, Inc.
Sample Traceability Report

Project Identification GMU 63J7

Sample #	Sample Collection	Group #	Run #	Prep Method	Prep Date	Analyst	Analytical Methodology	Analysis Date	Analyst
63J7-3	11-13-76			—	—	—	8240	11-25-96	MU
-4				—	—	—			
-5				—	—	—			
-6				—	—	—			
-7				—	—	—			
-8				—	—	—			
-9				—	—	—			

Please note: Areas marked by a dash indicate that no sample preparation is required under the applied methodology.

Advanced Environmental Services, Inc.
 Sample Traceability Report

Project Identification GMU 6357

Sample #	Sample Collection	Group #	Run #	Prep Method	Prep Date	Analyst	Analytical Methodology	Analysis Date	Analyst
63573-3	11/17/96	-	-	9.2	11/19/96	JK	200.7	11/21/96	MA
		-	-	206.2	11/15/96	JK	206.2	11/15/96	JK
		-	-	4.1.3	11/18/96	JK	239.2	11/19/96	JK

Please note: Areas marked by a dash indicate that no sample preparation is required under the applied methodology.



ENVIRONMENTAL SERVICES, INC.
2186 LIBERTY DRIVE
NIAGARA FALLS, NEW YORK 14304

(716) 283-3120
(800) 791-3120
FAX (716) 283-4727

CHAIN OF CUSTODY RECORD

PROJECT I.D. #: 6357
JOB CODE: GMU

PROJECT NAME: Dunlop Tire Wells
SAMPLER'S SIGNATURE: [Signature]

CONTAINER CLASSIFICATION	
UNPRESERVED	VIAL (PRES.)
HNO ₃ , HCL	VIAL (UNPRES.)
	TOTAL

DATE	TIME	SAMPLE IDENTIFICATION	GRAB COMP	SAMPLE TYPE	HNO ₃ , HCL	NACH	VIAL (PRES.)	VIAL (UNPRES.)	TOTAL	PARAMETERS/REMARKS
11-13-96	10:05am	C7	✓	Ground H ₂ O	1		3	5	5	METALS, PHENOLS, VOLATILES
"	10:40am	C5	✓	" "	1		3	5	5	
"	11:25am	B4	✓	" "	1		3	5	5	
"	11:00am	B3	✓	" "	1		3	5	5	
"	10:10am	A4	✓	" "	1		3	5	5	
"		Blind Dup.	✓	" "	1		3	5	5	
11-13-96	10:15am	C1	✓	Ground H ₂ O	1		1	1	1	PHENOLS
"	10:50am	A6	✓	" "	1		1	1	1	
11-13-96	9:00am	Trip Blanks	✓	DI H ₂ O			2	2	2	VOLATILES

TOTAL NUMBER OF CONTAINERS: ~~34~~ 34

NOTE: Please indicate required analysis, and whom we may contact with questions, if you have not yet done so through your customer service representative.

1. RELINQUISHED BY: <u>[Signature]</u>	DATE: <u>11-13-96</u>	TIME: <u>11:55am</u>	RECEIVED BY: <u>[Signature]</u>
2. RELINQUISHED BY: _____	DATE: _____	TIME: _____	RECEIVED BY: _____
3. RELINQUISHED BY: _____	DATE: _____	TIME: _____	RECEIVED BY: _____