



DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS
AN AFFILIATE OF DAY ENGINEERING, P.C.

August 4, 2008

Mr. Brian Sadowski
New York State Department of Environmental Conservation
270 Michigan Avenue
Buffalo, New York 14203

Re: Long Term Monitoring
Strippit, Inc.
Akron, New York
NYSDEC Site ID: 9-15-053

Dear Mr. Sadowski:

This letter summarizes the findings of a site visit conducted at the above-referenced property (Site) by Day Environmental, Inc. (DAY) on July 14, 2008.

GROUNDWATER ELEVATIONS

The depth to groundwater was measured in each monitoring well using an electronic tape water level meter. The groundwater depths/elevations measured on July 14, 2008 are presented in the following table:

Well Identification	Top of Casing Elevation (ft.)	Groundwater Depth (ft.)	Groundwater Elevation (ft.)
GW-1	754.32	41.90	712.42
GW-2	770.62	52.42	718.20
GW-3	742.59	34.01	708.58
GW-4	752.24	37.78	714.46
GW-5	771.26	52.88	718.38

A groundwater contour map developed for the July 14, 2008 monitoring event is attached as Figure 1. As shown, groundwater flow at the Site is generally to the north and northwest. This flow direction is consistent with the direction determined during previous monitoring events. Based upon the groundwater flow direction, monitoring wells GW-2 and GW-5 are located in hydraulically upgradient positions and monitoring wells GW-1, GW-3 and GW-4 are located in hydraulically downgradient positions relative to the former disposal area.

FIELD SCREENING

In conjunction with the groundwater level measurements, groundwater samples were collected and tested in the field for pH, specific conductivity, turbidity and oxygen reduction potential (ORP) using a Horiba U-22 water quality meter. The field measurements are included on the monitoring well sampling logs included in Attachment A. The field monitoring results of the four most recent monitoring events are presented in the following table.

Monitoring Well	Date	pH (s. u.)	Specific Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)
GW-1	9-25-2007	10.71	1.48	210.4	39
GW-1	12-28-2007	10.68	NM	NM	NM
GW-1	4-23-2008	10.37	1.38	115.3	44
GW-1	7-14-2008	10.56	1.07	34.4	84
GW-2	9-25-2007	10.68	1.46	112.8	44
GW-2	12-28-2007	10.53	NM	NM	NM
GW-2	4-23-2008	10.49	0.547	108.5	37
GW-2	7-14-2008	10.59	1.002	65.7	67
GW-3	9-25-2007	6.71	0.998	10.1	40
GW-3	12-28-2007	6.42	NM	NM	NM
GW-3	4-23-2008	6.93	0.645	13.1	42
GW-3	7-14-2008	6.93	0.884	25.9	122
GW-4	9-25-2007	10.19	1.08	113.7	98
GW-4	12-28-2007	10.03	NM	NM	NM
GW-4	4-23-2008	9.87	0.563	128.2	83
GW-4	7-14-2008	7.81	0.494	42.2	77
GW-5	9-25-2007	9.43	0.961	109.2	87
GW-5	12-28-2007	9.46	NM	NM	NM
GW-5	4-23-2008	9.38	0.584	123.0	61
GW-5	7-14-2008	9.38	0.742	128.0	106

As shown, during the past four monitoring events pH levels in samples collected from monitoring wells GW-1, GW-2 and GW-5 have been relatively consistent and elevated. The pH levels in samples from monitoring well GW-3 have been relatively consistent and near neutral. The pH levels in samples from GW-4 have been decreasing from over 10 standard units to less than 8 standard units. The concentrations measured for the other parameters do not consistently exhibit similar trends. Although, during the past four monitoring events, it appears that the highest pH reading measured in a particular monitoring well generally correlates to the highest specific conductivity and turbidity readings measured in that monitoring well. In addition, during the past four monitoring events, a decreasing trend in specific conductivity levels was observed in samples collected from monitoring well GW-4 (i.e., similarly to the trend in pH levels).

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SITE VISIT

A copy of a report summarizing the site visit conducted to assess the condition of the IRM closure area completed on July 14, 2008 is included as Attachment B. As shown, no apparent deficiencies to the closure area or monitoring system were noted during the site visit. Action items requiring immediate attention were not identified, although some repairs should be made to select monitoring wells before the winter.

The next scheduled monitoring event at the Site is scheduled for on or about October 20, 2008. During this upcoming event, samples will be collected for analytical laboratory testing.

Please contact DAY if there are any questions or additional information is required.

Very truly yours,
Day Environmental, Inc.



Raymond L. Kampff
Associate

RLK/mkd

Figure 1: Groundwater Potentiometric Map for July 14, 2008

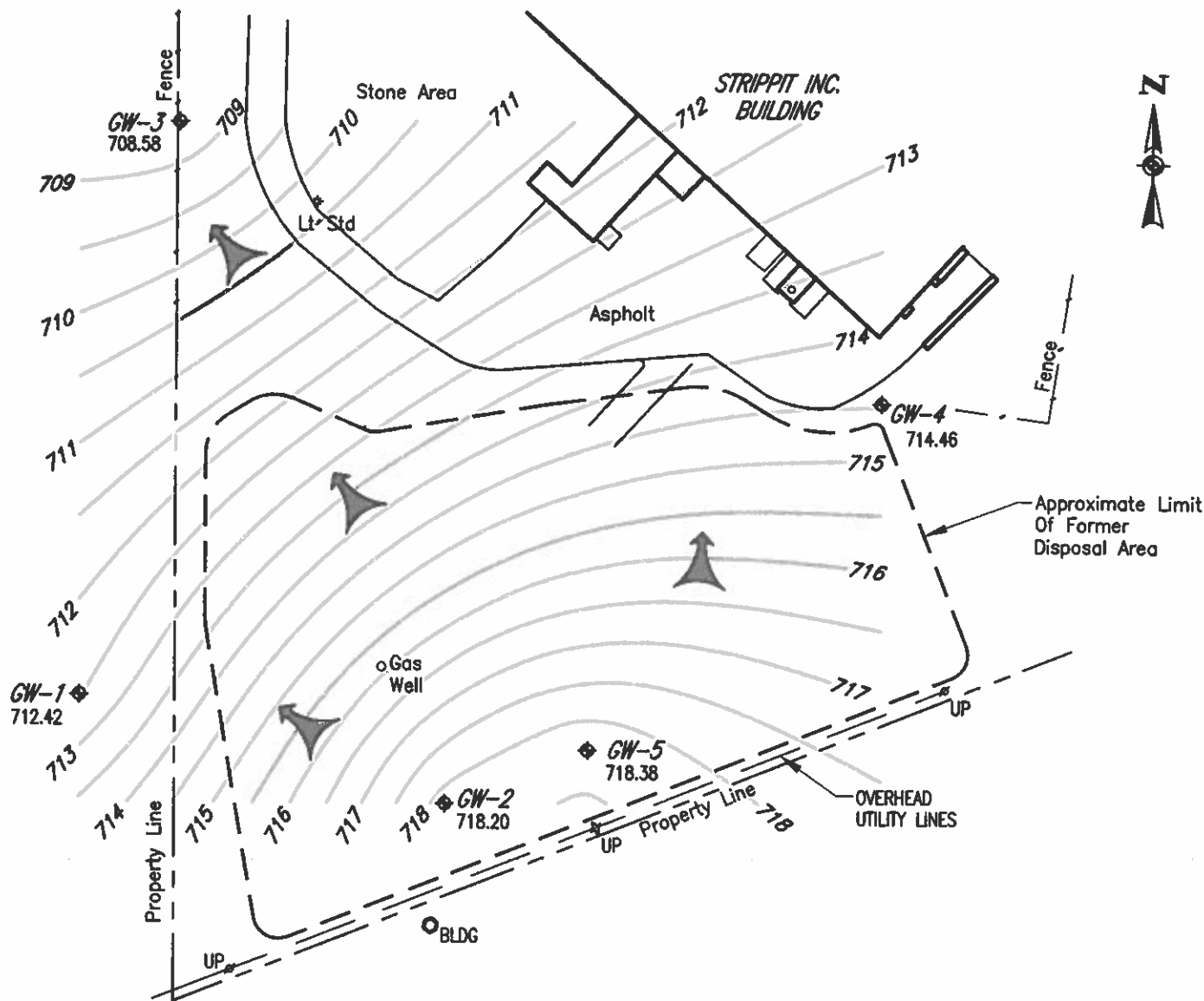
Attachment A: Monitoring Well Sampling Logs

Attachment B: Site Visit Monitoring Report for July 14, 2008

cc: Mr. Raymond A. Chojnowski

Figure

Figure 1: A diagram illustrating the relationship between the variables x , y , and z . The diagram shows a set of three axes originating from a common point. The horizontal axis is labeled x , the vertical axis is labeled y , and the diagonal axis is labeled z . The axes are represented by lines with arrows at their ends. The x and y axes are perpendicular to each other, and the z axis is perpendicular to the plane defined by the x and y axes.



NOTES:

1. This drawing produced from a drawing provided by Deborah A. Naybor, PLS, PC. entitled "Topographic Map Of Part Of Lot 5, TWP. 12, Range 5, Section 6, Town Of Newstead, County Of Erie, New York" dated 3/4/93 & revised 3/26/93.
2. No boundary survey was performed by Deborah A. Naybor, PLS, PC.

LEGEND

GW-1 ◆
 712.42

Groundwater Monitoring Well With Groundwater Elevation Obtained On July 14, 2008.

————— Potentiometric Contour Line For July 14, 2008
 Created By Golden Software Inc., Surfer8 Program



Apparent Direction Of Groundwater Flow

DATE
7-30-2008

DRAWN BY
RJM

SCALE
1" = 100'

day

DAY ENVIRONMENTAL, INC.
 ENVIRONMENTAL CONSULTANTS
 ROCHESTER, NEW YORK 14614-1008
 NEW YORK, NEW YORK 10165-1617

PROJECT TITLE
 STRIPPIT, INC.
 AKRON, NEW YORK

GROUNDWATER MONITORING

DRAWING TITLE

Groundwater Potentiometric Contour Map For July 14, 2008

PROJECT NO.
 1863R-99

FIGURE 1

Attachment A

**DAY ENVIRONMENTAL, INC.
MONITORING WELL SAMPLING LOG**

WELL GW-1

SECTION 1 - SITE INFORMATION

SITE LOCATION: 12975 Clarence Center Road, Akron, NY **JOB #:** 1863R-99

PROJECT NAME: Strippit **DATE:** 7-14-08

SAMPLE COLLECTOR(S): M. Dickinson

WEATHER CONDITIONS: 90° F, sunny

SECTION 2 - PURGE INFORMATION

DEPTH OF WELL [FT]: 58.44 (MEASURED FROM TOP OF CASING - T.O.C.)

STATIC WATER LEVEL (SWL) [FT]: 41.90 (MEASURED FROM T.O.C.)

THICKNESS OF WATER COLUMN [FT]: 16.54 (DEPTH OF WELL - SWL)

CALCULATED VOL. OF H₂O PER WELL CASING [GAL]: ~2.7 **CASING DIA.:** 2"

CALCULATIONS:

CASING DIA. (FT)

WELL CONSTANT (GAL/FT)

CALCULATIONS

¾" (0.0625)	0.023
1" (0.0833)	0.041
1¼" (0.1041)	0.063
2" (0.1667)	<u>0.1632</u>
3" (0.250)	0.380
4" (0.3333)	0.6528
4½" (0.375)	0.826
6" (0.5000)	1.4688
8" (0.666)	2.611

VOL. OF H₂O IN CASING = DEPTH OF WATER COLUMN X WELL CONSTANT

CALCULATED PURGE VOLUME [GAL]: ~8.0 (3 TIMES CASING VOLUME)

ACTUAL VOLUME PURGED [GAL]: ~8.0

PURGE METHOD: 3' Disposable Bailer **PURGE START:** 12:20 **END:** 12:55

SECTION 4 - WATER QUALITY DATA

SWL (FT)	TEMP (°C)	pH	CONDUCTIVITY (mS/cm)	TURBIDITY (NTU)	DO (mg/L)	ORP (mV)	VISUAL
41.90	13.7	10.56	1.07	34.4		84	Clear

**DAY ENVIRONMENTAL, INC.
MONITORING WELL SAMPLING LOG**

WELL GW-2

SECTION 1 - SITE INFORMATION

SITE LOCATION: 12975 Clarence Center Road, Akron, NY **JOB #:** 1863R-99

PROJECT NAME: Strippit **DATE:** 7-14-08

SAMPLE COLLECTOR(S): M. Dickinson

WEATHER CONDITIONS: 90° F, sunny

SECTION 2 - PURGE INFORMATION

DEPTH OF WELL [FT]: 78.60 (MEASURED FROM TOP OF CASING - T.O.C.)

STATIC WATER LEVEL (SWL) [FT]: 5242 (MEASURED FROM T.O.C.)

THICKNESS OF WATER COLUMN [FT]: 26.18 (DEPTH OF WELL - SWL)

CALCULATED VOL. OF H₂O PER WELL CASING [GAL]: ~4.3 **CASING DIA.:** 2"

CALCULATIONS:

<u>CASING DIA. (FT)</u>	<u>WELL CONSTANT(GAL/FT)</u>	<u>CALCULATIONS</u>
3/4" (0.0625)	0.023	VOL. OF H ₂ O IN CASING = DEPTH OF WATER COLUMN X WELL CONSTANT
1" (0.0833)	0.041	
1 1/4" (0.1041)	0.063	
2" (0.1667)	0.1632	
3" (0.250)	0.380	
4" (0.3333)	0.6528	
4 1/2" (0.375)	0.826	
6" (0.5000)	1.4688	
8" (0.666)	2.611	

CALCULATED PURGE VOLUME [GAL]: ~ 12.50 (3 TIMES CASING VOLUME)

ACTUAL VOLUME PURGED [GAL]: ~ 12.50

PURGE METHOD: 3' Disposable Bailer **PURGE START:** 13:05 **END:** 13:50

SECTION 4 - WATER QUALITY DATA

SWL (FT)	TEMP (°C)	pH	CONDUCTIVITY (mS/cm)	TURBIDITY (NTU)	DO (mg/L)	ORP (mV)	VISUAL
52.42	13.9	10.49	1.002	65.7		67	Clear

**DAY ENVIRONMENTAL, INC.
MONITORING WELL SAMPLING LOG**

WELL GW-3

SECTION 1 - SITE INFORMATION

SITE LOCATION: 12975 Clarence Center Road, Akron, NY **JOB #:** 1863R-99
PROJECT NAME: Strippit **DATE:** 7-14-08
SAMPLE COLLECTOR(S): M. Dickinson
WEATHER CONDITIONS: 90° F, sunny

SECTION 2 - PURGE INFORMATION

DEPTH OF WELL [FT]: 50.00 (MEASURED FROM TOP OF CASING - T.O.C.)
STATIC WATER LEVEL (SWL) [FT]: 34.01 (MEASURED FROM T.O.C.)
THICKNESS OF WATER COLUMN [FT]: 15.99 (DEPTH OF WELL - SWL)
CALCULATED VOL. OF H₂O PER WELL CASING [GAL]: ~2.6 **CASING DIA.:** 2"

CALCULATIONS:

<u>CASING DIA. (FT)</u>	<u>WELL CONSTANT(GAL/FT)</u>	<u>CALCULATIONS</u>
3/4" (0.0625)	0.023	VOL. OF H ₂ O IN CASING = DEPTH OF WATER COLUMN X WELL CONSTANT
1" (0.0833)	0.041	
1 1/4" (0.1041)	0.063	
2" (0.1667)	0.1632	
3" (0.250)	0.380	
4" (0.3333)	0.6528	
4 1/2" (0.375)	0.826	
6" (0.5000)	1.4688	
8" (0.666)	2.611	

CALCULATED PURGE VOLUME [GAL]: ~ 7.33 (3 TIMES CASING VOLUME)

ACTUAL VOLUME PURGED [GAL]: ~ 7.50

PURGE METHOD: 3' Disposable Bailer **PURGE START:** 14:05 **END:** 14:30

SECTION 4 - WATER QUALITY DATA

SWL (FT)	TEMP (°C)	pH	CONDUCTIVITY (mS/cm)	TURBIDITY (NTU)	DO (mg/L)	ORP (mV)	VISUAL
34.01	14.2	6.93	0.884	25.9		122	Clear

**DAY ENVIRONMENTAL, INC.
MONITORING WELL SAMPLING LOG**

WELL GW-4

SECTION 1 - SITE INFORMATION

SITE LOCATION: 12975 Clarence Center Road, Akron, NY **JOB #:** 1863R-99

PROJECT NAME: Strippit **DATE:** 7-14-08

SAMPLE COLLECTOR(S): M. Dickinson

WEATHER CONDITIONS: 90° F, sunny

SECTION 2 - PURGE INFORMATION

DEPTH OF WELL [FT]: 52.40 (MEASURED FROM TOP OF CASING - T.O.C.)

STATIC WATER LEVEL (SWL) [FT]: 37.78 (MEASURED FROM T.O.C.)

THICKNESS OF WATER COLUMN [FT]: 14.62 (DEPTH OF WELL - SWL)

CALCULATED VOL. OF H₂O PER WELL CASING [GAL]: ~2.4 **CASING DIA.:** 2"

CALCULATIONS:

CASING DIA. (FT)

WELL CONSTANT(GAL/FT)

CALCULATIONS

¾" (0.0625)	0.023
1" (0.0833)	0.041
1¼" (0.1041)	0.063
2" (0.1667)	<u>0.1632</u>
3" (0.250)	0.380
4" (0.3333)	0.6528
4½" (0.375)	0.826
6" (0.5000)	1.4688
8" (0.666)	2.611

VOL. OF H₂O IN CASING = DEPTH OF WATER COLUMN X WELL CONSTANT

CALCULATED PURGE VOLUME [GAL]: ~ 7.0 (3 TIMES CASING VOLUME)

ACTUAL VOLUME PURGED [GAL]: ~ 7.0

PURGE METHOD: 3' Disposable Bailer **PURGE START:** 14:45 **END:** 15:15

SECTION 4 - WATER QUALITY DATA

SWL (FT)	TEMP (°C)	pH	CONDUCTIVITY (mS/cm)	TURBIDITY (NTU)	DO (mg/L)	ORP (mV)	VISUAL
37.75	14.8	7.81	0.494	42.2		77	Very Slightly Cloudy

**DAY ENVIRONMENTAL, INC.
MONITORING WELL SAMPLING LOG**

WELL GW-5

SECTION 1 - SITE INFORMATION

SITE LOCATION: 12975 Clarence Center Road, Akron, NY **JOB #:** 1863R-99
PROJECT NAME: Strippit **DATE:** 7-14-08
SAMPLE COLLECTOR(S): M. Dickinson
WEATHER CONDITIONS: 90° F, sunny

SECTION 2 - PURGE INFORMATION

DEPTH OF WELL [FT]: 74.30 (MEASURED FROM TOP OF CASING - T.O.C.)
STATIC WATER LEVEL (SWL) [FT]: 52.88 (MEASURED FROM T.O.C.)
THICKNESS OF WATER COLUMN [FT]: 21.42 (DEPTH OF WELL - SWL)
CALCULATED VOL. OF H₂O PER WELL CASING [GAL]: ~3.5 **CASING DIA.:** 2"

CALCULATIONS:

CASING DIA. (FT)

WELL CONSTANT(GAL/FT)

CALCULATIONS

¾" (0.0625)

0.023

VOL. OF H₂O IN CASING = DEPTH OF WATER COLUMN X WELL CONSTANT

1" (0.0833)

0.041

1¼" (0.1041)

0.063

2" (0.1667)

0.1632

3" (0.250)

0.380

4" (0.3333)

0.6528

4½" (0.375)

0.826

6" (0.5000)

1.4688

8" (0.666)

2.611

CALCULATED PURGE VOLUME [GAL]: ~ 10.50 (3 TIMES CASING VOLUME)

ACTUAL VOLUME PURGED [GAL]: ~ 10.50

PURGE METHOD: 3' Disposable Bailer **PURGE START:** 15:30 **END:** 16:20

SECTION 4 - WATER QUALITY DATA

SWL (FT)	TEMP (°C)	pH	CONDUCTIVITY (mS/cm)	TURBIDITY (NTU)	DO (mg/L)	ORP (mV)	VISUAL
52.88	14.1	9.38	.742	128.0		106	Slightly Cloudy

Attachment B

**LONG-TERM QUARTERLY MONITORING REPORT
INTERIM REMEDIAL MEASURE
STRIPPIT, INC.
AKRON, NEW YORK**

Date of Inspection: 7-14-2008

Inspected By: M. Dickinson

Summary of Observation:

General Condition of Cover: General cover appears to be in OK
condition. About 2-3 feet of vegetative
cover across site.

Evidence of Erosion, sloughing or other degradation: ☐ Yes ☒ No

Explain (include measurement & site sketch):

None

Evidence of cracking: ☐ Yes ☒ No

Explain (include measurements and site sketch):

None

Evidence of water seepage: ☐ Yes ☒ No

Explain: None

Evidence of Settlement: ☐ Yes ☒ No

Explain: None

Condition of monitoring wells and gas wells: Monitoring wells in OK
condition. The lids of wells GW-4, GW-2
& GW-1 are broken. Gas wells in OK condition.

Condition of Vegetative Cover: About 2-3 feet of vegetative
cover across site, looks in OK condition.

Condition of drainage ways (discuss amount of water/sediments present, vegetative
growth unusual staining, blockage, etc.). Drainage ways
unobstructed & flowing OK.

Additional Comments: Lids on GW-4, GW-2 & GW-1 need
to be replaced.

Action Item(s) Required: Replace lids on wells GW-4, GW-2
& GW-1 so they can be secured.
Bring bee spray for wells, nests noted
inside.

Action Item(s) completed since last inspection: None

Signatures: Matthew Dickinson



View of GW-2 showing broken top.



View of the closure looking north.



View of a typical monitoring well.



View of the drainway.