



FRONTIER TECHNICAL ASSOCIATES INC.

GROUNDWATER SAMPLING & ANALYSIS PLAN

LANDFILL AREA

St. Gobain Abrasives, Inc.

NYSDEC Site 932007

FTA Report ET-703-GWP2

November 19, 2012

Prepared For:

**Mr. Douglas Wright
St. Gobain Abrasives, Inc.
6600 Walmore Road
P.O. Box 301
Niagara Falls, NY 14304**

Prepared By:

**Frontier Technical Associates, Inc.
8675 Main Street
Williamsville, NY 14221**

The sample and analysis plan provided herein was developed for St. Gobain Abrasives Company management use only and, except for required regulatory compliance submission, is not intended for any other purpose.

Table of Contents

	Page
Introduction	2
Chronology	2
Geology and Hydrogeology	4
Sampling and Analytical Methods	4
Sampling Objectives	4
Sampling Locations	4
Sample Designation	5
Sampling Equipment and Procedures	6
Sample Custody	8
Operations and Maintenance	9
Safety	9
Analytical Laboratories	9
Field Sampling Personnel	9
Reporting	9
Appendix	11

Introduction

In response to the requirements of NYSDEC Region 9, St. Gobain Abrasives Inc. has been requested to supply this revised groundwater sampling and analysis plan for the landfill area located on the southwest corner of the property in Wheatfield, New York. Figure 1 is a sketch of the landfill area showing the location of the monitoring wells which were installed in 1981 and the location of the "A" storm sewer line (West Branch), Frontier Technical Associates, Inc. has prepared this plan for St. Gobain's submission to the NYSDEC. This revised plan is amended from the plan submitted and approved in 1999.

Previously, technical reports were prepared which described the results of the priority pollutant sampling and analysis in 1990 and 1991. This included sample splits and full QA/QC. As a result of the findings, the NYSDEC subsequently reduced monitoring parameters for 1992. For 1993, the NYDEC deleted the requirement for analysis of filtered and unfiltered groundwater samples for metals including zinc. In 1994, all metals requirements were deleted and turbidity was added for informational purposes. This report presents the current requirements for monitoring at the landfill and discusses maintenance activities which have been performed in connection with the wells since 1994. In addition, a new section on Operations and Maintenance of the monitoring wells has been added.

Chronology

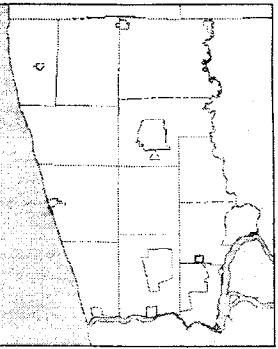
Since 1982, the monitoring wells and adjacent catch basins were sampled for pH and total phenolics (4AAP). In the period 1982-1988 there were no detectable levels of phenolics (4AAP) in monitoring wells OW2-81 through OW5-81. However, in 1989, perhaps as the result of unusual spring and summer precipitation events, low levels of phenolics were detected in the monitoring wells and adjacent catch basins. Again in 1990, low levels of total phenolics were detected. This resulted in the NYSDEC's desire to obtain additional data for evaluation beginning in 1991 as discussed above. Based upon the 1991 results, Carborundum Abrasives requested the decommissioning of one well (OW1-81) which had fallen into disrepair and was no longer functioning. The request was approved and subsequently implemented on September 27, 1991. The phenolics analytical methodology was also changed to the more accurate and specific SW846 Method 8270 and approved by the NYSDEC.

On May 20, 1994, new locking caps were installed on Well OW2-81 and OW4-81 by Frontier Technical Associates, Inc. New concrete pads were also installed by FTA around Well OW2-81 and OW3-81 on June 26, 1997.

As the result of review of the well depths presented in the 1997 sampling report, Frontier Technical Associates, Inc. undertook the redevelopment of all four wells in the monitoring network. On October 16 and 22, 1998, each well was purged and flushed two times on each day. A well development report dated January 28, 1999 was prepared and forwarded to the NYSDEC (Mr. Michael Hinton) for review. As a result of the review, this revised and updated Sampling and Analysis Plan (SAP) has been prepared. This report outlines the approach used to fulfill the NYSDEC requirements for updating and revising the SAP to reflect current practice and requested and approved changes to the previous plans.



Figure 1 SCG Landfill Locations



Legend

- Streets and Highways**
- Interstate
 - Primary State Road
 - Secondary State Road
 - County Road
 - Local Road

Parcels

1Ft Color Aerials

- Red: Band_1
- Green: Band_2
- Blue: Band_3

2Ft Color Aerials

- Red: Band_1
- Green: Band_2
- Blue: Band_3

1:1,414



Notes

Enter Map Description



Niagara County and its officials and employees assume no responsibility or legal liability for the accuracy, completeness, reliability, timeliness, or usefulness of any information provided. Tax parcel data was prepared for tax purposes only and is not to be reproduced or used for surveying or conveyancing.

NIAGARA COUNTY, NEW YORK
DEPARTMENT OF REAL PROPERTY SERVICES

Geology and Hydrogeology

The area in the immediate vicinity of the St. Gobain plant is underlain by approximately 10 to 15 feet of clayey to sandy silt, glacial-lacustrine deposits and till. These deposits thicken southward across the site toward the Niagara River. The hydraulic conductivity of these materials is relatively low perhaps reaching the range of 1×10^{-5} to 1×10^{-8} cm/sec.

The bedrock underlying the site consists of approximately 160 feet of dolomite of the Lockport Formation. The upper zone of the Lockport Formation is generally highly weathered, medium-gray dolomite with extensive vertical fractures. The dolomite has partings which are argillaceous or gypsum-coated. Water produced from this upper zone in the Bergholtz area of Wheatfield is generally of very poor quality, with a characteristic odor. The water generally is not suitable for drinking but is used for watering livestock or agricultural purposes. The Town of Wheatfield has extended its water lines throughout the area and recent information indicates that there are few wells in use throughout the area. On the adjacent property formerly operated by Textron Defense Systems, groundwater remediation is being conducted. The bottom of the St. Gobain landfill is up dip in the Lockport Dolomite. This appears to have had little effect on the St. Gobain landfill site as evidenced by historical groundwater elevation data.

The upper portion of the dolomite sequence consists of 10 to 20 feet of bedrock consisting of thinly bedded dolomite which may produce well yields of 10 to 20 gpm. Hydraulic conductivities of 0.1 to 0.01 cm/sec may be encountered in this unit. For purposes of this current plan, it is not thought that any of the wells penetrate significantly into the bedrock and were either drilled to refusal or into the uppermost few feet of the weathered bedrock. The bedrock surface is generally encountered at elevations between 560 feet to 570 feet MSL and gently dips to the south. The wells monitored in this project were drilled to refusal as indicated in a report by Conestoga-Rovers Associates, who installed the wells in 1981 after placement of a clay cap by Secured Landfill Contractors, Inc.

Sampling and Analytical Methods

Sampling Objectives

The results of samples collected and analyzed in accordance with the approval of the NYDEC are to be used to:

1. Assess the groundwater flow direction and chemistry.
2. Define the nature and extent of pollutant migration, if any.
3. Meet the NYDEC requirements for data submission.

Sampling Locations

Figure 1 illustrates the sample locations. Four wells are to be sampled together with one catch basin (A-9). Table 1 presents the sample locations and the analytical parameters for each location. All methods used conformed to the Standard Methods for Examination of Water/Wastewater, EPA Methods of Analysis for Water and Wastewater (40 CFR 136) or SW-846. Table 2 is a summary of the parameters, methods used, preservation methods, and holding times required for this site.

Sample Designation

All samples obtained at the St. Gobain site shall have sample numbers which are unique to the well or sampling location. For example, the numbering scheme below will be used:

OW-2	OW-5
OW-3	MH A-9
OW-4	

Any trip blanks, field blanks, equipment blanks, matrix spikes, and matrix spike duplicates shall have identifying sample numbers which are unique. Any and all split samples made available for NYSDEC duplicate analysis will be marked and labeled as above.

Table 1 Sample Locations and Well Depths

Well Designation	Well Depth (feet)*
OW2-81	18.20
OW3-81	19.66
OW4-81	19.38
OW5-81	18.23
MH A-9	---

* Based upon measurement by FTA in 1998 after well development; measured from top of riser pipe.

** Field measurement of pH made within NYELAP guidelines (15 min). Turbidity measured using a nephelometer in the field.

All samples are analyzed biannually for pH, specific conductivity, temperature, turbidity and phenol by Method 8270

Table 2
Summary of Parameters, Methods,
Preservation Methods and Holding Times

Analysis	Method	Preservation Method/ Sample Container	Holding Time*
pH	SM4500 HB	None/plastic or glass	Analyze immediately in the field
Specific Conductivity	EPA 120.1	None/plastic or glass	Analyze immediately in the field
Temperature	SM2550B	None/plastic or glass	Analyze immediately in the field
Turbidity	EPA 180.1	None/plastic or glass	Analyze immediately in the field
Phenol	SW846 8270	4°C; glass	7 days to extraction; 40 days for analysis

* pH, specific conductivity, temperature, turbidity measured in the field. Frontier Technical Associates is a NYELAP-Certified Laboratory (10475).

Sampling Equipment and Procedures

The procedures outlined here were developed to minimize contamination of water sampling, minimize concentration change prior to testing, and standardize procedures to minimize analytical differences.

The following procedures outline the purging, sampling, and preservation methods used during this sampling program in accordance with the approved sampling plan submitted in 1991 and used to the present time:

1. Inspection of the well noting any unusual conditions.
2. The electronic water level meter probe will be triple rinsed with distilled water.
3. The depth to the water surface from the top of the riser pipe will be measured and recorded on the Well Monitoring Field Form. The total depth of each well is to be checked against previous measurements made by the sample team since the 1998 well redevelopment.
4. Calculate the volume of water in each well. Purge each well by removing three times the volume, or if the well yield is low, remove water until the well is "dry." (within 1-2 inches of bottom).

5. A low-flow peristaltic pump will be used to purge these shallow wells. All tubing coming into contact with the well water shall consist of food-grade polyethylene tubing dedicated to the well or catch basin. This dedicated tubing is stored in its respective well. The dedicated tubing is necessary to prevent cross-contamination between the wells. The tubing will be gradually lowered to the bottom of the well. The volume required, the volume purged, water level before purging, and the start and stop times will also be recorded on the Well Monitoring Field Form.
6. All purge water will be placed in a container specifically used for that purpose and for measuring purge volume. Based upon the results of the analyses previously conducted, the water contains no pollutants incompatible with the treatment process or St. Gobain's sanitary sewage permit, and has been acceptable to the NCSD and meets their criteria. The water will be disposed of in the sanitary sewer.
7. Because most of the wells recover slowly, the wells will be sampled within 24 hours of purging. Sample size, containers, and amount of sample obtained are listed in Table 3. If any delays are encountered, proper documentation must be provided.
8. Groundwater samples will be obtained by dedicated tubing. No equipment will be used for more than one well.
9. Usually, the first sample is taken for analysis of pH, specific conductance, temperature and turbidity. All field analysis equipment is triple rinsed with distilled water prior to and after use.
10. Temperature, specific conductance, turbidity and pH are reported on the Well Monitoring Field Form along with equipment used, weather conditions, field observations, and sampling times.
11. Sample container labels will be affixed to the sample container and the samples placed in an insulated container where they will be kept cool with ice.
12. In a similar fashion, samples will be obtained for phenolic compounds as required for each sample location. Each sample label will be completed including the date, time, location, analysis required, and sampler's initials.
13. All samples are to be packed in an insulated cooler with sufficient ice to ensure a temperature of 4°C during storage and transport to the laboratory.
14. If analyzed locally, all samples will be transported to the laboratory on the same day acquired. If a laboratory outside of the immediate area is chosen, the samples will be shipped by overnight service.
15. Analyses will be completed within the specified holding times (see above). The laboratory will be notified by the sampling team prior to sampling and upon shipping to assist in scheduling analyses to meet all specified holding times.

Table 3 Sample Containers and Required Sample Volume

Analysis	Container	Sample Volume
pH, Specific Conductance, Temperature	Plastic or glass	500 ml
Turbidity*	Glass vial	25 ml
Phenol	Glass	1000 ml

Well Monitoring Field Form will be used to record the following data/information:

1. Site name (St. Gobain), sample number, etc.
2. Date, time, and elapsed time from sample start to sample finish (if applicable);
3. Information regarding purging the well prior to sampling including initial groundwater level, purge volume required, and actual purge volume;
4. Field test results including pH, temperature, turbidity and specific conductance;
5. Sampling method used; the construction material of equipment;
6. Type of sample and information which appeared significant;
7. Field observations/sampling conditions (e.g., weather);
8. Appearance of sample, such as color, sediment, oil on surface, obvious odor, etc.;
9. Sampler's identity and signature.

Sample Custody

In order to maintain integrity of the groundwater samples, strict chain-of-custody procedures will be followed. From the time the sample is collected until the sample is in the custody of the analytical laboratory, the samples are required to be:

1. In the sampler's possession;
2. In the sampler's view, after being in his possession;
3. In the sampler's possession and then locked in a designated, secure area to prevent tampering; or
4. In a sample cooler sealed with a tamper-proof chain-of--custody seal.

A written Chain-of-Custody Record of the transfer of samples must be maintained. An example can be found in the Appendix of this report.

When transferring the possession of samples, the person making the transfer signs and records the date and time on the record. The number of custodians in the chain of possession should be as few as possible.

Landfill Operations and Maintenance

A landfill area operations and maintenance plan has been developed to address the requirements to inspect and maintain the landfill area proper as well as the monitoring wells. In connection with this plan, an inspection schedule, grass cutting requirements, and required items to be performed have been outlined in detail. A copy of the site O & M Plan is included as an Appendix to this SAP.

Safety

Personnel performing the sampling must adhere to all safety requirements for contractors and/or visitors to the St. Gobain facility. Personnel performing the sampling must wear suitable field boots and protective gloves and goggles or safety glasses. Since no detectable levels of priority or hazardous pollutants have been present in the past, additional safety clothing may be used but is not required.

Analytical Laboratories

The pH, temperature, turbidity and specific conductance are to be measured in the field by Frontier Technical Associates, NYELAP #10475. All other analyses must be performed by a NYELAP-certified laboratory. Each laboratory must be certified for the parameters for which data are provided. No other laboratory may perform any analyses related to the effort reported here without demonstrating that they have and maintain the required NYELAP certification for the required parameters.

Field Sampling Personnel

All field sampling and field measurements must be performed by qualified personnel. Personnel performing the work must be identified in the sampling report, and if requested, must present their certifications, licenses and/or professional qualifications for inspection by the St. Gobain Environmental Engineer.

Samples must be in the custody of the above personnel at all times or be sealed in a container with a tamper-proof seal attached. A summary of weather conditions during the sampling period must be recorded on field sampling forms.

Reporting

Daily field sampling reporting forms including all sample collection forms, inspection reports, purging data, weather conditions and chain-of-custody forms shall be maintained. Within approximately 15 business days of receipt of laboratory data, three copies of the sampling and analytical report shall be delivered to the St. Gobain Environmental Engineer. In turn, after review and approval, St. Gobain will transmit one copy to the NYSDEC Project Monitor (Mr.

Brian Sadowski and Mr. Michael Hinton). In the event of discovery of a significant concentration of phenol in the wells, a determination will be made as to the cause or source and a decision to resample only those wells, if necessary, will be made to reconfirm the analysis. This will be done in consultation with the St. Gobain and NYSDEC, as appropriate.

As a minimum, the following data shall be provided in any sampling report provided in accordance with this SAP:

1. Groundwater Elevations; these data shall be certified by a Professional Engineer.
2. Piezometric Surface Map of groundwater elevations and inferred groundwater flow direction.
3. A summary of pH, Turbidity, and Specific Conductance sampling and analytical results.
4. pH, Turbidity, Specific Conductance and Phenol concentration of water sampled from MH A-9 if there is any flow present (A-9 is frequently dry unless rainfall or snowmelt is occurring).
5. A summary of the phenol analytical results (8270) including all QA/QC data.
6. A discussion of the findings including any quality assurance/quality control data.
7. Results of the field duplicate and surrogate recovery, method blank and matrix spike and matrix spike duplicate, if analyzed, must be presented.
8. Conclusions and Recommendations for future action including any O & M required.
9. Appendix to include field data and notes, groundwater elevations, observations, well inspection reports, laboratory report(s), and chain-of-custody forms.

APPENDIX

- I. Well Monitoring Field Form
- II. Sample Well Inspection Report Form
- III. Operations and Maintenance Plan
- IV. Chain-of-Custody Form

APPENDIX

- I. Well Monitoring Field Form
- II. Sample Well Inspection Report Form
- III. Operations and Maintenance Plan
- IV. Chain-of-Custody Form



FRONTIER TECHNICAL ASSOCIATES, INC.
WELL MONITORING FIELD FORM

Site Location: Saint-Gobain Abrasives Landfill Job No: ET- 703

Sample Point ID: _____ Consultant: **Frontier Technical Associates, Inc.**

PURGE INFORMATION

Purge Method: Bailer, Peristaltic Pump

Depth to Bottom of Well: _____ ft.

2" Well = 0.17 gals/ft.

Depth to Water Surface: _____ ft.

Depth of Water Column: _____ ft.

Volume of Standing Water in Well: _____ gallons

Start of Purge: Date: / / Time: :

End of Purge: Date: / / Time: :

Total Volume Purge: _____ gallons Well Purged Dry?: Yes No

of Volumes Purged _____ Purging Personnel: _____

Recharge Rate: **Rapid, Slow, Extremely Slow**

SAMPLING INFORMATION

Sample Method: Bailer, Peristaltic Pump, Bladder Pump

Sample Date: / / Sample Time: : Depth to Water Surface _____ ft.

Sample Appearance: _____

Samples Preserved: Yes No

Sampling Personnel: _____

FIELD MEASUREMENTS

Meters Calibrated Yes No

PARAMETER	METER NUMBER	UNITS	MEASUREMENT	NOTES
pH	Hanna HI9023	STD. UNITS		
Spec. Conductance	Oakton Con6	µMHOS/CM		
Temperature	Oakton Con6	C		
Turbidity	Hach 2100P	NTU		

Weather: _____

Notes: _____



FRONTIER TECHNICAL ASSOCIATES INC.

8675 Main Street Williamsville, NY 14221 (716)634-2293 NYSDOH ELAP No. 10475

**Monitoring Point Assessment Form
at Saint-Gobain Abrasives Landfill**

Page of

Monitoring Point: _____

Date: _____

Inspector's Name (Print): _____

Well Locked:	Yes	No	NA
Lock Functioning:	Yes	No	NA
Bailer and Rope OK:	Yes	No	NA
Tubing OK:	Yes	No	NA
Protective Casing OK:	Yes	No	NA
Concrete Pad in Good Condition:	Yes	No	NA
Heaving of Well or Casing:	Yes	No	NA
Well Sand in Purge Water:	Yes	No	NA
Well Constricted:	Yes	No	NA
Debris in Well:	Yes	No	NA
Insects in Well:	Yes	No	NA

Other Observations or Details on Conditions Above: _____

Inspector's Signature: _____



FRONTIER TECHNICAL ASSOCIATES INC.

OPERATIONS AND MAINTENANCE PLAN

LANDFILL AREA

ST. GOBAIN ABRASIVES INC.

(Addendum to Sampling and Analytical Plan)

Report ET-703-02

November 19, 2012

Prepared for:

Mr. Douglas Wright
St. Gobain Abrasives Inc.
6600 Walmore Road
P.O. Box 301
Niagara Falls, NY 14304

Prepared by:

Frontier Technical Associates, Inc.
8675 Main Street
Williamsville, NY 14221

The O & M Plan contained herein is intended for the use of St. Gobain Abrasives Inc. for evaluation and implementation purposes and submission to regulatory authorities as required. The contents may not be released to other parties without the written permission of St. Gobain Abrasives Inc.

INTRODUCTION

In response to the requirements of NYSDEC Region 9, St. Gobain Abrasives Inc. has been monitoring groundwater and performing sampling and analysis for the landfill area located on the southwest corner of the property in Wheatfield, New York since 1981. Figure 1 is a map of the landfill area showing the location of the monitoring wells which were installed in 1981 and the location of the "A" storm sewer line (West Branch). Frontier Technical Associates, Inc. has been performing monitoring and inspection on behalf of St. Gobain Abrasives Inc. and has prepared this supplemental report for St. Gobain's submission to the NYSDEC. Previously, technical reports were prepared which described the results of the sampling and analysis for each year and a formal monitoring or sampling and analytical plan has been on file since 1991. The NYSDEC subsequently reduced monitoring parameters for 1992. For 1993, the NYSDEC deleted the requirement for analysis of unfiltered groundwater samples for metals, and for 1994, all metals requirements were deleted and turbidity was added for informational purposes. In 1998, the NYSDEC approved a modification of the monitoring frequency to once every two years.

Originally, five wells were installed in the landfill area--one in the landfill itself and four on the perimeter of the landfill. In 1991, one well (OW1-81), was decommissioned because it had fallen into disrepair because of ground movement in the landfill cap and was no longer functioning. The request was approved and subsequently implemented on September 27, 1991. The phenolics analytical methodology was also changed to the more accurate and specific SW 846 Method 8270.

This report outlines the approach used to fulfill the NYSDEC requirements for operations and maintenance as requested by way of Mr. Sadowski's letter dated October 30, 2012. The purpose of this report is to present the St. Gobain's Operations and Maintenance Plan for the monitoring wells and inspection of the landfill area. We are prepared to implement this plan immediately.

SITE INSPECTION

The physical attributes of the site will be inspected annually. This inspection may be conducted by St. Gobain Abrasives Inc. or Frontier Technical Associates, Inc. personnel. The inspection will be conducted in July.

For each monitoring point, the following items will be included: well locks, well casings, covers, concrete pads, bailers and ropes, general conditions and tubing. If any of these items has deteriorated or is in disrepair, they will be replaced or repaired as appropriate. This action will be undertaken as soon as practicable and prior to the next annual inspection. A written report will be prepared and maintained on file at St. Gobain Abrasives Inc.

A monitoring point assessment form to be used for the annual inspection is presented as Figure 2. A copy of this form will be retained for review during NYSDEC inspections.

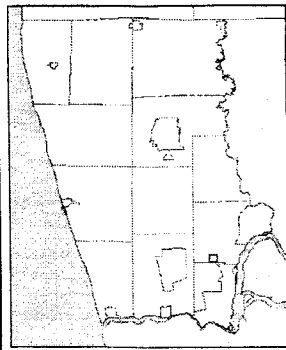


Figure 1 SCG Landfill Locations



0.0 0 0.02 0.04 0.0 Miles

Niagara County and its officials and employees assume no responsibility or legal liability for the accuracy, completeness, reliability, timeliness, or usefulness of any information provided. Tax parcel data was prepared for tax purposes only and is not to be reproduced or used for surveying or conveyancing.



- Legend**
- Streets and Highways**
- Interstate
 - Primary State Road
 - Secondary State Road
 - County Road
 - Local Road
- Parcels**
- 1Ft Color Aerials**
- Red: Band_1
 - Green: Band_2
 - Blue: Band_3
- 2Ft Color Aerials**
- Red: Band_1
 - Green: Band_2
 - Blue: Band_3

1:1,414

Notes

Enter Map Description

NIAGARA COUNTY, NEW YORK
DEPARTMENT OF REAL PROPERTY SERVICES



FRONTIER TECHNICAL ASSOCIATES INC.

8675 Main Street Williamsville, NY 14221 (716)634-2293 NYSDOH ELAP No. 10475

**Monitoring Point Assessment Form
at Saint-Gobain Abrasives Landfill**

Page of

Monitoring Point: _____

Date: _____

Inspector's Name (Print): _____

Well Locked:	Yes	No	NA
Lock Functioning:	Yes	No	NA
Bailer and Rope OK:	Yes	No	NA
Tubing OK:	Yes	No	NA
Protective Casing OK:	Yes	No	NA
Concrete Pad in Good Condition:	Yes	No	NA
Heaving of Well or Casing:	Yes	No	NA
Well Sand in Purge Water:	Yes	No	NA
Well Constricted:	Yes	No	NA
Debris in Well:	Yes	No	NA
Insects in Well:	Yes	No	NA

Other Observations or Details on Conditions Above: _____

Inspector's Signature: _____

Figure 2

PHYSICAL CONDITION AND GRASS CUTTING

During the annual inspection, observations of the landfill cap will be made to assess whether any soil slumping is present, rodent burrows present, growth of any large rooted vegetation, etc. Brush and bushes will be trimmed and the area will be kept clear of debris or trash which might blow onto the site, etc.

The Department has and continues to encourage all Responsible Parties to cut the grass on their landfills once per year after August 15th. The reason for this is for habitat objectives.

ANNUAL INSPECTION

Once each year, the wells will be purged and depths checked. If depth data indicates infilling of sand or sediment to a depth of 25% of the screen length, the wells will be developed in order to remove the sediment. The wells were last developed in October 1998. Sampling and purging will be conducted in accordance with the following schedule:

Year	Activity
2011	Purging, Sampling
2012	Purging
2013	Purging, Sampling
2014	Purging
2015	Purging, Sampling
2016	Purging
2017	Purging, Sampling
2018	Purging
2019	Purging, Sampling
2020	Purging
2021	Purging, Sampling
2022	Purging

The annual inspection will include the following in addition to purging:

1. Inspection of the well noting any unusual conditions.
2. The depth to the water surface from the top of the riser pipe. The total depth of each well will be checked against previous measurements. If infilling is noted, well development will be scheduled.
3. Each well will be purged to remove suspended sediment and biological growth if present.
4. A peristaltic pump or bailer may be used to purge these shallow wells. All tubing or bailers are dedicated to ensure that no cross-contamination occurs.
5. In years ending with odd numbers, sampling will be conducted in accordance with the sampling and analytical plan and schedule above.

REPORTING

All observations and results made during the annual inspections(s) of the landfill and physical integrity/physical parameters of the monitoring points along with the bi-annual chemistry sampling shall be reported to the Department in one annual report (Periodic Review Report) as it pertains for that year.

SAFETY

Personnel performing the sampling will adhere to all safety requirements for contractors and/or visitors of the St. Gobain facility. Personnel performing the sampling or purging will wear suitable field boots and protective gloves and safety glasses or goggles.



CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM 3385

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE OF

Project Name		Project Number		ANALYSIS REQUESTED (Include Method Number and Container Preservative)																					
Project Manager		Report CC		PRESERVATIVE		METALS, TOTAL (List in comments below)		METALS, DISSOLVED (List in comments below)		METALS, TOTAL (List in comments below)		PCBS ◦ 8082 ◦ 608		PESTICIDES ◦ 8081 ◦ 608		GC VOAS ◦ 8021 ◦ 601/602		GC/MS SVOAS ◦ 8270 ◦ 625		GC/MS VOAS ◦ 8260 ◦ 624 ◦ CLP		REMARKS/ ALTERNATE DESCRIPTION			
Company/Address				NUMBER OF CONTAINERS																		Preservative Key 0. NONE 1. HCL 2. HNO ₃ 3. H ₂ SO ₄ 4. NaOH 5. Zn. Acetate 6. MeOH 7. NaHSO ₄ 8. Other _____			
Phone #		Email		Sampler's Printed Name																					
Sampler's Signature		Sampler's Printed Name																							
CLIENT SAMPLE ID		FOR OFFICE USE ONLY LAB ID		DATE		SAMPLING TIME		MATRIX																	
								</																	