SKINNER LANDFILL WORK GROUP

July 09, 2001

Scott Hanson
EPA Project Coordinator
United States Environmental Protection Agency
Region V, C-14J
77 W. Jackson_Blvd.
Chicago, IL 60604

EPA Region 5 Records Ctr.



Subject:

June 2001 Progress Report

Skinner Landfill West Chester, Ohio

This status report for June 2001 was prepared by the Skinner Landfill Group (SLG), as required by the Consent Decree entered by the United States District Court on April 2, 2001 for the Skinner Landfill in West Chester, Ohio.

June 2001 Construction Activities:

- Continued placement of sub-grade fill on south side of landfill
- Completed slurry wall construction and began construction of Interceptor Trench # 1.
- All slurry/bentonite CQA testing met specifications.
- Completed implementation of Tank & Drum Sampling Plan. Report submitted to SLG for review and approval.
- Relocated large shovel from construction site.
- Excavated two areas outside of landfill and consolidated into landfill. Confirmation soil samples were taken and we are awaiting the analytical data.
- Sub-grade shaping continued with selected waste grading.
- Former Groundwater Monitoring Well 21 was located and abandoned. Well Abandonment Record can be found in Attachment 8.
- Proterra's excavator for the slurry trench had four hydraulic oil leaks. A summary of these leaks and the corrective action taken by Proterra can found in Attachment 6.
- A slurry wall breach occurred on June 7 when an unknown drainage pipe was encountered.
- The letter detailing this event and the actions taken can be found in Attachment 7.
- Commenced installation of the landfill cap piezometers per the Groundwater Waste Monitoring Plan.

Regulatory Submittals/Approvals

Submitted revised sub-grade grading plan to US EPA. Revised plan was approved by USEPA on June 27, 2001.

Community Outreach Activities

On June 20, 2001 a meeting was held at the Earth Tech construction trailer. Attendees included West Chester Assistant Fire Chief Tony Goller, Scott Hanson - US EPA, Ben Baker - Skinner Landfill Technical Committee, and several representatives from Earth Tech. The purpose of this meeting was to review site activities and progress on the implementation of the final cover and groundwater collection system. Assistant Fire Chief Goller updates the West Chester Trustee and Township officials on the progress of the work at the site and of any upcoming activities that have potential to impact the community. The Assistant Fire Chief visits the site several times throughout the week to keep informed on site activities. A copy of the meeting summary Chief Goller prepared and submitted to West Chester officials after the meeting can be found in Attachment 5.

A meeting has been scheduled with the West Chester Board of Trustees on August 21, 2001 to provide a status update

on the implementation of the RD/RA.

Current Issues

- Ray Skinner continues to raise issues. They are being appropriately addressed as construction continues.
- Cut/Fill and topsoil quantity analysis is on going to insure that enough soils are available on-site for the project.

Field Sampling Plan Activities

Three sampling events occurred during May.

- June 27-28, 2001 Soil confirmation samples of the off-site areas excavated
- June 1, 2001 Surface water run-off sampled
- June 13, 2001 Surface water sampling was done

The results of the April 17, 2001 surface water sampling results have been validated. These results are summarized in Attachment 1.

The results of the May sampling events have been received and are undergoing data validation.

Sampling planned within the next six weeks is:

- Surface water sampling scheduled for July 16, 2001
- Surface water run-off sampling if a rain event > 0.1 inch occurs and run-off occurs
- Depending upon the results of the soil excavation confirmation sampling additional soil samples may be taken.

Additional details on the implementation of the Field Sampling Plan can also be found in Attachment 1.

Construction photo documentation of various site activities is on going. See Attachment 2 for selected photos showing various activities being conducted within this reporting period.

Weekly Construction Quality Assurance Reports can be found in Attachment 3.

Submittals Received

See Table 1 for a list of submittals received and approved by the Engineer.

See Attachment 4 for selected results of Construction Quality Assurance Testing Results for sub-grade placement and slurry trench installation. All CQA testing meet specifications.

Planned Activities:

Activities planned over the next six weeks include:

- Complete installation of interceptor trenches
- Continue removal of general fill from various borrow area with the site
- Continue shaping of waste to receive general fill
- Complete placement of general fill and sub-grade grading
- Commence installation of cap components.
- Complete the installation of landfill piezometers

- Continue construction layout by surveyors
- Sampling per Field Sampling Plan schedule
- Project meeting scheduled for July 18, 2001.
- Receive and validate and submit results of Tank & Drum sampling and initiate disposal of material.

If you have questions regarding the status of activities associated with the Site, please contact Ben Baker at (517) 636-0787

Sincerely,

Ben Baker, Chairman Skinner Landfill Technical Committee c/o The Dow Chemical Company Ashman Center 9008 Bldg 4520 E. Ashman Midland, MI 48674 (517) 636-0787

Attachments:

- 1. Field Sampling Plan Summary
- 2. Photo Documentation
- 3. Weekly CQA Reports
- 4. Selected Construction Quality Assurance Testing Results
- 5. June 20, 2001 Project Meeting Summary
- 6. Report for Hydraulic Oil Releases
- 7. Report for Slurry Wall Breach
- 8. Water Well Sealing Report

cc Chuck Mellon, Ohio EPA
Chuck Terwilliger, SLG Steering Committee
Michael O'Callaghan, Shumaker, Loop & Kendrick, LLP
Ron Roelker, Earth Tech
Rick Warwick, Earth Tech

TABLE 1

SUBMITTAL NUMBER	DESCRIPTION OF SUBMITTAL
005 Revised	 Bio-Polymer Work Plan Quality Control Waste Disposal Plan
008 Revised	Proterra Certificate of Insurance
020	 Specifications, Installation Guidelines & QC for CETCO Bentomat DN Specifications, Installation and Handling for Skaps Industries TN 220-2-7-1, Geocomposite for Drainage Layer and Gas Vent Layer (with exceptions noted) Specifications and Manufacturing QC for Agru America's 60 mil textured LLDPE Geomembrane (with exceptions noted) Mid America Lining Company Qualifications as installer and QA/QC
021	Agu America geomembrane certifications (Specification Section 02406 Paragraph 1.02 A, 4,5,7, & 12.
023	Driscopipe Data Sheets for HDPE Pipe
024	Ashai America Type 56 Butterfly Valve Data Sheets
025	Apco Flapper Swing Check Valve Data Sheets

Attachment 1 Field Sampling Plan Summary

SKINNER LANDFILL REMEDIAL ACTION FIELD SAMPLING PLAN MONTHLY REPORT

REPORTING PERIOD:

June 1, 2001 through June 29, 2001

TEST CONDUCTED:

• Surface water and surface water run-off sampling conducted (see table below)

• Soil excavation confirmation sampling

TESTING TO BE CONDUCTED WITHIN THE NEXT SIX WEEKS:

• Surface water sampling (scheduled for 7/16/01)

- Surface water run-off sampling (if greater than 0.10" rainfall event and run-off present)
- Additional soil excavation confirmation sampling (depending on results of initial sampling)

		MONTH					
MEDIA	April	May	June	July	August	September	
soil			6/27,28/01		1		
surface water	4/17/01	5/17,18/01	6/13/01				
surface water run-off	NS	5/8/01	6/1/01				
groundwater					1		
biological		5/31/01					

NS – Not Sampled (no rainfall event of greater than 0.10")

SUMMARY OF ANALYTICAL RESULTS

The final laboratory analytical results of the April 17, 2001 surface water sampling results have been validated, the results are summarized on the following page. The final laboratory analytical results of the May 8, 2001 surface water run-off and May 17 and 18, 2001 surface water sampling events have been received and are being validated.

The final bio-monitoring results have been obtained and a bio-monitoring report is being prepared.

		SAMPLE	LOCATION		
CONSTITUENT	SK-CSW50-100	SK-CSW51-100	SK-CSW52-100	SK-CSW53-100	TRIGGER LEVELS
metals				<u> </u>	
antimony	4.8 b	<3.2	<3.2	<3.2	60.0
arsenic	15.7	17.2	17.3	21.7	10.0
barium	37.6 b	36.7 b	38.2 b	38.7 b	1,00.0
beryllium	<0.1	0.1 b	<0.1	<0.1	5.0
chromium	0.9 b	<0.5	<0.5	<0.5	11.0
copper	1.6 b	1.1 b	1.6 b	1.4 b	25.0
iron	144	123	190	85.0 b	5,000.0
silver	0.8 b	0.5 b	0.7 b	0.4 b	10.0
zinc	21.3	15.8 b	19.5 b	15.7 Ъ	86.0
semi-volatiles			<u> </u>		
di-n-butylphthalate	1.7 b j	2.44 j b	1.82 b j	1.81j b	190.0
bis (2-ethylhexyl) phthalate	<10.0	<10.0	<10.0	10.6 Ъ	49.0
volatiles					
chlorobenzene	<10.0	1.0 j	<10.0	<10.0	26.0

all results reported in parts per billion (ppb)
b - constituent is found in the associated blank as well as in the sample
j - constituent detected below the reporting limit, but above the method detection limit

Attachment 2
Photo Documentation



Photo 1. Abandonment of Monitor Well GW-21 near top of landfill.



Photo 2. Construction of Slurry Wall near Station 7+00.



Photo 3. Field QA/QC testing of bentonite-water mixture (slurry).



Photo 4. Field QA/QC testing (slump) of slurry-soil mixture.



Photo 5. Pug mill for bentonite-water slurry mixture.



Photo 6. Waste placement near the northwest corner of the landfill.

Decon pad is shown at right background.



Photo 7. Construction of Interceptor Tench #1.



Photo 8. Construction of Interceptor Tench #1.

Attachment 3
Weekly CQA Reports

MEETING DATE:

Monday, June 5, 2001

ATTENDEES:

R. Roelker, J. Guenther

Current Construction Progress (work completed last week):

Continued slurry wall construction. Made minor site drainage improvements. Heavy rain occurring last week.

Planned Activities (for this week):

Continue slurry wall construction. Begin grading cap at northeast lobe. Install eastern silt fence. Move Ray's shovel.

Current Issues (cumulative):

Cut/fill quantity analysis.

Shallow rock at North Borrow Area.

Possible topsoil shortage. (to be measured in the field for estimate).

Ray Skinner indicated possible mustard gas containers buried at northwest corner of landfill.

Possible slurry wall construction on Saturdays.

Discolored water encountered at southeast corner of site (analysis in progress).

Monitor well GW-21 located and needs to be abandoned.

Issues Resolved:

CQA Activities:

Slurry/soil-bentonite CQA testing results all passing.

Proctor results from North Borrow Area received from geotech lab.

Design Issues (cumulative):

Fence realignment to allow through access to bridge and gate for west landfill entrance.

Upgrade creek erosion protection from stations 5+00 to 7+00.

No new issues.

Other Items

Hydraulic oil spill in slurry trench at two locations. Less than 5 gallons, absorbed and containerized.

MEETING DATE:

Monday, June 13, 2001

ATTENDEES:

R. Roelker, J. Guenther

Current Construction Progress (work completed last week):

Continued slurry wall construction. Waste regrading in progress.

Planned Activities (for this week):

Continue slurry wall construction. Continue waste regrading.

Current Issues (cumulative until resolved):

Cut/fill quantity analysis (regrading plan under development).

Shallow rock at North Borrow Area. (regrading plan under development).

Possible topsoil shortage. (to be measured in the field for estimate).

Ray Skinner indicated possible mustard gas containers buried at northwest corner of landfill.

Discolored water encountered at southeast corner of site (analysis in progress).

Issues Resolved:

Monitor well GW-21 abandoned in accordance with FSP.

CQA Activities:

Slurry/soil-bentonite CQA testing results all passing. Refusal in rock occurring before 2 ft key at some locations along the soil-bentonite slurry trench.

Design Issues (cumulative):

Fence realignment to allow through access to bridge and gate for west landfill entrance. Upgrade creek erosion protection from stations 5+00 to 7+00. No new issues.

Other Items

Scott Hansen visited adjacent property owner on June 12, 2001. Monthly surface water sampling to be conducted this week. Slurry breach occurred at Station 7+90 (and contained) on June 7, 2001. Regrading plan submitted to USEPA on June 8, 2001.

MEETING DATE:

Monday, June 18, 2001

ATTENDEES:

R. Roelker, J. Guenther

Current Construction Progress (work completed last week):

Continued slurry wall construction. Waste regrading in progress.

Planned Activities (for this week):

Complete slurry wall construction. Complete 90% of waste regrading. Begin leg one of interceptor trench. Excavated small contaminated soil area next week.

Current Issues (cumulative until resolved):

Cut/fill quantity analysis (regrading plan under development).

Shallow rock at North Borrow Area. (regrading plan under development).

Possible topsoil shortage. (to be measured in the field for estimate).

Ray Skinner indicated possible mustard gas containers buried at porthwest corper of

Ray Skinner indicated possible mustard gas containers buried at northwest corner of landfill.

Discolored water encountered at southeast corner of site (analysis in progress).

Ray does not want us to disturb soil at the larger contaminated soil area.

Issues Resolved:

Ray's shovel moved out of proposed construction area.

CQA Activities:

Slurry/soil-bentonite CQA testing results all passing. As-built survey of slurry wall to be conducted this week.

Design Issues (cumulative):

Fence realignment to allow through access to bridge and gate for west landfill entrance. Upgrade creek erosion protection from stations 5+00 to 7+00. No new issues.

Other Items

Jim Bradford of BCDES visited site to look at MH#9 on June 13, 2001. Piezometer installation atop cap area planned for next week.

MEETING DATE:

Wednesday, June 27, 2001

ATTENDEES:

R. Roelker, J. Guenther, A. Benson

Current Construction Progress (work completed last week):

Completed slurry wall construction. Completed 95% of waste regrading. Began construction of Interceptor Trench #1.

Planned Activities (for this week):

Complete Interceptor Trench #1, Begin #2. Place subgrade at north and east areas of landfill. Complete access road construction. Complete soil relocation of Area BP-01/BP-02 and Area GW-38. Begin installation of landfill cap piezometers. Install cap passive gas vents.

Current Issues (cumulative until resolved):

Cut/fill quantity analysis (regrading plan under review).
Shallow rock at North Borrow Area. (regrading plan under review).
Possible topsoil shortage. (4,500 CY as measured, 9,000 CY needed).
Ray Skinner indicated possible mustard gas containers buried at northwest corner of landfill.

Issues Resolved:

Discolored water encountered at southeast corner of site found to be inert. Ray OK with excavation of Area BP-01/BP-02.

CQA Activities:

Slurry/soil-bentonite CQA testing results all passed.

Interceptor Trench CQA test results all passing. Design elevations verified by RPO.

Compaction tests being conducted on subgrade placement.

Geosynthetic conformance test samples to be obtained after arrive of material rolls to the site next week.

Design Issues (cumulative):

Fence realignment to allow through access to bridge and gate for west landfill entrance. Upgrade creek erosion protection from stations 5+00 to 7+00. No new issues.

Other Items

Backfill compaction specs reduced at Area GW-38 (approved by Engineer). Confirmation soil samples to be obtained from Area BP-01/BP-02 and Area GW-38.

Attachment 4 Selected Construction Quality Assurance Testing Results

Daily Summary of Site Activities

Site: SK	inner Landfil	′(Project No.:	335
Date: 6/15	Time Work	Began: 0700	Time Work Ended:	6:00
Staff:	, Туре	No.	Organization	Hours
		Colling Jone Tottle	ET ET	
		TON Mex Scott	ET ET	
	ra, Geo-Solutio	ffird Briannaul	E1	
Equipment:		Present		Utilized (Y/N)
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Tuture Plans: _	clau ca	e to be installe	ed next weel	
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repared By:	Haron Be	V4 9//		
		4		4.

Page ____ of ____

SKINNER LANDFILL WEST CHESTER, OH

SLURRY EXCAVATION

SLURRY TRENCH

DAILY QC RESULTS

DATE:

6/15/01

INSPECTOR: B. George

Geo-Solutions

WIDTH: 24 inches

DATE	STATION	FINAL	PANEL	PANEL	DAILY	AVG.	SF
		RECORD	LENGTH	AREA	SF	SF	EXCAVATED
		DEPTH		EXCAVATED		PER	то
		FROM				DAY	DATE
		PLATFORM					
		FT	<u>FT</u>	SF			
5/29/01	3+65	0	Lead-In	0			<u> </u>
5/29/01	3+75	10	Lead-In	0		<u> </u>	
5/29/01	3+78	14.5	Lead-In	0		<u> </u>	<u> </u>
5/29/01	3+80	16	10	30.5			<u> </u>
5/29/01	3+90	16	10	160		Ĺ	
5/29/01	4+00	15.5	10	157.5			
5/29/01	4+10	15.5	10	155			
5/29/01	4+20	15.5	10	155			
5/29/01	4+30	14.5	10	150			
5/29/01	4+40	14.5	10	145			
5/29/01	4+50	14.5	10	145			
5/29/01	4+60	15.5	10	150	1248		1248_
5/30/01	4+70	16	10	157.5			
5/30/01	4+80	16.5	10	162.5			
5/30/01	4+90	16	10	162.5			
5/30/01	5+00	16	10	160			
5/30/01	5+10	17	10	165			71
5/30/01	5+20	17	10	170			
5/30/01	5+30	17	10	170			
5/30/01	5+40	17	10	170			ŢŢ
5/30/01	5+50	17.5	10	172.5			
5/30/01	5+60	21	10	192.5			
5/30/01	5+70	22	10	215			
5/30/01	5+80	22	10	220	2117.5	1683	3365.5
5/31/01	5+90	22	10	220			
5/31/01	6+00	22	10	220			
5/31/01	6+10	22	10	220	660	1342	4025
6/2/01	6+20	25	10	235			
6/2/01	6+30	25	10	250			
6/2/01	6+40	23	10	240	725	1188	4750
6/4/01	6+50	21.5	10	222.5			
6/4/01	6+60	23	10	222.5			
6/4/01	6+70	22.5	10	227.5			
6/4/01	6+80	22.5	10	225	897	1130	5648
6/5/01	6+90	21.5	10	220			
6/5/01	7+00	21.5	10,	215			
6/5/01	7+10	21.5	10	215	650	1049	6298
6/6/01	7+20	23	10	222.5	223	932	6521
6/7/01	7+30	23	10	230			

SKINNER LANDFILL WEST CHESTER, OH

SLURRY EXCAVATION

SLURRY TRENCH

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DATE	6/15/01

STATION

FINAL

PANEL

INSPECTOR: B. George

DAILY

AVG.

SF

Geo-Solutions

PANEL

WIDTH: 24 inches

DATE

DATE	SIAHON	FINAL	FAUTEL	PARTE	DALL	ATO.	5140 414 555
		RECORD	LENGTH	AREA	SF	SF	EXCAVATED
		DEPTH		EXCAVATED		PER	TO
		FROM				DAY	DATE
		PLATFORM					
		<u>FT</u>	FT	SF		,	
6/12/01	11+30	25	10	253	1839	1155	13863
6/13/01	11+40	26.6	10	258			
6/13/01	11+50	32.6	10	296			
6/13/01	11+60	35	10	338			
6/13/01	11+70	34	10	345			
6/13/01	11+80	33.4	10	337			
6/13/01	11+90	33.6	10	335			
6/13/01	12+00	33.4	10	335	2244	1239	16107
6/14/01	12+10	33	10	332			
6/14/01	12+20	33	10	330			
6/14/01	12+30	31.9	10	324.5			
6/14/01	12+40	31.6	10	317.5			
6/14/01	12+50	30.6	10	311			
6/14/01	12+60	29.3	10	299.5			
6/14/01	12+70	28	10	286.5	2201	1308	18308
6/15/01	12+80	27.6	10	278			
6/15/01	12+90	27.3	10	274.5			
6/15/01	13+00	28	10	276.5			
6/15/01	13+10	28.3	10	281.5			
6/15/01	13+20	24.3	10	263			
6/15/01	13+30	25	10	246.5			
6/15/01	13+40	25	10	250		<u> </u>	
6/15/01	13+50	20.5	10	227.5			
6/15/01	13+52	20.5	2	41	2139	1363	20448
<u> </u>	~	LJ				L	<u></u>

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	actor's QC Supe	ervisor	•	0.0.120.	Owner's Repres	entative

GEO-SOLUTIONS/PRO-TERRA

SKINNER LANDFILL WEST CHESTER, OH

SLURRY EXCAVATION

SLURRY TRENCH

DAILY QC RESULTS

DATE: 6/15/01

INSPECTOR: B. George

Geo-Solutions

WIDTH: 24 inches

DATE	STATION	FINAL RECORD DEPTH FROM PLATFORM	PANEL LENGTH	PANEL AREA EXCAVATED	DAILY SF	AVG. SF PER DAY	SF EXCAVATED TO DATE
		FT	FT	SF			
6/7/01	7+40	22.5	10	227.5			,
6/7/01	7+50	21	10	217.5			,
6/7/01	7+60	19.5	10	202.5			
6/7/01	7+70	19	10	192.5		948	7591
6/8/01	7+80	18.5	10	187.5			
6/8/01	7+90	16	10	172.5			
6/8/01	8+00	15.5	10	157.5			
6/8/01	8+10	13	10	142.5			
6/8/01	8+20	11.5	10	122.5			
6/8/01	8+30	12.5	10	120			
6/8/01	8+40	12.5	10	125			1
6/8/01	8+50	12.5	10	125	·		
6/8/01	8+60	12.5	10	125			
6/8/01	8+70	12.5	10	125	1402	999	8993
6/9/01	8+80	12.6	10	125.5			
6/9/01	8+90	12	10	123			
6/9/01	9+00	11	10	115			
6/9/01	9+10	11	10	110			T
6/9/01	9+20	11.5	10	112.5			
6/9/01	9+30	11.6	10	115.5			
6/9/01	9+40	11	10	113			
6/9/01	9+50	12.6	10	118			
6/9/01	9+60	13	10	128			
6/9/01	9+70	13	10	130	1190	1018	10183
6/11/01	9+80	13	10	130			
6/11/01	9+90	12.6	10	128			
6/11/01	10+00	18.3	10	154.5			
6/11/01	10+10	20.5	10	194			
6/11/01	10+20	21.5	10	210			
6/11/01	10+30	24.8	10	231.5			
6/11/01	10+40	26	10	254			
6/11/01	10+50	28	10	270			
6/11/01	10+60	25.8	10	269	1841	1093	12024
6/12/01	10+70	27.8	10	268			
6/12/01	10+80	27	10	274			
6/12/01	10+90	26.4	10	267			
6/12/01	11+00	26.4	10	264			٧.
6/12/01	11+10	25.3	10	258.5			
8/12/01	11+20	25.6	10	254.5			

GEO-SOLUTIONS/PRO-TERRA

SKINNER LANDFILL WEST CHESTER, OH

BACKFILL SLOPE

DAILY QC RESULTS

DATE. USTAINT	DATE:	06/15/01	INSPECTOR: B. George
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BACKFILL SLOPE MEASUREMENTS (EVERY 10 FEET)

	AM	-	<u>PM</u>
STATION NO.	DEPTH	STATION NO.	DEPTH
11+40 11+50	1.5	11+40 11+50	0
11+60	9.5	11+60	0
11+70	12.5	11+70	0
11+80	15	11+80	0
11+90	16.5	11+90	0
12+00	19 19.5	12+00 12+10	1-8-1
12+10 12+20	21	12+20	0
12+30	23	12+30	1 0
12+40	25	12+40	0
12+50	26.5	12+50	0
12+60	27.5	12+60	3
12+70	28	12+70	11.5
		12+80	13.5
	<u> </u>	12+90	16
		13+00	17.5
 	}	13+10	21 24.5
	 	13+20 13+30	25
 		13+40	25
	 	13+50	20.5
 		13+52	20.3
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COMMENTS:

SIGNED: CONTRACTOR'S OC

SKINNER LANDFILL WEST CHESTER, OH

FRESH SLURRY

DAILY Q	C RESULTS				
DATE:	06/15/01	_	INSPECTOR Geo-Solution		
FRESH S	LURRY:	VISCOSITY (4 TIME	PER SHIFT) MINIMUM 40	SECONDS	
	TIME:	N/A	RESULT:	SECONDS	
		DENSITY: (2 TIME P	PER SHIFT) MINIMUM 64 I	PCF	
	TIME:		RESULT:	PCF	
		FILTRATE LOSS (O	nce per Truckload) <30 C	C IN 30 MINUTES	
	TIME: DATE:	9:30 6/5/01	RESULT: 13]cc	
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	TIME:		RESULT:]	
			mixed this date for slui		0
			mixed to date for slum mixed to date for slur		205 960
COMMEN	ITS:	as mixed this shift.		•	
	No siuny w	as mixed uns sinic			
				٠	•
SIGNED:	Contractor's QC S	Supervisor	SIGNED:	Owner's Representative	
	+ +	supervisor 🔾		a	

GEO-SOLUTIONS/PRO-TERRA

SKINNER LANDFILL WEST CHESTER, OH

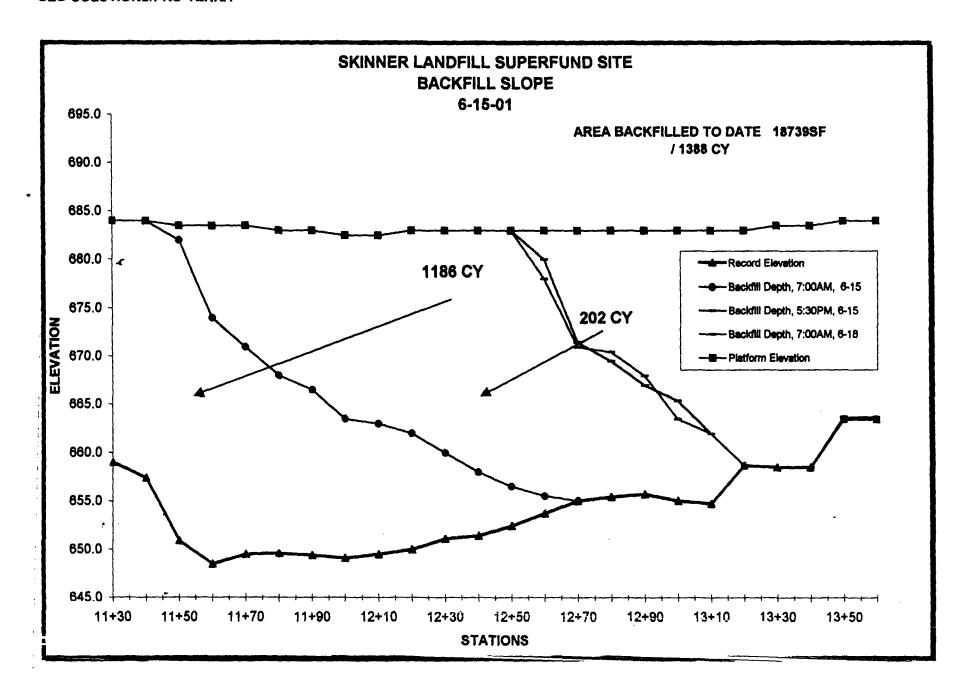
		TRENCI	<u> I SLURRY</u>			
DAILY QC RES	ULTS			INSPECTOR: B. George		
DATE:	06/15/01	3		Geo-Solutions		
TRENCH SLURR	Ý:	VISCOSITY 12 TIMES P	R SHIFT) MINIMUM 40	SECONDS		
FIRST SAMPLING	3		SECOND SAMPLE	NG		
TIME: STATION SAMPLE DEPTH:	8:20 12+80 Bottom	RESULT: 63 SE	TIME: STATION SAMPLE DEPTH:	13:30 13+00 Bottom	83] SEC:
		DENSITY: 12 TIMES PER	R SHIFT) \$4-63 PCF			
FIRST SAMPLING			SECOND SAMPLE		 	
TIME: STATION SAMPLE DEPTH:	8:20 12+80 Bottom	RESULT: 85.5 PC	TIME: STATION SAMPLE DEPTH:	13:30 13+00 RESULT:	89.5	PC:
COMMENTS:						
SIGNED:			SIGNED:	•	•	
SIGNED:	Contractor's QC S	upervisor	SIGNED:	Owner's Representative		
		\				

SKINNER LANDFILL WEST CHESTER, OH

S-B BACKFILL

DAILY QC RESULTS

DATE	:06/15/01			INSPECTOR:	B. George
SLUMP: (3-6 STATION 11+80		oer shift) TME: 9:45	RESULT:	INCHES	
UNIT WEIGH	т: (2 г	er shift)			
STATION 11+60 12+10] [IME: 9:45 3:45	RESULT: 127 123	PCF	
COMMENTS:		was collected at sta	i. 11+60, for testing off site.		
SIGNED:	Contractor's QC Supervi	sor		SIGNED:	Owner's Representative



GEO-SOLUTIONS/REMTECH

Skinner Landfill Superfund Site West Chester, OH

DAILY BACKFILL SLOPE AND AREA DATA

DATE: 6/15/01

DATE.	er i aru i								•	TOTAL	TOTAL	TOTAL
	RECORD	RACKELL	BACKELL	BACKFILL	PLATFORM	RECORD	BACKFILL	BACKFILL	BACKFILL			
	KLOOKD	DEPTH	DEPTH	DEPTH	O O	DEPTH	DEPTH	DEPTH	DEPTH	AREA	AREA	AF EA
		7:00AM	5:30PM	7:00AM			7:00AM	5:30PM	7:00AM	7:00AM	5:30PM	7.C AM
		15-Jun	15-Jun	18-Jun			15-Jun	15-Jun	18-Jun	AM	PM	₽ h. l
STATION	EL	EL	EL	EL	EL	FT	FT	FT	FT	SF	SF	# F
11+20	658.9	684.5	684.5	684.5	684.5	25.8	0	0	0	254.5	254.5	2545
11+30	659.0	684.0	684.0	684.0	684	25	0	0	0	253	253	251
11+40	657.4	684.0	684.0	684.0	684	26.6	0	0	0	258	258	231
11+50	650.9	682.0	683.5	683.5	683.5	32.6	1.5	0	0	288.5	296	293
11+60	648.5	674.0	683.5	683.5	683.5	35	9.5	0	0	283	338	233
11+70	649.5	671.0	683.5	683.5	683.5	34	12.5	0	0	235	345	345
11+80	649.6	668.0	683.0	683.0	683	33.4	15	0	0	199.5	337	237
11+90	649.4	666.5	683.0	683.0	683	33.6	16.5	0	0	177.5	335	235
12+00	649.1	863.5	682.5	682.5	682.5	33.4	19	0	0	157.5	335	235
12+10	849.5	663.0	682.5	682.5	682.5	33	19.5	0	0	139.5	332	332
12+20	650.0	662.0	683.0	683.0	683	33	21	0_	0	127.5	330	330
12+30	651.1	860.0	683.0	683.0	683	31.9	23	0	0	104.5	324.5	3; ∠.5
12+40	651.4	658.0	683.0	683.0	683	31.6	25	0_	0	77.5	317.5	3 7.5
12+50	652.4	85 6.5	683.0	683.0	683	30.6	26.5	0	0	53.5	311	\$ 11
12+60	653.7	65 5.5	680.0	678.0	683	29.3	27.5	3	5	29.5	284.5	2 - 5
12+70	655.0	655.0	671.5	671.0	683	28	28	11.5	12	9	214	201.5
12+80	655.4		669.5	670.5	683	27.6		13.5	12.5		153	1:35.5
12+90	655.7		667.0	668.0	683	27.3		16	15		127	127
13+00	655.0		665.4	663 .5	683	28		17.6	19.5		108.5	104
13+10	654.7		662.0	662.0	683	28.3		21	21		88.5	713
13+20	858.7		658.7	658.7	683	24.3		24.3	24.3		36.5	36. 5
13+30	658.5		65 8.5	658.5	683.5	25		25	25		0	Ċ
13+40	658.5		658.5	658.5	683.5	25		25	25		0	C
13+50	683.5		663.7	863.5	684	20.5		20.3	20.5		1	Çı
13+52	663 .5		663.7	683.5	684	20.5		20.3	20.5		2	Çi.
										16008	18742	14015
										SF	SF	3F
										U ,	U ,	.31
										1186	1388	13 96
										CY	CY	CY

GEO-SOLUTIONS/REMTECH

Skinner Landfill Superfund Site West Chester, OH

DAILY BACKFILL SLOPE AND AREA DATA

* <u>.</u>. .

DATE:	6/15/01									TOTAL	TOTAL	TOT
	proops	DA-04544	D. OVE!!!	5404011	C/ 4TEOD14	250000	0.04541	BAOVELL	DAOVELL	TOTAL	TOTAL	TOT .
	KECOKD				. PLATFORM					AREA	AREA	
		DEPTH	DEPTH	DEPTH 7:00AM		DEPTH	DEPTH 7:00AM	DEPTH	DEPTH 7:00AM	7:00AM	5:30PM	7:00.3 d
		7:00AM	5:30PM				15-Jun	5:30PM	7:00AM 18√Jun	AM	PM	Alti
0T4T/01	5 1	15-Jun	15-Jun	18-Jun	. .		FT	15√Jun		SF	SF	Si
STATION		EL	EŁ	EL	EL	FT		FT	FT I 0	•	-	
11+30	659.0	684.0	684.0	684.0	684	25	<u> </u>	0		253	253	253
11+40	657.4	684.0	684.0	664.0	684	26.6	0	0	0	258	258	2 53
11+50	650.9	683.5	883.5	683.5	683.5	32.6		0	0	296	296	2 96
11+60	648.5	683.5	683.5	683.5	683.5	35	0	0	0	338	338	3 (3
11+70	649.5	683.5	683.5	683.5	683.5	34	0	0	0	345	345	3: :
11+80	649.6	683.0	683.0	683.0	683	33.4	0	0	0	337	337	3 . i
11+90	649.4	683.0	683.0	683.0	683	33.6	0	0	0	335	335	3 : if
12+00	649.1	682.5	682.5	682.5	682.5	33.4	0	0	0	335	335	3:12.
12+10	649.5	662.5	682.5	682.5	682.5	33	0	0	0	332	332	3 :::
12+20	65 0.0	683.0	683.0	683.0	683	33	0	0	0	330	330	3 (4)
12+30	651.1	683.0	683.0	683.0	683	31.9	0	0	0	324.5	324.5	3245
12+40	851.4	683.0	683.0	683.0	683	31.6	0	0	0	317.5	317.5	317.5
12+50	652.4	683.0	683.0	683.0	683	30.6	0	0	0	311	311	211
12+60	653.7	678.0	683.0	683.0	683	29.3	5	0	0	274.5	299.5	2: :.5
12+70	655.0	671.0	683.0	683.0	683	28	12	0	0	201.5	286.5	21.6.5
12+80	655.4	670.5	683.0	683.0	683	27.6	12.5	0	0	155.5	278	178
12+ 9 0	655.7	668.0	683.0	683.0	683	27.3	15	0	0	137	274.5	2 4 5
13+00	655.0	863 .5	683.0	683.0	683	28	19.5	0	0	104	276.5	2 11.5
13+10	654.7	662.0	683.0	683.0	683	28.3	21	0	0	79	281.5	25.5
13+20	658.7	658.7	683.0	683.0	683	24.3	24.3	0	0	36.5	263	!£3
13+30	658.5	658.5	683.5	683.5	683.5	25	25	Ō	0	0	246.5	2,≠3.5
13+40	658.5	658.5	683.5	683.5	683.5	25	25	ō	0	ō	250	360
13+50	663.5	663.5	684.0	684.0	684	20.5	20.5	Ö	0	Ö	227.5	227.5
13+52	663.5	683.5	684.0	684.0	684	20.5	20.5	0	0	ŏ	205	2.35
	555.5	5 .5	557,5	,,,,	•	24.0		<u></u>	· · · · · · ·	, •		
										18715	20448	20 ≤48
										SF	SF	SF

1386 1515 1 315 CY CY CY

Daily Summary of Site Activities

Site: S Kin.	ner Landfill		Project No.: 3	8335		
	Time Work Began:O	700	Time Work Ended: 7:3°			
Staff:	, Type ther, mitten collins, John T	No.	Organization ET	Hours		
	with Sherm, Alox Sur		ET			
	snin Marsh . Ken Filley .	•	ET			
	end Jenny Downard end, 600 solutions		ET			
Equipment:	Preser	nt		. Utilized (Y/N)		
	ruster tire, I backhou			<u>yer</u>		
1 PC 300	1065 1 Nater 1	truck, 2 of	froads	yer .		
10 Tem	is equipment	· · · · · · · · · · · · · · · · · · ·		. <u>7es</u>		
death on	access road cor	" lift/cap	added on NW	COLVEL		
for subg	rade-compaction 2 nearly dug out	tested by	Alt - Nitzig,	PCB area		
BPOI/ BPO	of I.T. #	1 1.T. #	1 complete	ret up		
Comments:/	2" subgrade be neeting the re	ing met.	compaction with	h sheeps foot no tests		
Future Plans:	rample pell area	1 BPO1/B I.T. # 2	poz, continu	e adding		
Prepared By:/	garon Benson	Y		Page of		

SKINNER LANDFILL WEST CHESTER, OH

SLURRY EXCAVATION

BIO-POLYMER SLURRY TRENCH

DAILY QC RESULTS

DATE:	6/27/01	INSPECTOR: B. George
		Geo-Solutions

WIDTH: 24 inches

DATE	STATION	FINAL RECORD DEPTH FROM	PANEL LENGTH	PANEL AREA EXCAVATED	DAILY SF	AVG. SF PER DAY	SF EXCAVATED TO DATE
21-Jun	3+95	5	0	Lead-In		1	T
21-Jun	3+90	5	5	Lead-In		 	
21-Jun	3+85	10	5	Lead-In	·	 	
21-Jun	3+79	13.5	6	70.5		 	
21-Jun	3+75	13.5	4	54		 	
21-Jun	3+70	10	5	58.75			
21-Jun	360	9.5	10	97.5	 	1	
21-Jun	3+50	9.5	10	95			
21-Jun	3+40	9.6	10	95.5			
21-Jun	3+30	9.5	10	95.5			
21-Jun	3+20	9.6	10	95.5		1	
21-Jun	3+10	10	10	98			
21-Jun	3+00	9.5	10	97.5	857.5		857.5
22-Jun	2+90	9.5	10	95		1	T
22-Jun	2+80	9.5	10	95			
22-Jun	2+70	9	10	92.5			1
22-Jun	2+60	9	10	90			
22-Jun	2+50	9	10	90	462.5	860	1320
23-Jun	2+40	9	10	90		1	T
23-Jun	2+30	9	10	90			
23-Jun	2+20	9	10	90			
23-Jun	2+10	9	10	90			
23-Jun	2+00	9	10	90			
23-Jun	1+90	9	10	90	541	620	1861
25√un	1+80	9	10	90			[
25-Jun	1+70	9	10	90			
25√Jun	1+60	9	10	90			
25-Jun	1+50	9.5	10	92.5			
25-Jun	1+40	9.5	10	95			
25-Jun	1+30	9.5	10	95		<u> </u>	ļ
25-Jun	1+20	9.5	10	95	647.5	701	2508.5
26-Jun	1+10	10	10	97.5			
26-Jun	1+00	10	10	100	· 		
26-Jun	0+90	10.5	10	102.5			 .
26-Jun	0+80	10.5	10	105			
26-Jun	0+70	10.5	10	105		 	
26-Jun	0+60	10.7	10	106	7015	<u> </u>	
26-Jun	0+50	11	10	108.5	724.5	647	3233
27-Jun	0+40	11.5	10	112.5			
27-Jun	0+30	11.8	10	116.5			 .
27-Jun	0+20	11.8	10	118		 	
27-Jun	0+10	12	10	119			
27-Jun	0+00	12.5	10	122.5	586	637	3819

	_	_	_	_	_	_	
C	O	и	М	F	N	TS.	

Geo-textile fabric was installed from sta. 0+50 to sta. 0+00.
Trench was backfilled with gravel medium, to trades, through sta. 0+00.
Interceptor well was installed at sta. 3+79, observation wells were installed at sta. 3+20, 2+20, 1+20. And 0+20.

Interceptor	Well Was installed at stal. 3+/5	, observation were were installed at stal	3+20, 2+20, 1+20. And 0+20.
SIGNED:	Contractor's QC Supervisor	SIGNED:	Owner's Representative

Geo-Solutions/Pro-Terra

SKINNER LANDFILL WEST CHESTER, OH

BACKFILL SLOPE

DAILY QC RESULTS

Inspector: B. George

DATE: 6/27/01

Geo-Solutions

BACKFILL SLOPE MEASUREMENTS (EVERY 10 FEET)

	<u>AM</u>		<u>PM</u>
STATION NO. 0+70 0+80 0+50		STATION NO. 0+70 0+80 0+50 0+40 0+30 0+20 0+10	PM DEPTH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
COMMEN	TS:		L
SIGNED:	Contractor's QC Supervisor	SIGNED:	Owner's Representative

Geo-Solutions/Pro-Terra

SKINNER LANDFILL WEST CHESTER, OH

BIO-POLYMER PLANT SLURRY

DAILY QC RESULTS

	Δ	T	c	
v	~		ᆫ	

6/27/01

INSPECTOR: B. George

Geo-Solutions

2

Plant N	dixed	Slurry
---------	--------------	--------

Date	Time	Polymer	Density	Viscosity	pН	Comments
	(hrs.)	(5-gals.)	(lbs./c.f.)	(MF sec)		
27-Jun	10:00		63	50	8	
	13:30		63	52	8	
	14:30		63	52	8	
	15:30	2	63	50	8	
			-			
]		}			,	
				 		
		<u> </u>		-		
						
		1				
					-	
						

Number of 5 gal. pails of polymer mixed for slurry to date	42	
COMMENTS:		
		_
SIGNED:	SIGNED:	

Number of 5 gal. pails of polymer mixed for slurry this shift.

Geo-Solutions/Pro-Terra

SKINNER LANDFILL WEST CHESTER, OH

BIO-POLYMER TRENCH SLURRY

DAILY QC RESULTS

DATE:	6/27/01

Inspector:

B. George

Geo-Solutions

Trench Slurry (4 times per shift)

Helicii Sil	uity	(4 miles he	SIRL)			
Time	Station No.	Depth	Viscosity	pН	Density	Comment
7:45	0+20	Bottom	28	8	63_	
	-					

COMMEN	COMMENTS:						
One trend	One trench sample was collected this shift.						
			···				
							
		···	L	,			
SIGNED:		SIGNED:					
Contractor's QC Supervisor		5.5.125.	Owner's Represe	mtative	-		

	6-2					hand					Page	of	
Daily Techn	Report No ician:	MAIK		ct No.: puter Entry:					Comput	er Backche	ck:		
Test Number	Retest Ref. No.	Location and Description	North Coordinate	East Coordinate	Elevation (Ft.)		Probe Depth (Inches)	Wet Density (Pcf)	Dry Density (Pcf)	Moisture (Pcl)	Moisture (%)	Proctor (Pcl)	% Com- paction
/		6-w/38				Br SACL	8"		28.6		11.9	129.1	99.6
2		Section 9		143,2552		u	14	/	1269		12.4	ıc	98.2
3		11 (9)	491900	1432600		((Ις	133.9	124.6	11.7	11.8	10	96.5
							ļ		L				
	L.—												
													· .
											-		
Commer	its:												



Alt & Witzig Engineering, Inc.

10178 International Boulevard - Cincinnati, Ohio 45246 (513) 874-9494 - Fax (513) 874-9452

REPORT OF FIELD COMPACTION TESTS

Projec: Skinner Landf.11	Compaction Specifications: 20%
Client: 1-41th Tech	Compaction Equip. Used: pullbehine Sheep
Date: 6-: 17-61 Day: Wednesday	Description of Fill Material: Br SA Cl We
Techn cian MACK	Source of Material:
Weather/Terns: Sunay 165-805	

Test No.	Grade/Elev.	Soil ID Number	Maximum Lab Dry Density	Moisture Content	In Place Dry Density	Percent Compaction	Comments
1	Brade	25C	128.1	11.9	128.6	99.6	4
2	1/			12.4	126.9	98.2	4
3	11			11.7	124.6	98.2	A
4							
5		T					
6	i						
7							
8							

Test No.			Test Location			
1	Gw/38					
2	= 1432550	N 491850				
3	= 1432550	N 491980				
4				•	,	
5						
6		Y		 •		
7						
8				 		

Attach sketch if locations are unclear.

Densities Shown. Lbs. Per cubic foot Moisture Content: Percent of dry weight

Percent Compac in: Based on maximum dry density obtained on sample indicated by soil ID number.

(*)A = Test Results Comply with Specifications

B = Recompaction Required

C = Test is After Recompaction

Attachment 5

June 20, 2001 Project Meeting Summary

Baker, Ben (BF)

From: Sent:

Wyrick [PWyrick@westchesteroh.org] Wednesday, June 20, 2001 2:34 PM

To:

turnerwr@butlercountyohio.org; DNoonan@ctmt.com; jta@fuse.net; melissacic@fuse.net;

vickicic@fuse.net; Kathleen.Klink@lakotaonline.com; larry.glass@lakotaonline.com; mick.krieger@mail.house.gov; taco_99@msn.com; dmccabe@one.net;

Lindenschmidt@prodigy.net; catherine@stoker.org; Korrer Amy; Rice; Murphy; Zerkle; James Detherage; Gully; Denise Huffman; John Bruce; Carter; Herzog; Wyrick; Fitzgerald; Huxsoll; Melissa Koehler; Michelle Morgan; Maryann Santel; Rahtz; William; Scott Campbell;

Pendergrass; Vicki Hutchinson; Paily.Eapen@wheaton.edu; dovewong@yahoo.com Baker, Ben (BF); Tony Goller

Cc: Subject: Fwd: Skinner Monthly Meeting



Please see attached document from Assist. Fire Chief Tony Goller on the Skinner Site meeting which Meeting

took place today. (6/20/01) Also,

Mr. Ben Baker of the Skinner Group accepted our invitation to come to a Trustees meeting to give an update of the project. He will attend the Tues., August 21st meeting and will be addressing the board during the beginning of the meeting (shortly after 7:00 p.m.)

Baker, Ben (BF)

From: Sent:

Tony Goller [Tgoller@westchesteroh.org] Wednesday, June 20, 2001 1:13 PM

To:

Dan hegeman; Bill Borneman; James Detherage; Daniel Hegeman; Doug Morath; Santel; Edward Mayer; Jeff Elder; Mark Brate; Michael Hoell; Mike Mays; Paul Kreiner; Randall

Hanifen; Rodney Parrett; Rick Prinz

Cc:

Wyrick

Subject:

Skinner Monthly Meeting

6/20/01 11:00am

Work presently being done on shaping of cap with a trac hoe. moving some dirt.

Slurry wall/trench was completed last Friday. Wall is keyed into bedrock in all areas.

Will be digging up dirt for waste consolidation from driveway area (southwest of site) next Weds. 6/27. Should take 3 or so days to complete.

Interseptor trench should start this afternoon, weather permitting.

Some grading has been done for surface water drainage.

Drum sampling has been done and a draft report on data and recommended actions should be to Ben Baker by weeks end. Very little liquid was found. That liquid will be put into one drum and shipped off site for proper disposal, as it stands now. Other drums were nonhazardous solids from previous soil work on the site.

They will start working Saturday's effective this Saturday 6/23 7:00-3:30 to get interseptor trench completed.

Earth Tech has been working with Jim Bradford from BC Env. Services on the sewer tap. Hopefully a mid-July tie in.

Ben Baker will be at the Trustee Mtg. Aug. 21st for a site up-date.

The liner for the cap should be scheduled to be delivered in July. 14-20 trucks. Will let us know when date is closer and confirmed.

Earth Tech is working on the final grading plan to be submitted and approved by USEPA.

No contaminates have been detected above any action levels up to this point.

One injury on site was a back strain, pulling construction fence out of mud and strained back.

Mid-American Company will be doing the cap.

Approximately 17 workers have been at the site daily.

Five (5) Pizometer (2" Plastic pipe) wells are to be installed on top of the site next Tues. 6/26 to monitor the ground water levels vs the waste levels.

Next Mtg July 18 11:00am.

Attachment 6 Report for Hydraulic Oil Releases

SKINNER LANDFILL WORK GROUP

July 6, 2001

Mr. Scott K. Hansen Remedial Project Manager USEPA - Region 5 77 West Jackson Boulevard Chicago, IL 60804-3590

RE:

Report for Hydraulic Oil Releases Groundwater Interceptor System Skinner Landfill, West Chester, Ohio

Dear Mr. Hansen:

The following releases of hydraulic oil occurred along and during the slurry wall trench construction:

Date	Location
May 31, 2001	Station 6+00
June 5, 2001	Station 7+00
June 6, 2001	Station 7+00 to 7+20
June 7, 2001	Station 7+40

Each release was less than 1 gallon. In all cases, the oil was removed using oil sorbant pads. The sorbant pads were drummed and removed from the site. We have contacted our subcontractor concerning these releases and they have responded with the attached letter. The contingency plan was not activated since the quantity released was less than that required to be reported under the *Ohio EPA Petroleum Contaminated Sites Guidance Document for Emergency Response Actions*, dated July, 1997.

Should you have any questions, please contact me at (517) 636-0787.

Sincerely,

Ben Baker

Skinner Landfill Work Group

Technical Coordinator

LETTER OF TRANSMITTAL

Transmittal # 01



VIA REGULAR MAIL FEDERAL EXPRESS FAX E-MAIL

				Wilder, KY 410/6 Phone: (859) 442-2300		
DATE: June 14, 2001 JOB/PRO		OJECT: Skinner Landfill West Chester, OH 38335.05		Fax (859) 442-2306		
ATTENTION: Ron Roelke	r					
SUBJECT: Hydraulic Line	e Breakage PC-400					
WE ARE SENDING	S VOII:					
Attached	3 100.		Under sep	arate cover via the following items:		
Copy of letter	Change order		Prints	Specifications		
Flow sheets	P & ID		Samples	_		
Shop drawings	Plans	Other				
Item Number of Number Copies	Document Type	Description				
1 1	Сору	Proterra's Corrective Action	on Plan for Line Bre	akage		
<u> </u>	 					
						
THESE ARE TRANSMITTED			□ .			
For approval	Approved as submitted		Resubmit copies for approval			
For your use As requested	Approved as noted		Resubmit copies for distribution Return corrected prints			
For review & comment	<u> </u>		Prints Returned After Loan to Us			
FOR BIDS DUE		·				
REMARKS:				Engineer's Approval:		
Ron: Let me know if these ad	ctions meet with your	approval.				
Widening the trench at the top should minimize line scraping.						
COPIES TO:						
SENT BY/SIGNED: Rick Wa	rwick					



Environmental Solutions for Today's Business.

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EMERGENCY 24-HOUR 1-8-PROTERRA-4

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www.proterra-ec.com

June 13, 2001

Earth Tech 200 Vine Street Wilder, Kentucky 41076

Attn: Mr. Rick Warwick, Project Director

Re: Skinner Landfill GWI System

West Chester, Ohio

Gentlemen:

Pro-Terra understands the concern you have over the breaking of hydraulic lines on the boom of the Komatsu PC 400 Excavator being used for trenching. We share your concerns about environmental impacts and impacts on the quality of the bentonite slurry. Furthermore, we also have productivity and economic impacts that direct us to take action to avoid similar breaks in the future.

The hydraulic oil has no impact on the performance of the slurry. The slurry has a relatively high density, higher than that of water, therefore when a release of hydraulic oil occurs, the hydraulic oil rises to the surface. The hydraulic oil will not mix with the slurry or create any type of reaction. There should be no concern for the performance of the final product, which is the soil/bentonite mixture used as trench backfill.

The amount of hydraulic oil spilled has been and should be below the 25 gallon volume which is reportable. Environmental clean up of any spill will be accomplished. We have an ample supply of absorbents on-site for emergency cleanup of any hydrocarbon spill. Subsequent to sit clean up, absorbents and hydrocarbons will be properly disposed of.

We have taken several preventative measures to limit the likelihood of a future break:

Replacement of all steel and high pressure hydraulic lines on the stick from the boom knuckle down to the bucket cylinder. Additional

brackets which affix the hydraulic lines to the stick have been added to help avoid snagging the lines on the trench walls.

The problem area for potential breaks appears to be at the knuckle connection between the boom and stick due to the two foot wide bucket being used. The slenderness of the trench creates the tendency for the boom knuckle and hoses to rub against the side of the trench when digging at depths greater than 18 feet. We will employ one of two methods to slightly widen the trench out to minimize rubbing the side walls. Side cutters have been attached to the bucket which in effect widens the trench 6 to 8 inches. We can also dig the trench wider in the upper portion of the trench down to the depth of the knuckle.

We hope that our actions have satisfactorily addressed your concerns. We have taken what we consider to be reasonable measures to avoid future breaks in the hydraulic lines. Due to the nature of digging in the blind below the surface of the slurry, we cannot fully guarantee that no more breaks will occur.

Should there be any questions concerning this matter, please contact this writer at your earliest convenience.

Sincerely,

PRO-TERRA ENVIRONMENTAL CONTRACTING COMPANY

Michell Can Il

Michael J. Ciammaichella, PE

General Manager

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File

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BOB N.

Attachment 7 Report for Slurry Wall Breach

SKINNER LANDFILL WORK GROUP

July 6, 2001

Mr. Scott K. Hansen Remedial Project Manager USEPA - Region 5 77 West Jackson Boulevard Chicago, IL 60804-3590

RE: Report for Slurry Wall Breach (June 7, 2001)

Groundwater Interceptor System Skinner Landfill, West Chester, Ohio

Dear Mr. Hansen:

On June 7, 2001 at about 6:15 PM a previously unknown drainage pipe was encountered at Station 7+90 while excavating for construction of the slurry wall as shown on the attached Figure 1 and Photo 1. The 15-inch diameter metal pipe was found to be about 3 ft below grade, 25 ft long and daylighted between the fence and the East Fork Mill Creek. No evidence of the pipe was found on the west side of the slurry trench.

Remedial measures consisted of constructing a bermed containment area on the down-gradient side of the pipe and placing silt fence between the containment area and creek as shown on Photo 2. Slurry was then mixed with soil and moved to a dry-out area (Photo 3). Several days after drying, the slurry-soil mixture was placed in the landfill. The pipe was pulled completely out and also was placed in the landfill. The excavation was then backfilled with cohesive soils. The containment area was also restored to original grades.

A nominal amount of slurry reached the edge of the creek (Photo 4), causing some temporary muddy water along the bank. Muddy water was not observed downstream of the breach area. The contingency plan was not activated since the material was non-hazardous non-petroleum substance.

Should you have any questions, please contact me at (517) 636-0787.

Sincerely,

Ben Baker

Skinner Landfill Work Group

Technical Coordinator

EARTH 🖨 T E	СН			PAGE OF	<u>, </u>
A TYCO INTERNATIONAL LTD. COMPANY	CAL	CULATION SHEET	-	PROJECT NO.	
CLIENT SLWG		_	.		Date 7-5-/
PROJECT Skinner (2nd fill	16-7-	2001)		Date _ Date
EDGE OF SOUTH BORROW - AREA	Scorery 7+5	WALL	X X X		_ SILT PENCE
SLUKRY PRY-OUT	EXISTS FERKE	7480	Scores CON - ASNIVEM AREA		D. 3' HTWH ON TAINMENT BERM
EAST FO	ek Mill	CHEEK		BCDES MAN HOLE # - "= 3	N

SCALE: 10 sq./in

Rev. 3/99



Photo 1
This photo shows the slurry trench looking toward the east. The 15-inch metal pipe is at Station 7+90 on the right side of the trench.
The pipe has an invert elev. about 4 ft. below grade and extents about 25 ft. and daylights on the other side of the fence.
The pipe was encountered in the late afternoon and caused slurry to drain near the edge of the East Fork of the Mill Creek.
The slurry was contained using earthen dikes and silt fence as shown on the next photo.



Photo 2 Slurry containment area is shown at right foreground. Silt fence is also shown at left. Butler County Manhole #11 shown in left background.



Photo 3 Slurry dry-out area shown at right foreground.



Photo 4 Nominal amount of slurry which reached the edge of the creek.

Attachment 8

MW - 21 Well Abandonment Record

DNR 7810.96

WATER WELL SEALING REPORT OHIO DEPARTMENT OF NATURAL RESOURCES

Division of Water
1939 Fountain Square Drive
Columbus, Ohio 43224-9971
(614) 265 6730 Fax: (614) 447

0121121 Skinner GW-21

	Voice: (614) 265-6739 Fax: (614) 447-9503
LOCATION	Circle One or Both
Circle One or Both	Sutler Township Union Section/Lot Number 22 Skinner Landfill Section/Lot Number 22
Address of We	ell Location 8730 Cincinnation Deyton Road Number Street Name
City W	Number Street Name 2 ip Code +4 Street Name 4 5069 O. 1 miles No. Th of West Chester Road n, e, s, w Tion
Property Local Description	
	ell in State Plane N = x // 432/55. h. ft. or m y 49/450. h. ft. or m available
Elevation of W	Vell 748.50 +/- Torm Datum Plain: □ NAD27 □ NAD83
Source of Coo	ordinates: GPS Survey Other Construction Plans (circle one)
ORIGINAL WE	ELL ODNR Well Log Number 6 W - 21 Copy attached? Yes or No
	Z9.59 feet Static Water Level 24.52 (will fill of rust-colored to the state of casing 19.59 feet will in good condition, bentenite Seal intact
SEALING PROMethod of Place	coment growt tremied (through augers) into open borehole
Placement:	Sealing Material Volume From 30 feet To 0.0 feet Bentswite/Cement 7, 50-16. L-ys From To
Was Casing Ro	emoved? Ves or No (circle one)
Condition of Ca Perforations:	asing (45ing in 500d Condition From 19.45 feet to 29.45 feet From To
Date Sealing P Reason(s) for S	
CONTRACTOR Name Address City/State/Zip	150wser-Morner ODH Registration # 163.1 4516 Textorivite Road Pryton, all 95424
Signature	Thereby certify the information given is accurate and correct to the best of my knowledge.