FINAL POST-CLOSURE MONITORING, MAINTENANCE AND CONTINGENCY PLANS

For

MOOERS LANDFILL

Town of Mooers Clinton County, New York

JUNE, 1996

Al Rascoe

PREPARED FOR:

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PREPARED BY:

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1.0 INTRODUCTION

The programs presented herein are intended to provide guidance regarding site monitoring, maintenance and contingency actions at the Mooers Landfill, located in Clinton County, New York, for the required minimum thirty-year period following closure. The overall program is intended to be administered through the Clinton County Highway Department. Inquiries regarding this program can be made to:

Al Rascoe

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Paul F. Dudden, P.E. Barton & Loguidice, P.C. Box 3107 Syracuse, New York 13220 (315) 457-5200

1.1 Site Description and History

A narrative of the site location and description, operational history and remedial history is included in the 1992 Final Remedial Investigation Report and the 1993 Final Feasibility Study Report prepared by Barton & Loguidice, P.C., as well as in the 1993 Record of Decision for the Mooers Landfill prepared by the NYSDEC. These documents also provided detailed descriptions of the site geology and hydrogeology and environmental conditions identified as part of the Remedial Investigation.

2.0 ENVIRONMENTAL MONITORING PROGRAM

2.1 Location of Monitoring Points

2.1.1 Groundwater Monitoring Points

There are nineteen (19) existing groundwater monitoring wells at the site. The well locations and numbers are indicated on Sheet 1 (attached), the Environmental Monitoring Plan. The existing site monitoring array appears to generally satisfy the 1988 Part 360 monitoring requirements.

The 1993 Feasibility Study prepared by Barton & Loguidice, P.C., for the Mooers Landfill indicated that bedrock well MW-2D was located across from a hydrologic barrier and would therefore not be included as part of the monitoring array. In addition, well cluster MW-8S/8D is located too distant from the landfill and not within the immediate flow path of groundwater. This location will also not be included as part of the monitoring array.

Existing wells and well couplets to be included in the environmental monitoring program are MW-1S/1D, MW-3S, MW-4S, MW-5S, MW-6S/6D, MW-7S/7D, MW-9S and MW-10S/10D. MW-10S/10D is included as a representative background well cluster.

2.1.2 Surface Water Monitoring Points

Two surface water monitoring locations will be sampled. One of the sampling points is located within the recently constructed stepped impoundment system to the northeast of the landfill, while the other is located in an area of the wetland just beyond the final impoundment. Samples collected at these locations will be used to evaluate the effectiveness of passive treatment as "surface water" flows through the constructed wetland.

They are designated as SW-5 and SW-10, representing a previously established surface water sampling location, and a newly created sampling point, respectively. SW-10 is labeled in accordance with the last designation used during the Remedial Investigation. SW-10 will be collected within the stepped impoundment system at one of the vertical 1/2-sections of 30" CMP that have been installed adjacent to the weir openings in the impoundment walls. Locations of these monitoring points are indicated on Sheet 1.

2.1.3 Gas Monitoring Points

Two gas monitoring wells have been installed to monitor potential landfill gas migration within the subsurface. The location of these wells are indicated on Sheet 1.

2.2 Sampling Schedule

Sampling will be performed quarterly at the designated water quality sampling points and gas monitoring points during the post-closure period. Baseline water quality analysis will be performed on an annual basis with routine water quality analyses performed for the remaining three quarters. The baseline analyses will be rotated to a different quarter each year. Table 2-1 presents the proposed schedule of water quality sampling during the next five years.

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TABLE 2-1 SAMPLING SCHEDULE												
YEAR QUARTER QUARTER QUARTER QUARTER												
1996	-	-	В	R								
1997	В	R	R	R								
1998	R	В	R	R								
1999	R	R	В	R								
2000	R	R	R	В								
2001	В	R	-	-								

Sampling requirements for the 2^{nd} , 3^{rd} and 4^{th} quarters of at the year 2001 will be determined at the end of the initial five year monitoring period.

2.3 Sampling Procedures

2.3.1 Monitoring Well Sampling

Each monitoring well will be equipped with a dedicated bailer. This will be used both for well purging and for sample collection. The following sampling procedures should be used:

 Sampling will be conducted in sequence from upgradient/background wells to the downgradient wells, or from the potentially least contaminated to the potentially most contaminated in order to minimize any potential cross contamination.

- Inspect each well for any visible damage to the well casing or seal.
- Measure and record the static water level in each well. The volume of water contained in a 2-inch cased well may be determined by multiplying the height of water column by a volumetric conversion factor of 0.163 gallons per foot of water column height.
- Purge each well of at least three volumes of water or evacuate completely at
 least once, depending on the well hydraulics. Periodic measurements of specific
 conductance, temperature and pH during purging can, on the attainment of
 stabilized readings, indicate that all stagnant water has been removed and
 replaced by fresh formation water.
- Measure and record the field determined parameters: oxidation-reduction
 potential (ORP or Eh), specific conductance, temperature, and pH. Also note
 the general sample appearance: turbidity, color, sediment, immiscible
 components, odor.
- Samples should be collected and containerized in the order of the volatilization sensitivity of the parameters. The preferred order of collection is as follows:
 - Purgeable volatile organics
 - Total organic carbon (TOC)
 - Extractable organics
 - Total metals
 - Phenols
 - Cvanide
 - Sulfate and chloride

- Turbidity
- Nitrate and ammonia
- Any other parameters
- Volatile organics samples must be free of air bubbles. Bottles must be gently
 filled to overflowing, tightly capped, inverted and inspected. If any bubbles can
 be seen in the sample, the bottle must be emptied and refilled. When a bubblefree sample has been obtained, it must be immediately chilled.
- Fill the necessary number of prepared, pre-labelled sample bottle with groundwater samples. Pack the filled sample bottles in a cooler chest for transportation to the laboratory using ice if ambient air temperatures are above 40°F.
- Complete the field sampling data sheet, chain-of-custody form, and any other notes in the field sampling logbook.

2.3.2 Surface Water Sampling

Grab samples of the surface water should be collected just below the water's surface so that the bottom sediments are not disturbed. The samples should be collected directly into the sample bottle if possible, or an intermediate sampling container such as a precleaned wide mouth glass jar should be used. The following general procedure should be used:

 Before collecting the actual sample, the intermediate sampling container and the sampler's gloves shall be rinsed three times in the surface water before filling the container or sample bottle.

- Measure and record the field determined parameters: oxidation-reduction
 potential (ORP or Eh), specific conductance, temperature, pH and dissolved
 oxygen. Also note the general sample appearance; turbidity, color, sediment,
 immiscible components, odor.
- Fill the necessary number of prepared, pre-labelled sample bottles in the order previously stated with groundwater samples. Wipe dry and pack the filled sample bottles in a cooler chest for transportation to the laboratory using ice if the temperature is above 40°F.
- Complete the field sampling data sheet, chain-of-custody form, and any other notes in the field sampling logbook.

It may be necessary to purge the standing "surface water" from the 1/2-section of CMP prior to sampling to allow fresh water to enter the manhole.

2.3.3 Sample Preservation

To ensure the integrity of the water quality samples during transportation from the field to the laboratory, the USEPA guidelines for sample containers, preservatives and maximum holding times should be observed. All requirements are summarized in Table 2-2. An example chain-of-custody form and sampling data sheet is provided at the back of this plan.

2.3.4 Gas Monitoring

A gas monitoring instrument with a minimum range up to 100% LEL and a maximum range of up to 100% methane shall be used for the monitoring. The instrument shall be inserted into the monitoring point (hand held for surface monitoring at 2 inches above the surface and lowered by the cable in subsurface points to about 2 feet depth).

2.4 Water Quality Analyses

The field and laboratory parameters for baseline and routine water quality analyses are listed in Table 2-3. The values for field determined physical and chemical parameters (i.e., specific conductance, temperature, pH, ORP-Eh and dissolved oxygen) will be reported to the analytical laboratory when samples are submitted, and both sets of data (field and laboratory parameters) will be included on the analytical report.

A number of volatile and semi-volatile organic parameters have been detected at several of the existing site wells which are intended to become part of the environmental monitoring program. These include MW-1S/1D, MW-4S and MW-6S/6D. As a result, the analysis for routine parameters at these locations will include volatile organic compounds using EPA Method 8260. Baseline samples collected at these locations will include semi-volatile organic compound analysis using EPA Method 8270. Method 8260 is preferable due to the presence of specific volatiles (e.g., acetone and 2-butanone) which cannot be detected using conventional VOC analysis by EPA methods 601/602.

VOCs and SVOCs are expected to be detected, a least initially, at the two surface water sampling locations. In order to track the effectiveness of the stepped impoundment system, surface water samples will be analyzed for baseline parameters including EPA Method B270 on a quarterly basis.

2.5 Documentation and Reporting

2.5.1 Sampling Records

A field logbook or field sampling sheet must be maintained as a written record of the sample collection process at each monitoring point. The following minimum information should be recorded:

- Project ID, sampling point ID; sampling personnel; date and time; weather conditions; sampling sequence.
- Well depth; casing diameter; reference datum; static water level; well volume; well condition.
- Purging method; purging time/duration; well recovery/recharge rate; volume purged.
- Sample withdrawal method; sampling time; number and type of containers; field measured parameters; sample filtration; sample appearance/field observations.
- Sample storage and transportation method; delivery date and time; analytical parameters requested.

Each sample bottle should be legibly and indelibly labelled with the following minimum information:

 Sampling point ID; project ID; collection date and time; parameters requested (if space permits).

The delivery of samples to the analytical laboratory must be accompanied by a completed chain-of-custody record, on which the following minimum information should be recorded:

 Project ID; sampling point ID; collection date and time; parameters requested; number and type of containers; signature of collector; signature of persons maintaining custody; inclusive dates of possession.

2.5.2 Quality Control

The analytical laboratory must be certified and approved by New York State

Department of Health (NYSDOH) according to the Environmental Laboratory Approval

Program (ELAP), and must maintain and utilize proper analytical Quality Assurance/

Quality Control (QA/QC) procedures.

All field equipment used for field determinations must be calibrated at least daily prior to and after use. After use at each monitoring point, the probes and apparatus must be thoroughly cleaned and rinsed prior to contacting any water from the next sampling point.

2.5.3 Monitoring Reports

The quarterly water quality monitoring report consists of the field sampling data sheets or transcriptions from the field logbook for each monitoring point, the chain-of-custody record, and the laboratory analysis report. The latter should include:

 Project ID; sample point ID; sampling date and time; date of analysis, analytical results including field determined parameters; method detection limits (MDL); annotations of compounds detected below MDL.

All analytical and field data will be reviewed and compiled by the County's consultant in a database of historical results. Parameters detected in exceedance of NYSDEC water quality standards or guidance values will be evaluated and presented in quarterly water quality reports.

TABLE 2-2

SAMPLING AND PRESERVATION OF SAMPLES¹

Parameter ²	Container ³	Preservative	Holding Time⁴
Alkalinity	P,G	Cool, 4°C	12 days
BOD ₆	P,G	Cool, 4°C	24 hours
COD	P,G	Cool, 4°C,	26 days
332	.,0	H₂SO₄ to pH < 2	20 00,0
Chloride	P,G	Cool, 4°C	26 days
Color	P,G	Cool, 4°C	24 hours
Cyanide	P,G	Cool, 4°C,	12 days
o y a mad	. , 0	NaOH to pH > 12	
Hardness	P,G	HNO ₃ to pH < 2	6 months
Metals	P,G	HNO ₃ to pH < 2	6 months
except	. , .		
Boron	P only	Cool, 4°C	26 days
Chromium-Hex.	P,G	Cool, 4°C	24 hours
Mercury	P,G	HNO ₃ to pH < 2	26 days
Nitrogen	. / -		
Ammonia	P,G	Cool, 4°C,	26 days
		H^2SO_4 to pH < 2	,,_
Kjeldahl (TKN)	P,G	Cool, 4°C,	26 days
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	. / -	H^2SO_4 to pH < 2	
Nitrate	P,G	Cool, 4°C	24 hours
Phenols	G only	Cool, 4°C,	26 days
1	,	H^2SO_4 to pH < 2	
Sulfate	P,G	Cool, 4°C	26 days
TDS	P,G	Cool, 4°C	24 hours
TOC	P,G	Cool, 4°C,	26 days
	, , -	H^2SO_4 to pH < 2	
Turbidity	P,G	Cool, 4°C	24 hours
Volatile Organics		2.2.4	
(EPA Method 8260)	G only⁵	Cool, 4°C	7 days
Semi-Volatile Organics			
(EPA Method 8270)	G only ⁶	Cool, 4°C	5 days after VTSR until extraction; 40 days for analysis

TABLE 2-2 (Continued)

SAMPLING AND PRESERVATION OF SAMPLES¹

NOTES:

- Based on Table I Required Containers, Preservatives, and Holding Times, From NYSDEC Analytical Services Protocol (ASP), September 1989).
- Laboratory determinations only; field determinations to be made immediately during sampling.
- P = Plastic (polyethylene), G = Glass
- ⁴ All holding times are from Verified Time of Sample Receipt (VTSR) at the laboratory.
- Do not allow any head space in the container. Use teflon-lined septum.
- 6 Use teflon-lined cap.

TABLE 2-3

WATER QUALITY ANALYSIS TABLE

[Source: 6 NYCRR Part 360-2.11(c)(6)]

FIELD PARAMETERS	ROUTINE	BASELINE
Dissolved Oxygen ¹ Field Observations ² Floaters or Sinkers ³ Oxidation-Reduction	X X	X X X
Potential (ORP or Eh)	X	X
Specific Conductance Static Water Level	×	X
(in wells and sumps) Temperature	X	X
INORGANIC PARAMETERS (Leachate Indicators)		
Alkalinity Ammonia Biochemical Oxygen Demand (BOD ₅) Boron	X	X X X
Chemical Oxygen Demand (COD) Chloride Color Cyanide	X X	X X X X
Hardness as CaCO ₃ Nitrate	X	X X
Phenols, Total Sulfate	X	X X
Total Dissolved Solids (TDS)	X	X
Total Kjeldahl Nitrogen (TKN) Total Organic Carbon (TOC) Turbidity	×	X X X
METALS ⁴	^	^
Aluminum Cadmium Calcium Iron Lead	X X X	X X X X
Magnesium	X	X
Potassium Sodium	X	X X

continued...

TABLE 2-3 (Continued)

WATER QUALITY ANALYSIS TABLE

[Source: 6 NYCRR Part 360-2.11(c)(6)]

	ROUTINE	BASELINE ⁵
TOXIC METALS		
Antimony		X
Arsenic	• 0	X
Beryllium		X
Barium		X
Chromium (Total and Hexavalent)		X
Copper		X
Mercury		X
Nickel		X
Selenium		X
Silver		X
Thallium		X
Zinc		X
ORGANIC PARAMETERS		
Volatile Organic Compounds (EPA Method 8260)	X_e	×
Semi-Volatile Organic Compounds (EPA Method 8270)		Χ

NOTES

- Surface water only.
- Any unusual conditions (colors, odors, surface sheens, etc.) noticed during well development, purging or sampling will be reported.
- Any floaters or sinkers found will be analyzed separately for baseline parameters.
- It is recommended that all samples for metals are taken in duplicate; one analysis should be filtered in the field prior to acid preservation. The other should be whole and unfiltered. No other samples (organics or inorganics) should be filtered.
- Baseline analysis modified to include semi-volatile organic compound analysis for those locations currently exhibiting these parameters.
- Volatile organic analysis included for those locations currently exhibiting VOCs. EPA Method 8260 is specified for certain parameters present at the site but not analyzed for using EPA Methods 601/602.

In addition, an annual summary report will be prepared, in which the results of statistical analyses for seasonal and annual trends in water quality will be presented. Significant trends may be illustrated in graphical or tabular format. Observations as to well access and maintenance conditions will be noted, and recommendations for any necessary improvements will be made. Quarterly Water Quality Monitoring/Field Inspection Reports and Annual Summary Reports will be sent to:

Denise Wagner NYSDEC Region 5 Route 86, P.O. Box 296 Ray Brook, New York 12977-0296 Rich Fedigan NYSDOH, Environmental Exposure 2 University Place Albany, New York 12203-3399

Ken Kogut NYSDEC Region 5 Route 86, P.O. Box 296 Ray Brook, New York 12977-0296

2.6 Contingency Gas Migration Barriers

If explosive gas levels exceed 25 percent of the lower explosive limit within any structures on or off the site (except gas control), the NYSDEC will be notified and remedial action taken. The level of subsurface gas will be monitored at the two facility landfill gas wells.

3.0 SITE MAINTENANCE PROGRAM

3.1 Quarterly Inspections

A quarterly inspection will be performed on the landfill site to identify any problems that might have developed with the cap system, stepped impoundment system, drainage system, gas venting system and mitigation wetland. This inspection will also identify the presence of any vectors on the site. This inspection will be performed at the same time as the quarterly sampling round for the Environmental Monitoring Program. An example field inspection form is provided at the back of this plan.

Repairs which are required to any of the systems identified below shall be performed to the level of, and using the same material(s) indicated in, the original construction specifications for this site.

3.1.1 Cap System

Problems with the landfill cap could include cracking, settlement, erosion or loss of vegetative cover in the cover soils on the top of the landfill or on the side slopes. If the cover soils contain cracks or settlements, the PVC geosynthetic barrier layer will be exposed to determine if it is still operational. If the PVC cap has been damaged, it will be repaired prior to replacing the cover soils and reseeding. Repairs to the PVC cap will include the removal of the protective cover materials beyond the extend of the damage. Any damaged area would be removed and the underlying subgraded would be inspected. The subgrade will be regraded as necessary and a PVC patch, large enough to extend slightly beyond the damaged area, will be solvent seamed to the undamaged portion of the PVC cap. The seam will be probed to test for any defects. The protective cover materials will be replaced and compacted to the same specifications followed during original

placement. Any erosion in the cover soil will be repaired by replacing the eroded soil and compacting it prior to reestablishing the vegetative cover. Any loss in vegetative cover will be repaired by seeding, fertilizing and mulching the unprotected area.

3.1.2 Drainage System

The drainage system inspection will identify any erosion of the ground surface in the area of the toe of slope where water discharges from the gravel drainage layer or adjacent to the shoulder diversion berm. All eroded areas will be repaired by replacing with materials of similar nature to the originally specified material and reseeded to prevent additional erosion.

Emergency spillway structures will be inspected for blockages and overall integrity to ensure proper functioning. Any observed damage or maintenance requirements will be immediately reported and repaired at the earliest opportunity.

3.1.3 Gas Venting System

Inspection of the gas venting system will include checking the vents for any physical damage or plugging and checking the cap adjacent to the vents for any settlement. All plugs or clogs in the vents will be opened up, and any damaged vents will be repaired or, if necessary, replaced. If there are any settlements in the cover soil, the PVC geosynthetic barrier layer within the vicinity of the gas vent will be exposed to determine if the penetration seal is still intact before replacing the cover soil. If the PVC cap has been damaged, it will be repaired in the manner described above prior to repairing (filling) the settled area before placing topsoil, seeding, mulching and fertilizing the disturbed area.

3.1.4 Stepped Impoundment System

Inspection of the stepped impoundment system will include checking the overflow weirs for ease of adjustment, identification of stressed or destroyed vegetation, excessive ponding of water within the impoundments, settlement of the fill within each impoundment, and evidence of surface contaminants beyond (downstream from) the last impoundment. Any observed malfunction, disturbance or indication that the system is not operating correctly will be immediately reported and repaired at the earliest opportunity.

3.1.5 Mitigation Wetland

Inspection of the mitigation wetland will concentrate on the observed condition of the wetland vegetation. Areas of stressed or destroyed vegetation will be immediately identified, reported and repaired at the earliest opportunity.

3.1.6 Vectors

Following closure, the presence of vectors on the site will be monitored. If vectors are identified, actions will be taken to remove them from the site.

3.1.7 Structures

All monitoring well covers, fences, gates and any other on-site structures should be checked to insure that they are undamaged and have been secured. Any damaged structures should be repaired using suitable methods based on the nature of the damage. All structures should be re-secured immediately.

3.2 Mowing Requirements

The vegetative cover will be mowed twice per year, with the first mowing occurring after the grass has gone to seed in the spring. The mowing should be performed with a tractor, taking care not to create deep ruts and other damage to the landfill cap.

4.0 CONTINGENCY PLANS

4.1 Fire Control

The possibility of a fire at the landfill or in the on-site equipment is a potential hazard associated with the closure of a landfill. In most situations, cover soil can be an effective and practical means of fire control. If available, water from the adjacent wetland can be used to supplement the use of soil. If a fire breaks out on the landfill and the Operator is successful in controlling it with soil, it is still recommended that the Mooers Fire Department be called to the site. The Fire Department will be able to saturate the area with water and prevent continued burning of refuse under the cover soil.

4.2 Dust

During dry periods, fugitive dust may be a nuisance resulting from the closure operation. Cover soil has the potential to create a dust problem, especially when being applied. If dust does become a problem, a water truck should be made available to control the situation.

4.3 Litter

Litter is not expected to be a problem at the site since the site is closed and covered.

4.4 Odor

Odors are not expected to be a problem since the landfill has been covered for approximately 3 years.

4.5 Noise

Since the closed landfill is relatively removed from local residences, noise associated with post-closure monitoring and maintenance operations should not be a problem.

4.6 Vectors

Vectors are not anticipated to present a prolific problem since the landfill has been covered for approximately 3 years. However, if vectors are identified, steps to remove them from the site will be taken as necessary.

4.7 Severe Weather Conditions

Various unusual weather conditions will directly affect the monitoring and maintenance of the landfill and must be dealt with accordingly. Some of these possible climatic conditions and associated remedial measures are as follows.

4.7.1 Heavy Rains

Heavy rains can create muddy situations on the landfill. The control of drainage and repairs to the perimeter access roads may be required to permit vehicular movement.

4.7.2 Snow

During winter weather, the County will be responsible for clearing the entrance roads to the site for purposes of environmental monitoring. Snow should be piled in areas that promote drainage away from the fill area. The control of drainage and repairing of perimeter access roads may be required during this time also.

4.8 Leachate Outbreaks

The capping system at the closed landfill consists of a geomembrane with an additional 2-1/2 feet of protective soil cover. The potential for leachate to outbreak through this capping system is nearly impossible; therefore, no contingency plan is presented.

4.9 Emergency Contacts

The following contacts are provided in the event of an emergency or unplanned occurrence which would require outside or support service:

CONTACT	PERSON OR AGENCY	PHONE NUMBER
Clinton County Representatives	Albert Rascoe Francis LaBarge	(518) 565-4626 (518) 565-4626
NYSDEC Region 5 Regional Engineer	Daniel Steenberge	(518) 897-1200
Clinton County Health Department	Director of Environmental Health	(518) 565-4870
Law Enforcement	New York State Police	(518) 298-5200
Fire Department	Mooers Fire Department	Dial 911
Ambulance	Mooers Ambulance Service	Dial 911
Hospital	CVPH Medical Center	(518) 561-2000
B&L Project Manager	Mark Chauvin	(315) 457-5200
B&L Principal-In-Charge	Paul Dudden	(315) 457-5200

FORMS

BARTON & LOGUIDICE, P.C.

SAMPLING DATA SHEET

SITE		SAMPLE LOCATION:
CLIENT		JOB #:
Weather Conditi	ons:	Temp:
SAMPLE TYPE:		ace Water Leachate Pr (specify):
WATER LEVEL DA	ATA	
Static Water Le	vel (feet)*:	Measuring Point: Top of Riser
Measured Well D	epth (feet)*:	Other (specify)
Well Casing Diam		Measured by:
	asing (gallons):	Time: Date:
	rom measuring point	Date.
PURGING METHO		
Equipment:	- Contraction of the Contraction	t Valve Peristaltic Pump
Volume of W	ator Pursod (sollars)	
	ater Purged (gallons):	
	I purge dry? No Yes I recover? No Yes	No. of the Control of
DIG WEI	recover? No Yes	Recovery Time :
Equipment:	Bladder Pump Foo	t Valve Peristaltic Pump Non-dedicated
Sample	ed by:	Time:Date:
SAMPLING DATA Sample Apple Color		Sediment
		uct: No Yes Thickness
		set. He
Field Measur	red Parameters	
pH (Standar		Sp. Conductivity (umhos/cm)
Temperature		Eh-Redox Potential (mV)
Turbidity (N		Dissolved Oxygen (mg/l)
Explosive Gas		Total Organic Vapors (ppm)
Samples Coll		
	ivered to:	Time:Date:
COMMENTS:		
	2	
B&L Form No. 127		Rev 7/93



FIELD	INSPECTION FORM
N	looers Landfill

	9							
BARTON & LOGUIDICE, P.C.	Date:							
Britton a gooding, 110	Barometric Pressure:							
	Weather Conditions:							
1. GAS MONITORING								
On-site structures (%LEL)	Gas Monitoring Wells (%LEL)							
Transfer Facility Emergency Spillway Manhole #1	GW-1 GW-2							
Emergency Spillway Manhole #2	GW-2							
Location of Sail Creates / Stressed	(a							
Location of Soil Cracks / Stressed	Vegetation (%LEL)							
2. GENERAL SITE MAINTENANCE Check gas vents for plugging; Check cap surface for evidence of erosion, crack control measures (swales, toe drains, culverts and emergency spillways) for evistressed or dead vegetation, erosion, settlement and approximate water levels; wells for general condition, evidence of tampering and condition of concrete su condition of perimeter fence and gates. Describe findings below:	idence of erosion; Check stepped impoundments for areas of Check weirs for proper height and adjustability; Check monitoring							
	·							
3. ADDITIONAL COMMENTS								

Chain Of Custody Record

Client: Client Project # / Project			t Name			No.											Special Turnaround	
Client Contact:	Phone #	Site Locati	on (city/state)				Con-											(Lab Notification
Sample Location:	Date	Time	Matrix	Grab or	Inter	nal Use Only	tain- ers			-								required) Remarks
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parameter and method		1	sample bottle:	type	size	pres.	Sampled by: (Please Print) Internal Use O						Internal Use Only					
1)				7,1		F	Delivery (check one): ULI Sampled Company:							very (check one):				
1)																		
2)							CC								cc			
3)							Relind	quish	ned b	y: (Si	gnatu	ıre)	Date		Time	Э	Rec	eived by: (Signature)
4)																		
5)							Relinquished by: (Signature) Date Time Received by: (Si							eived by: (Signature)				
6)																	a	
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8)						Relinquished by: (Signature) Date Time Received by: (Signature)							eived by: (Signature)					
9)							Relinquished by: (Signature) Date Time Rec'd for Lab by: (Signature)					'd for Lab by: (Signature)						
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Note: The numbered columns above	cross-referen	ce with the nu	mbered columns	in the upper	right-han	d corner.						\perp						

