CONSTRUCTION QUALITY ASSURANCE
FINAL REPORT
ON-SITE DISPOSAL FACILITY, PHASE I AND LEACHATE CONVEYANCE SYSTEM

REVISION 0
JANUARY 1998
VOLUME II

United States Department of Energy
Fernald Environmental Management Project
Fernald, Ohio

prepared by
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under

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Subcontract 95PS005028

APPENDIX C:

FIELD REPORTS

RESIDENT ENGINEER'S WEEKLY FIELD REPORTS

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: Phase 1 Cell Construction WEEK ENDING: 05 May 1997

RESIDENT ENGINEER'S WEEKLY REPORT NO. 1

The period covered by Weekly Report No. 1 is from 28 April 1997 through 04 May 1997.

Construction Progress

No construction has been authorized to date. The project kickoff meeting was held on 02 May 1997 at the site. The meeting was well attended and the Construction Contract Manager, Lou Wehlitz, Construction Engineer, Don Goetz or Construction Coordinator, Rob Turnbell, will be issuing meetings notes. The current schedule to begin limited construction is early June 1997. Formal weekly meetings have not yet been scheduled. They will begin in approximately 2 weeks.

Construction Submittal Review

The contractor, Petro Environmental Technologies, (Petro) has begun submitting construction submittals for review and approval. Submittals are controlled by Construction Document Control (CDC) and the FDF Construction Contract Manager (CCM), Lou Wehlitz. Each Petro submittal is tracked according to a submittal number, document number and item description. In this report submittals will be referred to by submittal number and item description. After review, submittal status or action is reported by assigning a letter code A, B, C or D. These codes refer to the following actions:

A - Conforms with Requirements (CFC)

B - Minor Comments - Proceed, but resubmit action to comments.

C - For information/Record Documents

During the period the following submittals were reviewed by the Resident Engineer (RE) and comments returned to the Don Goetz,, the submittal coordinator.

Submittal No.	Item Description	Disposition	Recommended Status
003	Pay Item Schedule	No Comments	A
004	QA Plan	Defer to FDF	B
007	Submittal Register	Defer to FDF	C (Under Revision)

Discussions with Rick Heath, Engineering, concerning technical questions on potential riprap sources was held at the request of the contractor. This preceded a formal submittal by the contractor and was intended to determined whether a design change reducing the quality (minimum specific gravity) of the riprap required would likely be approved. It will not. Better quality riprap appears to be available at a reasonable distance from the site.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 31

DESCRIPTION: Phase 1 Cell Construction WEEK ENDING: 05 May 1997

WR No. 1 (con't)

Design Clarifications and Modifications

There were no DCN's or RCI's prepared or received during the report period. Based on discussions with Don Goetz, location coordinates for the Decontamination Pad may need clarification or revision. This will be evaluated next week.

Quality Control

Jeph McMichen, Site QC Manager, has been issuing a weekly report that will cover the Phase 1 Construction as well as the Leachate Conveyance System. His report should be reviewed for a discussion of QC activities during the period. As Resident Engineer I will reference, summarize or attach QC data when it becomes available and as may be needed to supplement or clarify this report.

Health and Safety

At the construction kickoff meeting the safety topic was a warning about windy and inclement weather and its affect on the safety of workers and the work place. Also, at the meeting was a rather good discussion of the many health and safety requirements that must be met and understood by the contractor and his subcontractors. These will be discussed in the Kickoff meeting notes. Plans were also made to meet separately to discuss the procedures and methods that will need to be developed and implemented to possibility lengthen the work time allowed and still protect workers from the occurrence of heat stress during liner installation. This is extremely important and will be discussed in future reports.

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FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 3.1

DESCRIPTION: Leachate Conveyance System WEEK ENDING: 16 March 1997

RESIDENT ENGINEER'S WEEKLY REPORT NO. 2

The period covered by Weekly Report No. 2 is from 10 March 1997 through 16 March 1997.

Construction Progress

The LCS contractor, Village Building Systems (VBS) has not yet mobilized to the site. The new current schedule is for limited initial mobilization to occur the week of March 24, 1997. Delay in receiving authorization to mobilize is believed to be related to approval of VBS's Health & Safety Plan and/or Safe Work Plan.

Construction Submittal Review

VBS's construction submittals are controlled by Construction Document Control (CDC) and the FDF Construction Contract Manager (CCM), Rick McGuire. A submittal register has been prepared and each VBS submittal is tracked according to a submittal number, document number and item description. In this report submittals will be referred to by submittal number and item description. Many VBS submittals are being issued on a piece-meal basis, i.e. they are not as complete as requested in the construction documents. This results in comments indicating this and, therefore, requesting revised or additional submittals. Another problem being encountered is that the contractor needs to request approval for minor deviations when they are appropriate at the time of the submittal. For example, in some cases documents require a product be produced by company A, B, or C with no mention of an equivalency approval. If the contractor is proposing a product manufactured by company D and he believes that company's product is equivalent to those specified, then the contractor needs to make a request for approval of the minor deviation. This request can be made on the submittal transmittal form. I have informally discussed this with Mike Godber.

During the period the following submittals were reviewed and comments returned to the Jim Jenkins, the submittal coordinator.

Submittal No.	Item Description	Disposition
53	Lightning Arrester	Comments Made
54	Pressure Gage	Minor Comments
110	Lift Station Lighting	No Comments
111	Nameplates	No Comments

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: Leachate Conveyance System WEEK ENDING: 16 March 1997

Submittal No.	Item Description	Resident Engineers Disposition
112	Wire & Cable Markers	No Comments
113	Nema 3R Wireway	Comments Made

Design Clarifications and Modifications

During the period DCN Nos. 011 through 014 were transmitted. All were approved except No. 011 which was voided. DCN No. 014 was a Parsons revised design of the force main clean out manholes. The manholes SDR rating was changed from 32.5 to 26 to expedite delivery and all manholes were eliminated except Nos. 1,4,5, and 11. A revised clean out detail was also issued.

Health and Safety

During the period site GeoSyntec employees met with Bill Zebick for an informal discussion on site safety and safe working conditions as they relate to field and laboratory QC functions. Jeph McMichen, the CQC Site Manager, will follow up on the QC safe working issues and procedures.

A construction team meeting was held at noon on 12 March 1997. At that time Bill Zebick presented an informal talk (open to discussion) with handouts on the FDF Soils and Water Safety Philosophy. Among others, safety topics discussed were: goals, expectations, accountability, TQM, safety excellence and essential concepts for team coaches and leaders. Open discussions on the implications of first aid occurrences and there follow-up procedures and on individuals being pro-active not re-active were made.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 3.1

DESCRIPTION: Leachate Conveyance System WEEK ENDING: 09 March 1997

RESIDENT ENGINEER'S WEEKLY REPORT NO. 1

The period covered by Weekly Report No. 1 is from the 24 February 1997 through 9 March 1997. From then on weekly reports will be prepared on a weekly basis. Prior to 24 February 1997, start-up activities occurred consisting of obtaining office space, getting added on appropriate distribution lists, completing site entry tests and badging, obtaining controlled copies of drawings, specifications, submittals and design change notices.

Construction Progress

The LCS contractor, Village Building Systems (VBS), has not yet mobilized to the site. Current schedule is for initial mobilization to occur the week of March 17, 1997. Delay may occur in receiving authorization to mobilize due to comments requiring re-submittal of VBS's Health & Safety Plan and Safe Work Plan.

Construction Submittal Review

VBS's construction submittals are controlled by Construction Document Control (CDC) and the FDF Construction Contract Manager (CCM), Rick McGuire. A submittal register has been prepared and each VBS submittal is tracked according to a submittal number, document number and item description. In this report submittals will be referred to by submittal number and item description. The CCM has designated Jim Jenkins as the coordinator of all review comments on technical and engineering related submittals. Therefore, comments by GeoSyntec, Parsons or other FDF project team members are transmitted back to Jim Jenkins. A submittal distribution and action form is used by all project team members to transmit comments. As Resident Engineer I review all technical submittals whether they are directly related to designs by GeoSyntec, Parsons or others. I also meet with Jim to discuss my comments on an as-needed basis and the status of submittal comments by others. Since GeoSyntec will be the Certification Engineer for the LCS project I have requested that I be formally informed of the status of all final submittal comments.

During the period the following submittals were reviewed and comments returned to the coordinator.

Submittal No.	Item Description	Resident Engineers Disposition
26	Lift Station Pumps	Comments made
28	MH Frame & Cover	No Comments

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17 March 97

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 3.1

DESCRIPTION: Leachate Conveyance System WEEK ENDING: 09 March 1997

Submittal No.	Item Description	Resident Engineers Disposition
29	6-in Check Valve	Minor Comments Made
30	½-in Air Release Valve	No Comments
31	3-in Check Valve Series 33	Minor Comments Made
32	6-in Butterfly Valve	Comments Made
33	6/10-in Butterfly Valve	Comments Made
34	6-in Ball Valve	Comments Made
35	½-in PVC Ball Valve	Minor Comments Made
36	4-im Check Valve	Minor Comments Made
37	4-in Gate Valve	No Comments
38	4-in Ball Valve	No Comments
39	½-in Gate Valve	No Comments
41	A/A AV Gaskets	No Comments
42	SS Pipe & Fittings	Comments Made
43	CS Pipe & Fittings	Minor Comments Made
48	Chain Lk Fence Shop Dwr.	Comments Made
49	Solar Panel & Battery	Comments Made
50	Freq. Pulse Receiver	Comments Made
51	Pulse to Pulse Transmitter	Comments Made
52	Isolator	Comments Made
56	6-in Fabriform	Minor Comments :Made
57	54-in HDPE MH Shop Dwr,.	Comments Made
109	Elec. Panels & Disconnects	Minor Comments Made

Design Clarifications and Modifications

During the period a copy of all Design Change Notices (DCN's) were obtained. Through 9 March 1997 ten (10) DCN's have been issued and approved. During the period no new DCN's were brought to my attention.

Quality Control

During the period Jephory McMichen, Site CQC Manager for the project, arrived from GeoSyntec's Atlanta office. Soon after his arrival QC equipment began to arrive for setup in an onsite soils laboratory. FDF has indicated that there is a delay in obtaining and/or setting up trailers for the site office and laboratory and that they are working to resolve the problems. Jeph is preparing his own weekly reports.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 3.1

DESCRIPTION: Leachate Conveyance System WEEK ENDING: 24 March 1997

RESIDENT ENGINEER'S WEEKLY REPORT NO. 3

The period covered by Weekly Report No. 3 is from 17 March 1997 through 23 March 1997.

Construction Progress

The LCS contractor, Village Building Systems (VBS), has not yet mobilized to the site. The current schedule is for limited initial mobilization to occur the week of 24 March 1997, subject to final review and approval of VBS's Safe Work Plan. VBS continues to transmit construction submittals for items required by the contract documents. A revised construction schedule and schedule for delivery of materials to the site is expected early the week of 24 March 1997. The weekly construction meeting with VBS and some of their subcontractors was held on Thursday, 20 March 1997. Rick McGuire, FDF Construction, will be issuing meeting notes on a weekly basis.

Construction Submittal Review

VBS's construction submittals are controlled by Construction Document Control (CDC) and the FDF Construction Contract Manager (CCM), Rick McGuire. A submittal register has been prepared and each VBS submittal is tracked according to a submittal number, document number and item description. In this report submittals will be referred to by submittal number and item description.

During the period the following submittals were reviewed and comments returned to Jim Jenkins, the submittal coordinator.

Submittal No.	Item Description	Disposition	Rec. Status
40	Magnetic Flowmeter	Comments Made	C
55	316 SS Couplings	No Comments	A
58	Lift Station Manhole	Comments Made	C
202	Concrete Mix Design	Comment Made	C
202	Steel Data & Mill Certificate	No Comments	A
* 24	HDPE Pipe & Fittings	Comments Made	C
* 27	2x2 & 3x3 Manhole Covers	Comments Made	C
* 45	Underground Warning Tape	No Comments	A

* indicates that these submittals were reviewed and comments transmitted the previous report period, but not listed in Weekly Report No. 2.

D. Bodine

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: Leachate Conveyance System WEEK ENDING: 24 March 1997

Design Clarifications and Modifications

No DCN's were received during the report period. Discussions were held with Jim Jenkins concerning the need to prepare a DCN for changing the construction material from stainless steel to aluminum for the lift station manhole cover. The cover opening dimensions will remain 4-ft x 4-ft, as designed. It is also assumed that the cover shop drawing design would be similar to the 3-ft x 3-ft covers transmitted in Submittal No. 27. Comments on that submittal should be noted.

During the period a response to an RCI was prepared clarifying the position and purpose of the 2-inch vents for the Lift Station Manhole. The response was also included as a responding comment on the shop drawings transmitted with Submittal No. 58.

Quality Control

During the period Ned Meekins, Senior Soils Technician, arrived from GeoSyntec's Atlanta office. He is working with Jephory McMichen, Site CQC Manager, setting up the onsite soils laboratory. Jeph is preparing a Weekly QC Field Report.

Health and Safety

Health and Safety items were highlighted in two meetings attended by GeoSyntec personnel. The first of these meetings was the OSDF All Hands Team Meeting where a construction video was presented showing tree, stump and root removal and shredding of wood material using mobil tract equipment. Except for the operator located within the equipment cab, virtually no hands-on labor was used making this operation much safer than it has been in the past. The second meeting was the weekly LCS construction meeting with the contractor, VBS. At that meeting a serious welding incident at another site involving clothing ignition was high lighted. Criteria for use of approved clothing to be used during welding at this site was discussed. A second important safety item discussed was excavation safety and handling of many pipes within a common excavation.

D. Bodine 24 March 97

D.G.Bodine

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 3.1

DESCRIPTION: Leachate Conveyance System WEEK ENDING 30 March 1997

RESIDENT ENGINEER'S WEEKLY REPORT NO. 4

The period covered by Weekly Report No.4 is from 24 March 1997 through 30 March 1997.

Construction Progress

The LCS contractor, Village Building Systems (VBS), has not yet mobilized to the site. The revised schedule is for limited initial mobilization to occur the week of 30 March 1997, subject to final review and approval of VBS's Safe Work Plan. A revised construction schedule and schedule for delivery of materials to the site was again requested from VBS in the weekly construction meeting. These items are now expected during early next week. The weekly construction meeting with VBS and some of their subcontractors was held on Thursday, 27 March 1997. Rick McGuire, FDF Construction Contract Manager (CCM), has been issuing meeting notes on a weekly basis.

Construction Submittal Review

VBS's construction submittals are controlled by Construction Document Control (CDC) and the FDF CCM, Rick McGuire. Rick has designated Jim Jenkins as the project coordinator for comments. Jeff Ellis, FDF civil engineer, is assisting Jim in preparing final comments for construction document control (CDC) to transmit back to the contractor. A submittal register has been prepared and each VBS submittal is tracked according to a submittal number, document number and item description. In this report submittals will be referred to by submittal number and item description.

On the morning of 27 March 1997 I met with Jeff Ellis to review the submittal status and any questions that he or others may have concerning comments. The list of submittals has been prioritized by VBS and the CCM to help speed up return of comments. GeoSyntec has returned comments on all submittals received prior to the weekly construction meeting to the coordinator except submittal Nos. 60 and 203. Review and comment on these submittals are in progress.

During the period the following submittals were reviewed and comments returned to Jim Jenkins.

Submittal No.	Item Description	GeoSyntec Disposition	Recommended Status
101	Steel & PVC Conduit, Wire	Comments Made	C
102	GFCI Receptacle, Link Seals Junction Boxes	No Comments	A
103	Ground Rods and Wire	Minor Comments	B

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 3.1

DESCRIPTION: Leachate Conveyance System WEEK ENDING: 30 March 1997

104	Quadruplex & Bare Wire	No Comment	A
104	Guy Wire	Comments Made	C
105	Anchors, Pole & Line Hardware, Insulator	Comments	C
106	Heat Trace	No Comments	A
59	Non-Woven Geotextile	No Comments	A

During the period comments on Submittal Nos. 28, 37, 40, 42, and 45 were transmitted by CDC to the contractor. Prior to this period, Submittal No. 57, and possibly some others (the number to be confirmed with Tracy Russell), were transmitted to the contractor by CDC.

Design Clarifications and Modifications

No DCN's or RCI's were received during the report period . During the weekly construction meeting with the contractor it was pointed out that the Civil Plan and Profile Drawings, 4 sheets (Nos. 254, 261, 266 and 262) have profile stationing that begins with 0+00 on each sheet. Currently the construction survey team is laying out these portions of the LCS system alignment with stationing that also identifies the sheet drawing. I will met with appropriate project team members to see why a continuous stationing along the LCS line can not be used.

Quality Control

Jephory McMichen, Site CQC Manager, is preparing a Weekly Field Report discussing QC and other related activities. This section of the Resident Engineers report will reference, summarize or attach QC data when it becomes available and as may be needed to supplement or clarify this report.

Health and Safety

At the weekly construction meeting it was stated that the contractors Safe Work Plan should be re-submitted for final review and approval early next week. Also at the weekly meeting the FDF safety officer soon to be assigned to the LCS project, was introduced. Several safety items were discussed which will be noted the weekly meeting notes.

During the report period GeoSyntec reviewed health and safety information and data supplied by FDF and met with Greg Johnson to discuss various safety items. GeoSyntec began drafting a site specific safe work plan that would be applicable to their site CQC related work.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GO0166 TASK NO.: 3.1

DESCRIPTION: ~~Leachate Conveyance System~~ WEEK ENDING: 07 April 1997

RESIDENT ENGINEER'S WEEKLY REPORT NO. 5

The period covered by Weekly Report No.5 is from 31 March 1997 through 06 April 1997.

Construction Progress

The LCS contractor, Village Building Systems (VBS), received authorization to mobilized to the site. Limited construction began on 02 April 1997 consisting of installing telephone poles. The current schedule for beginning earthwork activities is the week beginning 14 April 1997. A revised construction schedule (Submittal No. 07) was distributed for comment during the period. A schedule for delivery of materials to the site was presented to FDF by VBS during the weekly construction meeting. Rick McGuire, FDF Construction Contract Manager (CCM), has been issuing meeting notes on a weekly basis.

Construction Submittal Review

VBS's construction submittals are controlled by Construction Document Control (CDC) and the FDF CCM, Rick McGuire. Rick has designated Jim Jenkins as the project coordinator for comments. Jeff Ellis, FDF civil engineer, is assisting Jim in preparing final comments for construction document control (CDC) to transmit back to the contractor. A submittal register has been prepared and each VBS submittal is tracked according to a submittal number, document number and item description. In this report submittals will be referred to by submittal number and item description.

During the period the following submittals were reviewed and comments returned to Jim Jenkins.

Submittal No.	Item Description	GeoSyntec Disposition	Recommended Status
63	Bentonite Data and 5 lb Sample	Minor Comments	B (MSDS obtained by DGB from proposed supplier)
46	Embedment Fill Data & 50 lb. Sample	Comments Made (Failed Grain size Requirements)	C (CCM, QA, QC & Coordinator notified immediately)
09 R1	VBS QA Plan	No Comments	A (Defer comment to other FDF team staff)
10 R1	VBS Safe Work Plan	Minor Comment	A
42 R1	SS Pipe & Fittings	No Comments	A

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FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO: 3.1

DESCRIPTION: Leachate Conveyance System WEEK ENDING: 07 April 1997

47	Silt Fence	Comments	C
65	Bituminous Aggregate. Base & Asphalt Mix	No Comments	A
66	Straw Mulch Certification	No Comments	A
67	List of Trenching, Backfilling, & Compaction Equip.	Comments Made	C
68	Clean Out Frame & Cover	No Comments	A

During the period comments on Submittal Nos. 36, 38, 39, 43 and 56 were transmitted by CDC to the contractor. The contractor was notified by telephone by the CCM that Submittal No. 63 failed to meet specification criteria and would be unacceptable. This was done to give the contractor as much time as possible to resubmit data and samples.

Design Clarifications and Modifications

DCN No. 15 was received during the report period. This DCN directed the team to use the "vacated" space in the east trailer area for the location of the OSDF contractor trailers (GeoSyntec office trailer included).
At the weekly construction meeting it was pointed out that the clean out detail presented in DCN No. 14 did not have installation orientations identified for the appropriate clean outs. It also would not be acceptable, for Clean out Nos. 10 and 12 where 90 degree turns are required. The design is being reviewed.

A RCI was written to have the Pavement Restoration Detail (Drawing G00257) reviewed by the Designer to consider adding a granular subbase material to offset the effects of frost heave that are likely to occur. Similar consideration may be needed for concrete surface slab areas. I will be looking at that next week.

Quality Control

Jephory McMichen, Site CQC Manager, is preparing a Weekly Field Report discussing QC and other related activities. This section of the Resident Engineers report will reference, summarize or attach QC data when it becomes available and as may be needed to supplement or clarify this report.

The 50 lb sample of granular embedment material that was submitted as part of Submittal No. 63 will not be tested because the accompanying grain size documentation data was unacceptable. During the weekly construction meeting an informal copy of a grain size report was presented for review. The grain size on that report did meet the requirements for the pipe embedment material. The contractor is expected to make a formal submittal along with another 50 lb sample.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 3.1

DESCRIPTION: Leachate Conveyance System WEEK ENDING: 07 April 1997

Health and Safety

At the weekly construction meeting it was stated that the contractors Safe Work Plan is being approved with a B status. Final review by FDF safety staff is being completed. A question concerning trench box safety was raised and the contractor referenced Section 5.1 of their Safe Work Plan.

The safety topic discussed at the weekly meeting was motorcycle safety. Warm weather is now here and motorcycles are appearing on the road. Everyone must show extra awareness of the presence and safety of these vehicles.

During the report period GeoSyntec continued drafting a site specific safe work plan that would be applicable to their site CQC related work.

All Hands Team Meeting

On Tuesday, 01 April 1997 an OSDF All Hands Team Meeting was held at the east trailer area picnic table area. Significant items discussed were as follows:

Safety Topic: Parking Lot Storm Water Construction is underway. When walking to and from cars walk between the yellow lines when in the construction zone.
TQM: Prioritize your priorities. At times this becomes necessary to achieve desired work goals.
Balance Topic: Long range planing. Work on the 8-year plan ongoing. Uday gave brief status.
LCS : Limited contractor mobilization authorized with electrical related construction to start.
Haul Road: Pre-work nearly complete. Conflicts with other projects being resolved. Road material placement to start soon.
Phase 1: Letter awarding contract completed and on desk waiting to be signed. (Update! Contract awarded to Petro of Cincinnati, Ohio.
Dust Monitoring Program: Currently method 22 applies, i.e., no visible dust. Smoke test etc. not applicable. This site may become a test site for developing new test methods.
Vehicles: Continues to be a problem. Construction has no vehicles and may need to resort to other ways of obtaining the critical number needed.

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FLUOR DANIEL FERNALD

1264

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GO0166 TASK NO.: 3.1

DESCRIPTION: Leachate Conveyance System WEEK ENDING: 14 April 1997

RESIDENT ENGINEER'S WEEKLY REPORT NO. 6

The period covered by Weekly Report No.6 is from 07 April 1997 through 13 April 1997.

Construction Progress

The LCS contractor, Village Building Systems (VBS), received authorization to mobilized to the site. Limited construction began on 02 April 1997 consisting of installing telephone poles and has continued through this report period. VBS has not mobilized it office trailer to the site. They expect to do that on 14 April 1997, subject to FDF final approval of a site location. The current schedule for beginning field earthwork activities has been revised to the week beginning 28 April 1997. FDF and VBS worked on a revision to the construction schedule (Submittal No. 07) that was formally distributed for comment during the previous period. During the weekly construction Rick McGuire, FDF Construction Contract Manager (CCM), stated that the construction schedule and delivery of materials schedule must relate and coordinate with each other. FDF is working with VBS to achieve this and finalize a revision to the schedules. Rick McGuire will be issuing meeting notes on a weekly basis.

Construction Submittal Review

VBS's construction submittals are controlled by Construction Document Control (CDC) and the FDF CCM, Rick McGuire. Rick has designated Jim Jenkins as the project coordinator for comments. Jeff Ellis, FDF civil engineer, is assisting Jim in preparing final comments for construction document control (CDC) to transmit back to the contractor. A submittal register has been prepared and each VBS submittal is tracked according to a submittal number, document number and item description. In this report submittals will be referred to by submittal number and item description. After review, submittal status or action is reported by assigning a letter code A, B, C or D. These codes refer to the following actions:

A - Conforms with Requirements (CFC)
B - Minor Comments- Proceed, but resubmit action to comments
C - Revise and resubmit
D - For information/Record Documents:CFC

During the period the following submittals were reviewed and comments returned to Jim Jenkins.

Submittal No.	Item Description	GeoSyntec Disposition	Recommended Status
7	Construction Schedule	Being Revised	C(FDF/VBS revising)
7R1	Construction Schedule	No Comments	A(FDF detailed review)

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT 1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GO0166 TASK NO.: 3.1

DESCRIPTION: Leachate Conveyance System WEEK ENDING: 14 April 1997

WR No. 6 (con't)

60	Plexco QC/QA,Certs. Facilities & Resin Ident.	Minor Comments	B-Partial Response to Comments to Sub. Nos. 25, 57 & 58
61	Surveyor's Ohio Lic.	No Comments	A
62	Bore & Jack Pipe Certs.	No Comments	A
64	Seed Mixes	Minor Comments	B
69	TNEMIC 37H & 66 Paint Primer & top Coat	Minor Comments	B-Alternative Primer OK, Need Parsons Concurrence
70	Concrete Mix Design for Thrust Block & Pier	Comments Made	C-Type II cement req. Submit Test Results. (Same for No.202)
71	Seed & Grass Spreaders	No Comments	A
72	Check Dam Test Data	Comments Made	C-(Data Failed Req.)
74	Cleanout Shop Drawing	Comments Made	C-Incomplete, Can Not be Fabricated as is
76	Pipe Support Detail	Minor Comments	B-Subject to Approval of Submittal No. 69
46R	Embedment Fill Documentation & Sample	Testing to be Completed	Subject to Approval of Submittal Sample Testing not yet Completed

During the period comments on Submittal Nos. 10R1, 25 and 46 were transmitted by CDC to the contractor. Others may have been sent out, but I could not verify them at the time of preparing this report.

At this location in Weekly Report No. 5 reference was made to a telephone call by the CCM concerning Submittal No. 63. That call was made in reference to Submittal No. 46 not No. 63.

Design Clarifications and Modifications

No DCN's or RCI's were received or initiated during the report period.

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FLUOR DANIEL FERNALD

1264

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: Leachate Conveyance System WEEK ENDING: 14 April 1997

WR No. 6 (cont'd)

Quality Control

The onsite CQC laboratory has not yet been set up due to delay experienced by FDF in moving the two trailers from one location onsite to another and providing safe access and utilities to the trailers. This was supposed to have been completed by the end of the report period, but hasn't. However, the trailers have been moved to their assigned location. Gaining safe access to the lab and completing setup and equipment testing and calibration is now critical if construction delays due to QC start up are to be avoided.

Health and Safety

At the weekly construction meeting it was stated that the contractors Safe Work Plan had been approved with a B status. Review comments by FDF have been transmitted.

The safety topic discussed at the weekly meeting involved a hot weather heat stress warning to drink plenty of fluids and not to over exert yourself.

During the report period GeoSyntec continued drafting a site specific safe work plan that would be applicable to their site CQC related work. A draft of the plan is expected next week.

FDF/GeoSyntec Monthly Meeting

On Tuesday, 08 April 1997 the first FDF/GeoSyntec Title III Monthly meeting was held at the site. A summary of work performed during March and plans and action items for April were discussed. Some Title 1 and II work items related to the construction work were also discussed. Meeting notes are being issued by GeoSyntec. The next monthly meeting is scheduled for 1 May 1997 at 3 pm to 5 pm in the T82 conference room.

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FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT 1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 3.1

DESCRIPTION: Leachate Conveyance System WEEK ENDING: 21 April 1997

RESIDENT ENGINEER'S WEEKLY REPORT NO. 7

The period covered by Weekly Report No.7 is from 14 April 1997 through 20 April 1997. Beginning next week the weekly meeting will be held on Tuesdays at 2 pm, unless otherwise informed by Rick McGuire.

Construction Progress

The LCS contractor, Village Building Systems (VBS) mobilized their field office to the site on 16 April 1997. However, trailer set up will not occur until next week. Construction consisting of installing telephone poles has continued and should be completed during the next period subject to having enough of the right size poles onsite. By current design, only three 45-ft poles are needed to complete the pole installation. The current schedule for beginning field earthwork activities is the week beginning 28 April 1997. VBS submitted a revised construction schedule (Submittal No. 07) on 16 April 1997. Rick McGuire will be issuing meeting notes on a weekly basis.

Construction Submittal Review

VBS's construction submittals are controlled by Construction Document Control (CDC) and the FDF CCM, Rick McGuire. Rick has designated Jim Jenkins as the project coordinator for comments. Jeff Ellis, FDF civil engineer, is assisting Jim in preparing final comments for construction document control (CDC) to transmit back to the contractor. A submittal register has been prepared and each VBS submittal is tracked according to a submittal number, document number and item description. In this report submittals will be referred to by submittal number and item description. After review, submittal status or action is reported by assigning a letter code A, B, C or D. These codes refer to the following actions:

A - Conforms with Requirements (CFC)
B - Minor Comments- Proceed, but resubmit action to comments
C - Revise and resubmit
D - For information/Record Documents: CFC

During the period the following submittals were reviewed and comments returned to Jim Jenkins.

Submittal No.	Item Description	GeoSyntec Disposition	Recommended Status
40R1	Magnetic Flowmeter	See RCI No.12	B(Resolution of RCI required)
75	Steel Casing End Seals	Minor Comments	B(As Built Change Req.)
	Link Seal Data	No Comments	A

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT 1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: Leachate Conveyance System WEEK ENDING: 21 April 1997

WR No. 7 (con't)

78	Manhole Embedment Fill Data. 50 lb. Sample	Minor Comments Grainsize Tested	B C-Failed ODOT No.89. Independent Sample also Failed. No. 4 sieve too Fine. (21 April 97)
77R1	Drisco Pipe QA Manual.	Submitted for INF	B-Pipe not meeting spec. could be made.
	Certificate-No Reclaimed Polymer Certifiable Values-Table 02605-2	No Comments Still Required	A C-Statement/Values Required.
107	Electrical Testing Procedures.	Comments Made	B
203	Five Star Grout Data	No Comments	A
	Asphalt Exp. Joint Filler Data	Minor Comments	B-Follow-up with Sample per Spec.
	Sonopatch 200 Data Superior Concrete Bonder	No Comments Comments Made	A C-Not Type Specified Moisture sensitive.
46R1	Pipe Embedment Fill Data 50 lb Sample	No Comments Grainsize Tested	A A-Pass ODOT 703.06 Independent QC Sample also Passed.

During the period comments on several submittals were transmitted by CDC to the contractor. Status of these transmittals is controlled by the CCM and CDC. A improved tracking form and procedure is being worked on. Comments on submittal Nos. 46R1 and 77R1 were discussed with the VBS following the weekly meeting.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: 600166 TASK NO.: 3.1

DESCRIPTION: WEEK ENDING:

WR No. 7 (cont'd)

Design Clarifications and Modifications

DCN No.15, deleting the need for new overhead 480 V service for contractor trailers. was received during the period. RCI No. 9R was briefly discussed during the weekly meeting with VBS. Further action by GeoSyntec is required.

During the weekly meeting VBS requested a meeting to discuss electrical questions from one of its vendors. A meeting was set up at 1 pm with VBS, FDF, Parsons and GeoSyntec. GeoSyntec requested that the scope of the questions or actual questions be obtained prior to the meeting.

Quality Control

The onsite CQC laboratory has not yet been set up due to delay experienced by FDF in moving the two trailers from one location onsite to another and providing safe access and utilities to the trailers. This work has been re-scheduled to be completed by 24 April 1997.

During the period GeoSyntec's offsite soils laboratory conducted grainsize testing related to approval of Submittal No. 46R1 and No. 78. Results were reported above with the appropriate submittal

QC sampling and testing related to conformance requirements began during the period and are discussed in the QC site manager's weekly report.

Health and Safety

At the weekly construction meeting it was stated that the contractors Safe Work Plan had been approved with a B status. Review comments by FDF have been transmitted and VBS is in the process of incorporating/resolving these comments.

The safety topic discussed at the weekly meeting involved reporting on a recall action on chain saws and defective electrical power cords and surge protectors.

During the report period GeoSyntec completed it's first draft of a site specific safe work plan that would be applicable to their site CQC related work. The draft plan is being commented on and discussed with Greg Johnson. Jeph McMichen is working to incorporate and resolve comments.

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FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT 1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 3.1

DESCRIPTION: Leachate Conveyance System WEEK ENDING: 28 April 1997

RESIDENT ENGINEER'S WEEKLY REPORT NO. 8

The period covered by Weekly Report No.8 is from 21 April 1997 through 27 April 1997. Beginning next week the weekly meeting will be held on Tuesdays at 2 pm, unless otherwise informed by Rick McGuire.

Construction Progress

The LCS contractor, Village Building Systems (VBS)completed set up of their field office at the site. Construction consisting of installing telephone poles and anchors was completed during the period. Delivery of double containment pipe was also made by VBS. The current schedule for beginning field earthwork activities is the end of next week, subject to completion of training for workers and approval of equipment and materials for installation. Several needed items are still outstanding that could effect the start of excavation. Rick McGuire will be issuing weekly construction meeting notes.

Construction Submittal Review

VBS's construction submittals are controlled by Construction Document Control (CDC) and the FDF CCM, Rick McGuire. Rick has designated Jim Jenkins as the project coordinator for comments. In this report submittals will be referred to by submittal number and item description. After review, submittal status or action is reported by assigning a letter code A, B, C or D. These codes refer to the following actions:

A - Conforms with Requirements (CFC)
B - Minor Comments- Proceed, but resubmit action to comments
C - Revise and resubmit
D - For information/Record Documents: CFC

During the period the following submittals were reviewed and comments returned to Jim Jenkins.

Submittal No.	Item Description	GeoSyntec Disposition	Recommended Status
46R1	Pipe Embedment	Minor Comment	B, or A with Comment.
47R1	Silt Fence	Comments Made	B, Resubmit with Valid data and Certified Values.
78	Manhole Embedment Fill	Comments Make	C, Grainsize samples Failed
57R2	54-in Clean out Manhole	No Comments	A
25R1	LDS & LCS Manholes (1-3)	No Comments	A
49	Solar Panel and Battery	Revised Comment	C, See DCN No.19
58R1	84-in Lift Station Manhole	No Comments	A

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FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT 1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: Leachate Conveyance System WEEK ENDING: 28 April 1997

WR No. 8 (con't)

During the period comments on several submittals were transmitted by CDC to the contractor. Status of these transmittals is controlled by the CCM and CDC. A improved tracking form and procedure is being implemented. Comments on submittal Nos. 46R1 and 78 were discussed in the previous weekly report because of the urgent nature of the response.

Design Clarifications and Modifications

DCN No.19, changing the 12 VDC control system for the LDS, LCS and PLS to a 24 VDC system was prepared and issued. Drawings E-00060, E-00061 and M-00062 and Spec. Section 15000 were affected.

DCN No. 17, changing the minimum flow rate for the magnetic flow meter from 50 gpm to 72 gpm and accepting zirconium as the material of construction for the electrodes was received during the period.

DCN No. 16, relocating telephone poles Nos. 100 and 101(because of underground utilities) and adding a new pole (No. 99) and PVC conduits was received during the period.

During the period RCI Nos. 9R, 10R, and 11R were received. RCI No. 9 provided designer response to a request on the Pavement Restoration Detail on Drawing No. G-00257. GeoSyntec will review these comments and provide a DCN, if necessary. RCI No. 10R provided designer coordinate conversions for the contractor. RCI No. 11R provided correction and clarification of Section 8 on Drawing G-00259 and a clarification of FT/46 (Deleted) on Drawing G-00262.

Quality Control

The onsite CQC laboratory is in the process of being set up on site. Safe access has been obtained. Additional information is discussed in the QC Managers weekly report.

VBS delivered a shipment of Drisco HDPE double containment pipe (8-in/4-in). Additional submittal certification and run data had not yet been transmitted. QC and QA made an initial inspection of the pipe and noted some possible deficiencies. These will be discussed and evaluated during the next report period.

Health and Safety

At the weekly construction meeting VBS indicated that the lifting plan would be changing due to the planned use of a different crane. VBS was to meet with Rick McGuire to discuss changes.
This weeks safety topic discussed was the alerting of everyone of the Tic season that has already started. Also, it was stated that PPE only works if properly used and needed.

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FLUOR DANIEL FERNALD

1264

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: Leachate Conveyance System WEEK ENDING: 05 May 1997

RESIDENT ENGINEER'S WEEKLY REPORT NO. 9

The period covered by Weekly Report No.9 is from 28 April 1997 through 04 May 1997. The weekly meetings of late have been held on Tuesdays afternoon at 1 pm or 2 pm. Please make sure to check your e-mail from Rick McGuire to confirm the time. Meeting room availability has been the reason for changes.

Construction Progress

The LCS contractor, Village Building Systems (VBS) completed set up of their field office. VBS telephone extensions are: x5782 Mary Jo, x5780 Howard, x5785 Steve, and x5633 Fax. Construction during the period consisting of continuing with electric power installation, and receiving shipments of silt fence and Drisco double containment pipe. Installation of silt fence and/or construction fencing began at the end of the period. The schedule for beginning trenching for pipe installation is now next week, subject to completion of training for workers. Gary Pope or Rick McGuire should be contacted for any other details on construction progress. Rick will also be issuing weekly construction meeting notes.

Construction Submittal Review

VBS's construction submittals are controlled by Construction Document Control CDC) and the FDF CCM, Rick McGuire. Rick has designated Jim Jenkins as the project coordinator for comments. In this report submittals will be referred to by submittal number and item description. After review, submittal status or action is reported by assigning a letter code A, B, C or D. These codes refer to the following actions:

A - Conforms with Requirements (CFC)
B - Minor Comments- Proceed, but resubmit action to comments
C - Revise and resubmit
D - For information/Record Documents: CFC

During the period the following submittals were reviewed by the Resident Engineer(RE) and comments returned to Jim Jenkins.

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FLUOR DANIEL FERNALD

1264

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GO0166 TASK NO.: 3.1

DESCRIPTION: Leachate Conveyance System WEEK ENDING: 05 May 1997

WR No. 9 (con't)

Submittal No.	Item Description	RE Disposition	Recommended Status
27R1	Bilco Aluminum Access Covers, Shop Drawings	No Comment	A
45R1	Underground Warning Tape	No Comment	A
47R2	Silt Fence	No Comment	A
28R1	Neenah Manhole Frame and Cover with seal	No Comment	A
109R1	Transformer Test Data	Comments Made Discussion with RE, FDF B&J (VBS sub)	C, Test Data OK, Wrong transformer selected. May be upgraded to B if VBS agrees and identifies Catalog No.
10R2	Safe Work Plan	No Comment	A/B, Review by FDF
21	Operator Verification C. Moody	No Comment	A
23	Welder Certificates, H. White	No Comment	A
44	Pipe Line Markers & Post	No Comment	A
79	HDPE Pipe Welder Training Certs.	No Comment	A
80	VBS Daily QC Report Form	No Comment	A, Defer to QA, Mike

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WEEKLY FIELD REPORT 1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: Leachate Conveyance System WEEK ENDING: 05 May 1997

WR No. 9 (con't)

81	Pipe Mod. Detail at BSL	No Comment	A, Subject to Designer, Parsons Comment
77R2	Drisco Pipe Certs. & Run Data	Comments Made	A/B, Most All Data Provided. One Resin Lot # Cert. Missing & Resin Cert. Signature VBS /Drisco to Fax. A Status After Receiving.

During the period comments on several submittals were transmitted by CDC to the contractor. Status of these transmittals is controlled by the CCM and CDC.

Design Clarifications and Modifications

DCN No. 20, changing the primary material of construction for the permanent lift station from stainless steel to aluminum and clean out cover size from 3-ft to 2-ft was prepared and issued. This DCN supplements DCN No. 8. Drawings S-00069 and M-00067 and Spec. Section 15000 Part 2.08 were affected.

DCN No. 18, revising coordinate locations for the Groundwater Optimization Line between GW-7 and GW-8 was received during the period. Affected Drawings are G-00254 and G-00261.

No RCI's were received by the RE during the period.

Quality Control

The onsite CQC laboratory was set up during the period. Calibration of equipments is in progress. Additional information may be found in the QC

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WEEKLY FIELD REPORT

1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: Leachate Conveyance System WEEK ENDING: 05 May 1997

WR No. 9 (con't)

Site Managers weekly report.

VBS delivered a second shipment of Drisco HDPE double containment pipe (8-in/4-in) and a shipment of silt fence. VBS QC produced a non conformance report in-part because the pipe delivered did not agree with the pipe identified in the submittals (Submittal Nos. 24 and 77). Submittal revision (77R2) has been made by VBS and has been discussed above. Additional QC inspection of deliveries is ongoing.

Additional submittal certification and run data had not yet been transmitted. QC and QA made an initial inspection of the pipe and noted some possible deficiencies. These will be discussed and evaluated during the next report period.

Health and Safety

At the weekly construction meeting VBS indicated that the lifting plan would be changing due to the planned use of a different crane. VBS was to meet with Rick McGuire to discuss changes.

This weeks safety topic was a discussion of the loggable event regarding telephone pole anchor installation. Verbal communication was not followed up with the necessary written communication and a required hold point for the underground penetration was missed. Communication, verbal and written, must be maintained.

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FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT 1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 13 May 1997

RESIDENT ENGINEER'S WEEKLY REPORT NO. 10

The period covered by Weekly Report No.10 is from 05 May 1997 through 11 May 1997. The Resident Engineers Weekly Report for the LCS and Phase 1 Construction will be combined into one weekly report. This should help to save time and reduce paper work. The weekly construction meetings for the three OSDF construction projects may also be combined to save time. These projects are the Haul Road Construction by Barrett, the Leachate Conveyance System Construction by Village Builders Services (VBS) and the Phase 1 Cell Construction by Petro Environmental (Petro). This report discusses the LCS and Phase 1 projects and in some cases the interface of these projects with the Haul Road project.

Rick McGuire is the Construction Contract Manager (CCM) for the LCS project and Lou Wehlitz the CCM for the Phase 1 project. Individuals should check their cc-mail or contact the CCMs for meeting dates and times.

Construction Progress

The LCS contractor,(VBS), began welding HDPE double containment pipe on Friday, 9 May 1997. Trench excavation is expected to begin next week. Site material deliveries during the period consisted of sand for use as pipe embedment material.

One of the initial pipe installation areas will be in the K-65 trench area. This area involves interaction with the Haul Road project and piping must be installed first before the road can be constructed. A work schedule for this area has been prepared by FDF and the contractors. Additional construction progress information can be obtained by contacting the project CCMs. Weekly meeting notes are also being issued by the CCMs.

Phase 1 construction by Petro is not scheduled to begin until the beginning of June.

Construction Submittal Review

Construction submittals are controlled by Construction Document Control CDC) and the FDF CCM. Each CCM has designated a project coordinator for comments. In this report submittals will be referred to by the project

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WEEKLY FIELD REPORT

1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GO0166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 13 May 1997

WR No. 10 (con't)

submittal number and item description. After review, submittal status or action is reported by assigning a letter code A, B, C or D. These codes refer to the following actions:

A - Conforms with Requirements (CFC)
B - Minor Comments- Proceed, but resubmit action to comments
C - Revise and resubmit
D - For information/Record Documents: CFC

During the period the following submittals for the respective projects were reviewed by the Resident Engineer(RE) and comments returned to the project coordinator.

Submittal No.	Item Description	RE Disposition	Recommended Status
LCS			
67R1	List of Equipment	OK, Add VPR 1330 12" Wide Vibratory Plate and Clay Compactor Planned.	A with Comment. May Require Resubmittal
74R1	24" Dia. Cleanouts	No Comment	A
82	Construction Schedule	Submitted for INFORMATION	
83	4-Week Rolling Schedule	Submitted for INFORMATION	
Phase 1			
9	Ohio Surveyor's License And Survey Notation	No Comment	A
10	Bentonite Spec. Sheet & 5-lb Sample	Comments Made Sample OK	C

During the period comments on several submittals were transmitted by CDC to the appropiate contractor. Status of these transmittals is controlled by the CCM and CDC.

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WEEKLY FIELD REPORT

1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 13 May 1997

WR No. 10 (con't)

Design Clarifications and Modifications

LCS

DCN No. 21, changing the maximum allowable spacing for HDPE pipe support centralizers between the carrier and containment pipe from 4-feet to nominal 4.5-feet was prepared and issued. This DCN also clarified the intent and inspection requirements for the 6-inch extension required for the carrier pipe as it applies to pipe installation. Specification Section 02605 Part 2.05 was affected.

DCN No. 22, adding provisions to the Pavement Restoration Detail for an aggregate base crushed stone or gravel (ODOT 304.02) was prepared and issued during the period. Affected Drawing is G-00257.

DCN No. 23, changing casing pipe from nominal 14-inch to nominal 12-inch at the K-65 Trench was received during the period. Affected Drawings are G-00257 and G-00266.

RCI No. 13R, clarifying the manhole invert elevations in Table 1 on Drawing G-00258 was received during the period.

Phase 1

No DCNs or RCIs were received during the period.
No RCI's were received by the RE during the period.

Quality Control (QC)

Set-up of the onsite QC laboratory was essentially completed during the previous report period. A few items remain which are discussed in the QC weekly report. One critical item is repair of the two trailers internal water pipes which have several leaks. Water is needed for testing and cleanup.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 3.1

DESCRIPTION: LCS and Phase 1 Construction WEEK ENDING: 13 May 1997

WR No. 10 (con't)

During the period QC and FDF QA observed qualification testing of VBS HDPE welding personnel. Documentation of this is being transmitted by VBS through the submittal process.

QC also began sampling and testing of onsite pipe embedment fill and inspection of VBS onsite pipe welding. Additional work summaries are provided in the QC weekly report.

Health and Safety

At the All Hands Team Meeting the safety topic was "an eye in the sky" with regard to dangerous weather. Rapidly changing weather conditions this time of year can effect the safety of workers, especially those working outside with various types of equipment. The occurrence of high winds and lightning, even without significant rainfall, should be taken seriously.

Safety training in accordance with FDF requirements of all GeoSyntec onsite personnel is continuing.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 26 May 1997

RESIDENT ENGINEER'S WEEKLY REPORT NO. 11

The period covered by Weekly Report No.11 is from 12 May 1997 through 18 May 1997. The Resident Engineers Weekly Report for the LCS and Phase 1 Construction has been combined into one weekly report. For this week the weekly construction meeting for the three OSDF construction projects (Haul Road. LCS and Phase 1) was combined into one meeting. This did not prove to be the most desirable meeting format from the contractors point of view. It was decided that separate meetings for each project would again be held each week and that a separate combined project managers meeting would be held for the three projects to discuss interface items and issues. This report discusses the LCS and Phase 1 projects and in some cases the interface of these projects with the Haul Road project.

Rick McGuire is the Construction Contract Manager (CCM) for the LCS project and Lou Wehlitz the CCM for the Phase 1 project. Individuals should check their cc-mail or contact the CCMs for meeting dates and times.

Construction Progress

The LCS contractor,(VBS), continued welding HDPE double containment pipe during the period and began trench excavation at Station 8+10 Dwg. No. G00261. GeoSyntec QC reported 440 linear feet of pipe welded. Refer to the Site Managers weekly report for further discussion on construction progress and QC related issues.

Barrett completed initial excavation south of the K-65 trench area where both pipe installation and haul road construction will take place. Plans are to relocate the pipe alignment further west beneath the haul road to provide a safe working distance from the cut slope near the railroad track. A DCN is being prepared. Additional construction progress information can be obtained by contacting the project CCMs. Weekly meeting notes are also being issued by the CCMs.

Phase 1 construction by Petro is not scheduled to begin until the beginning of June.

Construction Submittal Review

Construction submittals are controlled by Construction Document Control CDC)and the FDF CCM. Each CCM has designated a project coordinator for comments. In this report submittals will be referred to by the project submittal number and item description. After review, submittal status or action is reported by assigning a letter code A, B, C or D. These codes refer to the following actions:

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO. 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 26 May 1997

WR No. 11 (con't)

A - Conforms with Requirements (CFC)
B - Minor Comments- Proceed, but resubmit action to comments
C - Revise and resubmit
D - For information/Record Documents: CFC

During the period the following submittals for the respective projects were reviewed by the Resident Engineer(RE) and comments returned to the project coordinator.

	Submittal No.	Item Description	RE Disposition	Recommended Status
LCS	26R1	Lift Station Pumps	Parsons Final Review and Comment Required	A with Comment
	33R1	6/10-inch Butterfly Valve	No Comment	A
	40R2	Magnetic Flowmeter	Parsons Final Review and Comment	A with Comment
	57R4	54-inch Clean out Manhole	No Comment	A
	70R1	Concrete Mix Design Thrust Blk.. & Pier	No Comment	A
	79R1	Employee Welding Certs. K.Zickel, G.Kern, G.Kort, P.Adkins, and T.Halloren	No Comment	A
	109R2	Transformer Panel	No Comment	(May No Longer Be Required)

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 26 May 1997

WR No. 11 (con't)

Phase 1

8	Subcontractor's Work Area Plan	Comments Made	C
12	Corrugated Steel Pipe, Storage, Hand.,Install.	No Comment	A
	Manufac. Prod. Data	No Comment	A
	Diaphragm Dwg.& Data	No Comment	A
	Gasket/Band Dwg.	Comments	B(Use HuggerType)
	10-C Corrug.Band Dwg.	No Comments	A
7R1	Submittal Register	No Comment	A
10R1	Bentonite Spec. Data	Minor Comment	A with comment
13	Construction Schedule	No Comment	A, Defer to FDF
14	Riprap, Methods, Data	Comments Made	B, Source Acceptable with Conditions. Light Brown Riprap Unacceptable. Mulpile Visual Examinations Necessary
15	Riprap Material Certs.	Comments Made	C, Certification Statement Unacceptable See Detailed Comments

During the period comments on several submittals were transmitted by CDC to the appropriate contractor. Status of these transmittals is controlled by the CCM and CDC.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: LCS and Phase 1 Construction WEEK ENDING: 26 May 1997

WR No. 11 (con't)

Design Clarifications and Modifications

LCS

DCN No. 24, deleting the scope of independent concrete testing from VBS's contract, was received during the period. Concrete testing and inspection will be performed by onsite GeoSyntec personnel.

DCN Nos. 25 and 26 are pipeline alignment changes initiated by FDF. These DCN's are still in the review and approval process and the RE does not yet have a copy.

RCI No. 14R, clarifying the location at which buried pipeline markers will be installed, was issued during the period. Markers will be installed 12-inches below grade as stated in Specification Section 2215 3.03.D. A DCN will need to be issued making necessary changes to drawing sections and notes relating to the markers.

Phase 1

No DCNs or RCIs were received by the RE during the period.

Quality Control (QC)

Status of set-up of the onsite QC laboratory was essentially unchanged from the previous report period. Additional items needed are being worked on by FDF. The lab is functioning as needed to support construction. Grainsize testing of pipe embedment fill delivered onsite was performed. Results met specification requirements. Refer to the Site Managers report for further discussion of QC related items.

Health and Safety

The GeoSyntec Safe Work Plan for QC activities was submitted to FDF on 14 May 1997. Jeph McMichen is interacting with FDF concerning comments on the plan.

Safety training of all GeoSyntec onsite personnel is continuing. GeoSyntec QC employees are holding their own tailgate safety meetings and attending contractors (VBS) daily tailgate safety meetings as necessary. Also, all current onsite employees have signed off on Barrett's safety matrix which is needed to access the work area south of the K-65 trench.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 28 May 1997

RESIDENT ENGINEER'S WEEKLY REPORT NO. 12

The period covered by Weekly Report No.12 is from 19 May 1997 through 25 May 1997. The Resident Engineers Weekly Report for the LCS and Phase 1 Construction has been combined into one weekly report This report discusses the LCS and Phase 1 projects and in some cases the interface of these projects with the Haul Road project. Rick McGuire is the Construction Contract Manager (CCM) for the LCS project and Lou Wehlitz the CCM for the Phase 1 project. Individuals should check their cc-mail or contact the CCMs for meeting dates and times.

Construction Progress

The LCS contractor, (VBS), continued welding 4/8 inch HDPE double containment pipe and other utility pipes during the period. Additional trench excavation occurred south of the K-65 trench. Bedding sand was placed and compacted and pipes inserted in the trench. At the end of the period bedding sand was also being placed between and along side of the pipes. However VBS did not have an appropriate plate compactor onsite to compact between the pipes. VBS was notified over a month ago and several times since that they would need a suitable vibratory plate compactor to compact between the pipes. Refer to the Site Managers weekly report for further discussion on construction progress and QC related issues.

Phase 1 construction by Petro is not scheduled to begin until the beginning of June.

Construction Submittal Review

Construction submittals are controlled by Construction Document Control (CDC)and the FDF CCM. Each CCM has designated a project coordinator for comments. In this report submittals will be referred to by the project submittal number and item description. After review, submittal status or action is reported by assigning a letter code A, B, C or D. These codes refer to the following actions:

A - Conforms with Requirements (CFC)
B - Minor Comments- Proceed, but resubmit action to comments
C - Revise and resubmit
D - For information/Record Documents: CFC

During the period the following submittals for the respective projects were reviewed by the Resident Engineer (RE) and comments returned to the project coordinator.

COPY TO: MJH, RAH, UAK, JCJ, WAZ, RLM, MWG, GKJ, JFM, KWC, LRW,DBO,File PER: D.G.Bodine

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 28 May 1997

WR No. 12 (con't)

	Submittal No.	Item Description	RE Disposition	Recommended Status
LCS				
	32R1	6-inch butterfly Valve	No Comment	A
	34R1	6-inch PVC Ball Valve	No Comment	A
	36R1	4-inch Kennedy Check Valve	No Comment	A
	64R1	Seed Mix with Certs.	Minor Comment	A
	72R1	Check Dam Material Data	No Comment	A
	78R1	Manhole Embedment Fill. & 50-lb Sample	Comments	C, Grainsize Failed
Phase 1				
	16	Subcontractor's Work Area Plan	Comments Made	C
	17	Seed Mix, Mulch, Fertilizer, Tacking Agent	Comments Made No Comment Comments Made	B, Mix Percent Error A B, Agent Applicable Hydro Seeding & Manufac.Installation Procedures To Be Followed

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 28 May 1997

WR No. 12 (con't)

21	Security Fence Details	Comments Made	B, SD-108 Submittal Needs to Reference Spec. &Drawings. Material ASTM, Class etc. Requirements Apply. A, SFG-001 thru 004
22	Safe Work Plan	Minor Comment	B, Defer to FDF for Additional Comment

During the period comments on several submittals were transmitted by CDC to the appropriate contractor. Status of these transmittals is controlled by the CCM and CDC.

Design Clarifications and Modifications

LCS

DCN Nos. 25 and 26 are pipeline alignment changes initiated by FDF and approved by Parsons. These DCN's were approved during the period and received by the RE on 28 May 96. A DCN needs to be prepared changing the pipeline section (DCN No. 26, sketch #20110-SK-008) to agree with the current proposed pipeline elevations and center to center distances. Drawing Nos. G-00259, G-00261, G-00262 and G-00266 are affected.

DCN No. 27, changing the invert elevation of the GW-10 inch pipeline to the same elevation of the LCS line from coordinate GW/4 going west and eliminating the relief valve at GW/9, was received during the period. Drawing No. G-00261 is affected.

DCN No. 29, providing requirements under which VBS -ISCO supplied fittings could be approved for use on the LCS project, was prepared and approved during the period. The fittings lacked documentation specified when delivered to the site.

RCI No. 16R, clarifying the appropriate legend or wording for the buried pipeline warning tape for the added utility pipelines, was received by the RE during the period.

RCI No. 17R, reporting the maximum and minimum operating line pressures for the 3-inch check valve (VBS Submittal No. 31) between the LCS and LDS Manholes, was prepared by GeoSyntec and issued by CDC.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: LCS and Phase 1 Construction WEEK ENDING: 28 May 1997

WR No. 12 (con't)

RCI No. 19R, filling out a vendor solar system customer worksheet related to VBS Submittal No. 49 (future revision) and DCN No. 19, was completed by GeoSyntec and issued by CDC.

Phase 1

DCN No. 2, allowing the chipped materials from the Pine wood clearing activities to be spread into the Pine woods outside of the OSDF Battery Limit, as directed by the CCM was received during the period. DCN No. 1 has never been approved, is also related to relocation of chipped material, and may need to be voided.

Quality Control (QC)

The lack of a functioning plumbing system for the lab trailers remains the critical item for completion of the temporary laboratory onsite. Lab work is continuing using outside water sources.

QC construction monitoring and soil sampling and testing is in progress. OC provided a detailed visual examination of VBS HDPE pipe fittings onsite. These fittings are the subject of DCN No. 29. The examination documented fitting sizes, SDRs, run dates, wall thicknesses, inspectors initials and conditions of welds. The fittings appear suitable subject to certification conditions stated in the DCN and installation conditions resulting from the examination.

Discussion of other QC activities and results can be found in the Site Managers weekly report.

Health and Safety

FDF health and safety representives conducted an inspection of the field laboratory trailers. Summariezed results of the inspection can be found in the Site Managers weekly report.

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WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 31

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 02 June 1997

RESIDENT ENGINEER'S WEEKLY REPORT NO. 13

The period covered by Weekly Report No.13 is from 26 May 1997 through 01 June 1997. The Resident Engineers Weekly Report for the LCS and Phase 1 Construction has been combined into one weekly report. This report discusses the LCS and Phase 1 projects and in some cases the interface of these projects with the Haul Road project. Rick McGuire is the Construction Contract Manager (CCM) for the LCS project and Lou Wehlitz the CCM for the Phase 1 project. Individuals should check their cc-mail or contact the CCMs for meeting dates and times.

Construction Progress

The LCS contractor, (VBS), continued welding 4/8 inch HDPE double containment pipe and other utility pipes during the period. Additional trench excavation occurred south of the K-65 trench and between trench stations 10+20 and 12+00. Heavy rain during the weekend of 24 May 1997 resulted in trench areas being flooded with water by Monday morning. The pipes installed during the previous period at the K-65 area floated because they had been capped and not yet backfilled. The pipes located in the trench area between approximate Station 8+20 and 10+00 (Drawing G-00261) did not float. The sand backfill for these pipes was regraded and compacted during this report period. Refer to the Site Managers weekly report for further discussion on construction progress and QC related issues.

Phase 1 construction by Petro is not scheduled to begin until the beginning of June. Petro's field administration office trailer was set-up onsite. Construction equipment was also being mobilized to the site.

Construction Submittal Review

Construction submittals are controlled by Construction Document Control (CDC)and the FDF CCM. Each CCM has designated a project coordinator for comments. In this report submittals will be referred to by the project submittal number and item description. After review, submittal status or action is reported by assigning a letter code A, B, C or D. These codes refer to the following actions:

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C - Revise and resubmit
D - For information/Record Documents: CFC

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FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 02 June 1997

WR No. 13 (con't)

During the period the following submittals for the respective projects were reviewed by the Resident Engineer (RE) and comments returned to the project coordinator.

	Submittal No.	Item Description	RE Disposition	Recommended Status
LCS				
	67R2 & R3	Excavation and Compaction Equipment	No Comment	A, Additional to Submittal No. 67
	78R2	Manhole Embedment Fill. & 50-lb Sample	Comments	C, Grainsize Failed (New Supplier)
	83R3	4-Week Rolling Schedule	No Comment	A
	85	Work Area Plan	No Comment	A
	86	Earthwork Plan	Comments	B, Tie Construction, Materials, Installation Procedures, etc., to Specs and Safe Work Plan
	87	Surface Water Mgt. And Erosion Control Plan	Comments	B: Collection & Pumping Need to be Included.
Phase 1				
	7R2	Submittal Register	No Comment	A
	8R1	Work Area Plan	No Comment	A
	11R1	Earthwork Work Plan	Minor Comments	A with comment Silt Fence Placement

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WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 02 June 1997

WR No. 13 (con't)

12R1	CMP Storage Procedures	Minor Comment	A. Final CFC Copy Must be combination Of Rev. 0 and Rev. 1
26	Excelsior Blankets	Comments	B. Type not Identified
	Silt Fence	No Comments	A
27	Material Certs		
	Excelsior Blanket	Comments	C, Grade Selected Does Not Meet Project Spec.
	Silt Fence	No Comments	A
28	Subbase Material Source	No Comment	A
	Test Data	No Comment	A
	& 50-lb Sample	Testing In-progress	On-Hold
29	No. 304 Aggregate Certs	No Comment	A
30	Bar Schedule/Details	Minor Comment	B,
	Concrete Mix Design	Minor Comment	B. Type II Cement Specified
	Concrete Cyl. Test Results	No Comment	A
	Form Release Agent Data	No Comment	A
	Admixture Data	No Comment	A
	Curing Compound Data	No Comment	A
	Expansion Joint Filler Data	Minor Comment	B, ½" Size Specified

During the period comments on several submittals were transmitted by CDC to the appropriate contractor. Status of these transmittals is controlled by the CCM and CDC.

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FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: LCS and Phase 1 Construction WEEK ENDING: 02 June 1997

WR No. 13 (con't)

Design Clarifications and Modifications

LCS

DCN Nos. 28, 30, 31, and 32 are still in the review, response and approval process.

DCN No. 33, added to Technical Specification 2605, Part 3.07, requirements at which backfilling of piping may occur before completing hydrostatic testing. Changes were also made to the test pressure requirements applicable to pipes of different SDR ratings and design pressures.

Phase 1

DCN No. 3, requesting a change in the height requirement for a small section of chain link fence due to security requirements was received and reviewed during the report period.

Quality Control (QC)

During the period QC performed moisture-density relationships, Atterberg limit tests, wash 200 sieve tests, and grain size tests on proposed backfill soils for the LCS project. Grain size testing was initiated on a submittal sample for proposed subbase aggregate for the Phase 1 project. Results of QC testing can be obtained by contacting the QC Site Manager, Jeph McMichen.

Discussion of other QC activities and results can be found in the Site Managers weekly report.

Health and Safety

The safety topic at the LCS weekly meeting consisted of a brief summary of OSHA's report detailing fines for trench related violations and a brief discussion of OSHA's interpretation of confined space as it relates to trenching. Details of or copies of these items can be obtained by contacting Rick McGuire.

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FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT 1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 08 June 1997

RESIDENT ENGINEER'S WEEKLY REPORT NO. 14 003

The period covered by Weekly Report No. 14 is from 02 June 1997 through 08 June 1997. The Resident Engineers Weekly Report for the LCS and Phase 1 Construction is combined into one weekly report. This report discusses the LCS and Phase 1 projects and in some cases the interface of these projects with the Haul Road project. Rick McGuire is the Construction Contract Manager (CCM) for the LCS project and Lou Wehlitz the CCM for the Phase 1 project. Individuals should check their cc-mail or contact the CCMs for meeting dates and times.

Construction Progress

The LCS contractor, (VBS), continued welding 4/8 inch HDPE double containment pipe and other utility pipes during the period. Trench excavation continued at a slow pace between approximate trench stations 12+00 and 13+00 (Drawing G-00261). Excavation (machine and hand) is slow in this area because the LCS alignment crosses beneath several underground pipes. Water has also been encountered requiring localized dewatering using sump and pump operations. Utility pipes installed south of the K-65 trench during the previous report period were removed from their floated location to allow for regrading of the bedding sand and re-installation of the pipes. These pipes were reinstalled and bedding sand placed between and around the sides of the pipes. The LCS pipe will be installed at a higher elevation after the utility pipes are properly backfilled . Rain at the end of the report period had slowed construction preventing completion of proper backfillng and compaction.. Refer to the Site Managers weekly report for further discussion on construction progress and QC related issues.

Phase 1 construction by Petro Environmental began by clearing and stripping activities in laydown and construction road areas. Stripping activities (top 6-inches of soil) also began in the sedimentation pond area. The soils were placed in a specified stockpile area which included a geomembrane barrier at the base. Material deliveries consisting of drainage culvert, silt fence and safety signs occurred during the period.

Construction Submittal Review

Construction submittals are controlled by Construction Document Control (CDC)and the FDF CCM. Each CCM has designated a project coordinator for comments. In this report submittals will be referred to by the project submittal number and item description. After review, submittal status or action is reported by assigning a letter code A, B, C or D. These codes refer to the following actions:

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B - Minor Comments- Proceed, but resubmit action to comments
C - Revise and resubmit
~~D - For information/Record Documents: CFC~~

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

1264

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GO0166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 08 ~~18~~ June 1997

WR No. 14 (con't)

During the period the following submittals for the respective projects were reviewed by the Resident Engineer (RE) and comments returned to the project coordinator.

	Submittal No.	Item Description	RE Disposition	Recommended Status
LCS				
	50R1	Pulse Receiver TA 5000	No Additional Comments	A, Parsons Review
	51R1	Pulse to Pulse Transmitter	No Additional Comments	A, Parsons Review
	52R1	Isolator 4000 Series	No Additional Comments	A, Parsons Review
	83R4	4-Week Rolling Schedule.	No Comment	A, Submitted for INF.
	90	Hydrostatic Test Plan For Piping	Comments Made	B, Reference DCN #33 Ref., do not attach Drisco Test Procedures.
	90R1	Hydrostatic Test Pump	No Comment	A , Equipment Listing
Phase 1				
	24	Geomembrane/Geotextile Sample Certifications, Manufacturer, Installer QA/QC Procedures & Personnel Resumes	Comments Made	A & B, 22 Part Submittal

During the period comments on several submittals were transmitted by CDC to the appropriate contractor. Status of these transmittals is controlled by the CCM and CDC.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT 1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 08 (18) June 1997

WR No. 14 (con't)

Design Clarifications and Modifications

LCS

DCN No. 28, approving the use of anchor studs, wedge, nut and washer made from AISI 304 stainless steel in-lieu of AISI 316 was received during the period. Drawing No. G-00258 is affected.

DCN No. 30, approving the use of fiberglass insulation with waterproof cement grout as an approved equal for pipe link seals (specified sizes not available) was received during the period. Drawing No. G-00257 is affected.

DCN Nos. 31 and 32 have not yet been approved.

RCI No. 20R, received during the period, provided VBS a list of manufacturers and contacts for lightning arresters that should be able supply materials meeting the project specifications. Specification 13400 was referenced.

RCI No. 21R, clarified the means and provided a sketch for VBS for making turns for the DW 6-inch and FQ 12-inch utility pipes shown on Drawing G-00261. Drawing G-00261 and DCN No. 26 were referenced.

Phase 1

DCN No. 3 relocating the security fence and increasing its height between coordinates N 482,660 E 1,350,560 and N 482,165 E 1,350,560 was approved during the period. Drawings G-00074 and S-00088 were affected.

Quality Control (QC)

Cleanout Nos. 1A, 2, 3, 6, 7, 8, 9, 10, and 12, fabricated by ISCO, arrived onsite for the LCS project during the period. Submittal No. 74 R1 Shop Drawing was approved for these cleanouts. Fabrication and run data was not available at this time for review. QC is scheduled to examine these cleanouts next week.

COPY TO: MJH, RAH, UAK, JCJ, WAZ, RLM, MWG, GKJ, JFM, KWC, DKP, LRW, DBG, File PER: D.G.Bodine

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WEEKLY FIELD REPORT 1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: LCS and Phase 1 Construction WEEK ENDING: 18June1997

WR No. 14 (con't)

Cleanout Manholes Nos. 1, 4, 5, and 11, fabricated by Plexco, arrived onsite for the LCS project during the period. Submittal No. 57R4 Shop Drawing was approved for these cleanouts. Fabrication and run data is expected to be submitted next week. QC is scheduled to examine these manholes next week.

QC construction monitoring and soil sampling and testing for the OSDF project continues. Discussion of QC activities and results can be found in the Site Managers weekly report.

Health and Safety

The All Hands Team Meeting was held on 3 June 1997. The safety topic delt with a warning about mixing house hold cleaning agents, especially in areas of poor ventilation and fresh air circulation. A real life example of mixing Ammonia and Clorox resulting in a deadly atmosphere when in a confined space was given. Part of the meeting was also devoted to video training on the new Lockout/Tagout Procedures at Fernald. Many of the GeoSyntec personnel were unable to attend this meeting because of work activities. Therefore, arrangements have been made to borrow the video tape and conduct a training session for all onsite GeoSyntec QC personnel at a time that will not interfere with construction activities.

GeoSyntec's Safe Work Plan is expected to be reissued next week.. Comments on the previous revision have been discussed and are in the process of being incorporated.

GeoSyntec QC personnel assigned to the LCS and Phase 1 projects are attending the contractors daily morning safety meetings. Additional safety meetings are being conducted and documented in QC daily reports.

MJH, RAH, UAK, JCJ, WAZ, RLM, MWG, GKJ, JFM, KWC, D.G.Bodine

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FLUOR DANIEL FERNALD

1264

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 15 19 June 1997

RESIDENT ENGINEER'S WEEKLY REPORT NO. 15

15 263

The period covered by Weekly Report No. 15 is from 10 June 1997 through 16 June 1997. The Resident Engineers Weekly Report for the LCS and Phase 1 Construction is combined into one weekly report. This report discusses the LCS and Phase 1 projects and in some cases the interface of these projects with the Haul Road project. Rick McGuire is the Construction Contract Manager (CCM) for the LCS project and Lou Wehlitz the CCM for the Phase 1 project. Individuals should check their cc-mail or contact the CCMs for meeting dates and times.

Construction Progress

The LCS contractor, (VBS), continued welding 4/8 inch HDPE double containment pipe and other utility pipes during the period. Trench excavation also continued between approximate trench stations 12+50 and 13+80 (Drawing G-00261), but only intermittently, as VBS work crews concentrated on work at the K-65 area.. Installation of the utility pipes and LCS pipe in this area was completed between approximate stations 9+50 and 12+50 (Drawing G-00266). Pipe bedding sand was placed over the LCS pipe in accordance with DCN No. 35, compacted and clay fill then placed and compacted. Clay fill placement and compaction continued. At the north end of the placement area, where pipes have not yet been installed undercutting of wet soil was required due to pumping of the foundation area. The undercut area was filled with 3-inch stone using Geotextile to essentially separate the stone from the underlying clay soil. Geotextile will also be used to separate the top of the stone from a layer of bedding sand to be placed beneath the utility and LCS pipes. Construction proceeded satisfactorily.

Excavation on both sides of the K-65 trench was completed to permit the begining of pipe-jacking operations. Steel pipes are being jacked beneath the K-65 trench to provide access for utility and LCS pipe crossings. This work is expected to take approximately 7 to 10 days.

Phase 1 construction by Petro Environmental continued in the area of the sedimentation basin.. Excavation and stockpiling of clay from the basin interior began. Fill placement and construction of the berm did not start. Some foundation proofrolling did occur.

Refer to the Site Managers weekly report for further discussion on construction progress and QC related issues.

Construction Submittal Review

Construction submittals are controlled by Construction Document Control (CDC)and the FDF CCM. Each CCM has designated a project coordinator for comments. In this report submittals will be referred to by the project submittal number and item description. After review, submittal status or action is reported by assigning a letter code A, B, C or D. These codes refer to the following actions:

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SHEET NO ___ OF ___

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT 1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 3.1

DESCRIPTION: ~~LCS And Phase 1 Construction~~ WEEK ENDING: 15 DGB ~~19 June 1997~~

WR No. 15 (con't)

A - Conforms with Requirements (CFC)
B - Minor Comments- Proceed, but resubmit action to comments
C - Revise and resubmit
D - For information/Record Documents: CFC

During the period the following submittals for the respective projects were reviewed by the Resident Engineer (RE) and comments returned to the project coordinator.

Submittal No.	Item Description	RE Disposition	Recommended Status
LCS			
67R4	Additional Compaction Equipment Data Specs.	No Comment	A
	(A check in the field of equipment indicated that compaction equipment delivered to the site does not match Model Nos. submitted under 67 R3 and 67 R4. An informal meeting was held with VBS who was told that only certain approved vibratory plate models are approved for compaction over top of the HDPE installed pipes as specified in specification Section 2605. VBS is proceeding to obtain and submit the correct data.)		
10R3	Safe Work Plan Added Pipe Jacking Section	No Comment	A
Phase 1			
25	HDPE Manholes, Pipes Fittings & Shop Drawings Manufacturer, Fabricator, & Installer, Materials, QA/QC Procedures, Certifications & Qualifications	Comments Made	A, B and C 16 Part Submittal

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FLUOR DANIEL FERNALD

1264

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 15 (19) June 1997

WR No. 15 (con't)

36	Equipment List & Pipe Embedment Fill	Comments Made	B - Equipment List C - Submitted Grain Size Data & Test on Sample Failed. Suggest Resample & Resubmit.
37	CMP Material Certification	No Comment	A
24,26,&27	Geomembrane/Geotextile etc., Erosion Control Mats & Silt Fence	Meeting was held with Petro to go over previous comments on these submittals.	

The following Phase 1 Submittals were reviewed and transmitted back to the coordinator during the previous report period, but not listed in Weekly Report No. 14.

32	Gravity Inlet Structure	Comments Made	B, Shop Drawing Comments
33	Riprap Source & Test Results, Type C	Minor Comment	A with comment
13R1	Construction Schedule	No Comment	A
16R1	Seed Mix & Tacking Agent	No Comment	A (Final CFC Document must be Combination of R0 and R1)
17R1	Equipment List-Clay Liner	Minor Comment	B (Original Comment Not Addressed)
22R2	Final Safe Work Plan	No Comment	A

During the period comments on several submittals were transmitted by CDC to the appropriate contractor. Status of these transmittals is controlled by the CCM and CDC.

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FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT 1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: LCS and Phase 1 Construction WEEK ENDING: 15 (19) June 1997

WR No. 15 (con't)

Design Clarifications and Modifications

LCS

DCN Nos. 31, 32 and 34 have not been received by the GeoSyntec Resident Engineer. We believe review, approval and/or discussion is still inprogress.

DCN No. 35 was reviewed, responded to and approved by GeoSyntec during the period. This DCN modifies the typical pipe bedding detail allowing the placement and compaction of bedding sand 8-inches above the top of the LCS pipe. Drawings G-00257, M-00065, DCNs No. 22 and No 32 and Specification Section 02215 are affected. This DCN will also required approval of Parsons.

RCI No. 25R was prepared to document that the low torque type flange gaskets supplied by Asaha/America cannot be verified to be in accordance with ASTM F 477. The manufacturer has stated that the product meets the basic intent of the specification. The gaskets have been approved for use in Submittal No. 41.

RCI No. 26R stated that the stub out pipes for the Lift Station would be machined to match the same SDR pipe size. This was discussed and approved in RCI No. 22R.

Phase 1

DCN No. 4, changed construction control points for the Gravity Inlet Structure foundation and made some minor dimension changes to the Inlet Structure. These changes affected Drawing No. G-00085 and were approved by GeoSyntec. The changes were also incorporated in the comments on Submittal No. 32.

Quality Control (QC)

To date VBS has not resubmitted a manhole embedment sample in response to test failures with VBS Submittal No. 78R2. However, GeoSyntec has been told that a sample should arrive any time from a new source. Delay in completing future cleanout manhole backfilling could occur due to no approved material source..

QC continued construction monitoring, soil sampling and field and lab testing during the period. OC provided examination of VBS cleanouts and cleanout manholes. The GeoSyntec RE also examine the cleanouts and manholes and held discussions with FDF.

Discussion of other QC activities and results can be found in the Site Managers weekly report.

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1264

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 31

DESCRIPTION: LCS and Phase 1 Construction WEEK ENDING: 15 19 June 1997

WR No. 15 (con't)

Health and Safety

The safety topic at the 10 June 1997 LCS weekly meeting provided a review on safety glasses. Specifically, the discussion delt with plastic particles from new glasses with adjustable temples falling into the eyes and the preventive solution recommended by the manufacturer. This solution recommended adjusting and "working" the glasses before actual use to remove small plastic particles left from the manufacturing process.

Revisions to GeoSyntec's Safe Work Plan was completed during the period.

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1264

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 31

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 22 June 1997

RESIDENT ENGINEER'S WEEKLY REPORT NO. 16

The period covered by Weekly Report No. 16 is from 16 June 1997 through 22 June 1997. The Resident Engineers Weekly Report for the LCS and Phase 1 Construction has been combined into one weekly report. This report discusses the LCS and Phase 1 projects and in some cases the interface of these projects with the Haul Road project. Rick McGuire is the Construction Contract Manager (CCM) for the LCS project and Lou Wehlitz the CCM for the Phase 1 project. Individuals should check their cc-mail or contact the CCMs for meeting dates and times.

In Weekly Report No. 14, please correct the week ending period to 08 June 1997 in the first paragraph of page 1 and at the top of each page. Likewise, for Weekly Report No. 15, please correct the week ending period to 15 June 1997.

Construction Progress

The LCS contractor, (VBS), continued welding 4/8 inch HDPE double containment pipe and other utility pipes during the period. VBS was assisted by Wise Construction in performing trench excavation, pipe bedding sand installation and pipe and trench backfilling. Work proceeded north and south of the K-65 Trench. Pipe jacking of sleeves beneath the K-65 Trench had been completed and HDPE pipes installed. Additional progress discussion can be found in the Site Managers Weekly Report.

Phase 1 Construction by Petro continued to concentrate on excavation and stockpiling of the soils from within the Sedimentation Basin (SB). Ditch cleaning and undercutting of soft and unsuitable soils from the existing ditch west of the SB and beneath the SB berm began. Proofrolling and backfilling with suitable clay soil also took place.

Construction Submittal Review

Construction submittals are controlled by Construction Document Control (CDC) and the FDF CCM. Each CCM has designated a project coordinator for comments. In this report submittals will be referred to by the project submittal number and item description. After review, submittal status or action is reported by assigning a letter code A, B, C or D. These codes refer to the following actions:

A - Conforms with Requirements (CFC)
B - Minor Comments- Proceed, but resubmit action to comments
C - Revise and resubmit
D - For information/Record Documents: CFC

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29 June 97 SHEET NO 1 OF 4

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1264

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 22 June 1997

WR No. 16 (con't)

During the period the following submittals for the respective projects were reviewed by the Resident Engineer (RE) and comments returned and reviewed with the project coordinator. Comments are also reviewed with the Project Engineer and QA as may be required for thorough understanding.

	Submittal No.	Item Description	RE Disposition	Recommended Status
LCS				
	74R2	Additional Certs for ISCO Cleanouts	Comments	B, Resin Cert for Lot No. 616-1550 Missing 4-inch Carrier Pipe
	88R1	Pressure Gauge Calibrations	No Comment	A, Gauge Nos. 100, 101,201 & 202
	67R4	Equipment Data DRH-530DR Plate Compactor	No Comment	A, Not to be Used Directly Over Pipes within 12-inches.
	67R5	Equipment Data JCB 506 B Loadall Wacker Model Nos. DPU6760 & VPR 1330 Plate Compactors MVC-90L Plate Compactor	No Comment	A,VPR 1330 , MVC-90L Approved For Use over Pipes. DPU 6760, Don't Use Within 12 inches Over Pipe.
	67R6	Water Shotgun 4040 Pavement Saw PS890	No Comment	A
	60R2	Additional Plexco QC Certifications for COMHs	No Comment	A
	90R2	Air Testing For Gas Piping	Comments	Detailed Review by Others (Not LCS)

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WEEKLY FIELD REPORT 1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 22 June 1997

WR No. 16 (con't)

Phase 1

20R1	Surface Water Mgt. & Erosion Control Plan	No Comment	A
35	Liner Penetration Boxes List of Facilities Origin/ID of PE Resin	Comments Made	B/C, GSI 1 to 3 unclear C, Specified Grade Not Provided.
	Fabrication Dates Fabricator's Qualifications		A C, Proposing GSI Field Fabrication. Spec1300 Requires Shop Drawing QC Procedures,Training Certs. etc.
21R1	Fence & Gates Shop Drwg.	No Comment	A
26R1 &27R1	Silt Fence, Siltco 100 CH Certs & Data	Minor Comment	A, Correct Cover Sheet Title
38	Electrofusion Pipe Couplings Procedures (Central)	No Comment	A

During the period comments on several submittals were transmitted by CDC to the appropriate Contractor. Status of these transmittals is controlled by the CCM and CDC.

Design Clarifications and Modifications

LCS

DCN Nos. 30, 31, and 32 still have not been received by the GeoSyntec RE. We believe review, response, discussion and approval is still inprogress.

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WEEKLY FIELD REPORT 1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: LCS and Phase 1 Construction WEEK ENDING: 22 June 1997

WR No. 16 (con't)

Phase 1

No DCNs or RCIs were prepared, responded to or received by the RE during the report period.

DCN No. 3, requesting a change in the height requirement for a small section of chain link fence due to security requirements was received, responded to and approved during the report period.

Quality Control (QC)

QC continued construction monitoring, soil sampling and field and lab testing during the period. Examinations of the VBS (ISCO) cleanouts indicated average to poor workmanship due to some over grinding and out of round of the 8-inch containment pipe. However, measurements of critical dimensions indicated that the cleanouts would be suitable subject to final acceptance. The fabricator, ISCO, indicated that they spark tested welds at the shop. The designer, Parsons, was asked to look at the cleanouts and they accepted the cleanouts as is. Pressure testing of the piping will be conducted in the future after the cleanouts have been installed.

Discussion of other QC activities and results can be found in the Site Managers weekly report.

Health and Safety

The safety topic at the LCS weekly meeting consisted of a safety glasses review. Additional safety topic was review of the onsite LCS worker injury which occurred at one of the butt welding machines. A machine part broke and the operator sustained a strained shoulder. The individual is now working on light duty until his shoulder fully recovers. Inspections of the machines occurs on a regular basis.

GeoSyntec's safety items are being discussed in the Site Managers Weekly report. New site soils technicans are proceeding with onsite training and health related training or examinations immediately after arriving and at the earliest possible schedule date.

COPY TO: MH, RAH, UAK, JCJ, WAZ, RLM, MWG, GKJ, JFM, KWC, DKP, LRW, DBG, File PER: D.G.Bodine D. Bodine 29 June 97

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FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT 1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 29 June 1997

RESIDENT ENGINEER'S WEEKLY REPORT NO. ~~16~~ 17

The period covered by Weekly Report No. 17 is from 23 June 1997 through 29 June 1997. The Resident Engineers Weekly Report for the LCS and Phase 1 Construction has been combined into one weekly report. This report discusses the LCS and Phase 1 projects and in some cases the interface of these projects with the Haul Road project. Rick McGuire is the Construction Contract Manager (CCM) for the LCS project and Lou Wehlitz the CCM for the Phase 1 project. Individuals should check their cc-mail or contact the CCMs for meeting dates and times.

Construction Progress

The LCS contractor, (VBS), continued welding and installing 4/8 inch HDPE double containment pipe and other utility pipes during the period. VBS, assisted by Wise Construction, performed trench excavation, pipe bedding sand and trench fill placement and compaction. Work proceeded north and south of the K-65 Trench and at the OU 4 Access Road (Drawings G-00262 and G-00266). The OU 4 road crossing was a major weekend project where approximately 70 % of the crossing work was completed by late Sunday. Rain Sunday afternoon slowed progress, but did not stop the work.. Some additional LCS work, consisting of bedding sand and trench backfill placement and compaction, occurred at the TACCO area between stations 8+15 and 10+55, Drawing G-00261.

VBS began hydrostatic pressure testing of HDPE piping during the period. Results are discussed in the QC section of this report. Additional construction progress and QC summaries can be found in the QC Site Managers weekly report.

Phase 1 Construction by Petro consisted of completing the major portion of the excavation and berm construction of the Sedimentation Basin. The inlet culverts, principal spillway and emergency spillway have not yet been installed. Installation of the outlet piping and anti-seep collar for the principal spillway began, but was not completed during the period.

Construction Submittal Review

Construction submittals are controlled by Construction Document Control (CDC) and the FDF CCM. Each CCM has designated a project coordinator for comments. In this report submittals will be referred to by the project submittal number and item description. After review, submittal status or action is reported by assigning a letter code A, B, C or D. These codes refer to the following actions:

A - Conforms with Requirements (CFC)
B - Minor Comments- Proceed, but resubmit action to comments
C - Revise and resubmit
~~D - For information/Record Documents- CFC~~

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1264

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 29 June 1997

WR No. ~~16~~ 17 (con't)

During the period the following submittals for the respective projects were reviewed by the Resident Engineer (RE) and comments returned and reviewed with the project coordinator. Comments are also reviewed with the Project Engineer and QA as may be required for thorough understanding.

Submittal No.	Item Description	RE Disposition	Recommended Status
LCS			
74R2(Revised)	Additional Certs. for ISCO Cleanouts	No Comment	A, Added Missing Resin Cert. for Lot No. 616-1550 4-inch Carrier Pipe
77R6	Missing Resin Cert.,	No Comment	A, The 8-inch pipe Certs Don't Match Any Pipe Delivered. What Pipe are They For?
78R3	Manhole Embedment Fill & 50-lb Sample	Comment	A, (Approved, Subject to Approval of DCN No. 1700-039)
53R1	Lightning Arrester	No Comment	A, Parsons Final Review
24R2	HDPE Fittings for LCS/LDS Cleanouts	Comments	B,Some Dimensions Need To Be Verified and/or Corrected.
Phase 1			
11R3	Earthwork Plan	No Comment	A
22R3	Final Safe Work Plan	No Comment	A

COPY TO: ~~MJH, RAH, UAK, JCJ, WAZ, RLM, MWG, GKJ, JFM, RWC,~~ DKP,LRW, DBG,File PER: ~~D.G.Bodine~~ D. Bodine 2 July 97

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FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT 1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 29 June 1997

WR No. ~~16~~ 17 (con't)

Phase 1 (Cont'd)

37R1	CMP Cert. for Material. Shipped June 9, 1997	No Comment	A
40	Mfg. Geotextile 7-oz Cert. & Test Results	No Comment (After Cert. Corrected)	A (Test Method Revised)

During the period a meeting was held at GeoSyntec's field office primarily to review the status of Petro Submittal No. 24, critical nature of Submittal No. 40, and answer Petro questions concerning direct shear tests to be performed by their testing lab and/or geomembrane manufacturer. The meeting was attended by Dan Bodine and David Bonnett, GeoSyntec, Don Goetz and Maureen Enderie, FDF construction and engineering, and Rick Schairbaum , Petro QA. Results of the meeting are summarized below:

1. Petro needed Submittal No. 40 returned as soon as possible. Maureen indicated submittal certification was acceptable, but not signed. Dan indicated that he had only received it a couple days earlier and would review it that afternoon. (Update, Review by Dan was completed and the certification for the 7-oz geotextile was corrected and reissued by Petro and approved by FDF.) This item was also addressed in Submittal No. 24 comments.

2. Geomembrane Certification Test Methods

a. Carbon Black Dispersion-Test Method ASTM 5596 (1994) is specified. NSC was to supply documentation on the test method they use. (Update: After NSC review they indicated that ASTM D 5596 was the test method they were currently using and that the submitted property table was not current or needed to be updated). DGB additional comment: NSC's QA Manual should also be undated to their current procedures and test methods.

b. Thickness Test Method- Test Method GRI-GM8 is specified, ASTM D 5199 is used by NSC. The GRI-GM8 is applicable to measurements on textured geomembrane. NSC measures the thickness on the smooth sheet prior to co-extruding to produce the final textured sheet. Therefore, the ASTM D 5199 test on the smooth sheet will be accepted since the friction surface is "attached" to the smooth sheet by an acceptable process.

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FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT 1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 29 June 1997

WR No. ~~16~~ 17 con't) 7/1/03

c. ESCR Test Method ASTM D 5397 and test duration minimum of 500 hrs. is specified. After explaining that only a minimum number of two or three tests are required and that the difference between a 400 hr test and a 500 hr test is only keeping the test running for approximate 4 more days Petro agreed to again go back to NSC and discuss the situation. (Update: NSC agreed to run the tests for minimum 500 hrs. per specification)

3. GCL thickness measurements were not specified in the project specifications, therefore, it doesn't matter what method the manufacturer uses. GeoSyntec, FDF and Petro agreed.

4. A review of the shear strength test requirements and procedures (Section 02772 Part 2.01 E.) specified for the geosynthetic clay liner was performed. It was stated and agreed that the direct shear test under Manufacturing Quality Control should be performed under the same test conditions as given in Part 2.01 E. and that if the initial internal direct shear test is on a sample from a roll that is delivered and used on this project it may be used a one of the Manufacturing Quality Control tests in accordance with the given test frequency.

During the period comments on several submittals were transmitted by CDC to the appropriate Contractor. Status of these transmittals is controlled by the CCM and CDC.

Design Clarifications and Modifications

LCS

DCN Nos. 31 and 34 (We understand they have been approved) have not been received by the GeoSyntec RE. CDC has been contacted. DCN Nos. 32, 36, 37, 38, 39, 40, and 41 are still in the review and approval process. GeoSyntec currently does not have any of these DCNs in-house to review, approve or respond to comments. DCN Nos. 39 and 41 were prepared and reviewed by the GeoSyntec RE on 26 and 27 June 1997, respectively. We understand approval and distribution is eminent (Update as of 1 July 1997).

No RCIs for the LCS project have been received by the RE during the report period.

Phase 1

DCN Nos. 6, 7, 8 and 9 were prepared and approved by the GeoSyntec RE. DCN No. 10 was prepared by construction and reviewed and approved by the GeoSyntec RE during the report period.

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FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT 1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: LCS and Phase 1 Construction WEEK ENDING: 29 June 1997

WR No. ~~16~~ 17 (con't)

Phase 1 (Cont'd)

DCN Nos. 6 and 10 delt with an approval of an alternative anti-seep collar for the Sedimentation Basin. Submittal No. 12 R1 and Drawing G-00089 are related to these DCNs.

DCN No. 7 changed the wording in the submittal section of Specification Section 02770 to allow a listing of more than 10 completed facilities to meet specification requirements for the installer and manufacturer.

DCN No. 8 change the wording in Specification Section 02714 to allow the use of 18-inch Tee Pins as an alternative to sewing for the geotextile separator and geotextile filter for the Sedimentation Basin ONLY..

DCN No. 9 changed the wording of Note 2 on Drawing G-00089 to specify the use of Ohio DOT Section 304.02 crushed stone or gravel subbase material for top of the Sedimentation Basin berm. AASHTO No. 57 stone will still be used around the 8-inch perforated CMP.

No RCIs for the Phase 1 project were prepared or received by the RE during the report period.

Quality Control (QC)

QC continued construction monitoring, soil sampling and field and lab testing during the period. Work continued throughout the weekend to provide coverage of all applicable construction. Discussions of QC activities can be found in the Site Managers weekly report.

The RE together with FDF QA examined the Sedimentation Basin anti-seep collar prior to construction installation. The collar was consistent with Petros submittal and determined to be an acceptable alternative collar as indicated by DCN No. 6. To agree with the intent of the design drawings, the contractor was required to use a continuous CMP through and adjacent to the collar and clamp/seal the collar to the CMP.

Hydrostatic pressure testing was completed for one segment of the LCS piping. Tests between Station 8+05 and Station 11+20, Drawing G-00261 Rev. 1, were approved. The 4-inch carrier pipe was tested at 98 to 100 psi and the 8-inch containment pipe at 15.6 to 16.0 psi. Pipe temperatures were also recorded. The weekly RE report will report a tabulated summary of all LCS pressure testing.

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FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT 1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: LCS and Phase 1 Construction WEEK ENDING: 29 June 1997

WR No. ~~16~~ 17 1263 (con't)

Health and Safety

The safety topic at the first Phase 1 weekly construction meeting delt with heat stress and the physiological monitoring that Petro employees would be under during the up-coming work phase. An information and training session was being scheduled to discuss the program. Also at the meeting a brief summary was given of the incident that occurred at another DOE site where a grade checker was accidentally run over by a front end loader backing up. A reminder for everyone and those in-frequent visitors to the field that walking individuals are to make visible hand contact with all operators and are not to assume that the operator knows you are there until the operator motions back.

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FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT 1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 14 July 1997

~~RESIDENT ENGINEER'S WEEKLY REPORT NOS. 18 AND 19~~

The period covered by Weekly Report Nos. 18 and 19 is from 30 June 1997 through 13 July 1997. The Resident Engineers Weekly Report for the LCS and Phase 1 Construction has been combined into one weekly report. This report discusses the LCS and Phase 1 projects and in some cases the interface of these projects with the Haul Road project. Rick McGuire is the Construction Contract Manager (CCM) for the LCS project and Lou Wehlitz the CCM for the Phase 1 project. Individuals should check their cc-mail or contact the CCMs for meeting dates and times. During the period Rick McGuire has been on vacation and Lou Wehlitz and other FDF individuals have been filling in. The normal scheduled LCS weekly meeting was canceled, although some special meetings were held.

Please note that the weekly report for the period ending 29 June 1997 was inadvertently titled as Weekly Report No. 16 on each page and should be changed to Weekly Report 17 by those who received copies.

Construction Progress

The LCS contractor, (VBS), continued welding and installing 4/8 inch HDPE double containment pipe and other utility pipes during the period. VBS, assisted by Wise Construction, performed trench excavation, pipe bedding sand and trench fill placement and compaction. Work proceeded north of the K-65 Trench, east of the Biodenitrification Surge Lagoon (BSL), at the OU 4 Access Road and the Paved Access Road Crossings and the TACCO area south of the AWWT(See Master Plan Drawing G-00251).

The OU 4 road and Paved Access road crossings were completed on 1 July 97 and 12 July 97, respectively. For the time being a temporary crushed stone road surface and compacted clay road subbase was installed at both road crossings. The permanent asphalt road and subbase materials are scheduled to be installed at a later date. Just south of the OU 4 crossing Cleanout No. 9 was installed. Cleanout No. 10 and some attached piping were prepared for installation, but not installed during work period. Manhole No. 11 and Cleanout No. 12 were partially installed. However, piping connections north and south of Manhole No. 11 should not have been made until pressure testing in the carrier and containment pipes were completed. Connections made during the period will have to be cut to permit required pressure testing of the pipe or an alternate test method will need to be proposed, evaluated and approved. This pressure testing should take place as soon as small sections of pipe are installed north of the Manhole to the BSL and south of the Manhole including Cleanout No. 10. Testing could then be completed all the way to the access road crossings and to the BSL Elimination of containment pipe testing is not acceptable. This has been discussed in detail with FDF construction and engineering personnel.

Additional hydrostatic pressure testing of LCS HDPE piping was completed during the period. Results are discussed in the QC section of this report. Additional construction progress and QC summaries can be found in the QC Site Managers weekly report.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

1264

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 14 July 1997

WR Nos. 18 And 19 (cont'd)

Construction Progress cont'd

Phase 1 Construction by Petro at the Sedimentation Basin consisted of completing the major portion of the Principal Spillway, including riprap placement and earthwork construction, and riprap placement of approximately 2/3 of the Emergency Spillway. Additional small quantities of slope and berm fill placement compaction, grading, rock removal and surveying also remain. Completion of the spillways, fill placement and gravel road surface is expected next week. The Sedimentation Basin will not become operational until the inlet structures (two 48-inch dia. CMP drainage culverts) are installed beneath the old north entrance road and connected to the new temporary drainage channel. Other basin completion check list items are being discussed with FDF construction.

Petro also began major earthwork activities within and west of Cell No. 1. Topsoil, roots, unsuitable soil, field drainage tiles, and the old north entrance road were being removed. Clay excavation for berm structural fill and for clay liner material also began. Berm subgrade proofrolling and a very small amount of berm placement was started. Continuation of this work and cell excavation is scheduled to continue during the next period.

Construction Submittal Review

Construction submittals are controlled by Construction Document Control (CDC) and the FDF CCM. Each CCM has designated a project coordinator for comments. In this report submittals will be referred to by the project submittal number and item description. After review, submittal status or action is reported by assigning a letter code A, B, C or D. These codes refer to the following actions:

A - Conforms with Requirements (CFC)
B - Minor Comments- Proceed, but resubmit action to comments
C - Revise and resubmit
D - For information/Record Documents: CFC

During the period the following submittals for the respective projects were reviewed by the Resident Engineer (RE) and comments returned and reviewed with the project coordinator. Comments are also reviewed with the Project Engineer and QA as may be required for thorough understanding.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

1264

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GO0166 TASK NO. 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 14 July 1997

WR Nos. 18 And 19 (cont'd)

Submittal No.	Item Description	RE Disposition	Recommended Status
LCS			
10R5 &10R6	Safe Work Plan	No Comment	A, Added Sections FDF Detailed Review.
67R7 thru 67R10	Equip. Listing (pumps, generators, etc.)	No Comment	A, Generally Issued for Information.
85R1	Work Area Plan	No Comment	A, Plan Update
90R3	Air Testing Utility Pipe	Review by Others	NA
Phase 1			
31	Panel Layout Drawing	Comments	C, Comments Provided on Drawing
26R2	Erosion Control Data High Impact Excelsior Mat	No Comment	A
27R2	Material Certification Silt Fence SF180	No Comment	A
32R1	Gravity Inlet Structure Shop Drawing	Comment, Anti-Vortex Opening at 30 not 30"	B, May be Upgrade A if Vendor Clarifies
42	Type C Riprap Cert.	No Comment	A
41	Four Week Schedule	No Comment	Issued for Information

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1264

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 14 July 1997

WR Nos. 18 and 19 (cont'd)

13R2	Construction Schedule	No Comment	Issued for Information
30R1	Bar Schedule/Concrete Mix Expansion Joint Filler	No Comment	A
36R1	List of Equipment for Trenching/Backfilling,	Comments	A with Comments
	Embedment Fill Source,	Comments	B, Powell Sand & Gravel
	& 50-lb Sample	Comments	C, Unacceptable-See 36R2
36R2	Embedment Fill Grainsize Test Results	Comments Wrong Sieves Used	C, Results Presented Give False "Pass" Interpretation
37R2	Material Certification CMP Shipped 30 June 97	Comments	B, Base Metal Pipe Thickness And Hugger Band Width Needs To Be Included.
43	Granular Drainage Material 78s, Source, Test Results & 50-lb Sample	Comments	A With Comments Pending Approval of DCN No. 1702-015 and GeoSyntec Perm. and Carbonate Content Tests. (Expected 15 July 97)
44	Granular Drainage Material No. 57s, Source	Comments	On HOLD with RE Until Contractor Test Results Submitted and RE Evaluation Completed.

During the period comments on several submittals were transmitted by CDC to the appropriate Contractor. Status of these transmittals is controlled by the CCM and CDC.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GO0166 TASK NO.: 3.1

DESCRIPTION: LCS and Phase 1 Construction WEEK ENDING: 14 July 1997

WR Nos. 18 and 19 (cont'd)

Design Clarifications and Modifications

LCS

DCN No. 30 was received with Parsons approval as noted. The DCN was for the use of fiberglass insulation with waterproof cement grout as a casing seals in lieu of link seals for utility pipes installed through bored casings. The LCS duel containment pipe will remain sealed using link seals as specified.

DCN No. 31 was received with Parsons approval as noted. The DCN was for alignment and utility stubout details and changes for pipes between approximate stations 9+05 and 13+50, Drawing No. 92X-5900-G-00266 . Drawing No. 18A-1920-P-0031 is also affected. Alignment details will be recorded "as-built" which is slightly different than recommended in the DCN.

DCN Nos. 32, 36, 37, 38 and 40 have not been received by this RE. It is believed these DCNs are not directly related to the LCS pipe, except for possible alignment modifications.

DCN No. 39, prepared and approved by GeoSyntec, modified the specified grainsize specification for Manhole Embedment Fill by changing the percent passing for the No. 4 sieve to 20% to 65 %. LCS Specification Section 02215, Part 2.01.B, was affected. The controlled copy was received from CDC.

DCN No. 41, prepared and approved by GeoSyntec, provided backfill requirements for cleanouts for the pressure line and temporary cleanouts for the gravity line. Specification Section 02215, Part 3.03 was affected.

RCI No. 1700-029R clarified that pressure testing for the containment and carrier pipes for the cleanout piping will be required, as specified. The request from VBS and their cleanout fabricator, ISCO, to not test the cleanout piping was unacceptable.

Phase 1

DCN Nos. 11, 12, 13, 14 and 15 were prepared and approved by the GeoSyntec RE. DCN No. 11, approved as noted by GeoSyntec, allowed the use of tailgate spreading of stone over separator fabric, pinned as specified in DCN No. 14, for the Sedimentation Basin and Access Corridor ONLY. Approval conditions were specified and a controlled copy of this DCN has not been received by the RE.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

1264

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 31

DESCRIPTION: LCS and Phase 1 Construction WEEK ENDING: 14 July 1997

WR No. 18 and 19 (cont'd)

Phase 1 con't

DCN No. 12 , prepared and approved by GeoSyntec, extended the Principal Spillway riprap channel to the existing ditch. This was required because the Sedimentation Basin was moved approximately 25 feet east. Drawing G-0089 and Submittal No. 20 were affected.

DCN No. 13, prepared and approved by GeoSyntec, allowed the use of 12-inch wide Hugger Bands for CMP pipe delivered to the site. Pipe delivered would not accommodate wider bands. Drawing G-0089 was affected.

DCN No. 14, prepared and approved by GeoSyntec, replaced DCN No. 8, and clarified the approved use of tee pins for geotextile separator and filter. Use on the Cell Access Road will NOT be allowed. Specification Section 02714, Part 3.02, was affected.

DCN No. 15, prepared and approved by GeoSyntec, modified the gradation requirement for the granular drainage material for the LCS/LDS drainage layers and the protective cover at the Impacted Runoff Catchment Area. The percent passing for the 1/2 inch sieve was changed to 85% to 100%. Specification Section 02710, Part 2.01.B was affected.

Controlled copies of DCN Nos. 11 through 15 have not yet been received by this RE.

RCI No. 1702-001R was prepared by GeoSyntec during the period. This RCI provided clarification of acceptable use of specific compaction equipment by model for the Sedimentation Basin.

Quality Control (QC)

QC continued construction monitoring, soil sampling and field and lab testing during the period. Work continued throughout the weekend to provide coverage of all applicable construction and process specific lab samples for shipment offsite. Discussions of QC activities can be found in the Site Managers weekly report.

Soil material samples submitted for Phase 1 as part of the submittal process continues to be some what of a problem for the contractor. Embedment sand, drainage materials (ODOT 78s and 57s) have all initially failed grainsize specifications. These materials are being evaluated through the submittal process and QC testing. If a DCN is appropriate it is being prepared by the RE.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: LCS and Phase 1 Construction WEEK ENDING: 14 July 1997

WR No. 18 and 19 (cont'd)

The following summary table is tabulated history of the hydrostatic pressure testing of the LCS transmission line. It will be updated weekly. Pressure test logs contain detailed information on pressure and temperature readings and are on file at QC and the RE's office for review, if reader desires.

LCS Hydrostatic Pressure Summary Table

Test Date day/mo/yr	Pipe Diameter, in	Drawing No.	Station Interval	Pressure Change, psi	Pass Fail
24/06/97	4	G-00261	8+05 to 11+20	+1	Pass
27/06/97	8	G-00261	8+05 to 11+20	+0.4	Pass
01/07/97	4	G-00261	11+20 to 14+00	0	Pass
09/07/97	8	G-00261	11+20 to 14+00	0	Pass

Health and Safety

The safety topics at the Phase 1 weekly construction meetings delt with the use of sun block for exposed skin and safety in the home and around small children. These items are important to all of use as we enter the warmest and driest part of summer.

Several contractor safety items and issues have been identified and discussed in the weekly meeting. This items have been discussed the weekly construction meeting notes.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT 1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 27 July 1997

RESIDENT ENGINEER'S WEEKLY REPORT NOS. 20 AND 21

The two week period covered by Weekly Report Nos. 20 and 21 is from 14 July 1997 through 27 July 1997. The Resident Engineers Weekly Report for the LCS and Phase 1 Construction has been combined into one report. This report discusses the LCS and Phase 1 projects and in some cases the interface of these projects with the Haul Road project. Rick McGuire is the Construction Contract Manager (CCM) for the LCS project and Lou Wehlitz the CCM for the Phase 1 project. Don Goetz is a Construction Engineering Coordinator assigned to the Phase 1 project. Individuals should check their cc-mail or contact the CCMs for meeting dates and times.

Construction Progress

LCS

The LCS contractor, (VBS), continued welding and installing 4/8 inch HDPE double containment pipe and other utility pipes during the period. VBS, assisted by Wise Construction, performed trench excavation, pipe bedding sand and trench fill placement and compaction. Work proceeded north of the K-65 Trench from Cleanout No. 10 to the east side of the Biodenitrification Surge Lagoon (BSL), and at the TACCO area south of the AWWT (See Master Plan Drawing G-00251). A third area where trenching has begun is at the location of the Temporary Gravity Leachate Transmission Line (LTS) between approximate Station 33+50 and Station 35+00 (Drawing G-00059). The LTS gravity line is 10/6 inch HDPE double containment pipeline. The trench in this area is an approximate 7 ft to 10 ft vertical cut and posses trench stability safety concerns. Exactly how VBS intends to complete the pipe installation and backfilling has not been conveyed to GeoSyntec. Currently VBS does not have onsite the necessary equipment to complete LTS installation without putting men into the trench. Trench boxes are onsite, but they have not yet been used. The method of installation will be brought up at the next weekly construction meeting. HDPE 10/6 inch pipe has not been welded at this location because of welding equipment problems.

In the previous RE weekly report a discussion concerning the installation of Manhole No. 11 and pressure testing of the double containment pipe north and south of the manhole was presented. During the period piping connections to Manhole No. 11 were cut to allow for proper pressure testing of the pipe. The pressure testing was not performed during the period. However, hydrostatic testing of Manhole No. 5 (not 11) was completed. Results of hydrostatic testing of LCS pipe and manholes are presented in the QC section of this report. Additional construction progress and QC summaries can be found in the QC Site Managers weekly report.

During the 15 July 1997 LCS weekly construction meeting Rick McGuire handed out a new project schedule generated by FDF. A copy of that schedule has been attached to this report. For further discussion on schedule and other construction action items see the FDF weekly construction meeting notes.

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FLUOR DANIEL FERNALD

1264

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 31

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 27 July 1997

WR Nos. 20 And 21 (Cont'd)

Construction Progress Cont'd

During the period VBS took delivery of two semi-truck loads of 10/6 inch dual containment pipe. The first load of pipe was not palletized or properly loaded and damage occurred to the pipe during loading and off loading. The second load was loaded much better and little damage occurred during the off loading. Examination of the 10 inch containment pipe resulted in 15 lengths of pipe (29 % of the load) for the first load and 3 lengths of pipe for the second load being rejected based on damage evaluation in accordance with project specifications. There also remains certification documentation problems with some of the pipe. Opportunity to check run dates of all of the 6-inch pipe has not yet been given. VBS has also had its QC field engineer quit, and to my knowledge a qualified replacement has not yet started work or been hired. FDF is aware of these problems and has met with VBS. VBS's pipe vendor, ISCO, has also been onsite and is aware that damaged and uncertifiable pipe will be rejected.

Phase 1

Phase 1 Construction by Petro at the Sedimentation Basin consisted of completing riprap placement for the Emergency Spillway, completing installation of the principal spillway riser, performing rock picking and berm grading activities, and installing the two inlet 48-inch dia. CMP drainage culverts beneath the old north entrance road. Since the old north entrance road is still being used as a construction haul road additional soil cover has been added over top of the drainage culverts for load protection. Although construction and check list items still remain to be completed, the Sedimentation Basin is operational, if the need arises. It is currently dry.

During the previous report period Petro began major earthwork activities within, west and north of Cell No. 1. This work continued and the major portion of Cell No. 1 soil excavation was completed during the report period. To accomplish this, Petro excavated soils using two trackhoe excavators and several scrapers. Berm soil placement and compaction of structural fill also continued, generally using the scrapers and Cat 815 sheepsfoot compactors. Soil anticipated to be used for future clay liner material was placed and stockpiled at several locations within Cell No. 2 and other Contractor Stockpile Areas. Additional discussion of Phase 1 construction progress can be found in the QC Site Managers weekly report and the FDF weekly construction meeting notes. A copy of the current Phase 1 construction schedules are attached to this report.

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FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT 1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 27 July 1997

WR Nos. 20 And 21 (Cont'd)

During the report period the five gravity inlet structures (GIS) and approximately 456 feet of 18-inch diameter reinforced concrete pipe (RCP) with gaskets were delivered to the site. Examination of these deliveries by GeoSyntec is scheduled during the next report period. Petro's QC has examined these deliveries and have marked damaged areas and placed hold tags, etc.

Construction Submittal Review

Construction submittals are controlled by Construction Document Control (CDC) and the FDF CCM. Each CCM has designated a project coordinator for comments. In this report submittals will be referred to by the project submittal number and item description. After review, submittal status or action is reported by assigning a letter code A, B, C or D. These codes refer to the following actions:

A - Conforms with Requirements (CFC)
B - Minor Comments- Proceed, but resubmit action to comments
C - Revise and resubmit
D - For information/Record Documents: CFC

During the period the following submittals for the respective projects were reviewed by the Resident Engineer (RE) and comments returned and reviewed with the project coordinator. Comments are also reviewed with the Project Engineer and QA as may be required for thorough understanding.

Submittal No.	Item Description	RE Disposition	Recommended Status
LCS			
67R11	Equip. Listing (welding generator)	No Comment (Safety Check)	A, Generally Issued for Information.
86R1	Earthwork Plan	Comments	B, Protective Systems and Backfilling
87R1	Surface Water & Erosion Control	No Comment	A

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FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT 1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO. 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 27 July 1997

WR Nos. 20 And 21 (Cont'd)

115	As-Built Pole Drawing	Minor Comment	A, FDF Detailed Review
203R1	Joint Filler Sample EP Bonding Agent Rebar Shop DWG.	No Comment	A
Phase 1			
24R1	Mfr. Geomembrane/GCL Specs. & Test Procedures	No Comment (pre-review)	A
25R1	Manhole Shop DWG.	No Comment	A
	Perforated Pipe Shop Drwg	No Comment	A
	HDPE Flat Stock Specs.	No Comment	A
	PE Resin Origin	No Comment	A (R0 Comment Still Valid)
	Training Certification	Comments (Certs Expired)	B (Recert Scheduled)
47	Embedment Fill Cert.	No Comment	A
48	Submersible Pump	No Comment	A
	Check Valve	No Comment	A
	Gate Valve	No Comment	A
49	Petro Monthly Progress Report	No Comment	Issued for Information
50	RCP Storage, Handling & Installation Manual	No Comment	A,Info.From Concrete Pipe Handbook
	RCP Shop Details	No Comment (After Corrections)	A
51	RCP Certifications	No Comment (After Corrections)	A

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FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT 1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 27 July 1997

WR Nos. 20 and 21 (Cont'd)

10R2	5lb Bentonite Sample	No Comment	A
30R1	Bar Schedule/Concrete Mix Expansion Joint Filler	No Comment	A
30R2 ?	Concrete Mix Certification	No Comment	A
44	Granular Drainage Material (No. 57 Stone)	Comments	Still On HOLD with RE Until Contractor Results Submitted and RE Evaluation Completed.

? Indicates number to be verified

During the period comments on several submittals were transmitted by CDC to the appropriate Contractor. Status of these transmittals is controlled by the CCM and CDC.

Design Clarifications and Modifications

LCS

DCN No. 32 involving alignment changes was initially disapproved by Parsons. Current status is unknown to this RE.

DCN No. 33 (not mentioned in previous weekly reports) revised the hydrostatic test pressure for the LCS carrier pipe due to SDR pipe changes and made provisions for allowing pipe testing outside the trench when authorized in writing by the Construction Manager. Specification Section 02605, Part 3.07 was affected. This DCN was approved on 30 May 1997.

DCN No. 34, approved as noted by Parsons, replaced "Straw Barrier Detail " with silt fencing and replaced the "Typical Check Dam Detail" with a modified detail from the Ohio Rainwater and Land Development Standard. Drawings G-00254, G-00257, G-00261, G-00262 and G-00266 were affected.

DCN No. 36, approved as noted by Parsons, provided changes for the steel pipe casing under the K65 Trench. Drawings G-00257 and G-00259 were affected. The DCN was received by this RE on 16 July 1997.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: LCS and Phase 1 Construction WEEK ENDING: 27 July 1997

WR Nos. 20 and 21 (Cont'd)

DCN No. 37, approved by FDF, deleted the 480-volt service from Bld. 77 to the OSDF Trailer Area. Drawings E-00500 and E-00502 were affected. The DCN was received by this RE on 16 July 1997.

DCN No. 38, approved by Parsons, revised warning tape installation details. Drawing G-00257 and Specification Section 02667 were affected. The DCN was received by this RE on 16 July 1997.

DCN No. 40, approved as noted by Parsons, revised the LCS alignment to avoid a fire hydrant and utility pole near Station 8+00, Drawing G-00266. The DCN was received by this RE on 21 July 1997.

DCN No. 42, approved as noted by Parsons, provided requirements for testing the gas line (FG) piping. Specification, Section 02667 Part 3.4 was affected. The DCN was received by this RE on 24 July 1997.

DCN No. 43, approved as noted by GeoSyntec, allowed manholes to be hydrostatically tested prior to backfill and installation when authorized by the Construction Manager. The DCN controlled copy was received by this RE on 21 July 1997.

DCN No. 44, prepared and approved by GeoSyntec, simplified the backfill requirements for Cleanout Manholes Nos. 1,4,5, and 11. This DCN is still in the approval process.

DCN No. 45, approved as noted by GeoSyntec, revised the alignment of the Temporary LTS line to avoid existing fencing, allow for more room along Sedimentation Basin soil stockpile and east side, and provide routing in front of Sedimentation Basin inlet CMPs rather than beneath them. Drawings G-00058 and G-00059 are affected. This DCN was approved on 25 July 1997.

DCN No. 45, requested contractor compensation for use of Armaflex Blanket to help keep pipe from heating up in the sun. Designer approval is not required, however, the DCN was approved as noted by GeoSyntec stating that QC will monitor pipe temperature rather than ambient temperature when the blanket is used.

RCI No. 027R clarified flange diameter typo (4-inch instead of 6-inch) on sketch SK-20110-005, DCN No. 014.

RCI No. 030R requested clarification of thrust block locations along the LCS pressure line. Response to be made by Parsons. Request made by GeoSyntec on 25 July 1997.

COPY TO: MJH, RAH, HAK, JCL, WAZ, RLM, MWG, GKL, JFM, KWC PER: D.G.Bodine

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: LCS and Phase 1 Construction WEEK ENDING: 27 July 1997

WR No. 20 and 21 (Cont'd)

Phase 1

Controlled copies of DCN Nos. 11 through 14 were received by this RE on 21 July 1997. DCN No. 15 has not yet been received. These DCNs were discussed in the previous weekly report.

DCN No. 16, prepared by FDF, relates to layout changes for the Decontamination Facility. This RE has not yet received this DCN for review.

DCN No. 17 was prepared and approved by GeoSyntec and made changes to the specification for the Decon Facility sump pump and check valve. Specification Section 13000, Parts 2.01 and 2.02 were affected. This RE has not yet received a controlled copy.

DCN No. 18 was prepared by Petro and requested approval to use soil stabilizer Model RACO 550 in lieu of Model RACO 250 specified. This DCN was reviewed and approved, noting that the Model 550 is essentially a more powerful, 4-wheel drive, air conditioned stabilizer with a slight larger range of options, made by the same manufacturer. Therefore, the Model 550 was judged functionally equivalent to the Model 250 and remains in accordance with project specifications and design criteria. This RE has not yet received a controlled copy.

DCN No. 19, prepared and approved by GeoSyntec, changed specifications for allowable rock particle size from 3-inch to 5-inch for nominal 8-inch loose lifts and to 3-inches or smaller, as directed, for nominal 4-inch loose lifts. Specification 02200, Part 2.01.B and 3.08.B were affected. Note that the clay liner specification section is NOT affected. This RE has not yet received a controlled copy.

Quality Control (QC)

QC continued construction monitoring, soil sampling and field and lab testing during the period. Work continued throughout the weekend to provide coverage of all applicable construction and process specific lab samples for shipment offsite. Discussions of QC activities and a summary of selected laboratory testing can be found in the Site Managers weekly report.

Quality certification and damage free delivery of LCS pipe was discussed in the construction section of this report. This has been very disturbing to GeoSyntec and FDF that these activities have occurred at this point in the project. The contractor needs to provide quality direction to his vendors and reject deliveries if need be or future pipe will again be rejected if found to be damaged as defined by the project specification.

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WR No. 20 and 21 (Cont'd)

The following summary table is tabulated history of the hydrostatic pressure testing of the LCS transmission line. It will be updated weekly. Pressure test logs contain detailed information on pressure and temperature readings and are on file at QC and the RE's office for review, if reader desires.

LCS Hydrostatic Pressure Summary Table

Test Date day/mo/yr	Pipe Diameter, in	Drawing No. (s)	Station Interval	Pressure Change, psi	Pass Fail
24/06/97	4	G-00261	8+05 to 11+20	+1	Pass
27/06/97	8	G-00261	8+05 to 11+20	+0.4	Pass
01/07/97	4	G-00261	11+20 to 14+00 *	0	Pass
09/07/97	8	G-00261	11+20 to 14+00 *	0	Pass
16/07/97	4	G-00261, G-00266	14+10 to 02+30 **	-1	Pass
17/07/97	8	G-00261, G-00266	14+10 to 02+30 **	0	Pass
23/07/97	Manhole 5	G-00261	Approx 8+05 ***	0	Pass

* Actual end point station when pipe placed in trench is approximately Station 14+06. This table will be updated when field pressure test log is revised.

** Stations were preliminary and approximate because test was outside of trench. Intrench stations will be verified and corrected as necessary after pipe is installed. Starting station will be 14+06. However, since the pipe was damaged by contractor after testing actual end station will be much shorter.

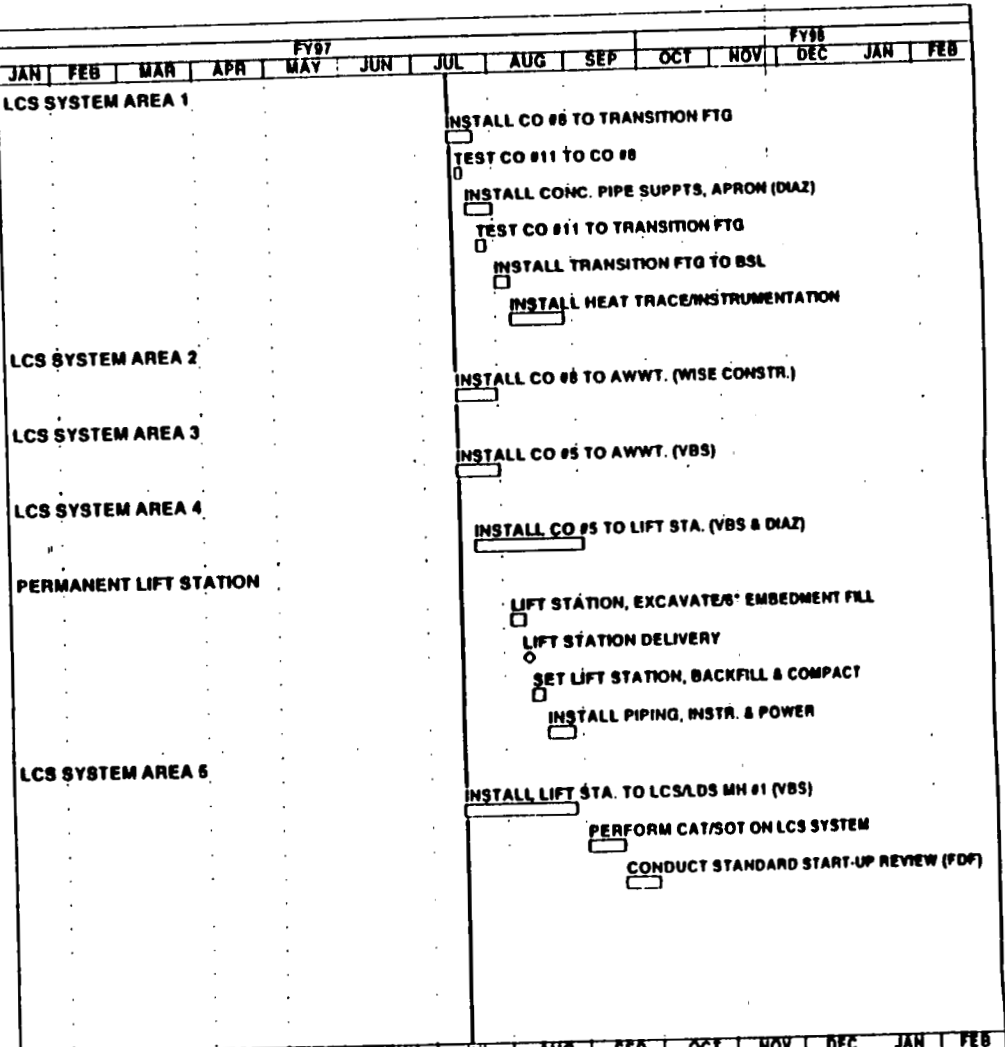
*** Tested outside of trench adjacent to installed location.

Health and Safety

Two of the safety topics discussed at the 21 July 1997 Phase 1 weekly construction meetings delt with the response of workers during severe weather and lightning conditions and not having vehicles parked with engines running over grass areas, especially trucks with catalytic converters..

Several other contractor safety items and issues were identified and discussed in the weekly meeting. These items are discussed the weekly construction meeting notes.

ACTIVITY ID	ACTIVITY DESCRIPTION	EARLY START	EARLY FINISH	REM DUR
2AN7V3001	INSTALL CO #8 TO TRANSITION FTG	14JUL97A	24JUL97	8
2AN7V2095	TEST CO #11 TO CO #8	17JUL97	19JUL97	3
2AN7V3010	INSTALL CONC. PIPE SUPPTS, APRON (DIAZ)	21JUL97	31JUL97	9
2AN7V3005	TEST CO #11 TO TRANSITION FTG	25JUL97	26JUL97	2
2AN7V3015	INSTALL TRANSITION FTG TO BSL	1AUG97	6AUG97	4
2AN7V3020	INSTALL HEAT TRACE/INSTRUMENTATION	7AUG97	28AUG97	16
2AN7V2005	INSTALL CO #8 TO @WWT. (WISE CONSTR.)	15JUL97	31JUL97	13
2AN7V2010	INSTALL CO #5 TO AWWT. (VBS)	14JUL97A	31JUL97	13
2AN7V4001	INSTALL CO #5 TO LIFT STA. (VBS & DIAZ)	21JUL97	2SEP97	31
2AN7V4005	LIFT STATION, EXCAVATE/6" EMBEDMENT FILL	4AUG97	9AUG97	6
2AN7V4010	LIFT STATION DELIVERY	11AUG97		0
2AN7V4015	SET LIFT STATION, BACKFILL & COMPACT	12AUG97	16AUG97	5
2AN7V4020	INSTALL PIPING, INSTR. & POWER	18AUG97	28AUG97	9
2AN7V5005	INSTALL LIFT STA. TO LCS/LDS MH #1 (VBS)	14JUL97A	26AUG97	33
2AN7V5010	PERFORM CAT/SOT ON LCS SYSTEM	2SEP97	16SEP97	11
2AN7FDF215	CONDUCT STANDARD START-UP REVIEW (FDF)	17SEP97	30SEP97	10



Plot Date 15JUL97
Data Date 15JUL97
Project Start 1JAN90
Project Finish 31JAN98

Activity Bar/Early Dates
Critical Activity
Progress Bar
Milestone/Flag Activity

VILL

FLUOR DANIEL FERNALD
OSDF PROJECT
REVISED LEACHATE SYSTEM SCHEDULE

Sheet 1 of 1

INTEGRATED SCHEDULE

Date	Revision	Checked	Approved

(c) Primavera Systems, Inc.

SUBCONTRACT NO.: FSC 597
SUBCONTRACT TITLE: OSDF Phase I
SUBCONTRACTOR: Petro Environmental Technologies, Inc.
21-Jul-97

FOUR WEEK SCHEDULE

MONTH July/Auust YEAR 19 97

ACTIVITY NUMBER	ACTIVITY DESCRIPTION	FOREMAN	WEEK	LAST WEEK						THIS WEEK						NEXT WEEK						SECOND WEEK						REMARKS
			DATE		7/14	7/15	7/16	7/17	7/18		7/21	7/22	7/23	7/24	7/25		7/28	7/29	7/30	7/31	8/1		8/4	8/5	8/6	8/7	8/8	
			DAY		M	T	W	T	F		M	T	W	T	F		M		W	T	F		M	T	W	T	F	
2040	Extend Utilities	1	SCH. BAR																									
			CRAFT QTY.		3	3	3	3	3		3	3	3	3	3													
3010	Construct Sediment Basin	1	SCH. BAR																									
			CRAFT QTY.		3	3	3	3	3		2	2	2	2														
3030	Clearing, Grubbing & Strippin	1	SCH. BAR																									
			CRAFT QTY.		6	6	7																					
3070	Channels Berms	2	SCH. BAR																									
			CRAFT QTY.		5	5	5	5	5		7	7	7	7	7	7	7	7	7	7	7		7	7	5	5	5	
5000	Excavate Cell #1	2	SCH. BAR																									
			CRAFT QTY.		5	5	5	10	10		12	12	12	12	12	12	12	2	2	2	2		2	2	2	2	2	
3090	Construct Access Roads	2	SCH. BAR																									
			CRAFT QTY.																						2	2	2	
7000	Clay Liner	2	SCH. BAR																									
			CRAFT QTY.															15	15	15	15		15	15	15	15	15	
5010	Horizontal Monitoring Well		SCH. BAR																									
			CRAFT QTY.														3	3	3									
			SCH. BAR																									
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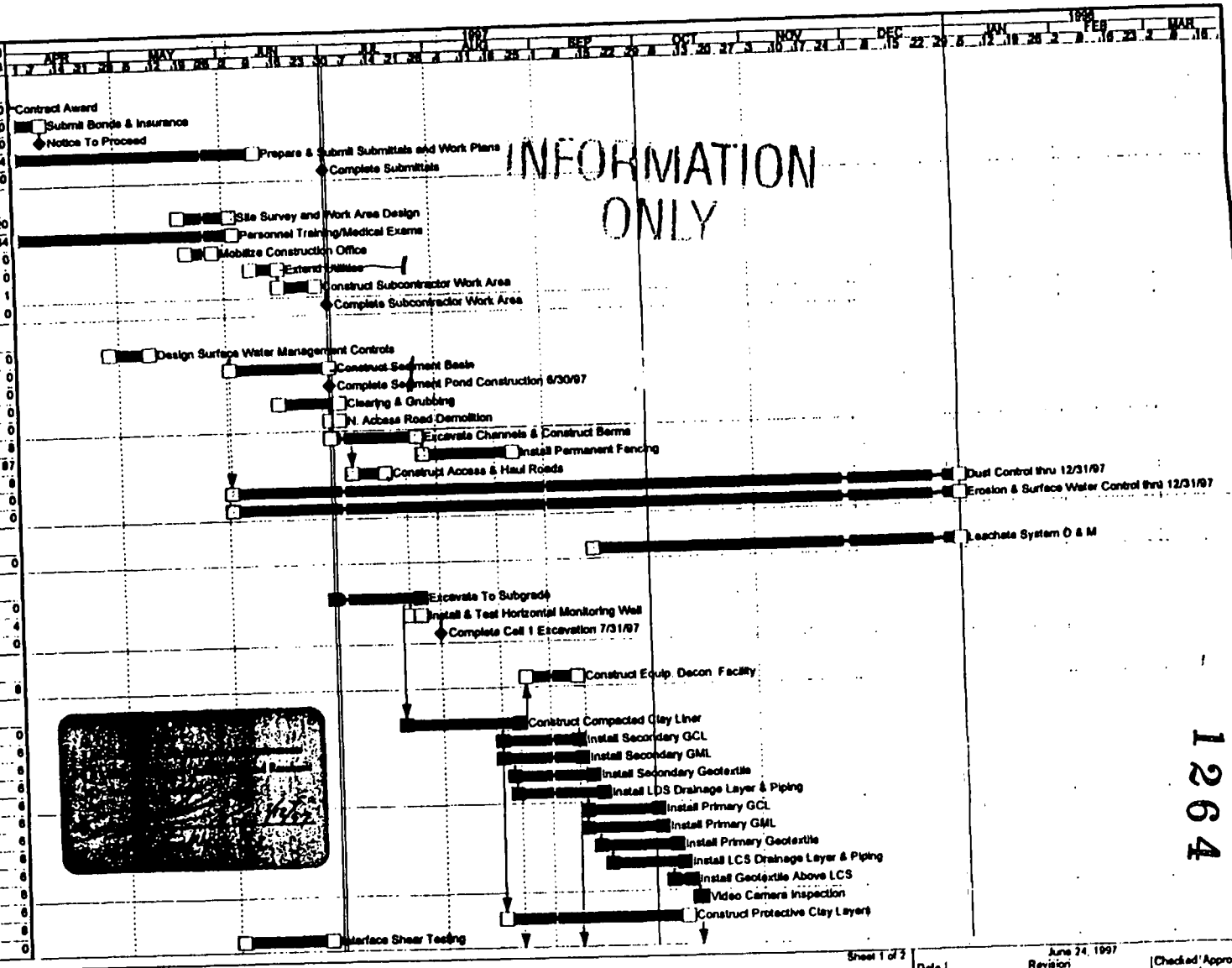
000080

1264

Activity ID	Activity Description	Orig Dur	%	Early Start	Late Start	Early Finish	Late Finish	Total Float
PREMOBILIZATION								
1000	Contract Award	0	0	01APR	01APR97			0
1010	Submit Bonds &	7	0	01APR	01APR97	09APR	09APR9	0
1020	Notice To Proceed	0	0	10APR	10APR97			0
1030	Prepare & Submit	50	0	01APR	21APR97	10JUN	30JUN9	14
1040	Complete Submittals	0	0			30JUN	30JUN9	0
MOBILIZATION								
2010	Site Survey and Work	10	0	19MAY	17JUN97	02JUN	30JUN9	20
2020	Personnel	45	0	01APR	23OCT97	03JUN	31DEC9	144
2030	Mobilize Construction	5	0	21MAY	21MAY97	28MAY	28MAY9	0
2040	Extend Utilities	8	0	09JUN	09JUN97	18JUN	18JUN9	0
2050	Construct Subcontractor	8	0	17JUN	18JUN97	27JUN	30JUN9	1
2060	Complete Subcontractor	0	0			30JUN	30JUN9	0
SITE PREPARATION								
3000	Design Surface Water	10	0	28APR	28APR97	09MAY	09MAY9	0
3010	Construct Sediment Basin	21	0	02JUN	02JUN97	30JUN	30JUN9	0
3020	Complete Sediment Pond	0	0			30JUN	30JUN9	0
3030	Clearing & Grubbing	14	0	16JUN	16JUN97	03JUL9	03JUL97	0
3040	N. Access Road	3	0	01JUL9	01JUL97	03JUL9	03JUL97	0
3070	Excavate Channels &	18	0	01JUL9	14JUL97	25JUL9	08AUG9	8
3080	Install Permanent Fencing	20	0	28JUL9	01DEC97	22AUG	31DEC9	87
3090	Construct Access & Haul	8	0	07JUL9	17JUL97	18JUL9	28JUL97	8
3100	Dust Control thru 12/31/97	146	0	02JUN	02JUN97	31DEC	31DEC9	0
3110	Erosion & Surface Water	146	0	02JUN	02JUN97	31DEC	31DEC9	0
LEACHATE SYSTEM								
4000	Leachate System O & M	73	0	15SEP	15SEP97	31DEC	31DEC9	0
CELL 1								
5000	Excavate To Subgrade	18	0	01JUL9	01JUL97	25JUL9	25JUL97	0
5010	Install & Test Horizontal	3	0	23JUL9	28JUL97	25JUL9	31JUL97	4
5020	Complete Cell 1	0	0			31JUL9	31JUL97	0
EQUIP. DECON. FACILITY								
6000	Construct Equip. Decon.	10	0	25AUG	05SEP97	08SEP	18SEP9	8
CELL 1 LINER CONSTRUCTION								
7000	Construct Compacted	25	0	21JUL9	21JUL97	22AUG	22AUG9	0
7010	Install Secondary GCL	15	0	18AUG	28AUG97	08SEP	18SEP9	8
7020	Install Secondary GML	16	0	18AUG	28AUG97	09SEP	17SEP9	8
7030	Install Secondary	16	0	21AUG	28AUG97	12SEP	22SEP9	8
7040	Install LDS Drainage	16	0	22AUG	02SEP97	15SEP	23SEP9	8
7050	Install Primary GCL	15	0	11SEP	18SEP97	01OCT	09OCT9	8
7060	Install Primary GML	16	0	11SEP	19SEP97	02OCT	10OCT9	8
7070	Install Primary Geotextile	16	0	15SEP	23SEP97	06OCT	14OCT9	8
7080	Install LCS Drainage	15	0	16SEP	26SEP97	06OCT	16OCT9	8
7090	Install Geotextile Above	5	0	06OCT	14OCT97	10OCT	20OCT9	8
7100	Video Camera Inspection	1	0	13OCT	21OCT97	13OCT	21OCT9	8
7110	Construct Protective Clay	38	0	16AUG	28AUG97	09OCT	21OCT9	8
7120	Interface Shear Testing	20	0	02JUN	02JUN97	27JUN	27JUN9	0



INFORMATION ONLY

1264

Project Start 01APR97
Project Finish 18DEC97
Data Date 01APR97
Run Date 25JUN97

Early Bar
Progress Bar
Critical Activity

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Sheet 1 of 3

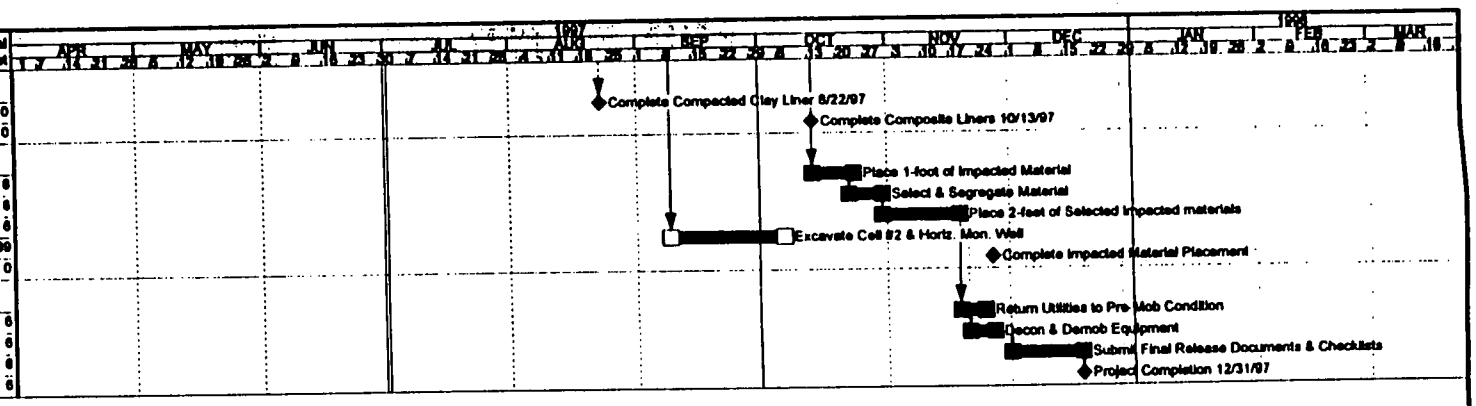
June 24, 1997

Date | Revision | Checked | Approved

PETRO ENVIRONMENTAL TECHNOLOGIES
ON SITE DISPOSAL FACILITY-PHASE I
Construction Schedule

000081

Activity ID	Activity Description	Orig Dur	%	Early Start	Late Start	Early Finish	Late Finish	Total Float
CELL 1 LINER CONSTRUCTION								
7130	Complete Compacted	0	0			22AUG	22AUG9	0
7140	Complete Composite	0	0			13OCT	13OCT9	0
OPTIONS 1, 2B & 3								
8000	Place 1-foot of Impacted	8	0	14OCT	22OCT97	23OCT	31OCT9	6
8010	Select & Segregate	6	0	23OCT	31OCT97	30OCT	07NOV9	6
8020	Place 2-feet of Selected	13	0	31OCT	10NOV97	18NOV	26NOV9	6
8030	Excavate Cell #2 & Hortz.	20	0	09SEP	03NOV97	06OCT	02DEC9	39
8040	Complete Impacted	0	0			26NOV	26NOV9	0
DEMOBILIZATION								
9000	Return Utilities to Pre-Mob	4	0	19NOV	01DEC97	24NOV	04DEC9	6
9010	Decon & Demob	4	0	21NOV	03DEC97	26NOV	06DEC9	6
9020	Submit Final Release	14	0	01DEC	09DEC97	18DEC	31DEC9	6
9030	Project Completion	0	0			18DEC	31DEC9	6



1264

Project Start	01APR97
Project Finish	18DEC97
Data Date	01APR97
Run Date	26JUN97

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Early Bar
Progress Bar
Critical Activity

Sheet 2 of 2

PETRO ENVIRONMENTAL TECHNOLOGIES
ON SITE DISPOSAL FACILITY-PHASE I
Construction Schedule

000082

June 24, 1997

Date	Revision	Checked	Approved

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 13 Aug. 1997

RESIDENT ENGINEER'S WEEKLY REPORT NOS. 22 AND 23

The two week period covered by Weekly Report Nos. 22 and 23 is from 28 July 1997 through 10 Aug. 1997. The Resident Engineers Weekly Report for the LCS and Phase 1 Construction has been combined into one report. This report discusses the LCS and Phase 1 projects and in some cases the interface of these projects with the Haul Road project. Rick McGuire is the Construction Contract Manager (CCM) for the LCS project and Lou Wehlitz the CCM for the Phase 1 project. Don Goetz is a Construction Engineering Coordinator assigned to the Phase 1 project. Individuals should check their cc-mail or contact the CCMs for meeting dates and times.

Construction Progress

LCS

The LCS contractors, (VBS and Wise), continued welding and installing HDPE double containment pipe and during the period. VBS, began welding 10/6 inch pipe at the Remia area and Wise began welding and installing 6/4 inch pipe north of the TACCO area. The remaining LCS work is being divided up between VBS and other contractors. VBS underground LCS piping work at the TACCO area was essentially complete west of Manhole No. 5. Manhole interior and cover work has not been completed.

During pressure testing of the 8-inch pipe from Manhole No. 11 to the OU 4 road crossing a leak was detected. The leak was located approximately 80 ft west of Cleanout No. 10 at a joint location where a welded joint was previously identified as suspect. Excavation and repair did not occur during the report period and will not until the leak at the flange of the nearby utility pipe is repaired and backfilled.. Also Manhole 11 has not been gravity tested nor has it been connected to the LCS piping because pressure testing has not been completed. Results of hydrostatic testing of LCS pipe and manholes are presented in the QC section of this report. Additional LCS construction progress and QC summaries can be found in the QC Site Managers weekly report.

During the period VBS took delivery of 6 LCS/LDS Plexco fabricated manholes. Paperwork and certifications were submitted through the submittal process and reviewed. A small load of 10-inch replacement pipe was also received and examined. Certification documentation was eventually submitted and reviewed.

A copy of the most recent LCS schedule is attached.

COPY TO: MJH, RAH, UAK, JCJ, WAZ, RLM, MWG, GKJ, JFM, KWC, DKP, LKW, DBO, File PER: D.G.Bodine

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT 1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 13 Aug. 1997

WR Nos. 22 And 23 (Cont'd)

Construction Progress Cont'd

Phase 1

Phase 1 Construction by Petro at the Sedimentation Basin consisted of completing riprap placement for the outlet end of the two 48-inch culverts and completion of placement of 7-oz geotextile and road gravel on top of the berm. Hydro seeding of portions of the Sedimentation Basin also took place.

During the report period Petro completed the major portion of Cell No. 1 excavation. Portions of the subgrade was cut to grade and proofrolling activities performed. Some cell subgrade areas were not yet certified to grade per results from Petro's licensed surveyor and GeoSyntec's review of the subgrade areas still require undercutting (based on unacceptable proofrolling results). QC is monitoring subgrade preparation activities. Subgrade areas that have received survey and proffrolling acceptance have had the first lift of clay liner material placed. However, proper moisture conditioning, rock removal, and overall stabilization with the Racco 250 stabilizer, as specified, has not been adequately performed. The contractor concentrated on placing the first lift to obtain "production" and get the subgrade covered. Clay conditioning and compaction of the first lift was not completed during the report period.

Additional placement of structural fill for the cell berms continued. Also placement of Type D riprap for the north diversion ditch was inprogress for most of the period. Visual observations of the riprap indicated acceptable material and that placement procedures were satisfactory. Additional discussion of Phase 1 construction progress can be found in the QC Site Managers weekly report and the FDF weekly construction meeting notes.

During the previous report period five gravity inlet structures (GIS) and approximately 456 feet of 18-inch diameter reinforced concrete pipe (RCP) with gaskets were delivered to the site. Examination of these deliveries by GeoSyntec indicate the materials are acceptable, except that some field repair (surface spalls and chipped corners) of the GIS structures will be required in accordance with the project specifications.

During the period Petro took delivery of HDPE 80-mil textured geomembrane and HDPE 6/10-inch piping. GeoSyntec review of these materials is inprogress and is anticipated to be completed during the next report period. GeoSyntec QC did cut geomembrane samples and shipped them to the lab for CQC testing. Additional QC information may be obtained by reviewing the Site QC Managers weekly report.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

1264

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO. 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 13 Aug. 1997

WR Nos. 22 And 23 (Cont'd)

Construction Submittal Review

Construction submittals are controlled by Construction Document Control (CDC) and the FDF CCM. Each CCM has designated a project coordinator for comments. In this report submittals will be referred to by the project submittal number and item description. After review, submittal status or action is reported by assigning a letter code A, B, C or D. These codes refer to the following actions:

A - Conforms with Requirements (CFC)
B - Minor Comments- Proceed, but resubmit action to comments
C - Revise and resubmit
D - For information/Record Documents: CFC

During the period the following submittals for the respective projects were reviewed by the Resident Engineer (RE) and comments returned and reviewed with the project coordinator. Comments are also reviewed with the Project Engineer and QA as may be required for thorough understanding.

Submittal No.	Item Description	RE Disposition	Recommended Status
LCS			
60R3, 60R4, 60R5	Plexco LCS/LDS Manholes 1, 2 & 3	No Comment	A
40R3	Flow Meter Calibration	No Comment	A
10R7, 10R8, 10R9	Safe Work Plan; Road Crossing Revisions, Diaz Lifting Plan, and PLS Excavation Plan	Comment on Excavation Plan	A

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

1264

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 13 Aug. 1997

WR Nos. 22 And 23 (Cont'd)

77R7,77R8, 77R9	LCS Certs for 6 and 10 inch Pipe, & 4/8 inch pipe fittings	Minor Comment	A
74R4, 74R5	Additional Cleanout Pipe Certifications	No Comment	A
54R1	Pressure Gauge, Diaphragm Seal and Ball Valve	No Comment	A, Parsons final review
48R2	PLS Chain Link Fence	No Comment	A
67R12	HYD. Robex 210LC-3 Excavator, Stone Concrete Mixer 65CM	No Comment	A
24R3	HDPE 6/10 inch Fittings for Cleanouts, etc.	Comment on Sleeves	A with Comment
49R1	Solar Panel, Batteries & Regulator. Shop Dwgs on Panel mounting	Comments	A Solar Panel, Reg. & Bat. C Shop Dwg.
91	Manhole Test Procedure	Comments	B
202R1	Concrete Mix	No Comment	A

Phase 1

25R3	Perforation Pattern	No Comment	A
25R1	Hydrostatic Testing Procedures	No Comment	A

COPY TO: MJH, RAH, UAK, JCJ, WAZ, RLM, MWG, GKJ, JFM, KWC, REH,RMT,DKP,LRW, DBG,File PER: D.G.Bodine D. Bodine

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO. 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 13 Aug. 1997

WR Nos. 22 And 23 (Cont'd)

Phase 1 cont'd

25R4	Fabricator Training Documentation	No Comment	A
44	Source and 50 lb Sample No. 57 Stone	Comments	C, Test Data Not Submitted, Sample Failed Grainsize. Re-sample Scheduled
15R1	Riprap Type D Cert.	Comment	A with Comment on Visit to Quarry
29R1	Material Certification No. 304 Stone	No Comment	A
53 & 54	Granular Drainage Material Test Results (No. 57 Stone) & Material Certification	Comments	HOLD Until GeoSyntec Testing Complete
52 (Listed as 30 R2 in previous weekly report)	Concrete Mix Certification	No Comment	A

During the period comments on several submittals were transmitted by CDC to the appropriate Contractor. Status of these transmittals is controlled by the CCM and CDC.

Design Clarifications and Modifications

LCS

DCN No. 47, prepared by FDF and approved as noted by GeoSyntec, provided additional alignment changes for the Temporary Gravity Line. LCS Drawings G-00057, and G-00058, and Phase 1 Drawings G-00074 and G-00086 were affected.

COPY TO: MJH, RAH, UAK, JCJ, WAZ, RLM, MWG, GKJ, JFM, KWC, ~~REH, RMT, DKP, LRW, DBG File~~ PER: D.G.Bodine

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GEOSYNTEC CONSULTANTS FLE NO 1-05-WER SHEET NO ___ OF ___

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT 1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 13 Aug. 1997

WR Nos. 22 and 23 (Cont'd)

Phase 1

DCN No. 20 has not been received for review or approval by GeoSyntec.

DCN No. 21, prepared by FDF and approved as noted by GeoSyntec, incorporated portions of Contract Amendments as Design Changes. A table listing the affected documents was attached to the DCN.

DCN No. 22, prepared and approved by GeoSyntec, modified the definition and requirements for Subgrade rutting. Specification Section 02200, Part 3.07.B was affected.

DCN No. 23, prepared and approved by GeoSyntec, changed the loose lift thickness of the initial lift of clay liner material over subgrade from 8-inches to 10-inches. This was consistent with the Test Pad Program. Specification Section 02225, Part 3.03.F and Petro's Earthwork Plan were affected.

During the report period no RCI's for the LCS or Phase 1 projects were received or reviewed by the RE.

Quality Control (QC)

QC continued construction monitoring, soil sampling and field and lab testing during the period. Work continued throughout the weekend to provide coverage of all applicable construction and process specific lab samples for shipment offsite. Discussions of QC activities and a summary of selected laboratory testing can be found in the Site Managers weekly report.

QC inspection of LCS 6/10 inch HDPE piping and LCS/LDS manholes was performed during the period. Several lengths of 10-inch piping were rejected due to damage received during shipping, loading or offloading. Piping is examined according to criteria provided in the specifications. Most of the rejected piping was removed and replaced by the supplier.

The following summary table is tabulated history of the hydrostatic pressure testing of the LCS transmission line. It will be updated weekly. Pressure test logs contain detailed information on pressure and temperature readings and are on file at QC and the RE's office for review, if reader desires.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

1264

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 31

DESCRIPTION: LCS and Phase 1 Construction WEEK ENDING: 13 Aug. 1997

WR No. 22 and 23 (Cont'd)

LCS Hydrostatic Pressure Summary Table

Test Date day/mo/yr	Pipe Diameter, in	Drawing No. (s)	Station Interval	Pressure Change, psi	Pass Fail
24/06/97	4	G-00261	8+05 to 11+20	+1	Pass
27/06/97	8	G-00261	8+05 to 11+20	+0.4	Pass
01/07/97	4	G-00261	11+20 to 14+06 *	0	Pass
09/07/97	8	G-00261	11+20 to 14+06 *	0	Pass
16/07/97	4	G-00261, G-00266	14+06 to 01+70 *	-1	Pass
17/07/97	8	G-00261, G-00266	14+06 to 01+70 *	0	Pass
23/07/97	Manhole 5	G-00261	Approx 8+05	0	Pass
28/0797	4	G-00266	01+70 to 04+00	0	Pass
29/07/97	8	G-00266	01+70 to 04+00	0	Pass

* Indicates Station interval has been updated based on final installed measurements.

Four of the six LCS and LDS manholes have been gravity tested with water during the report period. Results were satisfactory and will be reported in the next weekly report.

Health and Safety

Two of the safety topics discussed at the LCS and/or Phase 1 weekly construction meetings delt with traffic safety, paying attention to new signs, and limiting the personnel visiting work areas to only those that are authorized to be there. There is a lot of construction now underway on the east side using several different contractors and there will be soon be more construction in the parking lot areas. Traffic safety, especially drivers paying attention to signs, constructions equipment, other vehicles and people on foot is a must in order to prevent accidents.

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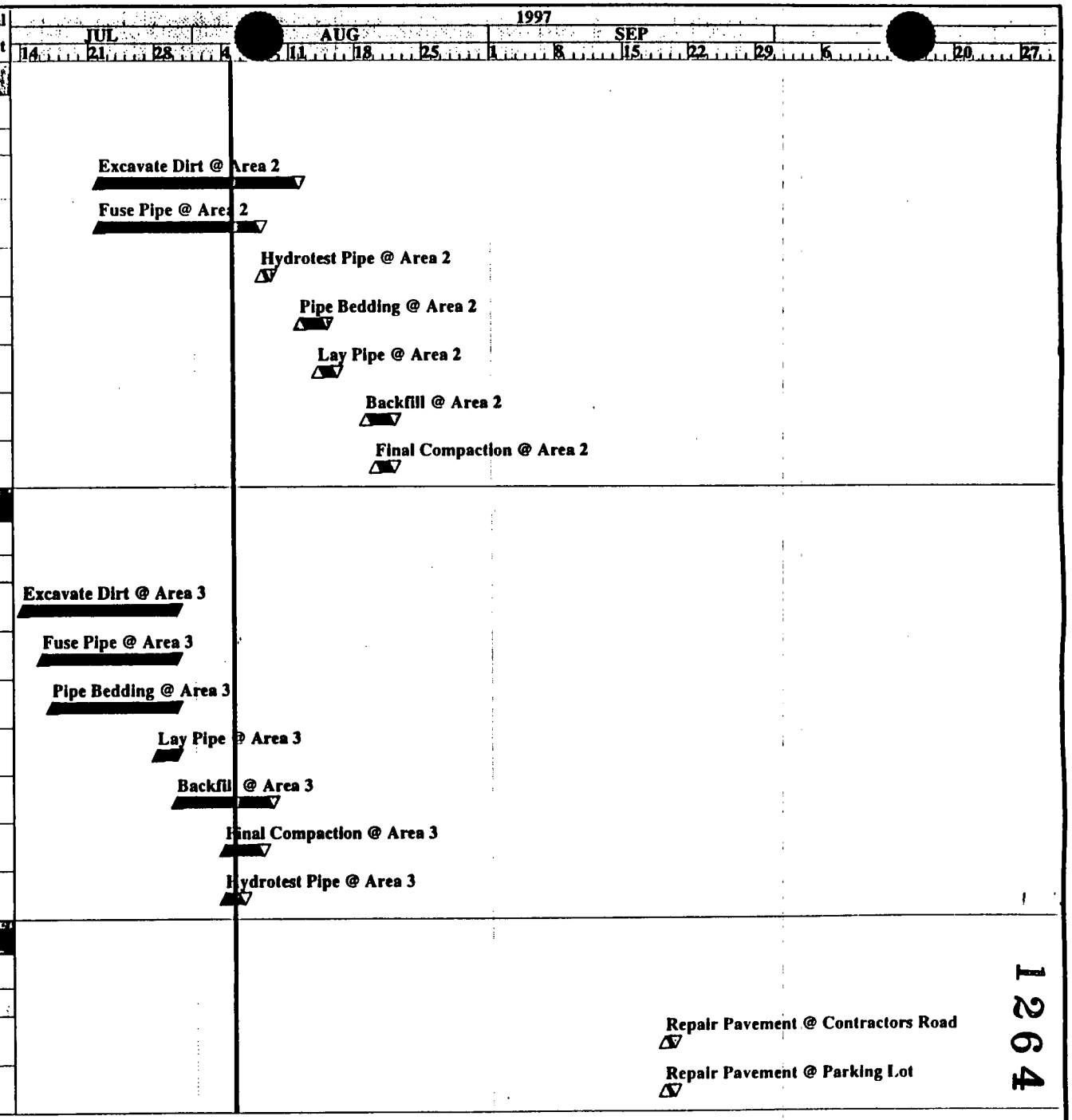
Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Total Float
LCS AREA 2					
Wise					
Area 2					
1000	Excavate Dirt @ Area 2	5	22JUL97A	11AUG97	41
1100	Fuse Pipe @ Area 2	3	22JUL97A	07AUG97	44
1110	Hydrotest Pipe @ Area 2	1	08AUG97	08AUG97	44
1120	Pipe Bedding @ Area 2	3	12AUG97	14AUG97	41
1130	Lay Pipe @ Area 2	2	14AUG97	15AUG97	41
1140	Backfill @ Area 2	3	19AUG97	21AUG97	41
1150	Final Compaction @ Area 2	2	20AUG97	21AUG97	41
LCS SYSTEM AREA 3					
Village Building Services, Inc.					
Area 3					
2000	Excavate Dirt @ Area 3	2	14JUL97A	29JUL97A	
2100	Fuse Pipe @ Area 3	1	16JUL97A	29JUL97A	
2120	Pipe Bedding @ Area 3	2	17JUL97A	29JUL97A	
2130	Lay Pipe @ Area 3	1	28JUL97A	29JUL97A	
2140	Backfill @ Area 3	4	30JUL97A	08AUG97	50
2150	Final Compaction @ Area 3	4	04AUG97A	07AUG97	51
2110	Hydrotest Pipe @ Area 3	1	04AUG97A	05AUG97	53
LCS SYSTEM AREA 4					
Barret Paving					
Area 4A - Paved Area					
0180	Repair Pavement @ Contractors Road	1	19SEP97	19SEP97	14
0270	Repair Pavement @ Parking Lot	1	19SEP97	19SEP97	14



1264

Project Start 01JUL97
Project Finish 20OCT97
Data Date 05AUG97
Plot Date 14AUG97

Early Bar
Progress Bar
Critical Activity

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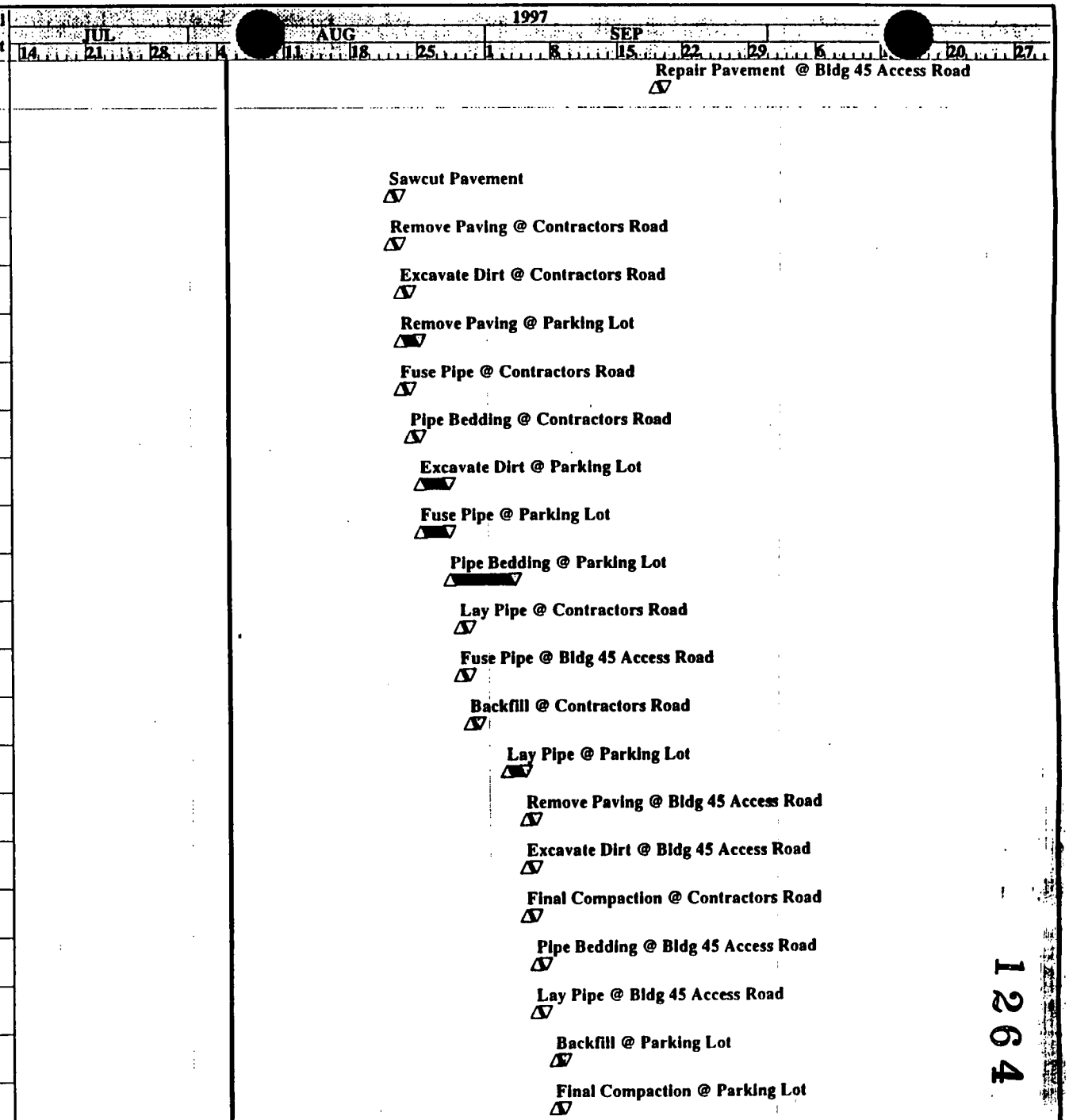
Sheet 1 of 7

FD Fernald / Dept of Energy
Leachate Conveyance System
Classic Schedule Layout

000090

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Total Float
0370	Repair Pavement @ Bldg 45 Access Road	1	19SEP97	19SEP97	14
Wise					
Area 4A - Paved Area					
0100	Sawcut Pavement	1	22AUG97*	22AUG97	14
0110	Remove Paving @ Contractors Road	1	22AUG97	22AUG97	14
0120	Excavate Dirt @ Contractors Road	1	23AUG97	23AUG97	14
0200	Remove Paving @ Parking Lot	2	23AUG97	24AUG97	14
0140	Fuse Pipe @ Contractors Road	1	23AUG97	23AUG97	15
0130	Pipe Bedding @ Contractors Road	1	24AUG97	24AUG97	14
0210	Excavate Dirt @ Parking Lot	3	25AUG97	27AUG97	19
0230	Fuse Pipe @ Parking Lot	3	25AUG97	27AUG97	21
0220	Pipe Bedding @ Parking Lot	3	28AUG97	03SEP97	19
0150	Lay Pipe @ Contractors Road	1	29AUG97	29AUG97	15
0330	Fuse Pipe @ Bldg 45 Access Road	1	29AUG97	29AUG97	18
0160	Backfill @ Contractors Road	1	30AUG97	30AUG97	15
0240	Lay Pipe @ Parking Lot	2	03SEP97	04SEP97	19
0300	Remove Paving @ Bldg 45 Access Road	1	05SEP97	05SEP97	16
0310	Excavate Dirt @ Bldg 45 Access Road	1	05SEP97	05SEP97	16
0170	Final Compaction @ Contractors Road	1	05SEP97	05SEP97	19
0320	Pipe Bedding @ Bldg 45 Access Road	1	06SEP97	06SEP97	16
0340	Lay Pipe @ Bldg 45 Access Road	1	06SEP97	06SEP97	16
0250	Backfill @ Parking Lot	1	08SEP97	08SEP97	19
0260	Final Compaction @ Parking Lot	1	08SEP97	08SEP97	19



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Project Start	01JUL97
Project Finish	20OCT97
Data Date	05AUG97
Plot Date	14AUG97

Early Bar
Progress Bar
Critical Activity

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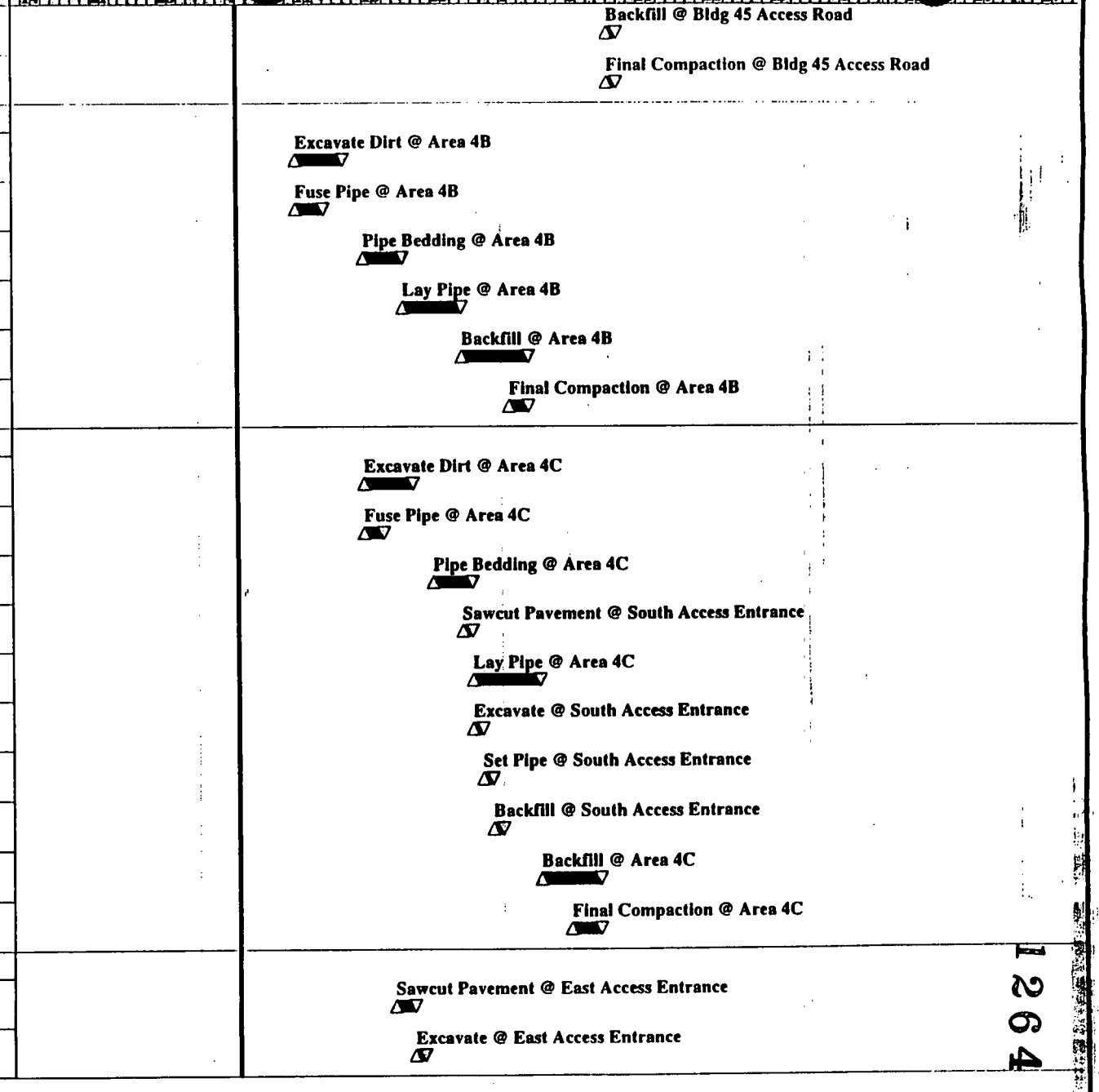
FD Fernald / Dept of Energy
Leachate Conveyance System
Classic Schedule Layout

000091

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Total Float
0350	Backfill @ Bldg 45 Access Road	1	12SEP97	12SEP97	14
0360	Final Compaction @ Bldg 45 Access Road	1	12SEP97	12SEP97	14
Area 4B - SWRB to South Entrance					
0400	Excavate Dirt @ Area 4B	5	11AUG97*	15AUG97	25
0420	Fuse Pipe @ Area 4B	3	11AUG97	13AUG97	32
0410	Pipe Bedding @ Area 4B	4	18AUG97	21AUG97	26
0430	Lay Pipe @ Area 4B	4	22AUG97	27AUG97	26
0440	Backfill @ Area 4B	4	28AUG97	03SEP97	26
0450	Final Compaction @ Area 4B	2	02SEP97	03SEP97	27
Area 4C - South Entrance to East Entrance					
0500	Excavate Dirt @ Area 4C	5	18AUG97	22AUG97	25
0520	Fuse Pipe @ Area 4C	2	18AUG97	19AUG97	32
0510	Pipe Bedding @ Area 4C	4	25AUG97	28AUG97	25
0700	Sawcut Pavement @ South Access Entrance	1	28AUG97*	28AUG97	49
0530	Lay Pipe @ Area 4C	4	29AUG97	04SEP97	25
0705	Excavate @ South Access Entrance	1	29AUG97	29AUG97	49
0715	Set Pipe @ South Access Entrance	1	30AUG97	30AUG97	49
0725	Backfill @ South Access Entrance	1	31AUG97	31AUG97	49
0540	Backfill @ Area 4C	4	05SEP97	10SEP97	25
0550	Final Compaction @ Area 4C	3	08SEP97	10SEP97	25
Area 4D - East Entrance to Lift Station					
0710	Sawcut Pavement @ East Access Entrance	2	21AUG97*	22AUG97	55
0735	Excavate @ East Access Entrance	1	23AUG97	23AUG97	55



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Project Start	01JUL97
Project Finish	20OCT97
Data Date	05AUG97
Plot Date	14AUG97

Early Bar
Progress Bar
Critical Activity

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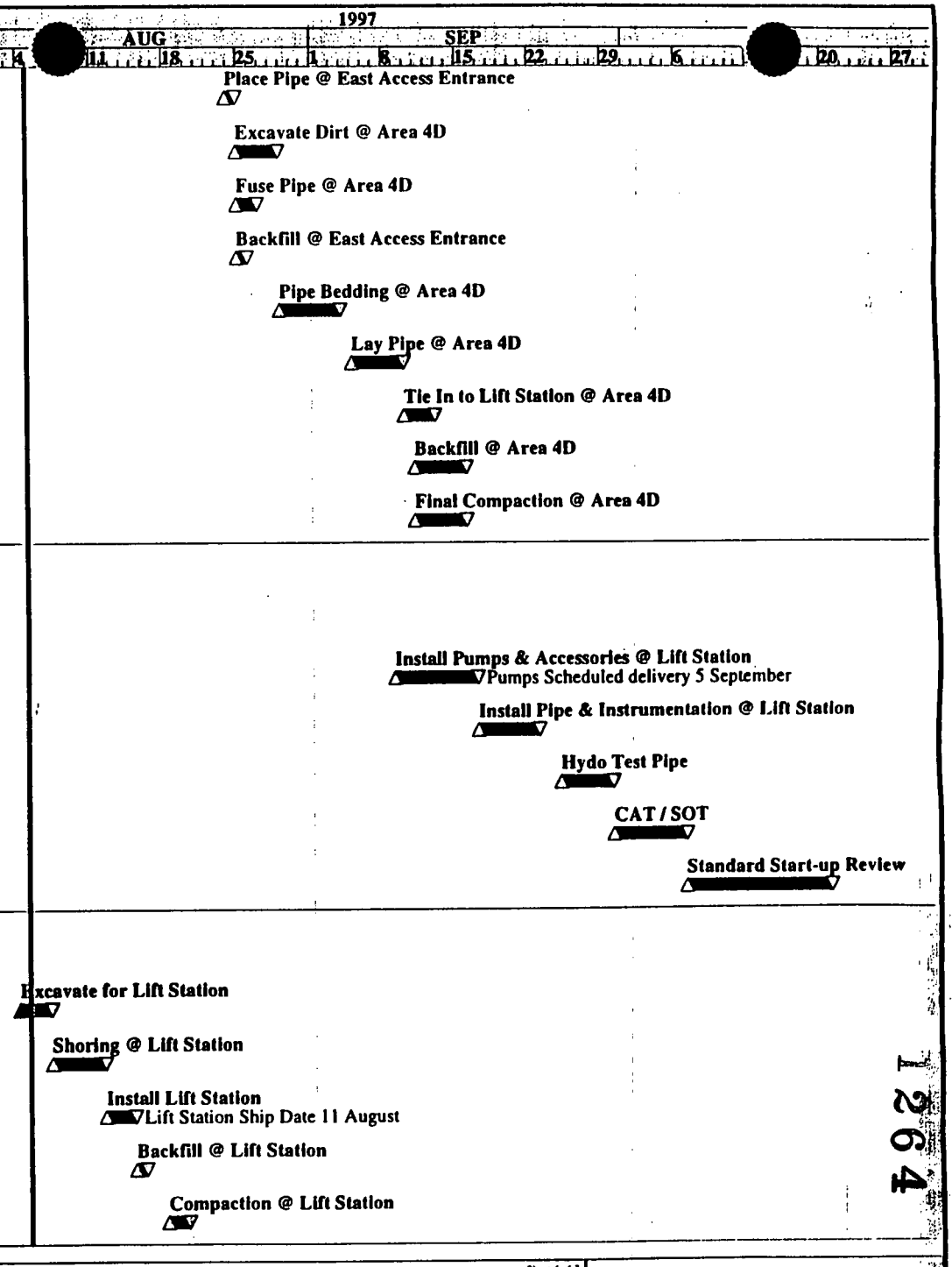
Classic Schedule Layout

000092

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Total Float
0745	Place Pipe @ East Access Entrance	1	24AUG97	24AUG97	55
0600	Excavate Dirt @ Area 4D	4	25AUG97	28AUG97	27
0620	Fuse Pipe @ Area 4D	2	25AUG97	26AUG97	32
0755	Backfill @ East Access Entrance	1	25AUG97	25AUG97	55
0610	Pipe Bedding @ Area 4D	3	29AUG97	03SEP97	27
0630	Lay Pipe @ Area 4D	3	05SEP97	09SEP97	26
0660	Tie In to Lift Station @ Area 4D	3	10SEP97	12SEP97	26
0640	Backfill @ Area 4D	3	11SEP97	15SEP97	25
0650	Final Compaction @ Area 4D	3	11SEP97	15SEP97	25
PERMANENT LIFT STATION					
Village Building Services, Inc.					
Area 5 - Permanent Lift Station					
0830	Install Pumps & Accessories @ Lift	6	09SEP97*	16SEP97	20
0840	Install Pipe & Instrumentation @ Lift	4	17SEP97	22SEP97	20
0940	Hydo Test Pipe	3	25SEP97	29SEP97	0
0950	CAT / SOT	5	30SEP97	06OCT97	0
0960	Standard Start-up Review	10	07OCT97	20OCT97	0
Diaz Construction, Inc.					
Area 5 - Permanent Lift Station					
0800	Excavate for Lift Station	3	04AUG97A	06AUG97	36
0810	Shoring @ Lift Station	3	07AUG97	11AUG97	36
0820	Install Lift Station	3	12AUG97	14AUG97	36
0850	Backfill @ Lift Station	1	15AUG97	15AUG97	42
0860	Compaction @ Lift Station	2	18AUG97	19AUG97	42



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Project Start	01JUL97	Early Bar
Project Finish	20OCT97	Progress Bar
Data Date /	05AUG97	Critical Activity
Plot Date	14AUG97	

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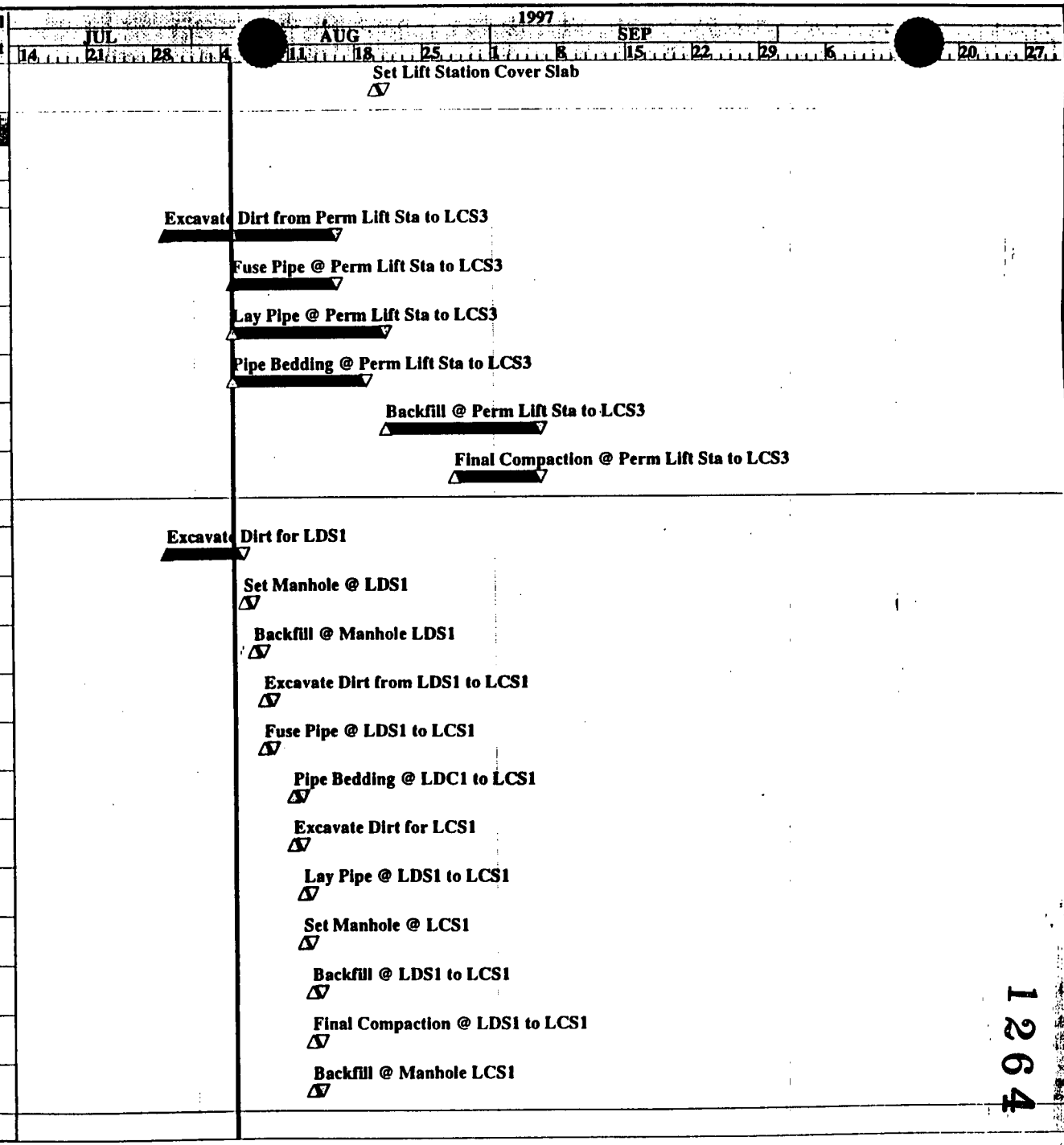
FD Fernald / Dept of Energy
Leachate Conveyance System
Classic Schedule Layout

000093

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Total Float
0870	Set Lift Station Cover Slab	1	20AUG97	20AUG97	42
LCS SYSTEM AREAS					
Village Building Services, Inc.					
Permanent Lift Station to LCS 3					
1785	Excavate Dirt from Perm Lift Sta to LCS3	8	29JUL97A	15AUG97	31
1715	Fuse Pipe @ Perm Lift Sta to LCS3	8	05AUG97A	15AUG97	45
1725	Lay Pipe @ Perm Lift Sta to LCS3	12	05AUG97	20AUG97	31
1795	Pipe Bedding @ Perm Lift Sta to LCS3	10	05AUG97	18AUG97	31
1735	Backfill @ Perm Lift Sta to LCS3	11	21AUG97	05SEP97	31
1745	Final Compaction @ Perm Lift Sta to LCS3	6	28AUG97	05SEP97	31
LDS 1 to LCS 1					
0880	Excavate Dirt for LDS1	1	29JUL97A	05AUG97	0
0990	Set Manhole @ LDS1	1	06AUG97	06AUG97	0
1010	Backfill @ Manhole LDS1	1	07AUG97	07AUG97	0
1480	Excavate Dirt from LDS1 to LCS1	1	08AUG97	08AUG97	0
0900	Fuse Pipe @ LDS1 to LCS1	1	08AUG97	08AUG97	1
0890	Pipe Bedding @ LDC1 to LCS1	1	11AUG97	11AUG97	0
0980	Excavate Dirt for LCS1	1	11AUG97	11AUG97	47
0910	Lay Pipe @ LDS1 to LCS1	1	12AUG97	12AUG97	0
1090	Set Manhole @ LCS1	1	12AUG97	12AUG97	47
0920	Backfill @ LDS1 to LCS1	1	13AUG97	13AUG97	0
0930	Final Compaction @ LDS1 to LCS1	1	13AUG97	13AUG97	0
1105	Backfill @ Manhole LCS1	1	13AUG97	13AUG97	47
LCS 1 to LCS 2					



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Project Start	01JUL97	Early Bar
Project Finish	20OCT97	Progress Bar
Data Date	05AUG97	Critical Activity
Plot Date	14AUG97	

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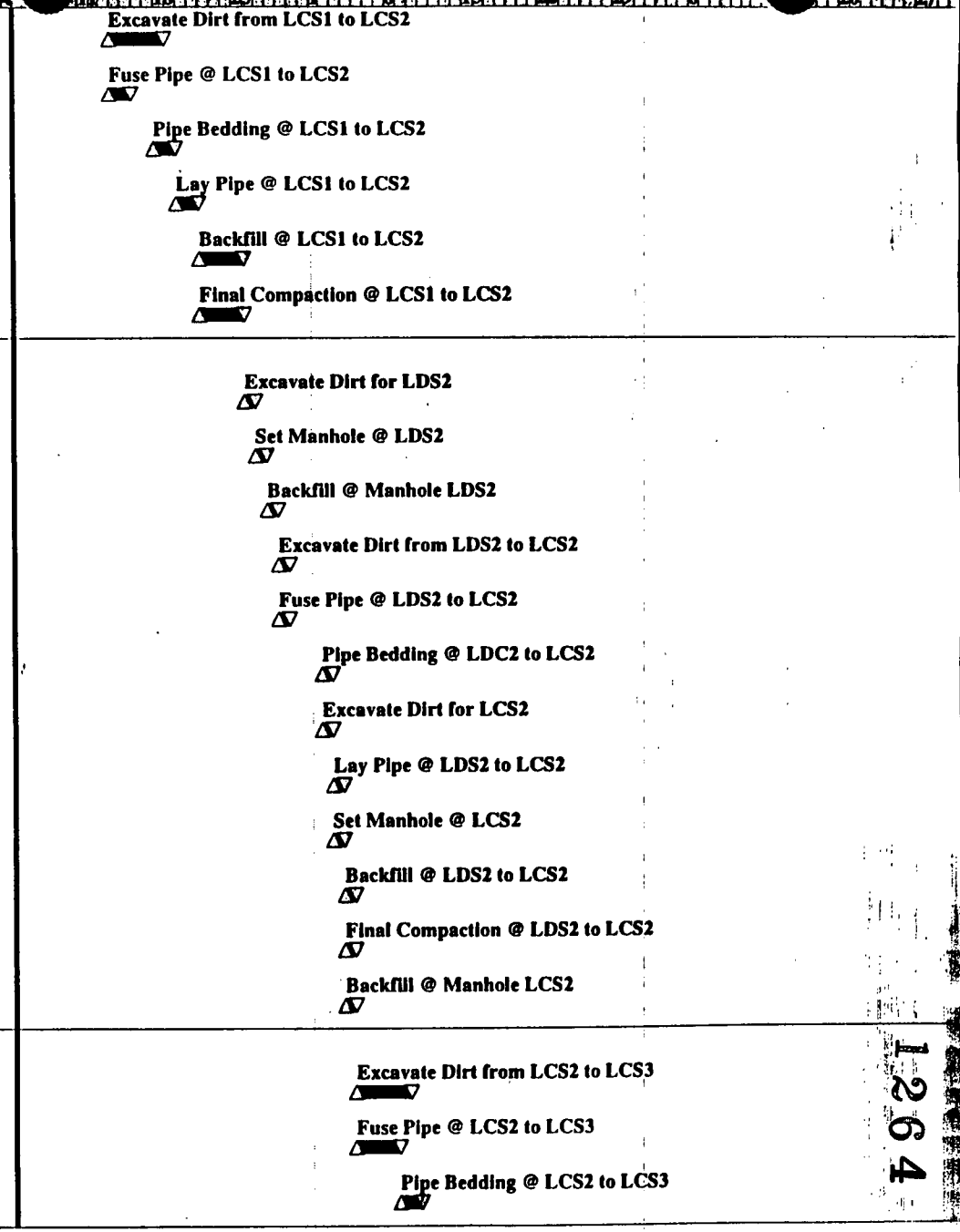
FD Fernald / Dept of Energy
Leachate Conveyance System
Classic Schedule Layout

000094

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Total Float
1585	Excavate Dirt from LCS1 to LCS2	3	14AUG97	18AUG97	0
1515	Fuse Pipe @ LCS1 to LCS2	2	14AUG97	15AUG97	45
1595	Pipe Bedding @ LCS1 to LCS2	2	18AUG97	19AUG97	0
1525	Lay Pipe @ LCS1 to LCS2	2	20AUG97	21AUG97	0
1535	Backfill @ LCS1 to LCS2	2	22AUG97	25AUG97	0
1545	Final Compaction @ LCS1 to LCS2	2	22AUG97	25AUG97	0
LDS 2 to LCS 2					
1080	Excavate Dirt for LDS2	1	26AUG97	26AUG97	0
1190	Set Manhole @ LDS2	1	27AUG97	27AUG97	0
1205	Backfill @ Manhole LDS2	1	28AUG97	28AUG97	0
1185	Excavate Dirt from LDS2 to LCS2	1	29AUG97	29AUG97	0
1005	Fuse Pipe @ LDS2 to LCS2	1	29AUG97	29AUG97	35
1195	Pipe Bedding @ LDC2 to LCS2	1	02SEP97	02SEP97	0
1180	Excavate Dirt for LCS2	1	02SEP97	02SEP97	32
1115	Lay Pipe @ LDS2 to LCS2	1	03SEP97	03SEP97	0
1290	Set Manhole @ LCS2	1	03SEP97	03SEP97	32
1125	Backfill @ LDS2 to LCS2	1	04SEP97	04SEP97	0
1135	Final Compaction @ LDS2 to LCS2	1	04SEP97	04SEP97	0
1305	Backfill @ Manhole LCS2	1	04SEP97	04SEP97	32
LCS 2 to LCS 3					
1685	Excavate Dirt from LCS2 to LCS3	3	05SEP97	09SEP97	0
1615	Fuse Pipe @ LCS2 to LCS3	2	05SEP97	08SEP97	30
1695	Pipe Bedding @ LCS2 to LCS3	2	09SEP97	10SEP97	0



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Project Start	01JUL97	Early Bar
Project Finish	20OCT97	Progress Bar
Data Date	05AUG97	Critical Activity
Plot Date	14AUG97	

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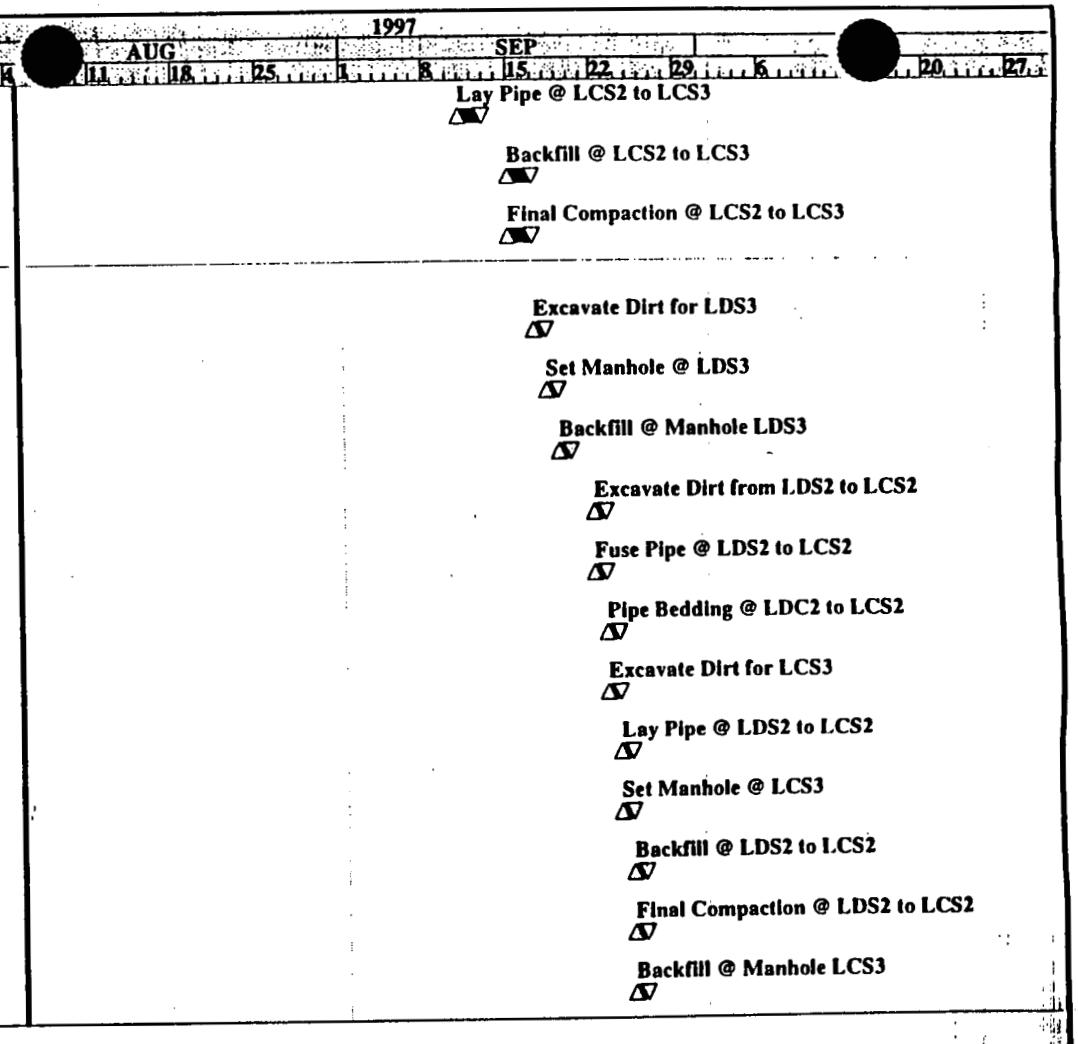
FD Fernald / Dept of Energy
Leachate Conveyance System
Classic Schedule Layout

000095

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Total Float
1625	Lay Pipe @ LCS2 to LCS3	2	11SEP97	12SEP97	0
1635	Backfill @ LCS2 to LCS3	2	15SEP97	16SEP97	0
1645	Final Compaction @ LCS2 to LCS3	2	15SEP97	16SEP97	0
LDS 3 to LCS 3					
1280	Excavate Dirt for LDS3	1	17SEP97	17SEP97	0
1390	Set Manhole @ LDS3	1	18SEP97	18SEP97	0
1405	Backfill @ Manhole LDS3	1	19SEP97	19SEP97	0
1385	Excavate Dirt from LDS2 to LCS2	1	22SEP97	22SEP97	0
1315	Fuse Pipe @ LDS2 to LCS2	1	22SEP97	22SEP97	1
1395	Pipe Bedding @ LDC2 to LCS2	1	23SEP97	23SEP97	0
1380	Excavate Dirt for LCS3	1	23SEP97	23SEP97	17
1325	Lay Pipe @ LDS2 to LCS2	1	24SEP97	24SEP97	0
1490	Set Manhole @ LCS3	1	24SEP97	24SEP97	17
1335	Backfill @ LDS2 to LCS2	1	25SEP97	25SEP97	17
1345	Final Compaction @ LDS2 to LCS2	1	25SEP97	25SEP97	17
1505	Backfill @ Manhole LCS3	1	25SEP97	25SEP97	17



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Project Start 01JUL97
Project Finish 20OCT97
Data Date 05AUG97
Plot Date 14AUG97

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Early Bar
Progress Bar
Critical Activity

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Sheet 7 of 7

FD Fernald / Dept of Energy
Leachate Conveyance System
Classic Schedule Layout

000096

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT - 1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 31 Aug. 1997

RESIDENT ENGINEER'S WEEKLY REPORT NOS. 24, 25 AND 26

The two week period covered by Weekly Report Nos. 24, 25 and 26 is from 11 Aug. 1997 through 31 Aug. 1997. The Resident Engineers Weekly Report for the LCS and Phase 1 Construction has been combined into one report. This report discusses the LCS and Phase 1 projects. Rick McGuire is the Construction Contract Manager (CCM) for the LCS project and Lou Wehlitz the CCM for the Phase 1 project. Don Goetz is a Construction Engineering Coordinator assigned to the Phase 1 project. Individuals should check their cc-mail or contact the CCMs for meeting dates and times.

Construction Progress

LCS

The LCS contractors, (VBS, Wise and Diaz), continued welding and installing HDPE double containment pipe and the Permanent Lift Station (PLS) during the period. VBS, continued welding 10/6 inch pipe at the Remia area heading north along the Sedimentation Basin. VBS also opened a sloped excavation for placement of LCS/LDS No. 1 Manholes and conducted several hydro tests of manholes and piping segments. Wise continued welding and installing 6/4 inch pipe along the AWWT area to the north road crossing. Diaz opened a stepped excavation and installed and backfilled the PLS. Heavy rainfall on Sunday, August 17, 1997, caused the PLS to float and move from its installed location. Backfill was not complete at the time and adequate uplift protection was not provided under the heavy rainfall and runoff conditions at the excavation site. The PLS was cleaned, reset in it proper location and backfilled to approximately subgrade elevation for the concrete surface slab. However, the pipe connections had not been made, therefore, some of backfill will need to be re-excavated and replaced by VBS.

Results of hydrostatic testing of LCS pipe and manholes are presented in the QC section of this report. Additional LCS construction progress and QC summaries can be found in the QC Site Managers weekly report.

Phase 1

During the report period Petro continued to work within Cell 1 preparing, proffrolling and undercutting subgrade if required. Placement, processing and compacting clay liner material continued, but at a slow pace due to poor processing and conditioning of the clay material and rainfall during the period. At the end of the period Petro began operating a second screening operation which removes most rocks and breaks up clay clods. Two operating screening operations are required to kept up with the placement production. One Racco Model 250 Soil Stabilizer is also operating, however, mixing or addition of water using the water bar has not taken place except for a trial run. Water is being added to the fill using the water wagon.

COPY TO: MJH, RAH, UAK, JCJ, WAZ, RLM, MWG, GKJ, JFM, KWC, DKP, LRW, DBG, File PER: D.G.Bodine

WR Nos. 24, 25 And 26 (Cont'd)

Construction Progress Cont'd

Phase 1 Cont'd

Rock removal operations have improved greatly, especially when the clay soil has been previously screened. Water is also being added to the clay material at the screening operation. This helps since the initial problem all along has been the clay fill had not had enough moisture to get into the "window". It is recommended that screening operations be incorporated directly into the clay liner project specification for all future cells.

Additional placement of structural fill for the cell berms and Type D riprap for the north ditch occurred intermittently during the period. Additional discussion of Phase 1 construction progress can be found in the QC Site Managers weekly report and the FDF weekly construction meeting notes.

During the period Petro took delivery of GCL and Geotextile for use as cushion material for the geomembrane. GeoSyntec QC cut GCL and Geotextile samples and shipped them to the lab for CQC testing. Additional QC information may be obtained by reviewing the Site QC Managers weekly report.

Construction Submittal Review

Construction submittals are controlled by Construction Document Control (CDC) and the FDF CCM. Each CCM has designated a project coordinator for comments. In this report submittals will be referred to by the project submittal number and item description. After review, submittal status or action is reported by assigning a letter code A, B, C or D. These codes refer to the following actions:

A - Conforms with Requirements (CFC)
B - Minor Comments- Proceed, but resubmit action to comments
C - Revise and resubmit
D - For information/Record Documents: CFC

During the period the following submittals for the respective projects were reviewed by the Resident Engineer (RE) and comments returned and reviewed with the project coordinator. Comments are also reviewed with the Project Engineer and QA as may be required for thorough understanding.

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT 1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 31 Aug 1997

WR Nos. 24, 25 And 26 (Cont'd)

Submittal No.	Item Description	RE Disposition	Recommended Status
LCS			
60R6	Plexco PLS Certs	No Comment	A
86R2	Earthwork Plan	No Comment	A
42R2	Sch. 40 SS Vent Pipe	Comment on	A
77R10	Cert for Welding Rod Counterbore Clarification	Minor Comment	A
203R2	LCS?LDS &P LS Rebar Shop Drawing	Comments Wrong Opening Size See DCN Nos. 8 & 20	C
301 & 301 R1	Panels, PLC, Instrumentation LCS/LDS & PLS	Comments Given in Meeting on 25 August 97	B
49R2	Solar Panel Mounting Detail Battery Case Mounting Detail	No Comments	A
91R1	Above Ground Manhole Testing Procedure	No Comment	A
Phase 1			
24R2	PE Resin Origin/Ident.	No Comment	A
24R3	Welding Rod Cert	No Comment	A

COPY TO: MJH, RAH, JAK, JCL, WAZ, RLM, MWG, GKL, JEM, KWC PER: D.G.Bodine

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT 1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO: 1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 31 Aug. 1997

WR Nos. 24, 25 And 26 (Cont'd)

Phase 1 Cont'd

55	Venation Material Certs		
	Seed	No Comment	A
	Fertilizer	No Comment	A
	Mulch	Comments	C
	Tackifier	No Comment	A
57	Direct Shear Test Results August 6, 1997 Report	Comments	A
58	Material Certs (78s)	No Comment	A
22R4	Safe Work Plan Revision	Comment	B(Upgraded to A after Discussion with FDF)
40R1	10 oz & 16 oz Geotextile	Comments	A (Downgraded to B After Discussion with FDF)
59	Pressure Test Gauge Cert	No Comment	A
61	Material Used Cert for Hydro Seeding	No Comment	A
55R1	Material Used Cert for Mulch	No Comment	A
24R4	Listing of Completed Facilities (Ground Safe Inc.)	No Comment	A
63	Tensioneter Calibration Certs	No Comment	A
16R2	Proposed Mulch & Data	Comment	A, Pending Approval of DCN 1702-027

COPY TO: MJH,RAH,UAK,JCL,WAZ,RLM,MWG,GKL,JEM,KWC PER: D.G.Bodine

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

1264

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO: 1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 31 Aug. 1997

WR Nos. 24, 25 And 26 (Cont'd)

Phase 1 Cont'd

24R5	Geomembrane Crew Resumes	Comment	B
25R1	Hydrostatic Testing Procedures	No Comment	A
31R1	Panel Layout Drawing	No Comment	A
56	Geomembrane Mfg. QC		
	Vendor/Mfg. Resin	Minor Comment	A
	Reclaimed Polymer Cert	No Comment	A
	HDPE Sheet QC & Certs	Comments	B
58R1	Material (78s) Certs	No Comment	A
60	GCL Roll Certs	Comments	C, Upgraded to B after Meeting
53	Granular Drainage Material Test Data (57s)	Comments	A,HOLD Removed After GeoSyntec Testing
54	Granular Drainage Material Cert (57s)	Comment	A, HOLD Removed

During the period comments on several submittals were transmitted by CDC to the appropriate Contractor. Status of these transmittals is controlled by the CCM and CDC.

COPY TO: MJH, RAH, UAK, JCJ, WAZ, RLM, MWG, GKJ, JFM, KWC PER: D.G.Bodine

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 31 Aug. 1997

WR Nos. 24, 25 and 26 (Cont'd)

Design Clarifications and Modifications

LCS

DCN No. 48, prepared by FDF and approved as noted by Parsons, provided requirements for pneumatic leak test for 6-inch fuel gas line.

DCN No. 49, prepared by FDF and approved as noted by Parsons, provided a design cross section detail for the Staver Ditch pipe installation. The LCS pipe is not affected. Drawing 92X-5900-G-00266 is affected. DCN Nos. 1700-032 and 1698/99-018 are superseded by this DCN.

DCN No. 50, prepared by FDF and approved as noted by Parsons, provided revised piping at AWWT area. LCS pipe is not affected. Drawing 92X-5900-G-00266 (Detail A) affected.

DCN No. 51, prepared by VBS and approved by GeoSyntec, requested approval of welded SS pipe in lieu of seamless SS pipe. Drawing 90X--6000-M-0063, specification section 15000 page 10, RCI 024 and Submittal No. 042 R1 affected.

DCN No. 52, prepared by FDF and approved as noted by Parsons and GeoSyntec, revised the LCS alignment as it crosses the east and west parking lots. Drawings 92X-5900-G-00254 and G-00261 were affected. GeoSyntec provided some excavation and backfill comments.

DCN No. 53, prepared by FDF and approved as noted by Parsons, provided a revision eliminating the Future Tap @ FT/48 on the LCS line. Drawing 92X-5900-G-00261 was affected.

DCN No. 54, prepared by GeoSyntec and approved by GeoSyntec, simplified the backfill requirements at the Permanent Lift Station. Specification Section 02215 Part 3.03.B was affected.

Phase 1

DCN No. 24, prepared and approved by GeoSyntec, provided a riprap width for the Type C riprap at the Sedimentation Basin Outlet. Drawing 90X-6000-G-00089 was affected.

DCN No. 25, requesting a design change in the Horizontal Well Screening was not approved.

COPY TO: MJH, RAH, UAK, JCI, WAZ, RLM, MWG, GKJ, JFM, KWC PER: D.G.Bodine

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

1264

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: LCS and Phase 1 Construction WEEK ENDING: 31 Aug. 1997

WR No. 24, 25 and 26 (Cont'd)

DCN No. 26, prepared and approved by GeoSyntec, provided additional subgrade construction control points for Cell 1. Drawing 90X-6000-G-00073 was affected.

During the report period only one RCI for the Phase 1 project were received and reviewed by the RE. RCI No. 1702-002 was prepared by Petro and wanted to clarify that an 18-inch HDPE , N-12, Type D pipe would be suitable for the temporary corrugated HDPE pipe shown on the drawings. It was approved.

Quality Control (QC)

QC continued construction monitoring, soil sampling and field and lab testing during the period. Work continued throughout the weekend to provide coverage of all applicable construction and process specific lab samples for shipment offsite. Discussions of QC activities and a summary of selected laboratory testing can be found in the Site Managers weekly report.

The following summary table is tabulated history of the hydrostatic pressure testing of the LCS transmission line. It will be updated weekly. Pressure test logs contain detailed information on pressure and temperature readings and are on file at QC and the RE's office for review, if reader desires.

LCS Hydrostatic Pressure Summary Table

Test Date day/mo/yr	Pipe Diameter, in	Drawing No. (s)	Station Interval	Pressure Change, psi	Pass Fail
24/06/97	4	G-00261	8+05 to 11+20	+1	Pass
27/06/97	8	G-00261	8+05 to 11+20	+0.4	Pass
01/07/97	4	G-00261	11+20 to 14+06	0	Pass
09/07/97	8	G-00261	11+20 to 14+06	0	Pass
16/07/97	4	G-00261, G-00266	14+06 to 01+70	-1	Pass
17/07/97	8	G-00261, G-00266	14+06 to 01+70	0	Pass

COPY TO: MJH, RAH, UAK, JCJ, WAZ, RLM, MWG, GKJ, JFM, KWC, BEH, RMT, DKP, LRW, DBG, File PER: D.G.Bodine

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT 1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GO0166 TASK NO.: 3.1

DESCRIPTION: LCS and Phase 1 Construction WEEK ENDING: 31 Aug. 1997

WR No. 24, 25 and 26 (Cont'd)

LCS Hydrostatic Pressure Summary Table (Cont'd)

Test Date day/mo/yr	Pipe Diameter, in	Drawing No. (s)	Station Interval	Pressure Change, psi	Pass Fail
23/07/97	COMH 5	G-00261	Approx 8+05	0	Pass
28/0797	4	G-00266	01+70 to 04+00	0	Pass
29/07/97	8	G-00266	01+70 to 04+00	0	Pass
16/08/97	4	G-00266	04+00 to 07+00 *	0	Pass
15/08/97	8	G-00266	04+00 to 07+00 *	0	Pass
04/08/97	4	G-00266,G-00262	*07+00 to COMH 11	0	Pass
20/08/97	8	G-00266,G-00262	*07+00 to COMH 11	0	Pass
27/08/97	4	G-00262	COMH 11 to BSL**	0	Pass
02/08/97	Manholes LDS 01 and LDS 02		Not Installed	0	Pass
07/08/97	Manhole LDS 03		Not Installed	0	Pass
18/08/97	Manhole LCS 02		Not Installed	0	Pass
25/08/97	COMH 11	G-00262	Approx 6+83	0	Pass

* Indicates ending or begining station identified approximate.

** Indicates tested HDPE pipe only. Test for open ended steel pipe not required.

Health and Safety

One of the safety topics discussed at the Phase 1 weekly construction meeting delt with paying attention to the little things that could prevent serious accidents (such as noticing a bolt or nut missing on a piece of machinery) and reporting it rather than assuming that it may be insignificant. Another ongoing safety item is traffic safety. In recent weeks many days have started with heavy fog throughout the site. Everyone needs to be extra careful, including heavy equipment operators, during the early hours of construction when a lot of vehicle movement in and out of work areas is taken place.

COPY TO: MH, RAH, UAK, JCI, WAZ, RLM, MWG, GKJ, JEM, KWC PER: D.G Bodine

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT 1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 07 Sept. 1997

RESIDENT ENGINEER'S WEEKLY REPORT NO. 27

The report period covered by Weekly Report No. 27 is from 01 Sept. 1997 through 07 Sept. 1997. The Resident Engineers Weekly Report for the LCS and Phase 1 Construction has been combined into one report. This report discusses the LCS and Phase 1 projects. Rick McGuire is the Construction Contract Manager (CCM) for the LCS project and Lou Wehlitz the CCM for the Phase 1 project. Don Goetz is a Construction Engineering Coordinator assigned to the Phase 1 project. Individuals should check their cc-mail or contact the CCMs for meeting dates and times.

Construction Progress

LCS

The LCS contractors, VBS and Wise, continued excavating trenches and welding and installing HDPE double containment pipe during the period. VBS installed 10/6 inch pipe at the Remia area heading north passing the Sedimentation Basin Stockpile to approximate Station 24+00, Drawing G-00059. Soil-bentonite plugs were being installed at approximately 150-ft spacings along the trench. Backfilling was not completed during the period and portions of the work were not performed in general accordance with the project specifications. Temporary Gravity Line Cleanout has been relocated from Station 24+00 to Station 23+50, Drawing G-00058. This was because the original location fell in the middle of a temporary rerouted roadway. VBS also set into place LCS/LDS No. 1 and No. 2 Manholes and began trench excavation heading south from LCS 1 to approximate Station 1+00, Drawing G-00057.

Wise began pipe trench excavation at the south end of the Permanent Lift Station (PLS) and continued welding and installing 6/4 inch pipe into the east parking area to approximate Station 8+50, Drawing G-00254 modified by DCN 052. Pipe bedding was placed and compacted with a vibratory plate compactor per specification requirements with out the need of men entering the trench. Backfill above the pipe, including pavement subgrade, was completed for the east parking lot entrance. Cleanout Manhole No. 1 was not yet installed.

Wise also conducted (in progress) trench excavation and pipe bedding placement and compaction (beneath pipe) within the west parking lot between Station 12+15, Drawing G-00254, to Station 2+90, Drawing G-00261.

Results of hydrostatic testing of LCS pipe and manholes are presented in the QC section of this report. Additional LCS construction progress and QC summaries can be found in the QC Site Managers weekly report.

COPY TO: MJH, RAH, UAK, JCJ, WAZ, RLM, MWG, GKJ, JFM, KWC, REH, RMT, DKP, DRW, DWG, File PER: D.G.Bodine

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GO0166 TASK NO.: 3.1

DESCRIPTION: ~~LCS And Phase 1 Construction~~ WEEK ENDING: 07 Sept. 1997

WR Nos. 27 (Cont'd)

Construction Progress Cont'd

Phase 1

During the report period Petro continued to work within Cell 1 preparing, proffrolling and undercutting the remaining cell bottom subgrade area that was not yet completed. Placement, processing and compacting clay liner material continued at a satisfactory pace. Two screening operations are working, removing most rocks, breaking up clay clods and producing a very good clay liner material. Water is being added at the screening operation, but not at all times when it should.

Additional placement of structural fill for the cell berms and Type D riprap for the east ditch occurred intermittently during the period. Additional discussion of Phase 1 construction progress can be found in the QC Site Managers weekly report and the FDF weekly construction meeting notes.

During the period the contractor took delivery of GCL and Geotextile. GeoSyntec CQC personnel cut GCL and Geotextile samples and shipped them to the lab for CQC testing. Additional QC information may be obtained by reviewing the Site QC Managers weekly report.

Construction Submittal Review

Construction submittals are controlled by Construction Document Control (CDC) and the FDF CCM. Each CCM has designated a project coordinator for comments. In this report submittals will be referred to by the project submittal number and item description. After review, submittal status or action is reported by assigning a letter code A, B, C or D. These codes refer to the following actions:

A - Conforms with Requirements (CFC)
B - Minor Comments- Proceed, but resubmit action to comments
C - Revise and resubmit
D - For information/Record Documents: CFC

During the period the following submittals for the respective projects were reviewed by the Resident Engineer (RE) and comments returned and reviewed with the project coordinator. Comments are also reviewed with the Project Engineer and QA as may be required for thorough understanding.

COPY TO: ~~MJH, RAH, UAK, JCL, WAZ, RLM, MWG, GKL, JFM, KWC,~~ REH,RMT,DKP,LRW, DBG,File PER: D.G.Bodine

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

1264

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 07 Sept. 1997

WR Nos. 27 (Cont'd)

During the report period no Submittals for the LCS project were received for review and comment.

Submittal No.	Item Description	RE Disposition	Recommended Status
Phase 1			
40R2	Manufacturers Geotextile . OC Certificates (10 &7 oz)	No Comment	A
56R1	Additional Geomembrane Manufacturers QC Certs. (Low Temp. Brittleness)	No Comment	A
57R1	Additional GCL Direct Shear Tests at 45 psi	No Additional Comment	A

An informal submittal (for information only) on Manufacturers Certifications for 6-inch HDPE SDR 11 pipe for the gravity line was made. The certification data was incomplete and in error. A formal submittal has not been make by the contractor because he knows it is, at a minimum, incomplete. The pipe has been delivered to the site and is being welded, but not installed. FDF QA is assisting the contractor in their attempt to obtain the proper certification data from Phillips Driscopipe.

Another submittal problem for the Phase 1 contractor is Submittal No. 35, Liner Penetration Boxes. The contractor has selected GSI (the geomembrane installer) as the fabricator of the penetration boxes. Submittal of shop drawings, shop welders qualifications, proposed installation procedures, handling and storage, fabricator QC testing per specification requirements, and location/schedule for shop fabrication has not been submitted. Contractor and FDF are aware of these deficiencies, but appear unable to correct them. Maybe the wrong fabricator has been selected. In any case a liner box installation delay is likely.

During the period comments on several submittals were transmitted by CDC to the appropriate Contractor. Status of these transmittals is controlled by the CCM and CDC.

COPY TO: MJH, RAH, UAK, JCJ, WAZ, RLM, MWG, GKJ, JFM, KWS, REH, RMT, DKP, LRW, DBG, File PER: D.G.Bodine

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT 1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GO0166 TASK NO: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 07 Sept. 1997

WR Nos. 27 (Cont'd)

Design Clarifications and Modifications

LCS

DCN No. 55 has not been received by this RE.

DCN No. 56, prepared by FDF requesting approval of a water spray method to compact pipe embedment sand, was reviewed and responded to by GeoSyntec. It was not approved.

DCN No. 57, prepared by FDF requesting elimination of trial welds each morning, was reviewed and responded to by GeoSyntec. It was not approved, however, GeoSyntec did reduce the minimum number of trial welds required when different size pipe is being welded, subject to additional good trial weld, if requested by CQC personnel.

DCN No. 58, prepared by FDF requesting approval to compact granular fill with water if satisfactory drainage is provided was reviewed and a draft response prepared. The draft response, which included procedures for an alternate compaction procedure, is being reviewed by the GeoSyntec design office.

Two additional DCNs have been prepared during the weekend, but not yet numbered. They deal with revising the project specification allowing the use of the Honeywell UDC 1000 model programmable level controller and re-locating a temporary gravity line cleanout from Station 24+00 to Station 23+50, Drawing G-00058. The re-location is required because Station 24+00 falls in the middle of a temporary re-routed construction north entrance road.

Phase 1

DCN No. 27, prepared and approved by GeoSyntec, provided a minor change to the requirements for wood cellulose fiber mulch. This change will permit the use of other acceptable products available.

DCN No. 28, prepared by FDF and approved by GeoSyntec, allowed the use of one minimum pass of the soil stabilizer to remove rock and reduce clods when the clay liner material being stabilized had previously been processed at the stockpile by the screening operation.

During the report period no RCIs were received or responded to during the report period. A verbal response, to be followed up with a written RCI, was given concerning when a slope midpoint survey point is required and when it is not.

COPY TO: MJH, RAH, UAK, JCJ, WAZ, RLM, MWG, GKJ, JFM, KWC PER: D.G.Bodine

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT 1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 3.1

DESCRIPTION: LCS and Phase 1 Construction WEEK ENDING: 07 Sept. 1997

WR No. 27 (Cont'd)

Quality Control (QC)

QC continued construction monitoring, soil sampling and field and lab testing during the period. Work continued throughout the weekend to provide coverage of all applicable construction and process specific lab samples for shipment offsite. Discussions of QC activities and a summary of selected laboratory testing can be found in the Site Managers weekly report.

The following summary table is tabulated history of the hydrostatic pressure testing of the LCS transmission line. It will be updated weekly. Pressure test logs contain detailed information on pressure and temperature readings and are on file at QC and the RE's office for review, if reader desires.

LCS Hydrostatic Pressure Summary Table

Test Date day/mo/yr	Pipe Diameter, in	Drawing No. (s)	Station Interval	Pressure Change, psi	Pass Fail
24/06/97	4	G-00261	8+05 to 11+20	+1	Pass
27/06/97	8	G-00261	8+05 to 11+20	+0.4	Pass
01/07/97	4	G-00261	11+20 to 14+06	0	Pass
09/07/97	8	G-00261	11+20 to 14+06	0	Pass
16/07/97	4	G-00261, G-00266	14+06 to 01+70	-1	Pass
17/07/97	8	G-00261, G-00266	14+06 to 01+70	0	Pass
23/07/97	COMH 5	G-00261	Approx 8+05	0	Pass
28/0797	4	G-00266	01+70 to 04+00	0	Pass
29/07/97	8	G-00266	01+70 to 04+00	0	Pass
16/08/97	4	G-00266	04+00 to 07+00 *	0	Pass
15/08/97	8	G-00266	04+00 to 07+00 *	0	Pass

COPY TO: MJH, RAH, HAK, JCL, WAZ, RLM, MWG, GKL, JEM, KWC PER: D.G.Bodine

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO. 3.1

DESCRIPTION: LCS and Phase 1 Construction WEEK ENDING: 07 Sept. 1997

WR No. 27 (Cont'd)

LCS Hydrostatic Pressure Summary Table (Cont'd)

Test Date day/mo/yr	Pipe Diameter, in	Drawing No. (s)	Station Interval	Pressure Change, psi	Pass Fail
04/08/97	4	G-00266,G-00262	*07+00 to COMH 11	0	Pass
20/08/97	8	G-00266,G-00262	*07+00 to COMH 11	0	Pass
27/08/97	4	G-00262	COMH 11 to BSL**	0	Pass
02/08/97	Manholes LDS 01 and LDS 02		Not Installed	0	Pass
07/08/97	Manhole LDS 03		Not Installed	0	Pass
18/08/97	Manhole LCS 02		Not Installed	0	Pass
25/08/97	COMH 11	G-00262	Approx 6+83	0	Pass
06/09/97	Manhole LCS 03		Not Installed	0***	Pass

* Indicates ending or begining station identified approximate.

** Indicates tested HDPE pipe only. Test for open ended steel pipe not required.

*** Indicates Pressure Test Log not yet submitted, awaiting signatures.

Cleanout Manhole No. 1 has been moved along side the trench awaiting installation. It and the LCS piping already installed by Wise have not been Hydro tested. The piping in the ground should be tested prior to Manhole installation, if manufacturers recommendation and warranty is to be followed.

Health and Safety

At the weekly LCS meeting a revised procedure for monitoring carbon monoxide level in trenches was discussed and distributed. Using this procedure and following good equipment maintenance and operating procedures (and common sense) should provide for continued safe construction.

COPY TO: MJH, RAH, UAK, JCJ, WAZ, RLM, MWG, GKJ, JFM, KWC, REH,RMT,DKP,LRW,DBG,File PER: D.G.Bodine

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

1264

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 14 Sept. 1997

RESIDENT ENGINEER'S WEEKLY REPORT NO. 28

The report period covered by Weekly Report No. 28 is from 08 Sept. 1997 through 14 Sept. 1997. The Resident Engineers Weekly Report for the LCS and Phase 1 Construction has been combined into one report. This report discusses the LCS and Phase 1 projects. Rick McGuire is the Construction Contract Manager (CCM) for the LCS project and Lou Wehlitz the CCM for the Phase 1 project. Don Goetz is a Construction Engineering Coordinator assigned to the Phase 1 project. Individuals should check their cc-mail or contact the CCMs for meeting dates and times.

Construction Progress

LCS

The LCS contractors, VBS and Wise, continued excavating trenches and welding and installing HDPE double containment pipe during the period. VBS excavated LTS trench east of the Sedimentation Basin to approximate Station 21+50, Drawing G-00058 and between Station 1+00 to Station 3 +80 (LCS 02 excavation), Drawing G-00057. Pipe embedment fill and pipe installation had not yet been completed in these areas. Concrete antiflotation anchor pads were poured for LCS/LDS 01 and LCS/LDS 02 manholes. Installation of temporary gravity line cleanouts at approximately Stations 28+00 and 32+00 , Drawing G-00059, were inprogress, but not completed during the period.

Wise continued excavating and placing LCS pipe across the east and west parking lots, Drawings G-00254 and G-00261 and DCN No. 052. The road crossing at the sites main entrance was completed during the weekend. Bedding, pipe and backfill installation proceeded without any major problems. Cleanout No. 3 was installed, but appeared to have a top elevation to low. We understand Parsons and FDF are reviewing the situation.

Results of hydrostatic testing of LCS pipe and manholes are presented in the QC section of this report. Additional LCS construction progress and QC summaries can be found in the QC Site Managers weekly report.

Phase 1

During the report period Petro continued to work within Cell 1 processing, placing and compacting clay liner material. Two to three screening operations are working, removing most rocks, breaking up clay clods and producing a very good clay liner material. Water is being added at the screening operation, but

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT 1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 14 Sept. 1997

WR Nos. 28 (Cont'd)

Construction Progress Cont'd

Phase 1

not at all times. Placement and compaction of clay liner material also has taken place on the north and east slopes of the cell. The contractor is having some difficulty obtaining acceptable results for clay placed on the slope, mainly due to low moisture content of the clay. At the time of writing this report conditions were improving. Less water had been added during processing and an attempt to use the soil stabilizer water bar failed.

Excavation of Cell 2 is continuing to provide additional clay liner material to be used for Cell 1, if needed, and to keep equipment working when placement of clay liner in Cell 1 is slowed. At one time during the report period clay liner placement was halted due to breakdown and repair of the soil stabilizer.

During the period the contractor took delivery of more GCL and Geotextile. GeoSyntec CQC personnel cut GCL and Geotextile samples and shipped them to the lab for CQC testing. Additional QC information may be obtained by reviewing the Site QC Managers weekly report.

Construction Submittal Review

Construction submittals are controlled by Construction Document Control (CDC) and the FDF CCM. Each CCM has designated a project coordinator for comments. In this report submittals will be referred to by the project submittal number and item description. After review, submittal status or action is reported by assigning a letter code A, B, C or D. These codes refer to the following actions:

A - Conforms with Requirements (CFC)
B - Minor Comments- Proceed, but resubmit action to comments
C - Revise and resubmit
D - For information/Record Documents: CFC

During the period the following submittals for the respective projects were reviewed by the Resident Engineer (RE) and comments returned and reviewed with the project coordinator. Comments are also reviewed with the Project Engineer and QA as may be required for thorough understanding.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT 1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GO0166 TASK NO: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 14 Sept. 1997

WR Nos. 28 (Cont'd)

Submittal No.	Item Description	RE Disposition	Recommended Status
LCS			
26R3	Pump Control Panel Material List & Schematic	Parsons Final Review	
77R11	Certifications for 6/10-in Gravity Line & Manhole Cleanouts & Hor. Well	No Comment	A
78R4	Certification for Manhole Embedment Fill (No. 89s)	No Comment	A

Submittal No. 301 R1 was inadvertently transmitted to VBS as an "A" Status when it should have been "B" Status. Engineering and VBS are aware that a revised material list and shop drawing are required.

Phase 1

24R6	Geosynthetics Installation Schedule & GSI Resumes	Minor Comment (Master Seamer Not Identified)	A with comment

Submittal No. 25R1 included a shop drawing for the Decontamination Facility manhole. The manhole was delivered to the site during the report period. The manhole was inspected and found acceptable, except that it had not included any perforated holes. Contractor was notified, and subsequently decided to drill the holes onsite.

GeoSyntec and FDF have been informed that a new vendor has been selected to fabricate the Liner Penetration Boxes. FDF is aware that installation delay could occur due to late submittal of shop drawings and late fabrication. However, the change was necessary since GSI was not capable of fabricating the boxes per specifications and had not made any acceptable submittals to the contractor.

During the period comments on several submittals were transmitted by CDC to the appropriate Contractor. Status of these transmittals is controlled by the CCM and CDC.

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FLUOR DANIEL FERNALD

1264

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO: 1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 14 Sept. 1997

WR Nos. 28 (Cont'd)

Design Clarifications and Modifications

LCS

DCN No. 55 , prepared by FDF requested a change in the LCS line elevation between Station 1+10 to 4+90, Drawing G-00261, to route the LCS over existing utilities is being reviewed by Parsons.

DCN No. 60, prepared by GeoSyntec, will change the specifications allowing the use of the Honeywell UDC 1000 model programmable level controller. The DCN will be transmitted to Engineering as soon as requested data is submitted by the contractor. A meeting was held with FDF, Parsons, GeoSyntec VBS and the vendor to discuss LCS and PLS controls. Specification Section 15000 will be affected.

DCN No. 61, prepared and approved by GeoSyntec, relocated a temporary gravity line clean from Station 24+00 to Station 23+50. Drawing G-00058 was affected.

DCN No. 62, prepared by FDF and currently being reviewed by Parsons, modified the Pavement Restoration Detail for parking and walking lanes. The existing Pavement Restoration Detail, as modified by DCN 022, will remain in force for driving lanes. Drawing G-00257 is affected.

DCN No. 63, prepared and approved by GeoSyntec, clarified concrete test cylinder submittal and field quality control testing. Specification Section 03100 and the Construction Quality Assurance Plan were affected.

Phase 1

DCN No. 29, prepared and approved by GeoSyntec, provided clarification where a slope midpoint survey point is required. Specification Section 02100 was affected.

During the report period no RCIs were received or responded to during the report period.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT 1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 3.1

DESCRIPTION: LCS and Phase 1 Construction WEEK ENDING: 14 Sept 1997

WR No. 28 (Cont'd)

Quality Control (QC)

QC continued construction monitoring, soil sampling and field and lab testing during the period. Work continued throughout the weekend to provide coverage of all applicable construction and process specific lab samples for shipment offsite. Discussions of QC activities and a summary of selected laboratory testing can be found in the Site Managers weekly report.

The following summary table is tabulated history of the hydrostatic pressure testing of the LCS transmission line. It will be updated weekly. Pressure test logs contain detailed information on pressure and temperature readings and are on file at QC and the RE's office for review, if reader desires.

LCS Hydrostatic Pressure Summary Table

Test Date day/mo/yr	Pipe Diameter, in	Drawing No. (s)	Station Interval	Pressure Change, psi	Pass Fail
24/06/97	4	G-00261	8+05 to 11+20	+1	Pass
27/06/97	8	G-00261	8+05 to 11+20	+0.4	Pass
01/07/97	4	G-00261	11+20 to 14+06	0	Pass
09/07/97	8	G-00261	11+20 to 14+06	0	Pass
16/07/97	4	G-00261, G-00266	14+06 to 01+70	-1	Pass
17/07/97	8	G-00261, G-00266	14+06 to 01+70	0	Pass
23/07/97	COMH 5	G-00261	Approx 8+05	0	Pass
28/0797	4	G-00266	01+70 to 04+00	0	Pass
29/07/97	8	G-00266	01+70 to 04+00	0	Pass
16/08/97	4	G-00266	04+00 to 07+00 *	0	Pass
15/08/97	8	G-00266	04+00 to 07+00 *	0	Pass
04/08/97	4	G-00266,G-00262	*07+00 to COMH 11	0	Pass
20/08/97	8	G-00266,G-00262	*07+00 to COMH 11	0	Pass

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

1264

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: LCS and Phase 1 Construction WEEK ENDING: 14 Sept. 1997

WR No. 28 (Cont'd)

LCS Hydrostatic Pressure Summary Table (Cont'd)

Test Date day/mo/yr	Pipe Diameter, in	Drawing No. (s)	Station Interval	Pressure Change, psi	Pass Fail
27/08/97	4	G-00262	COMH 11 to BSL**	0	Pass
02/08/97	Manholes LDS 01 and LDS 02		Not Installed	0	Pass
07/08/97	Manhole LDS 03		Not Installed	0	Pass
18/08/97	Manhole LCS 02		Not Installed	0	Pass
25/08/97	COMH 11	G-00262	Approx 6+83	0	Pass
06/09/97	Manhole LCS 03		Not Installed	0***	Pass
08/09/97	4	G-00261 to G-00262	MH#5 to MH#11	0	Pass

* Indicates ending or begining station identified approximate.

** Indicates tested HDPE pipe only. Test for open ended steel pipe not required.

*** Indicates Pressure Test Log not yet submitted, awaiting signatures.

Phase 1 Hydro Pressure Test Summary

Test Date day/mo/yr	Pipe Diameter, in	Drawing No. (s)	Test Segment Name/Description	Pressure Change, psi	Pass Fail
12/09/97	6	G-00076	SG-01-06 (LDS 01 to Liner Box)	0.8*	Pass

* The 0.8 psi decrease in pressure occurred near the end of the test when a test pipe was bumped and a small leak was noted at the pipe thread connection. This Resident Engineer reviewed the data, talked to both QC and QA personnel observing the full test and approved or passed the test.

Health and Safety

At the 08 September 1997 weekly OSDF Phase 1 meeting plans for re-routing construction traffic on the closed north access road through the Remia area and around the Sedimentation Basin Stockpile were given. The re-route was to began later that day. Additional safety concerns were discussed.

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FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 28 Sept. 1997

RESIDENT ENGINEER'S WEEKLY REPORT NOS. 29 and 30

The report period covered by Weekly Report Nos. 29 and 30 is from 15 Sept. 1997 through 28 Sept. 1997. The Resident Engineers Weekly Report for the LCS and Phase 1 Construction has been combined into one report. This report discusses the LCS and Phase 1 projects. Rick McGuire is the Construction Contract Manager (CCM) for the LCS project and Lou Wehlitz the CCM for the Phase 1 project. Don Goetz is a Construction Engineering Coordinator assigned to the Phase 1 project. Individuals should check their cc-mail or contact the CCMs for meeting dates and times.

Construction Progress

LCS

The LCS contractors, VBS and Wise, continued excavating trenches and welding and installing HDPE double containment pipe during the period. VBS excavated the LTS trench east of the Sedimentation Basin from approximate Station 21+50, Drawing G-00058 to approximate Station 3 +80 (LCS 02 excavation), Drawing G-00057. Pipe embedment fill, pipe installation and trench backfill is ongoing and at different stages of completion. Concrete antiflotation anchor pad was poured for LCS/LDS 03 manhole. Installation of gravity line cleanouts at manhole locations is also inprogress. VBS has not conducted any hydrostatic pressure testing for the LCS gravity line. The contractor should not place concrete cover slabs before completing testing of all piping beneath the slabs.

Wise continued excavating and placing LCS pipe across the west parking lot, Drawing G-00261. At the end of the report period, work was inprogress between COMH No. 4 and No. 5. Wise has had some trouble installing electrofusion fittings. Two fittings installed that defaulted at the time of installation will need to be cut out and replaced as indicated by CQC at the time of installation. Wise has conducted hydrostatic pressure testing. Results of hydrostatic testing pipe and manholes are presented in the QC section of this report. Additional LCS construction progress and QC summaries can be found in the QC Site Managers weekly report.

Phase 1

During the report period Petro continued to work within Cell 1, including slope and intercell berm areas, processing, placing and compacting clay liner material. Work on the intercell berm in Cell 2 is in progress. Top of clay survey has also begun with some data indicating grade submitted for review. Two to three screening operations have been working, removing most rocks, breaking up clay clods and producing a clay liner material. Water is being added at the screening operation, but not at all times.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 28 Sept. 1997

WR Nos. 29 and 30 (Cont'd)

Construction Progress Cont'd

Phase 1

Excavation of Cell 2 and stockpiling clay is continuing. Additional clay liner material is needed for Cell 1 and the intercell berm. Contractor's poor estimate of amount of clay required and rock to be removed has resulted in several new clay stockpiles being created and tested.

Some delay in starting placement of the GCL is likely to occur due to late submittal of manufacturer quality control tests and review of those tests. Some test are yet to be completed. Meetings between the contractor, manufacturer, FDF and GeoSyntec have taken place to help resolve the issues.

Construction Submittal Review

Construction submittals are controlled by Construction Document Control (CDC) and the FDF CCM. Each CCM has designated a project coordinator for comments. In this report submittals will be referred to by the project submittal number and item description. After review, submittal status or action is reported by assigning a letter code A, B, C or D. These codes refer to the following actions:

A - Conforms with Requirements (CFC)
B - Minor Comments- Proceed, but resubmit action to comments
C - Revise and resubmit
D - For information/Record Documents: CFC

During the period the following submittals for the respective projects were reviewed by the Resident Engineer (RE) and comments returned and reviewed with the project coordinator. Comments are also reviewed with the Project Engineer and QA as may be required for thorough understanding.

	Submittal No.	Item Description	RE Disposition	Recommended Status
LCS				
	67R3	Compaction Equipment Iingersoll-Rand	Minor Comment	A
	203R2	Concrete Slab Rebar Shop Drawing	Comments on PLS Cover Slab	B

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WEEKLY FIELD REPORT

1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 31

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 28 Sept. 1997

WR Nos. 28 and 30 (Cont'd)

10 R10 & R11	Safe Work Plan	No Comment	FDF detailed review
Phase 1			
56 R2	Geomembrane Certificate of Analysis for all Rolls Shipped to Site	Minor Comment	A with comment
60 R1	GCL Manufacturers QC	ON HOLD Additional tests need to be submitted and reviewed.	
49 R1	Monthly Progress Report	No Comment	FDF review
65	Fusion Equipment & Certs	No Comment	A
66 R1	HDPE Pipe & Resin Certs	Minor Comment Fitting Documentation	A

During the period comments on several submittals were transmitted by CDC to the appropriate Contractor. Status of these transmittals is controlled by the CCM and CDC.

Design Clarifications and Modifications

LCS

DCN No. 58 , prepared by FDF and approved as noted by GeoSyntec provided a procedure to compact pipe bedding sand by flooding with water. The procedure, detailed in the response, required a density to be determined from conducting measurements on two lifts compacted by 4 passes of a vibratory plate compactor. This density has been determined in accordance with the procedure and is 108.1 lbs/ft3.

RCI No. 033R was received at the end of the report period for GeoSyntec impute and comment. Comment is in progress.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 28 Sept. 1997

WR Nos. 29 and 30 (Cont'd)

Phase 1

DCN No. 30, prepared and approved by GeoSyntec, revised a dimensional error for the Type IV Liner Box Detail given on Drawing G-00083. The contractors fabricator was notified by the contractor.

DCN No. 31, prepared and approved by GeoSyntec, provided an alternate method for scarifying the subgrade or underlying lift and processing the clay liner soils for the cell slopes. The processing of the clay liner was as specified, except that it could occur at the base of the slope and placed on the slope using a dozer. Specification Section 02225 and DCN 1702-028 are affected.

DCN No. 32, prepared and approved by GeoSyntec, allowed the pipe embedment fill to extend to one lift above the top of HDPE pipes which are not located within the cell or cell clay liner zone. Specification Section 022I5 and Drawings G-00087 and G-00082 were affected.

A informal meeting was held between representives of the OEPA and this RE to discuss and respond to their questions concerning clay liner construction and DCN No. 1702-028. CQC reports were also examined. We believe the discussions went very well and understand from FDF that they were satisfied.

Quality Control (QC)

QC continued construction monitoring, soil sampling and field and lab testing during the period. Work continued throughout the weekend to provide coverage of all applicable construction and process specific lab samples for shipment offsite. Discussions of QC activities and a summary of selected laboratory testing can be found in the Site Managers weekly report.

The following summary tables are tabulated history of the hydrostatic pressure testing of the LCS and Phase 1 transmission lines. They will be updated weekly. Pressure test logs contain detailed information on pressure and temperature readings and are on file at QC and the RE's office for review, if reader desires.

LCS Hydrostatic Pressure Summary Table

Test Date day/mo/yr	Pipe Diameter, in	Drawing No. (s)	Station Interval	Pressure Change, psi	Pass Fail
24/06/97	4	G-00261	8+05 to 11+20	+1	Pass
27/06/97	8	G-00261	8+05 to 11+20	+0.4	Pass

COPY TO: MJH, RAH, UAK, JCJ, WAZ, RLM, MWG, GKJ, JFM, KWC, REH, RMT, DKP, LRW, DBO, File PER: D.G.Bodine

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WEEKLY FIELD REPORT

1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO. 3.1

DESCRIPTION: LCS and Phase 1 Construction WEEK ENDING: 28 Sept. 1997

WR No. 29 and 30 (Cont'd)

LCS Hydrostatic Pressure Summary Table (Cont'd)

Test Date day/mo/yr	Pipe Diameter, in	Drawing No. (s)	Station Interval	Pressure Change, psi	Pass Fail
01/07/97	4	G-00261	11+20 to 14+06	0	Pass
09/07/97	8	G-00261	11+20 to 14+06	0	Pass
16/07/97	4	G-00261, G-00266	14+06 to 01+70	-1	Pass
17/07/97	8	G-00261, G-00266	14+06 to 01+70	0	Pass
23/07/97	COMH 5	G-00261	Approx. 8+05	0	Pass
28/0797	4	G-00266	01+70 to 04+00	0	Pass
29/07/97	8	G-00266	01+70 to 04+00	0	Pass
16/08/97	4	G-00266	04+00 to 07+00 *	0	Pass
15/08/97	8	G-00266	04+00 to 07+00 *	0	Pass
04/08/97	4	G-00266,G-00262	*07+00 to COMH 11	0	Pass
20/08/97	8	G-00266,G-00262	*07+00 to COMH 11	0	Pass
27/08/97	4	G-00262	COMH 11 to BSL**	0	Pass
02/08/97	Manholes LDS 01 and LDS 02		Not Installed	0	Pass
07/08/97	Manhole LDS 03		Not Installed	0	Pass
18/08/97	Manhole LCS 02		Not Installed	0	Pass
25/08/97	COMH 11	G-00262	Approx. 6+83	0	Pass
06/09/97	Manhole LCS 03		Not Installed	0***	Pass
19/09/97	COMH 1	G-00254	Approx. 0+50	0	Pass
19/09/97	COMH 4	G-00261	Approx. 3+00	0	Pass
08/09/97	4	G-00261 to G-00262	MH#5 to MH#11	0	Pass
22/09/97	4	G-00254 & G-00261	0+50 to 3+00	0	Pass
24/09/97	8	G-00254 & G-00261	0+50 to 3+00	0	Pass

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT 1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO. 3.1

DESCRIPTION: LCS and Phase 1 Construction WEEK ENDING: 28 Sept. 1997

WR No. 29 and 30 (Cont'd)

LCS Hydrostatic Pressure Summary Table (Cont'd)

* Indicates ending or begining station identified approximate.
** Indicates tested HDPE pipe only. Test for open ended steel pipe not required.
*** Indicates Pressure Test Log not yet submitted, awaiting signatures.

Phase 1 Hydrostatic Pressure Test Summary

Test Date day/mo/yr	Pipe Diameter, in	Drawing No. (s)	Test Segment Name/Description	Pressure Change, psi	Pass Fail
12/09/97	6	G-00076	SG-01-06 (LDS 01 to Liner Box)	0.8*	Pass
13/09/97	6	G-00076	Solid pipe used with HMW 01	0**	Pass
17/09/97	6	Cell 2	Solid pipe used with HMW 02	0	Pass
16/09/97	10	G-00076	SG-01-10 (LDS 01 to Liner Box)	0	Pass
16/09/97	6	G-00076	SG-02-06 (LCS 01 RD to Liner Box)	0	Pass
16/09/97	6	G-00076	SG-03-06 (LCS 01 to Liner Box)	0	Pass
17/09/97	10	G-00076	SG-02-10 (LCS 01 RD to Liner Box)	0	Pass
17/09/97	10	G-00076	SC-03-10 (LCS 01 to Liner Box)	0	Pass

* The 0.8 psi decrease in pressure occurred near the end of the test when a test pipe was bumped and a small leak was noted at the pipe thread connection. This Resident Engineer reviewed the data, talked to both QC and QA personnel observing the full test and approved or passed the test.

** This pipe was tested uncovered and in direct sunshine and pressure decreased and increased depending on change in temperature and expansion of the pipe. Pressure was kept on the pipe for a very long time and no leaks were noted. Between 11:35 AM and 17:10 PM the pressure decreased and increased with no net change in pressure (Pressure 104 psi). This RE passed the test and recommended that for all future tests, the pipe be covered, tested away from direct sunlight, or tested at a time when sunlight and temperature would not affect the test. Contractor, CQC and QA agreed to test early in the morning and away from direct sunlight.

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FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT 1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO. 3.1

DESCRIPTION: LCS and Phase 1 Construction WEEK ENDING: 28 Sept. 1997

WR No. 29 and 30 (Cont'd)

Health and Safety

At the 08 September 1997 weekly OSDF Phase 1 meeting plans for re-routing construction traffic on the closed north access road through the Remia area and around the Sedimentation Basin Stockpile were given. The re-route was to began later that day. Additional safety concerns were discussed. These were to require drivers to blow their horn as they were driving around the curve and to determined if a corner mirror could be obtained and used. It was agreed to require everyone blow their horn.

At the 23 September 1997 weekly LCS meeting vehicle safety in the Remia area was the main safety topic. Heavy truck traffic in the area from construction and shipping/receiving vehicles has been noted. A safety meeting was held and steps to restrict truck and small vehicle parking were agreed upon. It was also stated that increased security and monitoring of the area was to be implemented.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT 1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 19 Oct. 1997

RESIDENT ENGINEER'S WEEKLY REPORT NOS. 31, 32 and 33

The report period covered by Weekly Report Nos. 31 thru 33 is from 29 Sept. 1997 through 19 Oct. 1997. The Resident Engineers Weekly Report for the LCS and Phase 1 Construction has been combined into one report. This report discusses the LCS and Phase 1 projects. Rick McGuire is the Construction Contract Manager (CCM) for the LCS project and Lou Wehlitz the CCM for the Phase 1 project. Don Goetz is a Construction Engineering Coordinator assigned to the Phase 1 project. Individuals should check their cc-mail or contact the CCMs for meeting dates and times.

Construction Progress

LCS

The LCS contractors, VBS and Wise, continued excavating trenches and welding and installing HDPE double containment pipe during the period. VBS completed pipe installation and trench backfilling for the remainder of the LTS line. Installation of the LCS, Redundant LCS , LDS and Horizontal Monitoring lines was complete except for some backfilling and hydrostatic pressure testing. Concrete surface slab was poured for the Permanent Lift Station. Rebar cages were being assembled for the LCS/LDS manhole and cleanout cover slabs. Installation of the cover slabs cannot occur until the manhole backfill is complete and until the GIS reinforced concrete pipe is installed.

Wise completed installing the LCS pipe across the west parking lot, Drawing G-00261. Backfill was also nearly complete, except for surface asphalt and subbase. Concrete for manhole cover slabs was also being installed. Wise has conducted hydrostatic pressure testing. Results of hydrostatic testing of pipe and manholes are presented in the QC section of this report. Additional LCS construction progress and QC summaries can be found in the QC Site Managers weekly report.

Phase 1

During the report period Petro continued to work within Cell 1, including slope and intercell berm areas, processing, placing and compacting clay liner material. Work on the intercell berm is nearly complete, except that most top of clay surveys have not yet been satisfactorily completed or approved. Considerable work remains at the west end of the cell. Because of delay in receiving acceptable manufacturer quality control test results for GCL onsite, there has been a delay in receiving approval to begin installation of the cell geosynthetic lining system. Therefore, the contractor has slowed down his cell clay liner completion activities. Final work on the cell bottom and slope clay liner has not yet been completed although, most of the fill, except the west slope, has been placed and compacted. Stockpiling

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT 1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GO0166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 19 Oct. 1997

WR Nos. 31, 32 and 33 (Cont'd)

Construction Progress Cont'd

Phase 1

of clay material for the clay wedge construction has begun. Stockpiling of cell drainage materials has also started. Required excavation of Cell 2 appears completed (rough cut) and additional borrow will be needed to complete the Phase 1 project. FDF and the contractor are working to solve the required fill needs. FDF and GeoSyntec are looking into using the processed soil and rock stockpiled material in non cell fill areas.

Construction Submittal Review

Construction submittals are controlled by Construction Document Control (CDC) and the FDF CCM. Each CCM has designated a project coordinator for comments. In this report submittals will be referred to by the project submittal number and item description. After review, submittal status or action is reported by assigning a letter code A, B, or C. These codes refer to the following actions:

A - Conforms with Requirements (CFC)
B - Minor Comments- Proceed, but resubmit action to comments
C - Revise and resubmit

During the period the following submittals for the respective projects were reviewed by the Resident Engineer (RE) and comments returned and reviewed with the project coordinator. Comments are also reviewed with the Project Engineer and QA as may be required for thorough understanding.

	Submittal No.	Item Description	RE Disposition	Recommended Status
LCS				
	54R2	Pressure Gauge Cert. Iingersoll-Rand	No Comment	A
	10R12	Safe Work Plan	No Comment	A, FDF Final Review
	107R1	Electrical Test Procedures	Minor Comment	A

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GeoSyntec Consultants FILE NO 1-05-~~TEH~~,RMT,DKP,LRW, DBG,File SHEET NO. 2 OF 8

000145

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FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT 1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 19 Oct. 1997

WR Nos. 31, 32 and 33 (Cont'd)

Phase 1

24R7	Geosynthetics Installation Schedule	Minor Comment	B, Already behind
34R1	Traffic Control Plan	No Comment	A
62R1	Sedimentation Basin As-built Survey	Minor Comment	A with comment
66R1	HDPE Manhole Resin/Mfr. Certs	Minor Comment Perforations yet to be drilled	A with comment
35R1	Liner Penetration Boxes Fab. Quals., QC Procedures, Material Certs, Handing & Storage	Minor Comment	A, except Resin Cert. additional data needed
35R2	Liner Penetration Boxes Shop Drawing	Comments	B
35R3	Liner Penetration Boxes	Comments	B, Resin Cert. Still Needed
35R4	Liner Penetration Boxes Fabrication Dates	No Comment	A

During the period comments on several submittals were transmitted by CDC to the appropriate Contractor. Status of these transmittals is controlled by the CCM and CDC.

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FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT 1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 31

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 19 Oct. 1997

WR Nos. 31, 32 and 30 (Cont'd)

Design Clarifications and Modifications

LCS

DCN No. 59, prepared by FDF and approved as noted by Parsons, provided details and comments for relocating the GW-10 inch line over the LCS line. Drawing G-00254 and DCN No. 1700-052 were affected.

DCN No. 64 , prepared by FDF and approved as noted by Parsons, provided details for extending the top of Cleanout No. 3 which was relocated within the west parking lot. Drawing G-00254 and DCN No. 014 were affected.

RCI No. 034R, prepared by FDF and responded to by GeoSyntec, clarified that pipe embedment fill gradation submitted meet the requirements for granular filter material.

Phase 1

DCN No. 33, prepared and approved by GeoSyntec, deleted the Temporary HDPE Culvert and Temporary Culvert No. 4. Drawing G-00074 was affected.

DCN No. 34, prepared by Petro and approved as noted by GeoSyntec, provided changes to the Liner Penetration Box air test procedure and requirements for filling the boxes after installation with Bentonite Granules. Specification Section 13005 and Drawing G-00083 were affected.

DCN Nos. 35 and 36 are being prepared by GeoSyntec and will be noted in next weeks weekly report.

DCN No. 37, prepared by Petro and approved as noted by GeoSyntec, provided an Alternative Anchor Trench Detail and Construction Sequence. Drawing G-00080 was affected. The original detail is still valid.

RCI No. 006R, prepared by GeoSyntec, provided clarification on review and evaluation of GCL Shear Strength Data. Specification Section 02772 was referenced.

Quality Control (QC)

QC continued construction monitoring, soil sampling and field and lab testing during the period. Work continued throughout the weekend to provide coverage of all applicable construction and process

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FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT 1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: LCS and Phase 1 Construction WEEK ENDING: 19 Oct 1997

WR No. 31, 32 and 33 (Cont'd)

specific lab samples for shipment offsite. Discussions of QC activities and a summary of selected laboratory testing can be found in the Site Managers weekly report.

As part of Contractor Manufacturer Quality Control, Petro has submitted partial results of direct shear testing on GCL material. Other Manufacturer Quality Control Tests have been submitted under Submittal No. 60. GeoSyntec is also testing CQC samples for hydraulic conductivity and direct shear. Results of the GCL testing are being given to FDF as results become available and will be summarized by GeoSyntec in a separate document. Memorandums to FDF reporting results of test evaluations have been issued by GeoSyntec's Atlanta Office.

The following summary tables are tabulated history of the hydrostatic pressure testing of the LCS and Phase 1 transmission lines. They will be updated weekly. Pressure test logs contain detailed information on pressure and temperature readings and are on file at QC and the RE's office for review, if reader desires.

LCS Hydrostatic Pressure Summary Table

Test Date day/mo/yr	Pipe Diameter, in	Drawing No. (s)	Station Interval	Pressure Change, psi	Pass Fail
24/06/97	4	G-00261	8+05 to 11+20	+1	Pass
27/06/97	8	G-00261	8+05 to 11+20	+0.4	Pass
01/07/97	4	G-00261	11+20 to 14+06	0	Pass
09/07/97	8	G-00261	11+20 to 14+06	0	Pass
16/07/97	4	G-00261, G-00266	14+06 to 01+70	-1	Pass
17/07/97	8	G-00261, G-00266	14+06 to 01+70	0	Pass
23/07/97	COMH 5	G-00261	Approx. 8+05	0	Pass
28/0797	4	G-00266	01+70 to 04+00	0	Pass
29/07/97	8	G-00266	01+70 to 04+00	0	Pass
16/08/97	4	G-00266	04+00 to 07+00 *	0	Pass
15/08/97	8	G-00266	04+00 to 07+00 *	0	Pass

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FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT 1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: LCS and Phase 1 Construction WEEK ENDING: 19 Oct 1997

LCS Hydrostatic Pressure Summary Table (Cont'd)

Test Date day/mo/yr	Pipe Diameter, in	Drawing No. (s)	Station Interval	Pressure Change, psi	Pass Fail
04/08/97	4	G-00266,G-00262	*07+00 to COMH 11	0	Pass
20/08/97	8	G-00266,G-00262	*07+00 to COMH 11	0	Pass
27/08/97	4	G-00262	COMH 11 to BSL**	0	Pass
02/08/97	Manholes LDS 01 and LDS 02		Not Installed	0	Pass
07/08/97	Manhole LDS 03		Not Installed	0	Pass
18/08/97	Manhole LCS 02		Not Installed	0	Pass
25/08/97	COMH 11	G-00262	Approx. 6+83	0	Pass
06/09/97	Manhole LCS 03		Not Installed	0***	Pass
19/09/97	COMH 1	G-00254	Approx. 0+50	0	Pass
19/09/97	COMH 4	G-00261	Approx. 3+00	0	Pass
08/09/97	4	G-00261 to G-00262	MH#5 to MH#11	0	Pass
22/09/97	4	G-00254 & G-00261	0+50 to 3+00	0	Pass
24/09/97	8	G-00254 & G-00261	0+50 to 3+00	0	Pass
26/09	4	G-00261 & G-00262	MH#4 to MH#5	0	Pass
29/09	8	G-00261 7 G-00262	MH#4 to MH#5	0	Pass
14/10	6	M-00066	Monitoring Well No. 01	0	Pass
16/10	6	M-00066	Monitoring Well No. 02	0	Pass
16/10	6	M-00066	Monitoring Well No. 03	0	Pass

* Indicates ending or begining station identified approximate.

** Indicates tested HDPE pipe only. Test for open ended steel pipe not required.

*** Indicates Pressure Test Log not yet submitted, awaiting signatures.

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WEEKLY FIELD REPORT 1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: LCS and Phase 1 Construction WEEK ENDING: 19 Oct. 1997

WR No. 31, 32 and 33 (Cont'd)

Phase 1 Hydrostatic Pressure Test Summary

Test Date day/mo/yr	Pipe Diameter, in	Drawing No. (s)	Test Segment Name/Description	Pressure Change, psi	Pass Fail
12/09/97	6	G-00076	SG-01-06 (LDS 01 to Liner Box)	0.8*	Pass
13/09/97	6	G-00076	Solid pipe used with HMW 01	0**	Pass
17/09/97	6	Cell 2	Solid pipe used with HMW 02	0	Pass
16/09/97	10	G-00076	SG-01-10 (LDS 01 to Liner Box)	0	Pass
16/09/97	6	G-00076	SG-02-06 (LCS 01 RD to Liner Box)	0	Pass
16/09/97	6	G-00076	SG-03-06 (LCS 01 to Liner Box)	0	Pass
17/09/97	10	G-00076	SG-02-10 (LCS 01 RD to Liner Box)	0	Pass
17/09/97	10	G-00076	SC-03-10 (LCS 01 to Liner Box)	0	Pass

* The 0.8 psi decrease in pressure occurred near the end of the test when a test pipe was bumped and a small leak was noted at the pipe thread connection. This Resident Engineer reviewed the data, talked to both QC and QA personnel observing the full test and approved or passed the test.

** This pipe was tested uncovered and in direct sunshine and pressure decreased and increased depending on change in temperature and expansion of the pipe. Pressure was kept on the pipe for a very long time and no leaks were noted. Between 11:35 AM and 17:10 PM the pressure decreased and increased with no net change in pressure (Pressure 104 psi). This RE passed the test and recommended that for all future tests, the pipe be covered, tested away from direct sunlight, or tested at a time when sunlight and temperature would not affect the test. Contractor, CQC and QA agreed to test early in the morning and away from direct sunlight.

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WEEKLY FIELD REPORT 1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: LCS and Phase 1 Construction WEEK ENDING: 19 Oct. 1997

WR No. 31, 32 and 33 (Cont'd)

Health and Safety

At the 13 October 1997 weekly OSDF Phase 1 meeting a discussion concerning the high wind conditions was held. Watering and wetting down construction roads and fill areas was discussed. The importance of eye protection was also discussed.

At the 14 October 1997 weekly LCS meeting a discussion was held on the effect of high winds on construction activities and on dust control. Additional watering of construction roadways is required during high wind conditions when construction road surfaces dry very quickly.

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FLUOR DANIEL FERNALD

1264

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GO0166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 26 Oct. 1997

RESIDENT ENGINEER'S WEEKLY REPORT NOS. 34

The report period covered by Weekly Report No. 34 is from 20 Oct. 1997 through 26 Oct. 1997. The Resident Engineers Weekly Report for the LCS and Phase 1 Construction has been combined into one report. This report discusses the LCS and Phase 1 projects. Rick McGuire is the Construction Contract Manager (CCM) for the LCS project and Lou Wehlitz the CCM for the Phase 1 project. Don Goetz is a Construction Engineering Coordinator assigned to the Phase 1 project. Individuals should check their cc-mail or contact the CCMs for meeting dates and times.

Construction Progress

LCS

The LCS contractors, VBS and Wise, continued performing completion activities for the LCS project. Rebar cages had been assembled for the LCS/LDS manhole and cleanout cover slabs. Additional re-bar work still remains. Concrete placement for the cover slabs will occur after forming and rebar placement is complete. However, it is recommended that hydrostatic pressure testing be completed before concrete placement. Electrical and mechanical installation work for the LCS is inprogress. Current schedule targets 10 November 97 for begining of system testing. Wise has completed installing the LCS pipe across the east and west parking lots, including placement of asphalt pavement restoration. Results of hydrostatic testing of pipe and manholes are presented in the QC section of this report. Additional LCS construction progress and QC summaries can be found in the QC Site Managers weekly report.

Phase 1

During the report period Petro continued to work within Cell 1 including slope and intercell berm areas. Nearly all of the clay liner placement was completed. Some additional grading, compaction and surface preparation remains. Final survey certification of the west slope and three points in the cell bottom remain.

Placement of GCL and Geomembrane began during the period. Approximately 69,090 ft^2 of GCL and 66,901 ft^2 of Geomembrane was placed. Rain, beginning approximately midday Friday and continuing off and on through out the weekend , and halted all geosynthetic work. Additional Phase 1 construction progress and QC summaries can be found in the QC Site Managers weekly report.

Construction Submittal Review

Construction submittals are controlled by Construction Document Control (CDC) and the FDF CCM. Each CCM has designated a project coordinator for comments. In this report submittals will be referred to by the

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WEEKLY FIELD REPORT 1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 26 Oct. 1997

WR Nos. 34 (Cont'd)

project submittal number and item description. After review, submittal status or action is reported by assigning a letter code A, B, or C. These codes refer to the following actions:

A - Conforms with Requirements (CFC)
B - Minor Comments- Proceed, but resubmit action to comments
C - Revise and resubmit

During the period the following submittals for the respective projects were reviewed by the Resident Engineer (RE) and comments returned and reviewed with the project coordinator. Comments are also reviewed with the Project Engineer and QA as may be required for thorough understanding.

Submittal No.	Item Description	RE Disposition	Recommended Status
LCS			
301R2	Control & PLC Panels.	Comments	B
26R5	Pump Performance Curve Tightness Test	No Comment	A, Parsons Final Review
26R6	Pump Installation, Care and Maintenance	No Comment	A, Parsons Final Review
49R3	Solar Panel O&M Manual	Minor Comments	A, FDF May Add Safety Requirements
Phase 1			
35R5	Liner Penetration Boxes Resin Flat Stock & Rod Data	Minor Comment	A, with comment
36R3	Equipment List/Data Boom Mounted Compactor MD70 Loader w/Bucket (low ground pressure, 1.5 psi)	No Comment	A

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WR Nos. 34 (Cont'd)

During the period comments on several submittals were transmitted by CDC to the appropriate Contractor. Status of these transmittals is controlled by the CCM and CDC.

Design Clarifications and Modifications

LCS

DCN No. 65, prepared by FDF and approved by Parsons, allowed the use of 4-inch schedule 40 steel pipe filled with concrete as an alternative to the 6-inch schedule 40 pipe filled with concrete. The pipes will be used as exterior guard posts. Drawing G-00259 was affected.

DCN No. 66 , prepared by FDF and approved as noted by Parsons and GeoSyntec, provided an alternate seed mixture in accordance with ODOT 659.09, except that the permanent seed mixture may be performed up to October 31, 1997. The warranty period for satisfactory growth extends to 2-full growing seasons, as defined in the specification. Specification Section 02930 and VBS Submittal No. 64 were affected.

DCN No. 67, prepared and approved as noted by Parsons, provided recommendations for installing the westerly pier at the BSL. The pier did not get installed prior to placing the splash apron. Drawing G-00255 was affected.

DCN No. 68, prepared by FDF and approved as noted by Parsons, provided valve and piping changes related to COMH No. 1, No. 11 and No. 4. Drawings G-00258 and N-00322 were affected.

DCN No. 69, prepared by FDF and approved as noted by Parsons, provided pole and sensor signal line routing details. Drawings G-00059, G-00254, and G-00262 were affected.

DCN No. 70, prepared by FDF and approved FDF, provided electrical power feed modifications. Drawings E-00504 and E-00505 were affected.

DCN No. 71, prepared by FDF and approved by GeoSyntec, provided changes to the security fencing around the PLS due to new construction in the RIMIA area. Drawings S-00069 and S-00092 were affected.

RCI No. 034R, prepared by FDF and responded to by GeoSyntec, clarified that pipe embedment fill gradation submitted meet the requirements for granular filter material.

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 26 Oct. 1997

WR Nos. 34 (Cont'd)

Phase 1

DCN No. 35, prepared and approved as noted by GeoSyntec, changed the vertical and horizontal control points of the Impacted Material Haul Road/Cell Access Road as indicated on the attached Drawing G-00199, Sheet G-14. Drawing G-00074 and Specification Section 02200 were affected.

RCI No. 010R, prepared Petro and responded to by GeoSyntec, provided an approved as noted clarification as to what requirements ATV vehicles may be used to deploy the geomembrane liner over the GCL. Specification 02772 was affected.

Quality Control (QC)

QC continued construction monitoring, soil sampling and field and lab testing during the period. Work continued throughout the weekend to provide coverage of all applicable construction and process specific lab samples for shipment offsite. Discussions of QC activities and a summary of selected laboratory testing can be found in the Site Managers weekly report.

As part of Contractor Manufacturer Quality Control, Petro has submitted partial results of direct shear testing on GCL material. Other Manufacturer Quality Control Tests have been submitted under Submittal No. 60. GeoSyntec is also testing CQC samples for hydraulic conductivity and direct shear. Results of the GCL testing are being given to FDF as results become available and will be summarized by GeoSyntec in a separate document. Memorandums to FDF reporting results of test evaluations have been issued by GeoSyntec's Atlanta Office. GCL from lots not approved for deployment have not been used or deployed for the construction ongoing.

The following summary tables are tabulated history of the hydrostatic pressure testing of the LCS and Phase 1 transmission lines. They will be updated weekly. Pressure test logs contain detailed information on pressure and temperature readings and are on file at QC and the RE's office for review, if reader desires.

LCS Hydrostatic Pressure Summary Table

Test Date day/mo/yr	Pipe Diameter, in	Drawing No. (s)	Station Interval	Pressure Change, psi	Pass Fail
24/06/97	4	G-00261	8+05 to 11+20	+1	Pass
27/06/97	8	G-00261	8+05 to 11+20	+0.4	Pass

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WEEKLY FIELD REPORT 1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: LCS and Phase 1 Construction WEEK ENDING: 26 Oct. 1997

WR No. 34 (Cont'd)

LCS Hydrostatic Pressure Summary Table (Cont'd)

Test Date day/mo/yr	Pipe Diameter, in	Drawing No. (s)	Station Interval	Pressure Change, psi	Pass Fail
01/07/97	4	G-00261	11+20 to 14+06	0	Pass
09/07/97	8	G-00261	11+20 to 14+06	0	Pass
16/07/97	4	G-00261, G-00266	14+06 to 01+70	-1	Pass
17/07/97	8	G-00261, G-00266	14+06 to 01+70	0	Pass
23/07/97	COMH 5	G-00261	Approx. 8+05	0	Pass
28/0797	4	G-00266	01+70 to 04+00	0	Pass
29/07/97	8	G-00266	01+70 to 04+00	0	Pass
16/08/97	4	G-00266	04+00 to 07+00 *	0	Pass
15/08/97	8	G-00266	04+00 to 07+00 *	0	Pass
04/08/97	4	G-00266,G-00262	*07+00 to COMH 11	0	Pass
20/08/97	8	G-00266,G-00262	*07+00 to COMH 11	0	Pass
27/08/97	4	G-00262	COMH 11 to BSL**	0	Pass
02/08/97	Manholes LDS 01 and LDS 02		Not Installed	0	Pass
07/08/97	Manhole LDS 03		Not Installed	0	Pass
18/08/97	Manhole LCS 02		Not Installed	0	Pass
25/08/97	COMH 11	G-00262	Approx. 6+83	0	Pass
06/09/97	Manhole LCS 03		Not Installed	0***	Pass
19/09/97	COMH 1	G-00254	Approx. 0+50	0	Pass
19/09/97	COMH 4	G-00261	Approx. 3+00	0	Pass
08/09/97	4	G-00261 to G-00262	MH#5 to MH#11	0	Pass

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FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT 1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: LCS and Phase 1 Construction WEEK ENDING: 26 Oct. 1997

WR No. 34 (Cont'd)

LCS Hydrostatic Pressure Summary Table (Cont'd)

Test Date day/mo/yr	Pipe Diameter, in	Drawing No. (s)	Station Interval	Pressure Change, psi	Pass Fail
22/09/97	4	G-00254 & G-00261	0+50 to 3+00	0	Pass
24/09/97	8	G-00254 & G-00261	0+50 to 3+00	0	Pass
26/09	4	G-00261 & G-00262	MH#4 to MH#5	0	Pass
29/09	8	G-00261 7 G-00262	MH#4 to MH#5	0	Pass
14/10	6	M-00066	Monitoring Well No. 01	0	Pass
16/10	6	M-00066	Monitoring Well No. 02	0	Pass
16/10	6	M-00066	Monitoring Well No. 03	0	Pass

* Indicates ending or begining station identified approximate.
** Indicates tested HDPE pipe only. Test for open ended steel pipe not required.
*** Indicates Pressure Test Log not yet submitted, awaiting signatures.

Phase 1 Hydrostatic Pressure Test Summary

Test Date day/mo/yr	Pipe Diameter, in	Drawing No. (s)	Test Segment Name/Description	Pressure Change, psi	Pass Fail
12/09/97	6	G-00076	SG-01-06 (LDS 01 to Liner Box)	0.8*	Pass
13/09/97	6	G-00076	Solid pipe used with HMW 01	0**	Pass
17/09/97	6	Cell 2	Solid pipe used with HMW 02	0	Pass
16/09/97	10	G-00076	SG-01-10 (LDS 01 to Liner Box)	0	Pass
16/09/97	6	G-00076	SG-02-06 (LCS 01 RD to Liner Box)	0	Pass
16/09/97	6	G-00076	SG-03-06 (LCS 01 to Liner Box)	0	Pass
17/09/97	10	G-00076	SG-02-10 (LCS 01 RD to Liner Box)	0	Pass
17/09/97	10	G-00076	SC-03-10 (LCS 01 to Liner Box)	0	Pass

COPY TO: MJH, RAH, UAK, JCJ, WAZ, RLM, MWG, GKJ, JFM, KWC, REH,RMT,DKP,LRW,DBG,File PER: D.G.Bodine

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

1264

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 3.1

DESCRIPTION: LCS and Phase 1 Construction WEEK ENDING: 26 Oct. 1997

WR No. 34 (Cont'd)

Notes for Phase 1 Hydrostatic Pressure Table

* The 0.8 psi decrease in pressure occurred near the end of the test when a test pipe was bumped and a small leak was noted at the pipe thread connection. This Resident Engineer reviewed the data, talked to both QC and QA personnel observing the full test and approved or passed the test.

** This pipe was tested uncovered and in direct sunshine and pressure decreased and increased depending on change in temperature and expansion of the pipe. Pressure was kept on the pipe for a very long time and no leaks were noted. Between 11:35 AM and 17:10 PM the pressure decreased and increased with no net change in pressure (Pressure 104 psi). This RE passed the test and recommended that for all future tests, the pipe be covered, tested away from direct sunlight, or tested at a time when sunlight and temperature would not affect the test. Contractor, CQC and QA agreed to test early in the morning and away from direct sunlight.

Health and Safety

At the 22 October 1997 weekly OSDF Phase 1 meeting a discussion concerning the changing weather and its affect on personnel was held. For cold weather warmer clothing, worn in layers is recommended.

At the 21 October 1997 weekly LCS meeting a safety statement noting that "Unsafe attitudes are the seeds of an accident about to happen."

COPY TO: MJH, RAH, UAK, JCJ, WAZ, RLM, MWG, GKJ, JFM, KWC, REH, RMT, DKP, LRW, DBG, File PER: D.G.Bodine

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

1264

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 2 Nov. 1997

RESIDENT ENGINEER'S WEEKLY REPORT NOS. 35

The report period covered by Weekly Report No. 35 is from 27 Oct. 1997 through 02 Nov. 1997. The Resident Engineers Weekly Report for the LCS and Phase 1 Construction has been combined into one report. This report discusses the LCS and Phase 1 projects. Rick McGuire is the Construction Contract Manager (CCM) for the LCS project and Lou Wehlitz the CCM for the Phase 1 project. Don Goetz is a Construction Engineering Coordinator assigned to the Phase 1 project. Individuals should check their cc-mail or contact the CCMs for meeting dates and times.

Construction Progress

LCS

The LCS contractor, VBS continued performing completion activities for the LCS project. VBS attempted to complete forming and rebar installation for concrete pier and thrust block placement. Work was unsatisfactory and the concrete placement had to be rescheduled. Hydroseeding also began during the period, but was not completed. Electrical installation work for the LCS is inprogress. Current schedule targets 10 November 97 for begining of system testing. Results of hydrostatic testing of pipe and manholes are presented in the QC section of this report. Additional testing remains to be completed. Additional LCS construction progress and QC summaries can be found in the QC Site Managers weekly report.

Phase 1

During the report period Petro continued to work within Cell 1 on placement of GCL and Geomembrane. During the week approximately 86.130 ft^2 of GCL and 89,298.25 ft^2 of Geomembrane was placed. To date a total of approximately 155,220 ft^2 of GCL and 156,199.5 ft^2 of Geomembrane has been placed. Rain, beginning Saturday morning continuing off and on through out the weekend, and halted all geosynthetic work. Additional Phase 1 construction progress can be found in the QC Site Managers weekly report.

Construction Submittal Review

Construction submittals are controlled by Construction Document Control (CDC) and the FDF CCM. Each CCM has designated a project coordinator for comments. During the report period there were no submittals reviewed and returned to the coordinator by the RE. The Liner Penetration Boxes were received at the site by the contractor. Initial examination of these boxes indicated that the fixed end seals and 6-inch piping, where required, have not been installed by the shop fabricator. GeoSyntec understands that the contractor (Petro & GSI) have elected to install these in the field. This appears feasible except that the Type I box will require additional "field fabrication" to properly install the fixed end seal and pipe.

COPY TO: MJH, RAH, UAK, JCJ, WAZ, RLM, MWG, GKJ, JFM, KWC, REH,RMT,DKP,LRW, DBG,File PER: D.G.Bodine

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT 1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 2 Nov. 1997

WR Nos. 35 (Cont'd)

Design Clarifications and Modifications

LCS

DCN No. 60, prepared and approved by GeoSyntec, provided a minor change in Specification Section 15000 that would permit the Newport Model INFCP-410 controller to meet requirements. VBS Submittal No. 301 R2 is referenced.

RCI No. 035R, prepared by FDF and approved by Parsons, requested to used an original pipe support design that was modified in DCN No. 67. Drawing No. G-000255 and DCN No. 67 was referenced.

Phase 1

DCN No. 35, prepared and approved as noted by GeoSyntec, changed the vertical and horizontal control points of the Impacted Material Haul Road/Cell Access Road as indicated on the attached Drawing G-00199, Sheet G-14. Drawing G-00074 and Specification Section 02200 were affected.

RCI No. 012R, prepared by Petro and responded to by GeoSyntec, requested comment on the railroad tie stagger pattern at the Decon Pad. A 1/2 tie length (4.25 ft) stagger was recommended for each row.

RCI No. 013R, prepared by Petro and responded to by GeoSyntec, requested increasing the maximum rut depth to 1 1/2 inches on the subgrade surface prior to placing GCL. This was disapproved. It was explained that specifications were developed to comply with manufacturers recommendations and good engineering practice.

RCI No. 015R, prepared by FDF and responded to by GeoSyntec, requested approval of nighttime deployment of GCL and anchoring of the GML with only sand bags. The specification for deployment was referenced in GeoSyntec's response. Under special conditions, when approved by CQC, one panel of GCL may be deployed and covered overnight with plastic and sand bagged. Plastic may also be used to cover the subgrade to protect it from wet weather until it can be approved for GCL and GML placement.

RCI No. 016R, prepared by FDF and responded to by GeoSyntec, requested approval to use the ASV Positract MD-70 on the GCL. This equipment is a rubber track, low ground pressure vehicle. Its use was approved under the same conditions and plan noted in RCI No. 010R. Please note that manufacturers approval for use of this vehicle on the GCL is the first condition and to date GeoSyntec has not seen this written approval. FDF construction and FDF QA has been reminded of this.

COPY TO: MJH, RAH, UAK, JCJ, WAZ, RLM, MWG, GKJ, JFM, KWC, REH, RMT, DKP, LRW, DBG, File PER: D.G.Bodine

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT 1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 2 Nov. 1997

WR Nos. 35 (Cont'd)

Quality Control (QC)

QC continued construction monitoring, concentrating on geosynthetics installation, during the period. Discussions of QC activities and a summary of laboratory testing can be found in the Site Managers weekly report.

As part of Contractor Manufacturer Quality Control, Petro has submitted results of direct shear testing on GCL material. Other Manufacturer Quality Control Tests have been submitted under Submittal No. 60. GeoSyntec has also tested CQC samples for hydraulic conductivity and direct shear. Results of the GCL testing have been given to FDF as results become available and are being summarized by GeoSyntec in a separate document. Memorandums to FDF reporting results of test evaluations have been issued by GeoSyntec's Atlanta Office. GCL from lots not approved for deployment have not been used or deployed for the construction ongoing.

Summary Tables 1 and 2 are tabulated history of the hydrostatic pressure testing of the LCS and Phase 1 transmission lines, respectively. They will be updated weekly and attached to this report. Pressure test logs contain detailed information on pressure and temperature readings and are on file at QC and the RE's office for review. To date, except for connecting joints, the LCS line from COMH No. 1 to the BSL has been pressure tested.

Health and Safety

This time of year days are shorter and it is dark when most Fernald workers come and go to work. We should be more careful driving to work, especially through the residential areas now that the north access road is open.

At the 28 October 1997 weekly LCS meeting the safety topic discussed the need to take extra time traveling to work in times of poor weather, especially during winter conditions.

Attachments: Hydrostatic Pressure Testing Tables

COPY TO: MJH, RAH, UAK, JCJ, WAZ, RLM, MWG, GKJ, JFM, KWC, REH, RMT, DKP, LRW, DBG, File PER: D.G.Bodine D. Bodine

Attachment

Table 1 - LCS Hydrostatic Pressure Test Summary

Test Date day/mo/yr	Pipe Diameter, in	Drawing No. (s)	Station Interval	Pressure Change, psi	Pass Fail
24/06/97	4	G-00261	8+05 to 11+20	+1	Pass
27/06/97	8	G-00261	8+05 to 11+20	+0.4	Pass
01/07/97	4	G-00261	11+20 to 14+06	0	Pass
09/07/97	8	G-00261	11+20 to 14+06	0	Pass
16/07/97	4	G-00261, G-00266	14+06 to 01+70	-1	Pass
17/07/97	8	G-00261, G-00266	14+06 to 01+70	0	Pass
23/07/97	COMH 5	G-00261	Approx. 8+05	0	Pass
28/0797	4	G-00266	01+70 to 04+00	0	Pass
29/07/97	8	G-00266	01+70 to 04+00	0	Pass
16/08/97	4	G-00266	04+00 to 07+00 *	0	Pass
15/08/97	8	G-00266	04+00 to 07+00 *	0	Pass
04/08/97	4	G-00266,G-00262	*07+00 to COMH 11	0	Pass
20/08/97	8	G-00266,G-00262	*07+00 to COMH 11	0	Pass
27/08/97	4	G-00262	COMH 11 to BSL**	0	Pass
02/08/97	Manholes LDS 01 and LDS 02		Not Installed	0	Pass
07/08/97	Manhole LDS 03		Not Installed	0	Pass
18/08/97	Manhole LCS 02		Not Installed	0	Pass
25/08/97	COMH 11	G-00262	Approx. 6+83	0	Pass
06/09/97	Manhole LCS 03		Not Installed	0***	Pass
19/09/97	COMH 1	G-00254	Approx. 0+50	0	Pass
19/09/97	COMH 4	G-00261	Approx. 3+00	0	Pass
08/09/97	4	G-00261 to G-00262	MH#5 to MH#11	0	Pass
22/09/97	4	G-00254 & G-00261	0+50 to 3+00	0	Pass
24/09/97	8	G-00254 & G-00261	0+50 to 3+00	0	Pass
26/09	4	G-00261 & G-00262	MH#4 to MH#5	0	Pass
29/09	8	G-00261 7 G-00262	MH#4 to MH#5	0	Pass

Table 1 - LCS Hydrostatic Pressure Summary (Cont'd)

Test Date day/mo/yr	Pipe Diameter, in	Drawing No. (s)	Station Interval	Pressure Change, psi	Pass Fail
14/10	6	M-00066	Monitoring Well No. 01	0	Pass
16/10	6	M-00066	Monitoring Well No. 02	0	Pass
16/10	6	M-00066	Monitoring Well No. 03	0	Pass

* Indicates ending or begining station identified approximate.
** Indicates tested HDPE pipe only. Test for open ended steel pipe not required.
*** Indicates Pressure Test Log not yet submitted, awaiting signatures.

Table 2 - Phase 1 Hydrostatic Pressure Test Summary

Test Date day/mo/yr	Pipe Diameter, in	Drawing No. (s)	Test Segment Name/Description	Pressure Change, psi	Pass Fail
12/09/97	6	G-00076	SG-01-06 (LDS 01 to Liner Box)	0.8*	Pass
13/09/97	6	G-00076	Solid pipe used with HMW 01	0**	Pass
17/09/97	6	Cell 2	Solid pipe used with HMW 02	0	Pass
16/09/97	10	G-00076	SG-01-10 (LDS 01 to Liner Box)	0	Pass
16/09/97	6	G-00076	SG-02-06 (LCS 01 RD to Liner Box)	0	Pass
16/09/97	6	G-00076	SG-03-06 (LCS 01 to Liner Box)	0	Pass
17/09/97	10	G-00076	SG-02-10 (LCS 01 RD to Liner Box)	0	Pass
17/09/97	10	G-00076	SC-03-10 (LCS 01 to Liner Box)	0	Pass

Notes for Phase 1 Hydrostatic Pressure Table

* The 0.8 psi decrease in pressure occurred near the end of the test when a test pipe was bumped and a small leak was noted at the pipe thread connection. This Resident Engineer reviewed the data, talked to both QC and QA personnel observing the full test and approved or passed the test.

** This pipe was tested uncovered and in direct sunshine and pressure decreased and increased depending on change in temperature and expansion of the pipe. Pressure was kept on the pipe for a very long time and no leaks were noted. Between 11:35 AM and 17:10 PM the pressure decreased and increased with no net change in pressure (Pressure 104 psi). This RE passed the test and recommended that for all future tests, the pipe be covered, tested away from direct sunlight, or tested at a time when sunlight and temperature would not affect the test. Contractor, CQC and QA agreed to test early in the morning and away from direct sunlight.

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT 1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GC0166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 9 Nov. 1997

RESIDENT ENGINEER'S WEEKLY REPORT NOS. 36

The report period covered by Weekly Report No. 36 is from 03 Nov. 1997 through 09 Nov. 1997. The Resident Engineers Weekly Report for the LCS and Phase 1 Construction has been combined into one report. This report discusses the LCS and Phase 1 projects. Rick McGuire is the Construction Contract Manager (CCM) for the LCS project and Lou Wehlitz the CCM for the Phase 1 project. Don Goetz is a Construction Engineering Coordinator assigned to the Phase 1 project. Individuals should check their cc-mail or contact the CCMs for meeting dates and times.

Construction Progress

LCS

The LCS contractor, VBS continued performing completion activities for the LCS project. VBS completed concrete placement for the BSL concrete pier and thrust block and began forming and rebar placement for the LCS Manholes. Some Hydroseeding continued, but placement of permanent seed is still not complete and not in conformance with requirements. However, the warranty does extend for two growing seasons. Electrical installation work for the LCS is continuing. Current schedule targets 10 November 97 for begining of system testing, but this is believed to be delayed for at least one week. Results of hydrostatic testing of pipe and manholes are presented in the QC section of this report. A leak in the 6-inch LTS gravity line is present and the contractor does not appear, to this RE, to have the knowledge or a plan to properly test, isolate and retest the underground lines to properly complete the project, even with FDF direction. Considerable testing remains to be completed. Additional LCS construction progress and QC summaries can be found in the QC Site Managers weekly report.

Phase 1 185 880 QC Corrected DGB QC Corrected 185,156

During the report period Petro continued to work within Cell 1 on placement of GCL and Geomembrane. During the week approximately 30,660 ft^2 of GCL and 27506.5 ft^2 of GML was placed. To date a total of approximately 186,210 ft^2 of GCL and 183,706 ft^2 of GML has been placed. This is approximately 50% of the secondary liner. Rain occurred on Monday and again Thursday night and Friday morning which significantly affected construction progress. Partial installation of the Gravity Inlet Structures was also completed during the report period. An updated summary of the GCL approval for use is provided in the QC section of this report. This summary, except for the memorandum dates, was given to, and discussed, with FDF on 05 November 1997. Additional Phase 1 construction progress can be found in the QC Site Managers weekly report.

COPY TO: MJH, RAH, JAK, JCL, WAZ, RLM, MWG, GKL, JFM, KWC PER: D.G.Bodine D. Bodine

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT 1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 9 Nov. 1997

WR Nos. 36 (Cont'd)

Construction Submittal Review

Construction submittals are controlled by Construction Document Control (CDC) and the FDF CCM. Each CCM has designated a project coordinator for comments. During the report period there were no

Submittal No	Item Description	RE Disposition	Recommended Status
Phase 1			
67	Installer Certificate of Subgrade Approval	No Comments	A
68	Temporary Plastic Covering	No Comments	A

There were no LCS submittals received, reviewed or returned to the coordinator by the RE. Only record submittals or as-built submittals are expected to be received since the project is now in the final stages of completion.

Design Clarifications and Modifications

LCS

RCI No. 036R, prepared by VBS and disapproved by GeoSyntec, requested to eliminate the 15 psi pressure test for the LTS 10-inch containment pipe and replace it with an undefined static test. A detailed response was prepared indicating how the specified pressure test can be performed. Discussion was also presented at the LCS weekly meeting held on Thursday, 06 November 1997.

Phase 1

Copies of RCI Nos. 014R and 017R were received at the end the period. RCI No. 017R requested reducing the testing time for each vacuum box test from 20 seconds to 15 seconds. This has been discussed with FDF and the contractor and will be approved as soon as an original is obtained for signature. RCI No. 014R, prepared by Petro, requested deleting the ambient temperature requirements for placement of granular drainage material. These requirements will be reviewed and revised but not deleted. A response (DCN) will be prepared during the next report period.

COPY TO: MJH, RAH, UAK, JCJ, WAZ, RLM, MWG, GKJ, JFM, KWC, REH, RMT, DKP, LRW, DBO, File PER: D.G.Bodine

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT - 1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 9 Nov. 1997

WR Nos. 36 (Cont'd)

Quality Control (QC)

QC continued construction monitoring, concentrating on geosynthetics installation, during the period. Discussions of QC activities and a summary of laboratory testing can be found in the Site Managers weekly report.

As part of Contractor Manufacturer Quality Control, Petro has submitted results of direct shear testing on GCL material. Other Manufacturer Quality Control Tests have been submitted under Submittal No. 60. GeoSyntec has also tested CQC samples for hydraulic conductivity and direct shear. Results of the GCL testing have been given to FDF as results become available and are being summarized by GeoSyntec in a separate document. Memorandums to FDF reporting results of test evaluations have been issued by GeoSyntec's Ken Cargill. A summary of the GCL approval and disapproval status is provided in Table 1 attached to this report. As indicated above, this information has been previously given to and discussed with FDF. Through the end of the report period only GCL from lots approved for deployment have been used or deployed for the construction ongoing.

Summary Tables 2 and 3 are tabulated history of the hydrostatic pressure testing of the LCS and Phase I transmission lines, respectively. They will be updated weekly and attached to this report. Pressure test logs contain detailed information on pressure and temperature readings and are on file at QC and the RE's office for review. No completed passed pressure tests were performed during the period by VBS for the LCS project.

Health and Safety

At the 06 November 1997 weekly LCS meeting the safety topic discussed was the proper and safe procedures for descending a ladder. Currently, completion of the LCS project does require workmen to go in and out of the Manholes and PLS. A brief discussion was also held concerning some of the safety requirements that will be needed to complete the work inside of the manholes.

Attachments: GCL Approval/Disapproval Status Table and Hydrostatic Pressure Testing Tables

COPY TO: MJH, RAH, UAK, JCJ, WAZ, RLM, MWG, GKJ, JFM, KWC PER: D.G.Bodine

REH,RMT,DKP,LRW,DBG, File

WR Attachment

TABLE 1

Summary of GCL Approval/Disapproval by Lot Number and GCL QA Test Number
Phase 1 Construction

GCL Test No.	Lot No.	No. of Rolls	Approval	Disapproval	Memo Date
GCL-10	97082812	34		X	10 Oct. 97
GCL-15/PET06	97090202	9		X	10 Oct. 97
GCL-02	97081502	6		X	10 Nov. 97
GCL-16	97090502	3		X **	10 Nov. 97
GCL-20	97081302	1		X **	10 Nov. 97
			** not tested per FDF Direction		
GCL-01	97081402	27	X		10 Oct. 97
GCL-03	97062902	6	X		10 Nov. 97
GCL-04	97082012	28	X		07 Nov. 97
GCL-05	97082102	6	X		30 Oct. 97
GCL-06	97082502	16	Still Evaluating and Testing		
GCL-07	97082302	18	X		10 Oct. 97
GCL-08	97082602	13	ON HOLD Pending FDF Official Decision		
GCL-09	97082702	27	X		17 Oct. 97
GCL-11	97090102	38	ON HOLD Pending FDF Official Decision		
GCL-12	97082802	16	X		15 Oct. 97
GCL-13	97090302	21	X		10 Oct. 97
GCL-14	97090402	18	X		10 Oct. 97
GCL-17	97090512	14	X		15 Oct. 97
GCL-18	97090612	4	Still Evaluating and Testing		
GCL-19	97090702	13	X		21 Oct. 97
GCL-21	97080802	8	X		30 Oct. 97
GCL-22 / GCL-23	97101002	*	X Pending receipt and approval of Manufactures QC tests and Certifications		

* Not Shipped Todate and Roll 40698 Not Approved

GCL-24 / GCL-25 Not Shipped and Testing/Evaluation In progress

WR Attachment

Table 2 - LCS Hydrostatic Pressure Test Summary

Test Date day/mo/yr	Pipe Diameter, in	Drawing No. (s)	Station Interval	Pressure Change, psi	Pass Fail
24/06/97	4	G-00261	8+05 to 11+20	+1	Pass
27/06/97	8	G-00261	8+05 to 11+20	+0.4	Pass
01/07/97	4	G-00261	11+20 to 14+06	0	Pass
09/07/97	8	G-00261	11+20 to 14+06	0	Pass
16/07/97	4	G-00261, G-00266	14+06 to 01+70	-1	Pass
17/07/97	8	G-00261, G-00266	14+06 to 01+70	0	Pass
23/07/97	COMH 5	G-00261	Approx. 8+05	0	Pass
28/0797	4	G-00266	01+70 to 04+00	0	Pass
29/07/97	8	G-00266	01+70 to 04+00	0	Pass
16/08/97	4	G-00266	04+00 to 07+00 *	0	Pass
15/08/97	8	G-00266	04+00 to 07+00 *	0	Pass
04/08/97	4	G-00266,G-00262	*07+00 to COMH 11	0	Pass
20/08/97	8	G-00266,G-00262	*07+00 to COMH 11	0	Pass
27/08/97	4	G-00262	COMH 11 to BSL**	0	Pass
02/08/97	Manholes LDS 01 and LDS 02		Not Installed	0	Pass
07/08/97	Manhole LDS 03		Not Installed	0	Pass
18/08/97	Manhole LCS 02		Not Installed	0	Pass
25/08/97	COMH 11	G-00262	Approx. 6+83	0	Pass
06/09/97	Manhole LCS 03		Not Installed	0***	Pass
19/09/97	COMH 1	G-00254	Approx. 0+50	0	Pass
19/09/97	COMH 4	G-00261	Approx. 3+00	0	Pass
08/09/97	4	G-00261 to G-00262	MH#5 to MH#11	0	Pass
22/09/97	4	G-00254 & G-00261	0+50 to 3+00	0	Pass
24/09/97	8	G-00254 & G-00261	0+50 to 3+00	0	Pass
26/09	4	G-00261 & G-00262	MH#4 to MH#5	0	Pass
29/09	8	G-00261 7 G-00262	MH#4 to MH#5	0	Pass

Table 2 - LCS Hydrostatic Pressure Summary (Cont'd)

Test Date day/mo/yr	Pipe Diameter, in	Drawing No. (s)	Station Interval	Pressure Change, psi	Pass Fail
14/10	6	M-00066	Monitoring Well No. 01	0	Pass
16/10	6	M-00066	Monitoring Well No. 02	0	Pass
16/10	6	M-00066	Monitoring Well No. 03	0	Pass

* Indicates ending or begining station identified approximate.
** Indicates tested HDPE pipe only. Test for open ended steel pipe not required.
*** Indicates Pressure Test Log not yet submitted, awaiting signatures.

Table 3 - Phase 1 Hydrostatic Pressure Test Summary

Test Date day/mo/yr	Pipe Diameter, in	Drawing No. (s)	Test Segment Name/Description	Pressure Change, psi	Pass Fail
12/09/97	6	G-00076	SG-01-06 (LDS 01 to Liner Box)	0.8*	Pass
13/09/97	6	G-00076	Solid pipe used with HMW 01	0**	Pass
17/09/97	6	Cell 2	Solid pipe used with HMW 02	0	Pass
16/09/97	10	G-00076	SG-01-10 (LDS 01 to Liner Box)	0	Pass
16/09/97	6	G-00076	SG-02-06 (LCS 01 RD to Liner Box)	0	Pass
16/09/97	6	G-00076	SG-03-06 (LCS 01 to Liner Box)	0	Pass
17/09/97	10	G-00076	SG-02-10 (LCS 01 RD to Liner Box)	0	Pass
17/09/97	10	G-00076	SC-03-10 (LCS 01 to Liner Box)	0	Pass

Notes for Phase 1 Hydrostatic Pressure Table

* The 0.8 psi decrease in pressure occurred near the end of the test when a test pipe was bumped and a small leak was noted at the pipe thread connection. This Resident Engineer reviewed the data, talked to both QC and QA personnel observing the full test and approved or passed the test.

** This pipe was tested uncovered and in direct sunshine and pressure decreased and increased depending on change in temperature and expansion of the pipe. Pressure was kept on the pipe for a very long time and no leaks were noted. Between 11:35 AM and 17:10 PM the pressure decreased and increased with no net change in pressure (Pressure 104 psi). This RE passed the test and recommended that for all future tests, the pipe be covered, tested away from direct sunlight, or tested at a time when sunlight and temperature would not affect the test. Contractor, CQC and QA agreed to test early in the morning and away from direct sunlight.

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT 1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GO0166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 23 Nov. 1997

RESIDENT ENGINEER'S WEEKLY REPORT NOS. 37 and 38

The report period covered by Weekly Report Nos. 37 and 38 is from 10 Nov. 1997 through 23 Nov. 1997. The Resident Engineers Weekly Report for the LCS and Phase 1 Construction has been combined into one report. This report discusses the LCS and Phase 1 projects. Rick McGuire is the Construction Contract Manager (CCM) for the LCS project and Lou Wehlitz the CCM for the Phase 1 project. Don Goetz is a Construction Engineering Coordinator assigned to the Phase 1 project. Individuals should check their cc-mail or contact the CCMs for meeting dates and times.

Construction Progress

LCS

The LCS contractor, VBS, continued performing completion activities for the LCS project. A punch list of remaining completion items has been prepared by FDF and is updated weekly. On November 10 and 11, 1997 a walkdown was conducted for the LCS project. Individuals from FDF, Parsons, GeoSyntec and VBS took part. The most current copy of the punch list report may be obtained by contacting the CCM. All items on the list are important, however, some critical items still need mentioning. The completion of hydrostatic pressure testing of the LTS gravity line and drainage lines from Cell 1 remain on the critical path to project completion. Leaks have been detected in the LTS carrier line between the PLS and LCS Manhole No. 3. One leak has been located and repaired. A second leak is in the process of being located. The entire line will be retested after the leaks are repaired. Other hydrostatic testing has yet to be performed. Concrete cover pads for the LCS manholes, with the exception of manhole and cleanout covers, were also installed during the period. Testing of the piping beneath the pads was not completed prior to placement of the pads, as previously recommended during weekly meetings and in weekly reports. Additional LCS construction progress and QC summaries can be found in the QC Site Managers weekly report.

Phase 1

During the two week report period Petro continued to work within Cell 1 on placement of GCL, GML, geotextile cushion and LDS drainage material. During the period approximately 167,163.5 ft^2 of GCL and a preliminary 159, 414 ft^2 of GML was placed for the secondary liner system. To date the totals for the secondary liner system are approximately 353,043.5 ft^2 of GCL and a preliminary 344,600 ft^2 of GML. Three liner penetration boxes were also installed as part of the secondary liner system. The boxes were successfully air tested after installation.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 23 Nov. 1997

WR Nos. 37 and 38 (Cont'd)

Placement of LDS drainage layer and LDS drainage corridor stone also began. The contractors plan to use conveyors to transport the stone over the intercell berm was not successful and the backup plan of using trucks was then used. This along with other placement techniques was recommended by GeoSyntec during the pre-construction meeting for the granular drainage material placement. Primary liner system placed began at the end of the report period. Additional Phase 1 construction progress can be found in the QC Site Managers weekly report.

Construction Submittal Review

Construction submittals are controlled by Construction Document Control (CDC) and the FDF CCM. Each CCM has designated a project coordinator for comments. The submittals reviewed are summarized below.

	Submittal No	Item Description	RE Disposition	Recommended Status
LCS				
	26R6	O&M and Parts List for PLS Pumps	No Comments	A
Phase 1				
	67R1&R2	Installer Certificate of Subgrade (Clay)Approval	No Comments	A
	35R6	Liner Penetration Boxes OC Tests & Certs	No Comments	A
	35R7	Liner Penetration Boxes Installation Procedures	No Comments	A
	35R8	Liner Penetration Boxes	No Comments	A
	24R8	Installer Capabilities, Resumes, Completed Facilities Lists, Warranty & Mfg. Approval Installation Schedule	Minor Comments	A
	63R1	Tensiometer Calibration	No Comments	A

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT 1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 23 Nov. 1997

WR Nos. 37 and 38 (Cont'd)

Design Clarifications and Modifications

LCS

DCN No. 072, prepared by FDF and approved as noted by Parsons, provided design details to install and wire an alarm light and horn at the AWWT Facility. They would alarm on the same conditions as LA-110 and LA-111B. Drawings M-00062, N-00345 and Control Interface Drawing D 963-2 are affected.

RCI No. 037R, prepared by VBS and responded to by Parsons, provided clarification on modifying the base plate for the 8-inch containment pipe support pad at the BSL. Drawing G-00410 and DCN 067 were referenced.

Phase 1

DCN No. 037, prepared by Petro and responded to by GeoSyntec, disapproved a proposed liner anchor trench installation sequence and provided and alternative liner system anchor trench detail. Drawing No G-00080 was referenced.

DCN No. 038 has been canceled or voided.

DCN No. 039, prepared by Petro and responded to by GeoSyntec, approved as noted the use of an alternate to sewing filter, cushion, and supplemental cushion nonwoven geotextiles. The alternate was heat seaming, approved under very specific conditions. The alternate is no longer being used for the cushions because it proved not to be productive.

DCN No. 040, prepared by Petro, requested a change to the vacuum box test time period, has been voided.

DCN No. 041, prepared by FDF and addressed by GeoSyntec, requested waiving the 10,000,000 ft^2 requirement for the geomembrane installer's superintendent. After GeoSyntec's review of the installers qualifications it was determined that all installers personnel met the requirements and therefore a DCN is not needed. The DCN has been voided.

DCN No. 042, prepared by FDF and approved as noted by GeoSyntec, requested approval to drive fence line posts where the posts are located within rip-rapped areas, such as for the Sedimentation Basin Spillway (a temporary structure). If FDF wants to drive posts for permanent rip-rapped areas then they will need to consider an alternate detail. Drawing S-00088 was affected.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

1264

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 23 Nov. 1997

WR Nos. 37 and 38 (Cont'd)

Phase 1

DCN No 043, prepared by Petro and approved as noted by GeoSyntec, discussed the placement of granular drainage material during cold weather conditions. Specification Section 02714 was affected.

DCN No. 044, prepared by Petro and approved as noted by GeoSyntec, indicated that a shorter length HDPE trial seam can be used if it is demonstrated that the welder being used goes through its full cycle of operation. The seam length will vary depending on welder type and condition, and environmental conditions such as air and liner temperatures. Specification Section 02770 was affected.

RCI No. 013R has been changed to DCN No. 045. See WR No. 35 for discussion of RCI 013R.
RCI No. 014R has been changed to DCN No. 043.
RCI No. 016R has been changed to DCN No. 046. See WR No. 35 for discussion of RCI 016R.
RCI No. 019R has been changed to DCN No. 044.

Quality Control (QC)

QC continued construction monitoring, concentrating on geosynthetics installation. Discussions of QC activities and a summary of laboratory testing can be found in the Site Managers weekly report.

As part of Contractor Manufacturer Quality Control, Petro has submitted results of direct shear testing on GCL material. Other Manufacturer Quality Control Tests have been submitted informally and under Submittal No. 60. The informal submittal is a partial submittal of Manufacturer Quality Control Tests for GCL lots recently produced for delivery to this site. Partial shipments have been received. GeoSyntec has also tested CQC samples for hydraulic conductivity and direct shear. Results of the GCL testing have been given to FDF as results become available and are being summarized by GeoSyntec in a separate document. Memorandums to FDF reporting results of test evaluations have been issued by GeoSyntec's Ken Cargill. A summary of the GCL approval and disapproval status is provided in Table 1 attached to this report. As indicated above, this information has been previously given to and discussed with FDF. Through the end of the report period only GCL from lots approved for deployment have been used or deployed for the construction ongoing.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT - 1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 23 Nov. 1997

WR Nos. 37 and 38 (Cont'd)

Summary Tables 2 and 3 are tabulated history of the hydrostatic pressure testing of the LCS and Phase 1 transmission lines, respectively. They will be updated weekly and attached to this report. Pressure test logs contain detailed information on pressure test readings and are on file at QC and the RE's office for review. No completed passed pressure tests were performed during the period by VBS for the LCS project.

Health and Safety

At the 06 November 1997 weekly LCS meeting the safety topic discussed was the proper and safe procedures for descending a ladder. Currently, completion of the LCS project does require workmen to go in and out of the Manholes and PLS. A brief discussion was also held concerning some of the safety requirements that will be needed to complete the work inside of the manholes.

Attachments: GCL Approval/Disapproval Status Table and Hydrostatic Pressure Testing Tables

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REH,RMT,DKP,LRW,DBG, File

WR Attachment

TABLE 1

Summary of GCL Approval/Disapproval by Lot Number and GCL QA Test Number
Phase 1 Construction

GCL Test No.	Lot No.	No. of Rolls	Approval	Disapproval	Memo Date
GCL-10	97082812	34		X	10 Oct. 97
GCL-15/PET06	97090202	9		X	10 Oct. 97
GCL-02	97081502	6		X	10 Nov. 97
GCL-06	97082502	16		X	14 Nov. 97
GCL-16	97090502	3		X **	10 Nov. 97
GCL-20	97081302	1		X **	10 Nov. 97
			** not tested per FDF Direction		
GCL-01	97081402	27	X		10 Oct. 97
GCL-03	97062902	6	X		10 Nov. 97
GCL-04	97082012	28	X		07 Nov. 97
GCL-05	97082102	6	X		30 Oct. 97
GCL-07	97082302	18	X		10 Oct. 97
GCL-08	97082602	13	ON HOLD Pending FDF Official Decision		
GCL-09	97082702	27	X		17 Oct. 97
GCL-11	97090102	38	ON HOLD Pending FDF Official Decision		
GCL-12	97082802	16	X		15 Oct. 97
GCL-13	97090302	21	X		10 Oct. 97
GCL-14	97090402	18	X		10 Oct. 97
GCL-17	97090512	14	X		15 Oct. 97
GCL-18	97090612	4	X		18 Nov.97
GCL-19	97090702	13	X		21 Oct. 97
GCL-21	97080802	8	X		30 Oct. 97
GCL-22 / GCL-23	97101002	*	X Pending receipt and approval of Manufactures QC tests and Certifications		
* Roll 40698 Not Approved					
GCL-24 / GCL-25	97102302		X Pending receipt and approval of Manufactures QC tests and Certifications		
GCL-26 / GCL-27	97102402		X Pending receipt and approval of Manufactures QC tests and Certifications		

WR Attachment

Table 2 - LCS Hydrostatic Pressure Test Summary

Test Date day/mo/yr	Pipe Diameter, in	Drawing No. (s)	Station Interval	Pressure Change, psi	Pass Fail
24/06/97	4	G-00261	8+05 to 11+20	+1	Pass
27/06/97	8	G-00261	8+05 to 11+20	+0.4	Pass
01/07/97	4	G-00261	11+20 to 14+06	0	Pass
09/07/97	8	G-00261	11+20 to 14+06	0	Pass
16/07/97	4	G-00261, G-00266	14+06 to 01+70	-1	Pass
17/07/97	8	G-00261, G-00266	14+06 to 01+70	0	Pass
23/07/97	COMH 5	G-00261	Approx. 8+05	0	Pass
28/0797	4	G-00266	01+70 to 04+00	0	Pass
29/07/97	8	G-00266	01+70 to 04+00	0	Pass
16/08/97	4	G-00266	04+00 to 07+00 *	0	Pass
15/08/97	8	G-00266	04+00 to 07+00 *	0	Pass
04/08/97	4	G-00266,G-00262	*07+00 to COMH 11	0	Pass
20/08/97	8	G-00266,G-00262	*07+00 to COMH 11	0	Pass
27/08/97	4	G-00262	COMH 11 to BSL**	0	Pass
02/08/97	Manholes LDS 01 and LDS 02		Not Installed	0	Pass
07/08/97	Manhole LDS 03		Not Installed	0	Pass
14/08/97	Manhole LCS 01		Not Installed	0	Pass
18/08/97	Manhole LCS 02		Not Installed	0	Pass
25/08/97	COMH 11	G-00262	Approx. 6+83	0	Pass
06/09/97	Manhole LCS 03		Not Installed	0***	Pass
19/09/97	COMH 1	G-00254	Approx. 0+50	0	Pass
19/09/97	COMH 4	G-00261	Approx. 3+00	0	Pass
08/09/97	4	G-00261 to G-00262	MH#5 to MH#11	0	Pass
22/09/97	4	G-00254 & G-00261	0+50 to 3+00	0	Pass
24/09/97	8	G-00254 & G-00261	0+50 to 3+00	0	Pass
26/09	4	G-00261 & G-00262	MH#4 to MH#5	0	Pass
29/09	8	G-00261 7 G-00262	MH#4 to MH#5	0	Pass

Table 2 - LCS Hydrostatic Pressure Summary (Cont'd)

Test Date day/mo/yr	Pipe Diameter, in	Drawing No. (s)	Station Interval	Pressure Change, psi	Pass Fail
14/10	6	M-00066	Monitoring Well No. 01	0	Pass
16/10	6	M-00066	Monitoring Well No. 02	0	Pass
16/10	6	M-00066	Monitoring Well No. 03	0	Pass

* Indicates ending or begining station identified approximate.
** Indicates tested HDPE pipe only. Test for open ended steel pipe not required.
*** Indicates Pressure Test Log not yet submitted, awaiting signatures.

Table 3 - Phase 1 Hydrostatic Pressure Test Summary

Test Date day/mo/yr	Pipe Diameter, in	Drawing No. (s)	Test Segment Name/Description	Pressure Change, psi	Pass Fail
12/09/97	6	G-00076	SG-01-06 (LDS 01 to Liner Box)	0.8*	Pass
13/09/97	6	G-00076	Solid pipe used with HMW 01	0**	Pass
17/09/97	6	Cell 2	Solid pipe used with HMW 02	0	Pass
16/09/97	10	G-00076	SG-01-10 (LDS 01 to Liner Box)	0	Pass
16/09/97	6	G-00076	SG-02-06 (LCS 01 RD to Liner Box)	0	Pass
16/09/97	6	G-00076	SG-03-06 (LCS 01 to Liner Box)	0	Pass
17/09/97	10	G-00076	SG-02-10 (LCS 01 RD to Liner Box)	0	Pass
17/09/97	10	G-00076	SC-03-10 (LCS 01 to Liner Box)	0	Pass

Notes for Phase 1 Hydrostatic Pressure Table

All tests performed on Phase 1 Pipe Segments prior to installation. All pipes will be connected to VBS piping and to Liner Penetration Boxes (except HMW) and may require additional pressure testing.

* The 0.8 psi decrease in pressure occurred near the end of the test when a test pipe was bumped and a small leak was noted at the pipe thread connection. This Resident Engineer reviewed the data, talked to both QC and QA personnel observing the full test and approved or passed the test.

** This pipe was tested uncovered and in direct sunshine and pressure decreased and increased depending on change in temperature and expansion of the pipe. Pressure was kept on the pipe for a very long time and no leaks were noted. Between 11:35 AM and 17:10 PM the pressure decreased and increased with no net change in pressure (Pressure 104 psi). This RE passed the test and recommended that for all future tests, the pipe be covered, tested away from direct sunlight, or tested at a time when sunlight and temperature would not affect the test. Contractor, CQC and QA agreed to test early in the morning and away from direct sunlight.

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT 1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 30 Nov. 1997

RESIDENT ENGINEER'S WEEKLY REPORT NO. 39

The report period covered by Weekly Report No. 39 is from 24 Nov. 1997 through 30 Nov. 1997. The Resident Engineers Weekly Report for the LCS and Phase 1 Construction has been combined into one report. This report discusses the LCS and Phase 1 projects. Rick McGuire is the Construction Contract Manager (CCM) for the LCS project and Lou Wehlitz the CCM for the Phase 1 project. Don Goetz is a Construction Engineering Coordinator assigned to the Phase 1 project. Individuals should check their cc-mail or contact the CCMs for meeting dates and times.

Construction Progress

LCS

The LCS contractor, VBS, continued performing completion activities for the LCS project. Wise Construction is also assisting VBS and FDF. The punch list of remaining completion items has been prepared by FDF and is updated periodically by the CCM. The most current copy of the punch list report may be obtained by contacting the CCM. All items on the list are important, however, the most critical item on the path of project completion is finding leak locations, repairing and retesting of the LTS gravity line and drainage lines from Cell 1. Progress is being made through the use of the in-pipe video camera. Leaks have been detected, located and repaired in the LTS carrier line (6-inch) between the PLS and LCS Manhole No. 3. However, final pressure testing of the 6-inch carrier and 10-inch containment have not been started. It is expected to take place during the next report period.. Leaks have also been detected in some of the VBS piping from the cell berm to the manhole. Work is inprogress to detect and eventually repair the leaks. Additional information on the status of leak repair and hydrostatic testing may be obtained by contacting FDF or this RE.

Phase 1

During the report period Petro continued to work within Cell 1 on placement of GCL, GML, geotextile cushion and LDS drainage material. Placement of GCL and GML for the secondary liner system was completed during the previous report period. Contractor and CQC testing/inspection was still inprogress along with anchor trench backfilling. To date the totals for the secondary liner system are approximately 357,590.5 ft^2 of GCL and 350,499.5 ft^2 of GML. The GCL total includes repair and replacement panels. A leak in the 10-inch LCS pipe from the liner penetration box to west of the cell berm has been detected. The coupling directly behind the box will be checked on 1 December 1997. The pipe beneath the berm was pressure tested prior to installation.

Placement of LDS drainage layer stone (78's) and LDS drainage corridor (57's) stone continued... At the end of the period the contractor was working on the west slope of the cell. Surveyed elevations and layer

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WR No. 39 (Cont'd)

thickness determinations made by the project licensed surveyor are being reviewed by the RE prior to placement of GML for the primary liner system. Some minor grading of the stone is still required prior to deploying the GCL, however, re-surveying is generally not necessary. Installation of the primary liner system has continued. Through the end of the report period approximately 184,365 ft^2 GCL and 185,030 ft^2 of GML were placed. Additional Phase 1 construction progress can be found in the QC Site Managers weekly report.

Construction Submittal Review

Construction submittals are controlled by Construction Document Control (CDC) and the FDF CCM. Each CCM has designated a project coordinator for comments. During the report period no LCS project submittals were received for review. The submittals reviewed are summarized below.

Submittal No	Item Description	RE Disposition	Recommended Status
Phase 1			
24R9	Listing of 10 Completed Facilities	Minor Comment	B (Table Title Needed)
22R9	Safe Work Plan(pp.-63-75)	No Comments	A

During the previous report period the Phase 1 Contractor (Petro) added a new geosynthetic installer, Environmental Design & Construction Inc.(EDCI), eventually replacing GSI. As a result, additional submittals and certifications were submitted by the contractor during the previous report period and reviewed by GeoSyntec and FDF.

Design Clarifications and Modifications

LCS

RCI No. 038R, prepared by FDF and responded to by Parsons, provided clarification on pressure test of the 4-inch LCS Force Main. Documents have been referenced for use in evaluating the final system hydrostatic pressure test that permit a pressure drop during the test. Drawing G-00258, Specification Section 02605 and DCN No. 033 were referenced. This RCI referenced a note on the drawing that did not apply to the HDPE pipe. Therefore, this RCI, needs to be changed to a DCN.

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT - 1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 30 Nov. 1997

WR No. 39 (Cont'd)

Phase 1

DCN No. 036, prepared by GeoSyntec and approved by GeoSyntec, provided changes to the Liner Penetration Box specifications and drawings that have been previously agreed to during shop fabrication. Drawing No G-00083, Specification Section 13005 were affected. DCN No. 034 and Submittal No. 35 R2 (shop drawings) were also referenced. Controlled copies of DCN No. 036 have not yet been distributed.

Quality Control (QC)

QC continued construction monitoring, concentrating on geosynthetics installation. Discussions of QC activities and a summary of laboratory testing can be found in the Site Managers weekly report. This RE has been spending most of his time in the field focusing on the LCS and Phase 1 pressure testing and Phase 1 liner system and drainage stone installation. Construction work continued throughout the Thanksgiving holiday.

A summary of the GCL approval and disapproval status is provided in Table 1 attached to this report. Through the end of the report period only GCL from lots approved for deployment have been used or deployed for the construction ongoing.

Also attached to this report are Summary Tables 2, 3 and 4 which give a tabulated history of the pressure testing of the LCS and Phase 1 transmission lines. They are updated weekly.

Health and Safety

At the 24 November 1997 weekly Phase 1 meeting the safety topic discussed was dressing appropriately for the changing weather conditions. Other safety concerns are also discussed at the meeting. One item I would like to re-emphasize is related to trips and falls. The HDPE textured liner offers good frictional resistance when walking down the slope. However, the ends of each panel are smooth HDPE which does not offer the same resistance and is actually very slippery to the foot. The many visitors to the cell need to be aware of this. Slips and trips without injury have occurred. Also, wet weather has again returned and both liner and clay slopes and surfaces are slippery. Extra care is needed.

Attachments: GCL Approval/Disapproval Status Table and Hydrostatic Pressure Testing Tables

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WR Attachment

TABLE 1

Summary of GCL Approval/Disapproval by Lot Number and GCL QA Test Number
Phase 1 Construction

GCL Test No.	Lot No.	No. of Rolls	Approval	Disapproval	Memo Date
GCL-10	97082812	34		X	10 Oct. 97
GCL-15/PET06	97090202	9		X	10 Oct. 97
GCL-02	97081502	6		X	10 Nov. 97
GCL-06	97082502	16		X	14 Nov. 97
GCL-16	97090502	3		X **	10 Nov. 97
GCL-20	97081302	1		X **	10 Nov. 97
			** not tested per FDF Direction		
GCL-01	97081402	27	X		10 Oct. 97
GCL-03	97062902	6	X		10 Nov. 97
GCL-04	97082012	28	X		07 Nov. 97
GCL-05	97082102	6	X		30 Oct. 97
GCL-07	97082302	18	X		10 Oct. 97
GCL-08	97082602	13	ON HOLD Pending FDF Official Decision		
GCL-09	97082702	27	X		17 Oct. 97
GCL-11	97090102	38	ON HOLD Pending FDF Official Decision		
GCL-12	97082802	16	X		15 Oct. 97
GCL-13	97090302	21	X		10 Oct. 97
GCL-14	97090402	18	X		10 Oct. 97
GCL-17	97090512	14	X		15 Oct. 97
GCL-18	97090612	4	X		18 Nov.97
GCL-19	97090702	13	X		21 Oct. 97
GCL-21	97080802	8	X		30 Oct. 97
GCL-22 / GCL-23	97101002	*	X Approved based on informal submittal of Manufactures QC tests and Certifications for material shipped to site to date.		
* Roll 40698 Not Approved					
GCL-24 / GCL-25	97102302		X Approval based on informal submittal of Manufactures QC tests and Certifications for material shipped to site to date.		
GCL-26 / GCL-27	97102402		X Pending receipt and approval of Manufactures QC tests and Certifications		

WR Attachment

Table 2 - LCS Hydrostatic Pressure Test Summary

Test Date day/mo/yr	Pipe Diameter, in	Drawing No. (s)	Station Interval	Pressure Change, psi	Pass Fail
24/06/97	4	G-00261	8+05 to 11+20	+1	Pass
27/06/97	8	G-00261	8+05 to 11+20	+0.4	Pass
01/07/97	4	G-00261	11+20 to 14+06	0	Pass
09/07/97	8	G-00261	11+20 to 14+06	0	Pass
16/07/97	4	G-00261, G-00266	14+06 to 01+70	-1	Pass
17/07/97	8	G-00261, G-00266	14+06 to 01+70	0	Pass
23/07/97	COMH 5	G-00261	Approx. 8+05	0	Pass
28/0797	4	G-00266	01+70 to 04+00	0	Pass
29/07/97	8	G-00266	01+70 to 04+00	0	Pass
16/08/97	4	G-00266	04+00 to 07+00 *	0	Pass
15/08/97	8	G-00266	04+00 to 07+00 *	0	Pass
04/08/97	4	G-00266,G-00262	*07+00 to COMH 11	0	Pass
20/08/97	8	G-00266,G-00262	*07+00 to COMH 11	0	Pass
27/08/97	4	G-00262	COMH 11 to BSL**	0	Pass
02/08/97	Manholes LDS 01 and LDS 02		Not Installed	0	Pass
07/08/97	Manhole LDS 03		Not Installed	0	Pass
14/08/97	Manhole LCS 01		Not Installed	0	Pass
18/08/97	Manhole LCS 02		Not Installed	0	Pass
25/08/97	COMH 11	G-00262	Approx. 6+83	0	Pass
06/09/97	Manhole LCS 03		Not Installed	0***	Pass
19/09/97	COMH 1	G-00254	Approx. 0+50	0	Pass
19/09/97	COMH 4	G-00261	Approx. 3+00	0	Pass
08/09/97	4	G-00261 to G-00262	MH#5 to MH#11	0	Pass
22/09/97	4	G-00254 & G-00261	0+50 to 3+00	0	Pass
24/09/97	8	G-00254 & G-00261	0+50 to 3+00	0	Pass
26/09/97	4	G-00261 & G-00262	MH#4 to MH#5	0	Pass
29/09/97	8	G-00261 7 G-00262	MH#4 to MH#5	0	Pass

WR Attachment

Table 2 - LCS Hydrostatic Pressure Summary (Cont'd)

Test Date day/mo/yr	Pipe Diameter, in	Drawing No. (s)	Station Interval	Pressure Change, psi	Pass Fail
14/10	6	M-00066	Monitoring Well No. 01	0	Pass
16/10	6	M-00066	Monitoring Well No. 02	0	Pass
16/10	6	M-00066	Monitoring Well No. 03	0	Pass
29/11	6	M-00063	LDS Pipe to Cell No. 1	0	****Pass

* Indicates ending or begining station identified approximate.

** Indicates tested HDPE pipe only. Test for open ended steel pipe not required.

*** Indicates Pressure Test Log not yet submitted, awaiting signatures.

**** Pipe was tested under reduced pressure 15 psi) because an air pressure test was being used with my approval and the air test plugs used could not safely be used at higher pressures. No leaks were present and a NCR has been written to address the test procedure change for the piping into the cell from the LDS and LCS Manholes.

Table 3 - Summary of Pressure Testing Between Cell and LCS/LDS Manholes
(Air Pressure Test Used with Pressure at 15 psig)

Test Date day/mo/yr	Pipe Diameter, in	Testing Interval	Pressure Change, psi	Pass Fail
29/11/97	6 (LDS)	Liner Box to LDS	0.2*	Pass

Other testing not yet complete due to leakage in piping not yet repaired.

Notes:

* Loss of pressure occurred during initial 15 minute test interval when vibration from compactor vibrated gauge. Pressure remained constant thereafter and change was a gauge reading problem and not a pipe loss of pressure. This RE monitored.

Table 4 - Phase 1 Hydrostatic Pressure Test Summary

Test Date day/mo/yr	Pipe Diameter, in	Drawing No. (s)	Test Segment Name/Description	Pressure Change, psi	Pass Fail
12/09/97	6	G-00076	SG-01-06 (LDS 01 to Liner Box)	0.8*	Pass
13/09/97	6	G-00076	Solid pipe used with HMW 01	0**	Pass
17/09/97	6	Cell 2	Solid pipe used with HMW 02	0	Pass
16/09/97	10	G-00076	SG-01-10 (LDS 01 to Liner Box)	0	Pass
16/09/97	6	G-00076	SG-02-06 (LCS 01 RD to Liner Box)	0	Pass
16/09/97	6	G-00076	SG-03-06 (LCS 01 to Liner Box)	0	Pass
17/09/97	10	G-00076	SG-02-10 (LCS 01 RD to Liner Box)	0	Pass
17/09/97	10	G-00076	SC-03-10 (LCS 01 to Liner Box)	0	Pass

Notes for Phase 1 Hydrostatic Pressure Table

All tests performed on Phase 1 Pipe Segments prior to installation. All pipes will be connected to VBS piping and to Liner Penetration Boxes (except HMW) and may require additional pressure testing. The final pressure test between the Liner Penetration Boxes and the Manholes will be summarized in Table 3

* The 0.8 psi decrease in pressure occurred near the end of the test when a test pipe was bumped and a small leak was noted at the pipe thread connection. This Resident Engineer reviewed the data, talked to both QC and QA personnel observing the full test and approved or passed the test.

** This pipe was tested uncovered and in direct sunshine and pressure decreased and increased depending on change in temperature and expansion of the pipe. Pressure was kept on the pipe for a very long time and no leaks were noted. Between 11:35 AM and 17:10 PM the pressure decreased and increased with no net change in pressure (Pressure 104 psi). This RE passed the test and recommended that for all future tests, the pipe be covered, tested away from direct sunlight, or tested at a time when sunlight and temperature would not affect the test. Contractor, CQC and QA agreed to test early in the morning and away from direct sunlight.

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FLUOR DANIEL FERNALD

1264

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 07 Dec. 1997

RESIDENT ENGINEER'S WEEKLY REPORT NO. 40

The report period covered by Weekly Report No. 40 is from 01 Dec. 1997 through 07 Dec. 1997. The Resident Engineers Weekly Report for the LCS and Phase 1 Construction has been combined into one report. This report discusses the LCS and Phase 1 projects. Rick McGuire is the Construction Contract Manager (CCM) for the LCS project and Lou Wehlitz the CCM for the Phase 1 project. Don Goetz is a Construction Engineering Coordinator assigned to the Phase 1 project. Individuals should check their cc-mail or contact the CCMs for meeting dates and times.

Construction Progress

LCS

The LCS contractor, VBS, continued performing completion activities for the LCS project. Wise Construction is also assisting VBS and FDF. Work continued all 7 days during the period. The punch list of remaining completion items has been prepared by FDF and is updated periodically by the CCM. The most current copy of the punch list report may be obtained by contacting the CCM. The most critical item on the path of project completion is finding leak locations, repairing and retesting of the LTS gravity line and drainage lines from Cell 1. Progress continues to be made. The LTS carrier line (6-inch) between the PLS and LCS Manhole No. 3 was repaired and tested. The 6-inch carrier line between the LCS Manholes No. 1 and No. 3 has also been tested. The 10-inch containment line has been repaired in several locations, but has not yet been tested. Testing of lines leading to Cell 3 has also been started. To date, one additional containment line, LDS for Cell 3, appears to be leaking. Testing for lines leading to Cell 2 have not been started. Additional information on the status of leak repair and pressure testing may be obtained by contacting FDF or this RE. Tables 2 and 3 have been updated to include all tests through 7 Dec. 1997.

The LCS/LDS concrete cover slab over the leaking 10-inch containment lines to Cell 1 was removed and repair of these lines is inprogress. At the request of FDF, this RE (Ohio P.E.) reviewed and monitored shoring work at one corner of the repair area excavation A double thickness of 3/4" 4x8 plywood placed horizontally and braced at the top and bottom at four locations was used to provide additional safety. Any remaining void space between the slope and shoring was filled with sand to assure a firm contact been the slope and shoring. Additional information, if needed, can be obtained by contacting this RE.

Phase 1

During the report period Petro continued to work within Cell 1 on placement of GCL, GML, geotextile cushion and LDS drainage material. Placement of GCL and GML for the Primary line system continued throughout the report period. At the end of the period only the west slope remained to be installed.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

1264

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 07 Dec. 1997

WR No. 40 (Cont'd)

However much detailing of the liner remains and no areas have yet (thru 07 Dec) been approved for geotextile placement. This is because the contractor has decided to concentrate on placement of GCL and GML and leave the detailing work to later or when ever the liner crew can get to it. Through the end of the period, approximately 333,645 ft^2 of GCL and 328086.5 ft^2 of GML has been placed. Placement of LDS drainage layer stone (78's) and LDS drainage corridor (57's) stone and the last two liner penetration boxes also took place. Surveyed elevations and layer thickness measurements were reviewed prior to placement of GCL. The leak in the 10-inch LCS pipe behind one of the liner penetration boxes was repaired and tested during the period. Additional Phase 1 construction progress can be found in the QC Site Managers weekly report.

Construction Submittal Review

Construction submittals are controlled by Construction Document Control (CDC) and the FDF CCM. Each CCM has designated a project coordinator for comments. The submittals reviewed are summarized below. No LCS submittals were reviewed by this RE during the report period.

Submittal No	Item Description	RE Disposition	Recommended Status
Phase 1			
49R3	Petro Monthly Progress Report	Comments	C

Design Clarifications and Modifications

LCS

DCN No. 073, prepared by FDF and approved by Parsons, modified the location of the cleanout wye and valve V-105 inside cleanout manhole COMH-4. Drawings N-00322 and G-00258 were affected.

DCN No. 074, prepared by FDF and approved as noted by Parsons, modified controls at the AWWT to permit the common trouble alarm to also alarm upon pump seal failure. Drawings M-00062, N-00322, E-00061 and Control Interface Drawings D-774 and D-963-2 were affected.

DCN-075, prepared by FDF and approved as noted by Parsons, approved the addition of valve status lights for the PLS motor operated valve. Drawings M-00062 and E-00061 were affected.

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1264

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 07 Dec. 1997

WR No. 40 (Cont'd)

RCI No. 025R has been changed to DCN No. 078. It will be approved by GeoSyntec and FDF and has been discussed in Weekly Report No. 15 for a discussion of this RCI.

RCI No. 028R has been changed to DCN No. 079. It was prepared by VBS and approved by Parsons. It approved the use of two 2-inch wide underground warning tapes in lieu of one 4-inch wide tape. Specification 02215 and Submittal No. 45 R1 were referenced.

RCI No. 037R has been changed to DCN No. 076 and RCI No. 038R has been changed To DCN No. 077. See previous two weekly reports for a discussion of these RCI's.

RCI No. 039R changed to DCN No. 080, prepared by FDF and approved by GeoSyntec, switched the labeling of the LDS Manholes Intake Pipe and Level Transmitter Pipe to facilitate sampling of the leachate in the LDS using a 1.75-inch bailer. Drawings M-00064 and M-00065 were affected.

DCN No. 080, prepared by FDF and approved as noted by Parsons, changed the flow rate differential at which an alarm would activate to 30% flow between Fl-012A and Fl-012B. For pump shut down the flow rate differential would be 50%. Drawing E-00324 is affected.

Phase 1

DCN No. 047, prepared by FDF and approved by GeoSyntec, provided changes to temporarily extend the access corridor to the haul road ramp. Drawing No. G-00199 and DCN No. 035 were affected.

DCN No. 048, prepared and approved by GeoSyntec, corrected Note 15 on Drawing No. G-00075 to include the east impacted soil stockpile as a source of fill for the cell impacted material protective layer.

Quality Control (QC)

CQC continued construction monitoring, concentrating on geosynthetics installation. Discussions of QC activities and a summary of laboratory testing can be found in the Site Managers weekly report. This RE has been spending most of his time in the field focusing on the LCS and Phase 1 repair work in addition to Phase 1 liner system installation. Construction work continued throughout the weekend.

A summary of the GCL approval and disapproval status is provided in Table 1 attached to this report. New GCL shipments have arrived onsite. The Manufacturers QC test data has been faxed ahead of the shipments and reviewed. Through the end of the report period only GCL from lots approved for deployment have been used or deployed for the construction ongoing.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT 1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 07 Dec. 1997

WR No. 40 (Cont'd)

Two additional rolls of GML have been ordered and delivered to the site. CQC has obtained conformance samples for each roll (rolls are from new lots). Results are expected early next week. The two rolls that were missing from previous shipments and orginally planned for this site, but on hold at NSC, have been sent to another site.

Also attached to this report are Summary Tables 2, 3 and 4 which give a tabulated history of the pressure testing of the LCS and Phase 1 transmission lines. They are updated weekly.

Health and Safety

At the 01 December 1997 weekly Phase 1 meeting the safety topic discussed was paying special attention to changing weather conditions. Freezing and/or wet are now present and we all need to be extra careful to avoid slips, trips and falls especially on clay surfaces. Also nonworkers should avoid walking on the HDPE liner when wet conditions are present.

Attachments: GCL Approval/Disapproval Status Table and Hydrostatic Pressure Testing Table

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WR 40 Attachment

TABLE 1

Summary of GCL Approval/Disapproval by Lot Number and GCL QA Test Number
Phase 1 Construction

GCL Test No.	Lot No.	No. of Rolls	Approval	Disapproval	Memo Date
GCL-10	97082812	34		X	10 Oct. 97
GCL-15/PET06	97090202	9		X	10 Oct. 97
GCL-02	97081502	6		X	10 Nov. 97
GCL-06	97082502	16		X	14 Nov. 97
GCL-16	97090502	3		X **	10 Nov. 97
GCL-20	97081302	1		X **	10 Nov. 97
			** not tested per FDF Direction		
GCL-01	97081402	27	X		10 Oct. 97
GCL-03	97062902	6	X		10 Nov. 97
GCL-04	97082012	28	X		07 Nov. 97
GCL-05	97082102	6	X		30 Oct. 97
GCL-07	97082302	18	X		10 Oct. 97
GCL-08	97082602	13	ON HOLD Pending FDF Official Decision		
GCL-09	97082702	27	X		17 Oct. 97
GCL-11	97090102	38	ON HOLD Pending FDF Official Decision		
GCL-12	97082802	16	X		15 Oct. 97
GCL-13	97090302	21	X		10 Oct. 97
GCL-14	97090402	18	X		10 Oct. 97
GCL-17	97090512	14	X		15 Oct. 97
GCL-18	97090612	4	X		18 Nov.97
GCL-19	97090702	13	X		21 Oct. 97
GCL-21	97080802	8	X		30 Oct. 97
GCL-22 / GCL-23	97101002	*	X Approved based on informal submittal of Manufactures QC tests and Certifications for material shipped to site to date.		
* Roll 40698 Not Approved					
GCL-24 / GCL-25	97102302		X Approval based on informal submittal of Manufactures QC tests and Certifications for material shipped to site to date.		
GCL-26 / GCL-27	97102402		X Approval based on informal submittal of Manufactures QC tests and Certifications for material shipped to site to date.		

WR 40 Attachment

Table 2 - LCS Hydrostatic Pressure Test Summary

Test Date day/mo/yr	Pipe Diameter, in	Drawing No. (s)	Station Interval	Pressure Change, psi	Pass Fail
24/06/97	4	G-00261	8+05 to 11+20	+1	Pass
27/06/97	8	G-00261	8+05 to 11+20	+0.4	Pass
01/07/97	4	G-00261	11+20 to 14+06	0	Pass
09/07/97	8	G-00261	11+20 to 14+06	0	Pass
16/07/97	4	G-00261, G-00266	14+06 to 01+70	-1	Pass
17/07/97	8	G-00261, G-00266	14+06 to 01+70	0	Pass
23/07/97	COMH 5	G-00261	Approx. 8+05	0	Pass
28/0797	4	G-00266	01+70 to 04+00	0	Pass
29/07/97	8	G-00266	01+70 to 04+00	0	Pass
16/08/97	4	G-00266	04+00 to 07+00 (1)	0	Pass
15/08/97	8	G-00266	04+00 to 07+00 (1)	0	Pass
04/08/97	4	G-00266,G-00262	(1) 07+00 to COMH 11	0	Pass
20/08/97	8	G-00266,G-00262	(1) 07+00 to COMH 11	0	Pass
27/08/97	4	G-00262	COMH 11 to BSL (2)	0	Pass
02/08/97	Manholes LDS 01 and LDS 02		Not Installed	0	Pass
07/08/97	Manhole LDS 03		Not Installed	0	Pass
14/08/97	Manhole LCS 01		Not Installed	0	Pass
18/08/97	Manhole LCS 02		Not Installed	0	Pass
25/08/97	COMH 11	G-00262	Approx. 6+83	0	Pass
06/09/97	Manhole LCS 03		Not Installed	0 (3)	Pass
19/09/97	COMH 1	G-00254	Approx. 0+50	0	Pass
19/09/97	COMH 4	G-00261	Approx. 3+00	0	Pass
08/09/97	4	G-00261 to G-00262	MH#5 to MH#11	0	Pass
22/09/97	4	G-00254 & G-00261	0+50 to 3+00	0	Pass
24/09/97	8	G-00254 & G-00261	0+50 to 3+00	0	Pass
26/09/97	4	G-00261 & G-00262	MH#4 to MH#5	0	Pass
29/09/97	8	G-00261 7 G-00262	MH#4 to MH#5	0	Pass

WR 40 Attachment

Table 2 - LCS Hydrostatic Pressure Summary (Cont'd)

Test Date day/mo/yr	Pipe Diameter, in	Drawing No. (s)	Station Interval	Pressure Change, psi	Pass Fail
14/10	6	M-00066	Monitoring Well No. 01	0	Pass
16/10	6	M-00066	Monitoring Well No. 02	0	Pass
16/10	6	M-00066	Monitoring Well No. 03	0	Pass
29/11	6	M-00063	LDS Pipe to Cell No. 1	0	(4) Pass
1-2/12	6	G-00057-G-00059	LCS No. 3 to PLS	3.5/28.5 hours	(5) Pass
6/12	6	G-00057	LCS No. 1 to LCS No. 3	0.5/8.9 hours	(5) Pass

Notes

(1) Indicates ending or begining station identified approximate.

(2) Indicates tested HDPE pipe only. Test for open ended steel pipe not required.

(3) Indicates Pressure Test Log not yet submitted, awaiting signatures.

(4) Pipe was tested under reduced pressure (15 psi) because an air pressure test was being used with my approval and the air test plugs used could not safely be used at higher pressures. No leaks were present and a NCR has been written to address the test procedure change for the piping into the cell from the LDS and LCS Manholes. Due to construction damage to piping on 03 Dec. 97 test of the LDS 6/10 inch will be redone after repair.

(5) Less than or equal to 0.1 psi drop per hour. Test monitoried, reviewed and approved by RE. See test reports for more data.

Table 3 - Summary of Pipe Pressure Testing Between Cell and LCS/LDS Manholes
(Air Pressure Test Used with Pressure at 15 psig)

Test Date day/mo/yr	Pipe Diameter, in	Testing Interval	Pressure Change, psi	Pass Fail
29/11/97	6 (LDS, Cell 1)	Liner Box to LDS	0.2*	No longer valid (1)
06/12/97	6 (LCS Reduntant, Cell 1)	Liner Box to LCS	0	Pass (2)
07/12/97	6 (LCS, Cell 1)	Liner Box to LCS	0	Pass (2)
07/12/97	10 (LCS, Cell 3)	Manhole to Plug	0	Pass
07/12/97	10 (LCS, Cell 3)	Manhole to Plug	0	Pass

Notes

(1) Pipe damaged during soil excavation. Repair and retesting of LDS 10/6 inch is planned.

(2) Additional test to check new couplings. Pipe already tested prior to coupling.

Other testing not yet complete due ongoing repair work in excavation pit west of berm and at LCS/LDS Manholes. Test have been performed for portions of piping beneath berm into cell and all now have passed. All 5 liner penetration boxes have also been tested in place and have passed. Boxes were also tested at the fabrication shop prior to shipment to the site.

WR 40 Attachment

Table 4 - Phase 1 Hydrostatic Pressure Test Summary

Test Date day/mo/yr	Pipe Diameter, in	Drawing No. (s)	Test Segment Name/Description	Pressure Change, psi	Pass Fail
12/09/97	6	G-00076	SG-01-06 (LDS 01 to Liner Box)	0.8*	Pass
13/09/97	6	G-00076	Solid pipe used with HMW 01	0**	Pass
17/09/97	6	Cell 2	Solid pipe used with HMW 02	0	Pass
16/09/97	10	G-00076	SG-01-10 (LDS 01 to Liner Box)	0	Pass
16/09/97	6	G-00076	SG-02-06 (LCS 01 RD to Liner Box)	0	Pass
16/09/97	6	G-00076	SG-03-06 (LCS 01 to Liner Box)	0	Pass
17/09/97	10	G-00076	SG-02-10 (LCS 01 RD to Liner Box)	0	Pass
17/09/97	10	G-00076	SC-03-10 (LCS 01 to Liner Box)	0	Pass

Notes for Phase 1 Hydrostatic Pressure Table

All tests performed on Phase 1 Pipe Segments prior to installation. All pipes will be connected to VBS piping and to Liner Penetration Boxes (except HMW) and may require additional pressure testing. The final pressure test between the Liner Penetration Boxes and the Manholes will be summarized in Table 3

* The 0.8 psi decrease in pressure occurred near the end of the test when a test pipe was bumped and a small leak was noted at the pipe thread connection. This Resident Engineer reviewed the data, talked to both QC and QA personnel observing the full test and approved or passed the test.

** This pipe was tested uncovered and in direct sunshine and pressure decreased and increased depending on change in temperature and expansion of the pipe. Pressure was kept on the pipe for a very long time and no leaks were noted. Between 11:35 AM and 17:10 PM the pressure decreased and increased with no net change in pressure (Pressure 104 psi). This RE passed the test and recommended that for all future tests, the pipe be covered, tested away from direct sunlight, or tested at a time when sunlight and temperature would not affect the test. Contractor, CQC and QA agreed to test early in the morning and away from direct sunlight.

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FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT - 1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GO0166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 14 Dec. 1997

RESIDENT ENGINEER'S WEEKLY REPORT NO. 41

The report period covered by Weekly Report No. 41 is from 08 Dec. 1997 through 14 Dec. 1997. The Resident Engineers Weekly Report for the LCS and Phase 1 Construction has been combined into one report. This report discusses the LCS and Phase 1 projects. Rick McGuire is the Construction Contract Manager (CCM) for the LCS project and Lou Wehlitz the CCM for the Phase 1 project. Don Goetz is a Construction Engineering Coordinator assigned to the Phase 1 project. Individuals should check their cc-mail or contact the CCMs for meeting dates and times.

Construction Progress

LCS

The LCS contractor, VBS, continued performing completion activities for the LCS project. Wise Construction is also assisting VBS and FDF. Work continued all 7 days during the period. The punch list of remaining completion items has been prepared by FDF and is updated periodically by the CCM. The most current copy of the punch list report may be obtained by contacting the CCM. The most critical item on the path of project completion is now backfilling of the LCS/LDS manhole area excavation and re-installing the concrete cover slab. This should take place next week. Through 15 December 1997 the LTS gravity line and drainage lines from Cell 1 have been repaired and successfully retested. See Tables 2 and 3 for updated pressure test summaries. Testing of the drainage line stubouts from the manholes to cell 2 and cell 3 have not yet been completed, however, they are not on the critical path to cell 1 completion. Testing of these lines is also expected to be completed next week.

Phase 1

During the report period Petro continued to work within Cell 1 on placement of GCL, GML, geotextile cushion and LDS drainage material. Placement of GCL and GML for the Primary liner system was completed, including most of the liner detailing and testing work. At the end of the period, placement of the geotextile cushion and the LCS drainage layer and corridor stone began. Surveying of the stone surface had not begun. Through the end of the period, approximately 356,552 ft^2 of GCL and 353,300 ft^2 of GML has been placed for the primary liner system. This completes the installation of these materials, except for the rain flap and any repairs, if needed.

Placement of haul road and access corridor No. 304 subbase and base materials resumed during the period. Additional Phase 1 construction progress can be found in the QC Site Managers weekly report.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT - 1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 14 Dec. 1997

WR No. 41 (Cont'd)

Construction Submittal Review

Construction submittals are controlled by Construction Document Control (CDC) and the FDF CCM. Each CCM has designated a project coordinator for comments. The submittals reviewed are summarized below. No Phase 1 submittals were reviewed by this RE during the report period.

Submittal No	Item Description	RE Disposition	Recommended Status
LCS			
49R4	Solar Panel Spare Parts	Comments	A
54R3	Pressure Gauge Spare Parts	No Comments	A
107R2	Insulation Resistance Tests	No Comments	A
26R7	Pump Control Panel Asbuilt Drawing & Material List	Comments	B (Check against recent DCNs)
301R4	LCS/LDS & PLS Control Panel Data & Lists	Comments	B (Check against recent DCNs)

Design Clarifications and Modifications

LCS

DCN No. 081, prepared by FDF and approved as noted by Parsons, changed the flow rate differential at which an alarm would activate to 30% flow between Fl-012A and Fl-012B. For pump shut down the flow rate differential would be 50%. Drawing E-00324 is affected. This DCN was inadvertently reported as DCN No. 80 in last weeks weekly report.

Phase 1

DCN No. 049, prepared and approved by GeoSyntec, provided changes to drawings that would allow the use of the east impacted material stockpile for Phase 1 Construction instead of the west impacted stockpile. Drawings G-00075 and G-00077 through G-00081 were affected.

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FLUOR DANIEL FERNALD

1264

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 14 Dec. 1997

WR No. 41 (Cont'd)

Quality Control (QC)

CQC continued construction monitoring and report data preparation concentrating on geosynthetics installation. Discussions of QC activities and a summary of laboratory testing can be found in the Site Managers weekly report.

A summary of the GCL approval and disapproval status is provided in Table 1 attached to this report. New GCL shipments have arrived onsite. The Manufacturers QC test data has been faxed ahead of the shipments and reviewed. Through the end of the report period only GCL from lots approved for deployment have been used or deployed for the construction ongoing.

Also attached to this report are Summary Tables 2, 3 and 4 which give a tabulated history of the pressure testing of the LCS and Phase 1 transmission lines. They are updated weekly.

Health and Safety

A GeoSyntec Health & Safety meeting was held on 10 December 1997. Safety items related to working during cold weather conditions and under low light conditions were discussed. Also discussed were ways to avoid slips, trips and falls. See the QC Site Managers weekly report for details.

Attachments: GCL Approval/Disapproval Status Table and Hydrostatic Pressure Testing Table

COPY TO: MJH, RAH, UAK, JCJ, WAZ, RLM, MWG, GKJ, JFM, KWC, REH,RMT,DKP,LRW, DBG,File PER: D.G.Bodine

WR 41 Attachment

TABLE 1

Summary of GCL Approval/Disapproval by Lot Number and GCL QA Test Number
Phase 1 Construction

GCL Test No.	Lot No.	No. of Rolls	Approval	Disapproval	Memo Date
GCL-10	97082812	34		X	10 Oct. 97
GCL-15/PET06	97090202	9		X	10 Oct. 97
GCL-02	97081502	6		X	10 Nov. 97
GCL-06	97082502	16		X	14 Nov. 97
GCL-16	97090502	3		X **	10 Nov. 97
GCL-20	97081302	1		X **	10 Nov. 97
			** not tested per FDF Direction		
GCL-01	97081402	27	X		10 Oct. 97
GCL-03	97062902	6	X		10 Nov. 97
GCL-04	97082012	28	X		07 Nov. 97
GCL-05	97082102	6	X		30 Oct. 97
GCL-07	97082302	18	X		10 Oct. 97
GCL-08	97082602	13	ON HOLD Pending FDF Official Decision		
GCL-09	97082702	27	X		17 Oct. 97
GCL-11	97090102	38	ON HOLD Pending FDF Official Decision		
GCL-12	97082802	16	X		15 Oct. 97
GCL-13	97090302	21	X		10 Oct. 97
GCL-14	97090402	18	X		10 Oct. 97
GCL-17	97090512	14	X		15 Oct. 97
GCL-18	97090612	4	X		18 Nov.97
GCL-19	97090702	13	X		21 Oct. 97
GCL-21	97080802	8	X		30 Oct. 97
GCL-22 / GCL-23	97101002	*	X Approved based on informal submittal of Manufactures QC tests and Certifications for material shipped to site to date.		
* Roll 40698 Not Approved					
GCL-24 / GCL-25	97102302		X Approval based on informal submittal of Manufactures QC tests and Certifications for material shipped to site to date.		
GCL-26 / GCL-27	97102402		X Approval based on informal submittal of Manufactures QC tests and Certifications for material shipped to site to date.		

WR 41 Attachment

Table 2 - LCS Hydrostatic Pressure Test Summary

Test Date day/mo/yr	Pipe Diameter, in	Drawing No. (s)	Station Interval	Pressure Change, psi	Pass Fail
24/06/97	4	G-00261	8+05 to 11+20	+1	Pass
27/06/97	8	G-00261	8+05 to 11+20	+0.4	Pass
01/07/97	4	G-00261	11+20 to 14+06	0	Pass
09/07/97	8	G-00261	11+20 to 14+06	0	Pass
16/07/97	4	G-00261, G-00266	14+06 to 01+70	-1	Pass
17/07/97	8	G-00261, G-00266	14+06 to 01+70	0	Pass
23/07/97	COMH 5	G-00261	Approx. 8+05	0	Pass
28/0797	4	G-00266	01+70 to 04+00	0	Pass
29/07/97	8	G-00266	01+70 to 04+00	0	Pass
16/08/97	4	G-00266	04+00 to 07+00 (1)	0	Pass
15/08/97	8	G-00266	04+00 to 07+00 (1)	0	Pass
04/08/97	4	G-00266,G-00262	(1) 07+00 to COMH 11	0	Pass
20/08/97	8	G-00266,G-00262	(1) 07+00 to COMH 11	0	Pass
27/08/97	4	G-00262	COMH 11 to BSL (2)	0	Pass
02/08/97	Manholes LDS 01 and LDS 02		Not Installed	0	Pass
07/08/97	Manhole LDS 03		Not Installed	0	Pass
14/08/97	Manhole LCS 01		Not Installed	0	Pass
18/08/97	Manhole LCS 02		Not Installed	0	Pass
25/08/97	COMH 11	G-00262	Approx. 6+83	0	Pass
06/09/97	Manhole LCS 03		Not Installed	0 (3)	Pass
19/09/97	COMH 1	G-00254	Approx. 0+50	0	Pass
19/09/97	COMH 4	G-00261	Approx. 3+00	0	Pass
08/09/97	4	G-00261 to G-00262	MH#5 to MH#11	0	Pass
22/09/97	4	G-00254 & G-00261	0+50 to 3+00	0	Pass
24/09/97	8	G-00254 & G-00261	0+50 to 3+00	0	Pass
26/09/97	4	G-00261 & G-00262	MH#4 to MH#5	0	Pass
29/09/97	8	G-00261 7 G-00262	MH#4 to MH#5	0	Pass

WR 41 Attachment

Table 2 - LCS Hydrostatic Pressure Summary (Cont'd)

Test Date day/mo/yr	Pipe Diameter, in	Drawing No. (s)	Station Interval	Pressure Change, psi	Pass Fail
14/10	6	M-00066	Monitoring Well No. 01	0	Pass
16/10	6	M-00066	Monitoring Well No. 02	0	Pass
16/10	6	M-00066	Monitoring Well No. 03	0	Pass
29/11	6	M-00063	LDS Pipe to Cell No. 1	0	(4) Pass
1-2/12	6	G-00057-G-00059	LCS No. 3 to PLS	3.5/28.5 hours	(5) Pass
6/12	6	G-00057	LCS No. 1 to LCS No. 3	0.5/8.9 hours	(5) Pass
11/12	10	G-00057-G-00059	LCS No. 3 to PLS	2/3 hours	(6) Pass
11/12	10	G-00057	LCS No. 2 to LCS No. 3	0	Pass

Notes

(1) Indicates ending or begining station identified approximate.

(2) Indicates tested HDPE pipe only. Test for open ended steel pipe not required.

(3) Indicates Pressure Test Log not yet submitted, awaiting signatures.

(4) Pipe was tested under reduced pressure (15 psi) because an air pressure test was being used with my approval and the air test plugs used could not safely be used at higher pressures. No leaks were present and a NCR has been written to address the test procedure change for the piping into the cell from the LDS and LCS Manholes. Due to construction damage to piping on 03 Dec. 97 test of the LDS 6/10 inch will be redone after repair.

(5) Less than or equal to 0.1 psi drop per hour. Test monitoried, reviewed and approved by RE. See test reports for more data.

(6) No pressure drop for first hour at 20 psi. Temporary fixed end seal in manhole began to leak slowly and slight pressure drop then recorded. FDF QA observed. Resident Engineer Approved.

Table 3 - Summary of Pipe Pressure Testing Between Cell and LCS/LDS Manholes
(Air Pressure Test Used with Pressure at 15 psig)

Test Date day/mo/yr	Pipe Diameter, in	Testing Interval	Pressure Change, psi	Pass Fail
29/11/97	6 (LDS, Cell 1)	Liner Box to LDS	0.2*	Not valid alone (1)
06/12/97	6 (LCS Redundant, Cell 1)	Liner Box to LCS	0	Pass (2)
07/12/97	6 (LCS, Cell 1)	Liner Box to LCS	0	Pass (2)
07/12/97	10 (LCS, Cell 3)	LCS Manhole to Plug	0	Pass
07/12/97	10 (LCS Redundant, Cell 3)	LCS Manhole to Plug	0	Pass
08/12/97	10 (LCS, Cell 1)	Liner Box to LCS	0	Pass
09/12/97	10 (LCS Redundant, Cell 1)	Liner Box to LCS	0	Pass
13/12/97	6 (LDS, Cell 1)	Inline Plug to LDS	0	Pass
13/12/97	10 (LDS, Cell 1)	Liner Box to LDS	0	Pass

Notes

(1) Pipe damaged during soil excavation after test. Pipe repaired and retested on 13 Dec. 97.

(2) Additional test to check new couplings. Pipe already tested prior to coupling.

(3) All 5 Liner Penetratio Boxes have been tested in the shop at 15 psi and in the field at minimum 10.8 psi.

WR 41 Attachment

Table 4 - Phase 1 Hydrostatic Pressure Test Summary

Test Date day/mo/yr	Pipe Diameter, in	Drawing No. (s)	Test Segment Name/Description	Pressure Change, psi	Pass Fail
12/09/97	6	G-00076	SG-01-06 (LDS 01 to Liner Box)	0.8*	Pass
13/09/97	6	G-00076	Solid pipe used with HMW 01	0**	Pass
17/09/97	6	Cell 2	Solid pipe used with HMW 02	0	Pass
16/09/97	10	G-00076	SG-01-10 (LDS 01 to Liner Box)	0	Pass
16/09/97	6	G-00076	SG-02-06 (LCS 01 RD to Liner Box)	0	Pass
16/09/97	6	G-00076	SG-03-06 (LCS 01 to Liner Box)	0	Pass
17/09/97	10	G-00076	SG-02-10 (LCS 01 RD to Liner Box)	0	Pass
17/09/97	10	G-00076	SC-03-10 (LCS 01 to Liner Box)	0	Pass

Notes for Phase 1 Hydrostatic Pressure Table

All tests performed on Phase 1 Pipe Segments prior to installation. All pipes will be connected to VBS piping and to Liner Penetration Boxes (except HMW) and may require additional pressure testing. The final pressure test between the Liner Penetration Boxes and the Manholes will be summarized in Table 3

* The 0.8 psi decrease in pressure occurred near the end of the test when a test pipe was bumped and a small leak was noted at the pipe thread connection. This Resident Engineer reviewed the data, talked to both QC and QA personnel observing the full test and approved or passed the test.

** This pipe was tested uncovered and in direct sunshine and pressure decreased and increased depending on change in temperature and expansion of the pipe. Pressure was kept on the pipe for a very long time and no leaks were noted. Between 11:35 AM and 17:10 PM the pressure decreased and increased with no net change in pressure (Pressure 104 psi). This RE passed the test and recommended that for all future tests, the pipe be covered, tested away from direct sunlight, or tested at a time when sunlight and temperature would not affect the test. Contractor, CQC and QA agreed to test early in the morning and away from direct sunlight.

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT 1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GC0166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 22 Dec. 1997

RESIDENT ENGINEER'S WEEKLY REPORT NO. 42

The report period covered by Weekly Report No. 42 is from 15 Dec. 1997 through Monday, 22 Dec. 1997. The Resident Engineers Weekly Report for the LCS and Phase 1 Construction has been combined into one report. This report discusses the LCS and Phase 1 projects. Rick McGuire is the Construction Contract Manager (CCM) for the LCS project and Lou Wehlitz the CCM for the Phase 1 project. Don Goetz is a Construction Engineering Coordinator assigned to the Phase 1 project. Individuals should check their cc-mail or contact the CCMs for meeting dates and times.

Construction Progress

LCS

The LCS contractor, VBS, with assistance from Wise Construction and FDF substantially completed the construction of the LCS system. FDF is in the process of completing its Standard Startup Review, SSR, and it is believed that placement of impacted protective layer for the cell will start as early as 23 December 1997, requiring the LCS system to be operational.

Phase 1

During the report period Petro completed placement of geosynthetics and drainage materials within the cell and on the intercell berm. Construction of an abbreviated access ramp into the cell was also completed such that placement of the impacted protective layer could begin when authorized to do so. Some Phase 1 construction items still remain to be completed that will not affect placement of the impacted protective layer. They include completion of the clay wedge, completion of the haul road and construction of the Decon Facility. This wedge should be constructed as soon as possible because it will be needed for frost protection.

Construction Submittal Review

Construction submittals are controlled by Construction Document Control (CDC) and the FDF CCM. Each CCM has designated a project coordinator for comments. The submittals reviewed are summarized below.

	Submittal No	Item Description	RE Disposition	Recommended Status
LCS				
	34R2	O&M for Fail Safe Actuator	No Comments	A
	92	Concrete Slab-LCS/LDS No.1	Minor Comments	A with comment

COPY TO: MJH, RAH, UAK, JCJ, WAZ, RLM, MWG, GKJ, JFM, KWC, REH, RMT, DKP, LRW, DBG, File PER: D.G.Bodine

000150

GEOSYNTEC CONSULTANTS FILE NO. 1-05-WKR

SHEET NO 1 OF 3

WR No. 42 (Cont'd)

Submittal No	Item Description	RE Disposition	Recommended Status
Phase 1			
40R4	Mfg. QC Roll Certs. Geotextile	No Comments	A
60R2	Mfg. QC Roll Certs. GCL	Comments	A with comments Pages need to be removed.

Design Clarifications and Modifications

LCS

No DCNs or RCI were recieved or reviewed by this RE.

Phase 1

DCN No. 050, prepared and approved by GeoSyntec, provided justification and approval for placement of the Geotextile Filter (separation filter between the LCS and Protective layers) over top of the primary anchor trench instead of inside the trench. Drawings G-00079 and G-00080 and DCN No. 1702-037 were affected.

Quality Control (QC)

CQC continued construction monitoring and report data preparation concentrating on geosynthetics installation. Discussions of QC activities and a summary of laboratory testing can be found in the Site Managers weekly report.

A summary of the GCL approval and disapproval status is provided in Table 1 attached to this report. All Manufacturers QC test data has been formally submitted, reviewed and approved. GCL not used in Phase 1 Construction has been stockpiled in the Laydown area.

Also attached to this report are Summary Tables 2, 3 and 4 which give a tabulated history of the pressure testing of the LCS and Phase 1 transmission lines. They have been updated, and all testing has been completed to permit placement of the impacted protective material layer for Cell 1. Testing of piping from LCS/LDS No. 2 and LCS/LDS No. 3 into Cell 2 and Cell 3 (stubouts) has not been completed. Only stubouts have installed by the LCS contractor and successful tests have not been completed.

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

1264

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GC0166 TASK NO.: 3.1

DESCRIPTION: LCS And Phase 1 Construction WEEK ENDING: 22 Dec. 1997

WR No. 42 (Cont'd)

Health and Safety

Impacted protective layer material placement will been as soon as 23 Dec. 97 upon completion of the SSR. Meetings have been held between FDF, Petro and GeoSyntec to discuss procedures, safety and the overall plan. Extra care will be needed durings placement, because of wet slippery conditions. Safety and radiological monitoring will be occurring by FDF.

Attachments: GCL Approval/Disapproval Status Table and Hydrostatic Pressure Testing Table

COPY TO: MJH, RAH, UAK, JCJ, WAZ, RLM, MWG, GKJ, JFM, KWC, REH,RMT,DKP,LRW, DBG,File PER: D.G.Bodine

WR 42 Attachment

TABLE 1

Summary of GCL Approval/Disapproval by Lot Number and GCL QA Test Number
Phase 1 Construction

GCL Test No.	Lot No.	No. of Rolls	Approval	Disapproval	Memo Date
GCL-10	97082812	34		X	10 Oct. 97
GCL-15/PET06	97090202	9		X	10 Oct. 97
GCL-02	97081502	6		X	10 Nov. 97
GCL-06	97082502	16		X	14 Nov. 97
GCL-16	97090502	3		X **	10 Nov. 97
GCL-20	97081302	1		X **	10 Nov. 97
			** not tested per FDF Direction		
GCL-01	97081402	27	X		10 Oct. 97
GCL-03	97062902	6	X		10 Nov. 97
GCL-04	97082012	28	X		07 Nov. 97
GCL-05	97082102	6	X		30 Oct. 97
GCL-07	97082302	18	X		10 Oct. 97
GCL-08	97082602	13	ON HOLD Pending FDF Official Decision		
GCL-09	97082702	27	X		17 Oct. 97
GCL-11	97090102	38	ON HOLD Pending FDF Official Decision		
GCL-12	97082802	16	X		15 Oct. 97
GCL-13	97090302	21	X		10 Oct. 97
GCL-14	97090402	18	X		10 Oct. 97
GCL-17	97090512	14	X		15 Oct. 97
GCL-18	97090612	4	X		18 Nov.97
GCL-19	97090702	13	X		21 Oct. 97
GCL-21	97080802	8	X		30 Oct. 97
GCL-22 / GCL-23	97101002	*	X		NA
* Roll 40698 Not Approved					
GCL-24 / GCL-25	97102302		X		NA
GCL-26 / GCL-27	97102402		X		NA

WR 42 Attachment

Table 2 - LCS Hydrostatic Pressure Test Summary

Test Date day/mo/yr	Pipe Diameter, in	Drawing No. (s)	Station Interval	Pressure Change, psi	Pass Fail
24/06/97	4	G-00261	8+05 to 11+20	+1	Pass
27/06/97	8	G-00261	8+05 to 11+20	+0.4	Pass
01/07/97	4	G-00261	11+20 to 14+06	0	Pass
09/07/97	8	G-00261	11+20 to 14+06	0	Pass
16/07/97	4	G-00261, G-00266	14+06 to 01+70	-1	Pass
17/07/97	8	G-00261, G-00266	14+06 to 01+70	0	Pass
23/07/97	COMH 5	G-00261	Approx. 8+05	0	Pass
28/0797	4	G-00266	01+70 to 04+00	0	Pass
29/07/97	8	G-00266	01+70 to 04+00	0	Pass
16/08/97	4	G-00266	04+00 to 07+00 (1)	0	Pass
15/08/97	8	G-00266	04+00 to 07+00 (1)	0	Pass
04/08/97	4	G-00266,G-00262	(1) 07+00 to COMH 11	0	Pass
20/08/97	8	G-00266,G-00262	(1) 07+00 to COMH 11	0	Pass
27/08/97	4	G-00262	COMH 11 to BSL (2)	0	Pass
02/09/97	8	G-00262	COMH 11 to BSL	0	Pass
02/08/97	Manholes LDS 01 and LDS 02		Not Installed	0	Pass
07/08/97	Manhole LDS 03		Not Installed	0	Pass
14/08/97	Manhole LCS 01		Not Installed	0	Pass
18/08/97	Manhole LCS 02		Not Installed	0	Pass
25/08/97	COMH 11	G-00262	Approx. 6+83	0	Pass
06/09/97	Manhole LCS 03		Not Installed	0 (3)	Pass
19/09/97	COMH 1	G-00254	Approx. 0+50	0	Pass
19/09/97	COMH 4	G-00261	Approx. 3+00	0	Pass
08/09/97	4	G-00261 to G-00262	MH#5 to MH#11	0	Pass
22/09/97	4	G-00254 & G-00261	0+50 to 3+00	0	Pass
24/09/97	8	G-00254 & G-00261	0+50 to 3+00	0	Pass
26/09/97	4	G-00261 & G-00262	MH#4 to MH#5	0	Pass
29/09/97	8	G-00261 7 G-00262	MH#4 to MH#5	0	Pass
17/11/97	4	FINAL FORCE MAIN TEST	PLS to COMH 11	3 (DCN 011)	Pass

WR 42 Attachment

Table 2 - LCS Hydrostatic Pressure Summary (Cont'd)

Test Date day/mo/yr	Pipe Diameter, in	Drawing No. (s)	Station Interval	Pressure Change, psi	Pass Fail
14/10	6	M-00066	Monitoring Well No. 01	0	Pass
16/10	6	M-00066	Monitoring Well No. 02	0	Pass
16/10	6	M-00066	Monitoring Well No. 03	0	Pass
29/11	6	M-00063	LDS Pipe to Cell No. 1	0 (4)	Pass
1-2/12	6	G-00057-G-00059	LCS No. 3 to PLS	3.5/28.5 hours (5)	Pass
6/12	6	G-00057	LCS No. 1 to LCS No. 3	0.5/8.9 hours (5)	Pass
11/12	10	G-00057-G-00059	LCS No. 3 to PLS	2/3 hours (6)	Pass
11/12	10	G-00057	LCS No. 2 to LCS No. 3	0	Pass
15/12	10	G-00057	LCS No. 1 to LCS No. 2	0 (AIR TEST)	Pass

Notes

(1) Indicates ending or begining station identified approximate.

(2) Indicates tested HDPE pipe only. Test for open ended steel pipe not required.

(3) Indicates Pressure Test Log not yet submitted, awaiting signatures.

(4) Pipe was tested under reduced pressure (15 psi) because an air pressure test was being used with my approval and the air test plugs used could not safely be used at higher pressures. No leaks were present and a NCR has been written to address the test procedure change for the piping into the cell from the LDS and LCS Manholes. Due to construction damage to piping on 03 Dec. 97 test of the LDS 6/10 inch was redone after repair.

(5) Less than or equal to 0.1 psi drop per hour. Test monitoried, reviewed and approved by RE. See test reports for more data.

(6) No pressure drop for first hour at 20 psi. Temporary fixed end seal in manhole began to leak slowly and slight pressure drop then recorded. FDF QA observed. Resident Engineer Approved.

Table 3 - Summary of Pipe Pressure Testing Between Cell and LCS/LDS Manholes
(Air Pressure Test Used with Pressure at 15 psig)

Test Date day/mo/yr	Pipe Diameter, in	Testing Interval	Pressure Change, psi	Pass Fail
29/11/97	6 (LDS, Cell 1)	Liner Box to LDS	0.2*	Not valid alone (1)
06/12/97	6 (LCS Redundant, Cell 1)	Liner Box to LCS	0	Pass (2)
07/12/97	6 (LCS, Cell 1)	Liner Box to LCS	0	Pass (2)
07/12/97	10 (LCS, Cell 3)	LCS Manhole to Plug	0	Pass
07/12/97	10 (LCS Redundant, Cell 3)	LCS Manhole to Plug	0	Pass
08/12/97	10 (LCS, Cell 1)	Liner Box to LCS	0	Pass
09/12/97	10 (LCS Redundant, Cell 1)	Liner Box to LCS	0	Pass
13/12/97	6 (LDS, Cell 1)	Inline Plug to LDS	0	Pass
13/12/97	10 (LDS, Cell 1)	Liner Box to LDS	0	Pass

Notes

(1) Pipe damaged during soil excavation after test. Pipe repaired and retested on 13 Dec. 97.

(2) Additional test to check new couplings. Pipe already tested prior to coupling.

(3) All 5 Liner Penetratio Boxes have been tested in the shop at 15 psi and in the field at minimum 10.8 psi.

WR 42 Attachment

Table 4 - Phase 1 Hydrostatic Pressure Test Summary

Test Date day/mo/yr	Pipe Diameter, in	Drawing No. (s)	Test Segment Name/Description	Pressure Change, psi	Pass Fail
12/09/97	6	G-00076	SG-01-06 (LDS 01 to Liner Box)	0.8*	Pass
13/09/97	6	G-00076	Solid pipe used with HMW 01	0**	Pass
17/09/97	6	Cell 2	Solid pipe used with HMW 02	0	Pass
16/09/97	10	G-00076	SG-01-10 (LDS 01 to Liner Box)	0	Pass
16/09/97	6	G-00076	SG-02-06 (LCS 01 RD to Liner Box)	0	Pass
16/09/97	6	G-00076	SG-03-06 (LCS 01 to Liner Box)	0	Pass
17/09/97	10	G-00076	SG-02-10 (LCS 01 RD to Liner Box)	0	Pass
17/09/97	10	G-00076	SC-03-10 (LCS 01 to Liner Box)	0	Pass

Notes for Phase 1 Hydrostatic Pressure Table

All tests performed on Phase 1 Pipe Segments prior to installation. All pipes will be connected to VBS piping and to Liner Penetration Boxes (except HMW) and may require additional pressure testing. The final pressure test between the Liner Penetration Boxes and the Manholes will be summarized in Table 3

* The 0.8 psi decrease in pressure occurred near the end of the test when a test pipe was bumped and a small leak was noted at the pipe thread connection. This Resident Engineer reviewed the data, talked to both QC and QA personnel observing the full test and approved or passed the test.

** This pipe was tested uncovered and in direct sunshine and pressure decreased and increased depending on change in temperature and expansion of the pipe. Pressure was kept on the pipe for a very long time and no leaks were noted. Between 11:35 AM and 17:10 PM the pressure decreased and increased with no net change in pressure (Pressure 104 psi). This RE passed the test and recommended that for all future tests, the pipe be covered, tested away from direct sunlight, or tested at a time when sunlight and temperature would not affect the test. Contractor, CQC and QA agreed to test early in the morning and away from direct sunlight.

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT 1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GC0166 TASK NO.: 3.1

DESCRIPTION: ~~LCS And Phase 1 Construction~~ WEEK ENDING: 31 Dec. 1997

RESIDENT ENGINEER'S WEEKLY REPORT NO. 43

The report period covered by Weekly Report No. 43 is from Tuesday, 23 Dec. 1997 through Wednesday, 31 Dec. 1997. The unusual 9-day period is used to coincide with the onsite work period of the contractor during the Christmas and New Years holidays. The Resident Engineers Weekly Report for the LCS and Phase 1 Construction has been combined into one report. This report discusses the LCS and Phase 1 projects. Rick McGuire is the Construction Contract Manager (CCM) for the LCS project and Lou Wehlitz the CCM for the Phase 1 project. Don Goetz is a Construction Engineering Coordinator assigned to the Phase 1 project. Individuals should check their cc-mail or contact the CCMs for meeting dates and times.

Construction Progress and Year End Completion

LCS

The LCS contractor, VBS, with assistance from Wise Construction and FDF continued to work on project close out items for the LCS system. FDF completed its LCS pre-operational assessment and prestart findings for their Standard Startup Review, SSR. Some "post start findings and work items remain. The system was declared ready for operation on Tuesday afternoon, 23 December 1997, at which time placement of the impacted protective layer for Cell 1 began by the Phase 1 contractor. This Resident Engineer request a copy of the SSR Final Report.

After LCS start-up VBS continued project clean-up and remaining work items. FDF has been reminded that leachate or water collected within the LDS primary and secondary vessels should be monitored and pumped into the LTS carrier pipe through the LDS inlet pipe. Records of date, time and quantity pumped should be recorded for future review and/or evaluation as may be necessary. It was also reported that FDF would begin routine sampling of the leachate on 31 December 1997.

Phase 1

During the report period Petro continued placement of non-impacted protective material for the protective layer on the top and Cell 2 slope of the intercell berm. Survey certification of the Cell 2 slope was not completed as of 31 December 1997. Placement of impacted protective material within Cell 1 from the east impacted material stockpile, as was completed, including survey certification. The granular catchment area was also completed, including survey certification, prior to begining impacted material placement. This Resident Engineer has reviewed the survey certification results and concludes that the protective layer within Cell 1 has been installed as designed. It is also noted that survey certification of the protective layer beneath the ramp and haul road installed into the Cell 1 was not required by this RE. However, elevations were checked to insure that the minimum thickness was obtained.

31 Dec 97

COPY TO: ~~MJH, RAH, UAK, JCL, WAZ, RLM, MWG, GKL, JFM, KWC~~ PER: D.G.Bodine

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

1264

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: 000166 TASK NO.: 3.1

DESCRIPTION: ~~LCS And Phase 1 Construction~~ WEEK ENDING: 31 Dec. 1997

WR No. 43 (Cont'd)

On 29 December 1997 Petro began placement of the clay wedge material over the area from the primary anchor trench to top of the protective layer. The initial lift was processed clay material from the clay stockpile and placed and compacted to minimum 95% standard proctor, as specified. Due to the onset of cold and below freezing weather, the succeeding lifts of clay cover were placed to provide additional frost protection to achieve the 2.1 feet required for the site. These succeeding lifts and top of the first lift will be required to be removed, scarified, moisture conditioned, replaced and compacted, etc., as specified, in the spring or when ever construction restarts in this area. There also remains a "cold partially frozen joint" in the initial lift at approximately 27 feet north of the intersection of the intercell berm and east berm and along the southwest corner of the west berm that will require reworking when construction resumes.

Following installation of the protective layer the LCS, redundant LCS and LDS carrier pipes were inspected using a video camera. This was completed on 31 December 1997 in the presence of this R E and no evidence of pipe damage was noted. A rubber plug, used during pipe construction testing, was found in the LCS carrier pipe near the cleanout. Attempts to remove the plug were continuing at the end of the normal shift. The completed inspection video has been turned over to the CQC Consultant , as specified.

Construction Submittal Review

No submittals were reviewed during this report period.

Design Clarifications and Modifications

No new DCNs or RCIs were received or reviewed by this RE during this report period.

Quality Control (QC)

CQC continued construction monitoring concentration on impacted material placement and grading and on wedge clay material placement. Status of these items has been discussed above. Additional discussion can be found in the Site Managers weekly report.

Health and Safety

At the 29 December 1997 Phase 1 construction meeting the safety topic was a brief discussion on warning labels why we should all read and follow them. An additional safety item for all of us to again pay special attention to are slips, trips and falls. This time of the year these types of mishaps occur most often when wet or frozen ground, snow or ice covered are present.

31 Dec 97

COPY TO: ~~MJH, RAH, UAK, JCI, WAZ, RLM, MWG, GKL, JEM, KWC~~ PER: D.G.Bodine

GEOSYNTEC CONSULTANTS FILE NO. 1-05-WER REH,RMT,DKP,LRW, DBG,File SHEET NO 2 OF 2

000168

SITE QA MANAGER'S WEEKLY FIELD REPORTS

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 041

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 9 MARCH 1997

J.F. McMICHEN, CONSTRUCTION QUALITY CONTROL SITE MANAGER MOBILIZED 3 MARCH 1997.
INITIATED SITE PROCESS TO OBTAIN PERMANENT BADGE, DRUG TEST, MEDICAL EXAMINATION AND RADIOLOGICAL TEST.
RECEIVED FIELD LABORATORY EQUIPMENT 5 MARCH 1997. ADMINISTRATIVE AND FIELD LABORATORY TRAILERS HAVE NOT BEEN ESTABLISHED.
ASSISTED D. BODINE OF GEOSYNTEC CONSULTANTS IN REVIEWING SUBMITTALS.
VILLAGE BUILDING SERVICES INC., CONTRACTOR, SCHEDULED TO MOBILIZE 17 MARCH 1997.
NO ADDITIONAL ACTIVITIES CONDUCTED.

000190

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: ~~4.01~~ 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM. WEEK ENDING: 16 MARCH 1997

THE FOLLOWING COVERS THE PERIOD FROM 10 THROUGH 16 MARCH 1997.

J.F. McMICHEN CONTINUED SITE PROCESSING.

RECEIVED 27 FEBRUARY 1997 MEETING MINUTES.

RECEIVED PERMIT FOR ON SITE USE OF NUCLEAR GAUGE THROUGH 10 MAY 1997. FLUOR DANIEL TO SECURE EXTENDED PERMIT.

SECURITY AUTHORIZATION TO BE OBTAINED TO FACILITATE ON SITE PHOTOGRAPHIC DOCUMENTATION.

GEO SYNTEC MANAGEMENT PLAN, DOCUMENT GQ0166-01/F9710033. DOC SCHEDULED FOR SUBMITTAL THE WEEK OF 17 MARCH 1997.

STATUS OF ADMINISTRATIVE AND FIELD LABORATORY TRAILERS TO BE UTILIZED BY GEO SYNTEC REMAINS UNCHANGED.

ATTENDED CONSTRUCTION STAFF MEETING, PERSONNEL LOG MAINTAINED BY FLUOR DANIEL. THE FOLLOWING TOPICS WERE DISCUSSED. FLUOR DANIEL EXPRESSED CONCERN REGARDING MATERIALS SAMPLING AND TESTING (CONFORMANCE). TIMELY SUBMITTAL OF SAMPLES AND SOURCE(S) NOTIFICATION TO GEO SYNTEC IS ESSENTIAL. OFF SITE TESTING IN LIEU OF, AN ESTABLISHED FACILITY, ON SITE MAY BE REQUIRED. SAFETY ISSUES WERE ADDRESSED INCLUSIVE OF IMPLEMENTATION OF DAILY "TAIL GATE" AND WEEKLY MEETINGS, SITE "WALK THROUGH'S", DUST CONTROL AND ACCIDENT PROCEDURES.

CONSTRUCTION STAFF MEETINGS TO BE CONDUCTED BI-WEEKLY AT 1200 HOURS ON WEDNESDAYS.

CONTRACTOR/SUBCONTRACTOR MEETINGS TO BE CONDUCTED WEEKLY AT 1300 HOURS ON THURSDAYS IN BUILDING T-58. MEETING SCHEDULED FOR 13 MARCH 1997 WAS CANCELLED.

MOBILIZATION OF VILLAGE BUILDING SERVICES INC. RESCHEDULED FOR THE WEEK OF 24 MARCH 1997.

K. CARGILL OF GEO SYNTEC ON SITE 11 MARCH 1997. N. MEEKINS GEO SYNTEC SENIOR SOILS TECHNICIAN SCHEDULED TO MOBILIZE 18 MARCH 1997.

000131

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 041

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 16 MARCH 1997

NOTE:

OSDF PHASE ONE TARGET DATES ARE AS FOLLOWS. CONTRACT AWARD 1 APRIL 1997, NOTICE TO PROCEED 11 APRIL 1997 AND BEGIN CONSTRUCTION 1 MAY 1997.

000192

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 23 MARCH 1997

THE FOLLOWING COVERS THE PERIOD FROM 17 THROUGH 23 MARCH 1997.

THE CONTRACTOR, VILLAGE BUILDING SERVICES, INC (VBS) SCHEDULED TO MOBILIZE THE WEEK OF 24 MARCH 1997.

A SECOND TRAILER TO BE IN USE AS AN ON SITE FIELD LABORATORY BY GEO SYNTEC HAS BEEN MADE AVAILABLE. STATUS OF THE ADMINISTRATIVE TRAILER AND RELOCATION OF THE FIELD LABORATORY TRAILERS REMAINS UNCHANGED.

FLUOR DANIEL DESIGNATED TWO FIRE RESISTANT FILING CABINETS FOR USE BY GEO SYNTEC. CABINETS PRESENTLY STORED OFF SITE AT THE NORTHSTAR FACILITY.

M.S.D.S. DOCUMENTATION FOR MATERIALS TO BE IN USE BY GEO SYNTEC WAS PROVIDED TO FLUOR DANIEL'S HEALTH AND SAFETY DEPARTMENT.

FIELD LABORATORY EQUIPMENT (SCALES) TO BE IN USE BY GEO SYNTEC SCHEDULED FOR CALIBRATION BY NORWOOD SCALE & SERVICE CO. OF CINCINNATI, OHIO. CALIBRATION TO FOLLOW INSTALLMENT OF FIELD LABORATORY TRAILERS.

CYLINDRICAL CONCRETE SPECIMENS TO BE CAST BY GEO SYNTEC, CURED AND TESTED FOR COMPRESSION OFF SITE BY FULLER, MOSS-BARGER, SCOTT AND MAY (FMSM) OF CINCINNATI, OHIO.

GEO SYNTEC'S REMAINING SDRI EQUIPMENT WAS REMOVED FROM SITE.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 041

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 23 MARCH 1997

ATTENDED OSDF-LCS SUBCONTRACTOR SCHEDULE AND STATUS MEETING CONDUCTED ON 20 MARCH 1997. AGENDA, ATTENDANCE RECORD AND MINUTES MAINTAINED BY FLUOR DANIEL. FOLLOWING IS A SYNOPSIS OF TOPICS REVIEWED.

- USE OF APPROVED CLOTHING DURING WELDING OPERATIONS.
- SUBMITTAL OF VBS SAFE WORK PLAN.
- EXCAVATIONS ≥ 4' (FEET) TO BE EVALUATED BY INDUSTRIAL HYGIENE AND CLASSIFIED.
- SIX POINT EIGHT THREE PERCENT OF SCHEDULE COMPLETED.
- VBS TO SUBMIT SCHEDULE 25 MARCH 1997.
- SURVEY COORDINATES REVIEWED.
- DIAZ CONSTRUCTION TO BE REPRESENTED AT FUTURE MEETINGS.
- VBS TO PRIORITIZE SUBMITTALS.
- VBS TO SUBMIT MATERIAL DELIVERY SCHEDULE BY 27 MARCH 1997.
- MANUFACTURERS DEVIATION REQUESTS MUST BE APPROVED.
- WHERE POSSIBLE SUBMITTALS SHOULD NOT BE SUBMITTED "PIECE MEAL".
- VBS TO RESUBMIT QC/QA PLAN BY 27 MARCH 1997.
- CHANGE ORDERS NUMBERS ONE THROUGH FOUR REMAIN UNDER REVIEW.
- VBS TO SUBMIT PAY REQUEST
- ACTION ITEMS STATUS
  - NO. 1 OPEN
  - NO. 2 CLOSED 11 MARCH 1997
  - NO. 5 TO BE CLOSED 20 MARCH 1997
  - NO. 7 TO BE REVIEWED 27 MARCH 1997
  - NO. 8 TANK AND MOBILE UNIT TO BE IN USE

NED MEEKINS SENIOR SOILS TECHNICIAN (GEO SYNTEC) MOBILIZED 18 MARCH 1997. INITIATED SITE ACCESS PROCESSING.

000194

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 30 MARCH 1997

THE FOLLOWING COVERS THE PERIOD FROM 24 THROUGH 30 MARCH 1997.

THE CONTRACTOR, VILLAGE BUILDING SERVICES, INC (VBS) MOBILIZATION DATE RESCHEDULED, REFER FOLLOWING.

FLUOR DANIEL ADVISED GEO SYNTEC A SAFE WORK PLAN BE SUBMITTED. THE DOCUMENT IS IN PROGRESS AND WILL BE SUBMITTED IN THE NEAR FUTURE

FLUOR DANIEL HEALTH AND SAFETY DEPARTMENT DEFINED THE REQUIRED TRAINING GEO SYNTEC PERSONNEL ARE TO ATTEND.

GEO SYNTEC TRANSMITTED HEALTH AND SAFETY DOCUMENTATION AND MISCELLANEOUS CERTIFICATES FOR PERSONNEL PRESENTLY MOBILIZED AT FERNALD.

GEO SYNTEC'S N. MEEKINS COMPLETED DRUG TESTING AND OBTAINED A PERMANENT BADGE.

FLUOR DANIEL ADVISED GEO SYNTEC TO SUBMIT A MONTHLY "SUBCONTRACTOR MANPOWER REPORT". THE DOCUMENT WILL BE TRANSMITTED FROM GEO SYNTEC'S OFF SITE ADMINISTRATIVE DEPARTMENT.

FLUOR DANIEL ASSIGNED GEO SYNTEC TEMPORARY OFFICE SPACE THROUGH APPROXIMATELY MID APRIL 1997. STATUS OF ADMINISTRATIVE AND FIELD LABORATORY TRAILERS REMAINS UNCHANGED.

000195

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 30 MARCH 1997

GEO SYNTEC TRANSMITTED INVENTORY DOCUMENTATION FOR EQUIPMENT TO BE PLACED IN SERVICE ON SITE. INVENTORY DATA IS AT PRESENT INCOMPLETE DUE TO TEMPORARY STORAGE.

GEO SYNTEC RECEIVED A COPY OF THE DOCUMENT TITLED "AWARD SUMMARY SUBCONTRACTOR NO. FSC 589 LEACHATE CONVEYANCE SYSTEM" DATED JANUARY 13, 1997. UNDER REVIEW ITEM TWO, PARAGRAPH TWO, SENTENCE TWO. REFER DOCUMENT TITLED "FINAL DESIGN OSDF SUPPORT PLANS ON-SITE DISPOSAL FACILITY" SECTION FIVE^ITEM TWELVE POINT THREE (12.3) AND "TECHNICAL SPECIFICATIONS LEACHATE CONVEYANCE SYSTEM" SECTION 03100 3.05 A. AND 3.06 A.

20100-PL-0006 3/31/97

ATTENDED OSDF-LCS SUBCONTRACTOR SCHEDULE AND STATUS MEETING CONDUCTED 27 MARCH 1997. AGENDA, ATTENDANCE RECORD AND MINUTES MAINTAINED BY FLUOR DANIEL. FOLLOWING IS A SYNOPSIS OF SOME TOPICS REVIEWED.

SAFETY, TQM, BALANCE TOPIC

- A LEGIBLE HOUSE NUMBER ASSISTS EMT IN LOCATING YOU
- QUALITY WORK SAVES TIME
- BE KIND, BALANCE POSITIVE WITH NEGATIVE

1. F.&S., I.H., R.S.

- ANTICIPATE 31 MARCH 1997 APPROVAL OF VBS HEALTH AND SAFETY PLAN, MINOR COMMENTS ON INSTALLATION OF TELEPHONE POLES

000196

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 041

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 30 MARCH 1997

- SAFETY BULLETIN FOR CONFINED SPACE ENTRY IS AVAILABLE.
- BRIEFING ON CONFINED SPACE TO BE CONDUCTED.
- ALL EXISTING UTILITIES TO BE LOCATED IN ORANGE PAINT ON GRID SYSTEM. FDF WILL PROVIDE.
- INTRODUCTION OF FDF SAFETY OFFICER.
- TWO-WAY RADIO EMERGENCY CHANNEL NO. 7
- TRACK AUGER HAS BEEN APPROVED.

II. P.M.R.

- NONE

III. S.B.

- PERCENT COMPLETE REMAINS AT 5.63%
- ANTICIPATE 31 MARCH 1997 SCHEDULE APPROVAL PROCESS COMPLETE AND 1 APRIL 1997 UBS AUTHORIZATION TO MOBILIZE WITH WORK TO PROCEED 17 APRIL 1997.
- UBS TO BEGIN WORK AT K-65 TRENCH AND CONTINUE AT BIOSURGE LAGOON SOUTHWARD
- UBS MATERIALS SCHEDULE OUTSTANDING
- UBS SUBMITTAL OF AGGREGATE SAMPLES ANTICIPATED 31 MARCH 1997.
- UBS TO SUBMIT DOCUMENTATION ON STRAW

IV. D.&C.I.

- RCI FOR HDPE CLOSED
- PREVIOUS ITEM C OPEN

000197

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 30 MARCH 1997

- PREVIOUS ITEM D, SHEET NUMBER TO BE ADDED.
- CATCH BASIN, PRESENTLY IN A FENCED IN AREA AT PUMPHOUSE, TO BE LOCATED.

V. M.&U.D.S.

- VBS DELIVERY AND STATUS REPORT DUE

VI. Q&I.

- VBS TO SUBMIT A NARRATIVE ON ROLES AND RESPONSIBILITIES FOLLOWED BY RESUBMITTAL OF QA/QC PLAN IN ITS ENTIRETY.
- VBS TO DEVELOP FORMS AS INDICATED IN PART NINE OF THE CONTRACT
- ONE TELEPHONE POLE REJECTED, TO BE TAGGED

VII. S.A.

- PREVIOUS A UNDER REVIEW
- CHANGE ORDERS NO. 5 THROUGH NO. 7, PROPOSALS FOR RECEIVED.
- PAY REQUEST NO. 2 UNDER REVIEW.
- FIELD LABORATORY TRAILERS TO BE IN USE BY GEO SYNTEC TO BE RELOCATED PRIOR TO 17 APRIL 1997

ACTION ITEMS

NO. 1 HEALTH AND SAFETY PLAN MATRIX TO BE REVISED IF REQUIRED UPON APPROVAL OF THE PLAN.

000198

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 30 MARCH 1997

NO. 3 CLOSED 25 MARCH 1997

NO. 4 TO BE REVIEWED THE WEEK OF 31 MARCH 1997

NO. 5 TO BE ADDRESSED DURING MOBILIZATION

NO. 6 UNDER REVIEW ANTICIPATE CLOSURE 27 MARCH 1997

NO. 7 TO BE REVIEWED

NO. 8 FINALIZE SOUTH TRAILER LOCATIONS (CONTRACTORS)

NO. 9 REVIEW STORM WATER DISCHARGE REQUIREMENT.

ACRONYMS USED ABOVE REPRESENT ITEMS NOTED ON MEETING NOTES, LEACHATE CONVEYANCE SYSTEM. REFER 20 MARCH 1997 MEETING NOTES FOR REFERENCE TO TOPICS NOTED ABOVE.

000199

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 06 APRIL 1997

THE FOLLOWING COVERS THE PERIOD FROM 31 MARCH THROUGH 6 APRIL 1997.

ATTENDED SUBCONTRACTOR LEACHATE CONVEYANCE SYSTEM MEETING, 3 APRIL 1997. AGENDA, ATTENDANCE RECORD AND MINUTES BY FLUOR DANIEL FERNALD (FDF). REFER GEO SYNTEC RESIDENT ENGINEER WEEKLY REPORT AND FDF MEETING MINUTES.

ATTENDED FDF ALL HANDS MEETING 1 APRIL 1997. AGENDA, ATTENDANCE RECORD AND MINUTES BY FDF. REFER GEO SYNTEC RESIDENT ENGINEER WEEKLY REPORT AND FDF MEETING MINUTES.

ATTENDED MEETING WITH FDF PERSONNEL 1 APRIL 97, ATTENDANCE DOCUMENTED IN DAILY REPORT. REVIEWED GEO SYNTEC MANPOWER AND LEAVE SCHEDULES THROUGH APPROXIMATELY MID MAY 1997, REFER BELOW. FDF ADVISED THAT MATERIALS RECEIVED FOR CONFORMANCE TESTING PRIOR TO ESTABLISHMENT OF AN ON SITE LABORATORY (REFER BELOW) ARE TO REMAIN ON SITE FOR TESTING. THIS SUBJECT TO BE REVISITED IF REQUIRED.

FDF ADVISED THAT CONCRETE TESTING BY ATEC FOR VILLAGE BUILDING SERVICES, INC (VBS) IS BEING DELETED.

VBS SUBMITTED AN EMBEDMENT SAMPLE AND DOCUMENTATION. FDF QUALITY ASSURANCE AND GEO SYNTEC RESIDENT ENGINEER ADVISED THAT TEST RESULTS AS DOCUMENTED DO NOT MEET SPECIFICATION REQUIREMENTS AND IS OUTDATED, EXCEEDS ONE YEAR. MATERIAL AND DOCUMENTATION TO BE RESUBMITTED.

000200

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 041

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 06 APRIL 1997

VBS SUBMITTED A SAMPLE OF BENTONITE AND DOCUMENTATION. SUBMITTAL UNDER REVIEW WITH SAMPLE MAINTAINED BY GEO SYNTEC. CONFORMANCE TESTING NOT REQUIRED.

FDF ANTICIPATES ESTABLISHMENT OF THE ON SITE LABORATORY INCLUSIVE OF ELECTRICAL AND WATER BY 11 APRIL 1997 WITH EXTERIOR ATTACHMENT TO FOLLOW. ADMINISTRATIVE TRAILER STATUS REMAINS UNCHANGED.

FDF ADVISED THAT NUCLEAR GAUGE CLEARANCE MUST BE RENEWED FOR EACH SIXTY (60) DAY PERIOD.

GEO SYNTEC REQUESTED CLEARANCE FOR THIRTY-FIVE (35) MM CAMERAS ON SITE. ANTICIPATE RESPONSE THE WEEK OF 7 APRIL 1997.

GEO SYNTEC TRANSMITTED SUBCONTRACTOR MANPOWER REPORTS FOR JANUARY, FEBRUARY AND MARCH 1997.

GEO SYNTEC SECURED THE SERVICES OF QUALITY TECHNIQUE INC. OF CINCINNATI, OHIO TO PERFORM CALIBRATION OF CALIPERS NOW IN PROGRESS OFF SITE. ARRANGEMENTS IN PROGRESS TO CALIBRATE AND OR SECURE CALIBRATED TEMPERATURE MEASURING DEVICE

GEO SYNTEC PREPARING SAFE WORK PLAN. GEO SYNTEC AND FDF HEALTH AND SAFETY PERSONNEL CONFERENCE VIA TELEPHONE SCHEDULED FOR 7 APRIL 1997.

GEO SYNTEC, FDF MONTHLY MEETING SCHEDULED FOR 8 APRIL 1997.

000201

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 041

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 06 APRIL 1997

GEO SYNTECS' N. MEEKINS AND J.F. MCMICHEN COMPLETED RADIOLOGICAL WORKER TRAINING (RAD). ADDITIONAL RADIOLOGICAL TRAINING AND IN-VIVO SCHEDULED FOR THE WEEK OF 7 APRIL 1997. N. MEEKINS COMPLETED ADDITIONAL MEDICAL EXAMINATION.

GEO SYNTECS' K. CARGILL VISITED THE SITE ON 2 APRIL 1997. B. GRISMAN, SOILS TECHNICIAN, SCHEDULED TO ARRIVE 15 APRIL 1997. N. MEEKINS SCHEDULED FOR LEAVE THE WEEK OF 21 APRIL 1997. J.F. MCMICHEN SCHEDULED FOR LEAVE THE WEEK OF 5 MAY 1997.

OSDF PHASE ONE CONTRACT AWARDED TO PETRO OF CINCINNATI, OHIO. FDF ANTICIPATES AUTHORIZATION TO MOBILIZE 1 MAY 1997 WITH WORK TO BEGIN 1 JUNE 1997 AND EXCAVATION 1 JULY 1997

0002202

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 13 APRIL 1997

THE FOLLOWING COVERS THE PERIOD FROM 7 THROUGH 13 APRIL 1997.

ATTENDED SUBCONTRACTOR LEACHATE CONVEYANCE SYSTEM MEETING, 10 APRIL 1997. AGENDA, ATTENDANCE RECORD AND MINUTES BY FLOUR DANIEL FERNALD (FDF). REFER GEOSYNTEC RESIDENT ENGINEER WEEKLY REPORT AND FDF MINUTES FOR DETAILS. ITEMS OF NOTE INCLUDED THE FOLLOWING. VILLAGE BUILDING SERVICES, INC. (VBS) SCHEDULE AS SUBMITTED, UNACCEPTABLE. VBS SAFE WORK PLAN, STATUS B. HEALTH AND SAFETY MATRIX REVISION ONE TO BE ISSUED BY END OF APRIL 1997. TRENCH BOXES TO BE "CERTIFIED" PRIOR TO USE. MANHOLE EMBEDMENT FILL SUBMITTAL AND SAMPLE REQUIRED. VBS TO MOBILIZE TRAILERS 14 APRIL 1997.

GEOSYNTEC RESIDENT ENGINEER ATTENDED THE ASSESSMENT SCHEDULE MEETING. REFER RESIDENT ENGINEER WEEKLY REPORT.

ATTENDED QUALITY ASSURANCE / QUALITY CONTROL INFORMAL MEETING WITH REPRESENTATIVES OF FDF AND VBS IN ATTENDANCE. TOPICS INCLUDED INSPECTION AND TESTING PROCEDURES, NON CONFORMANCE PROCEDURES, DAILY REPORTS AND GENERAL DOCUMENTATION.

VBS RESUBMITTED PIPE EMBEDMENT FILL SAMPLE. AT PRESENT PHYSICAL TESTING CANNOT ~~BE~~ 13/4/97 BE PERFORMED ON SITE. SAMPLES TO BE FORWARDED TO GEOSYNTEC GEL FACILITY FOR TESTING. FDF QUALITY ASSURANCE AND VBS QUALITY ASSURANCE / QUALITY CONTROL TO SCHEDULE SOURCE SAMPLING OF PROPOSED EMBEDMENT FILL TO BE CONDUCTED BY GEOSYNTEC.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 06 APRIL 1997

FDF CONFIRMED THAT CLEARANCE FOR THE USE OF THIRTY-FIVE (35) MM CAMERAS IS NOT REQUIRED. HOWEVER, TWO GEOSYNTEC CAMERAS RECEIVED PROPERTY TAGS BY SECURITY. GEOSYNTEC WILL MAINTAIN PHOTOGRAPHIC DOCUMENTATION OF CONSTRUCTION RELATED EQUIPMENT, MATERIALS AND PROCEDURES.

GEOSYNTEC IS PREPARING A SAFE WORK PLAN TO BE SUBMITTED IN THE NEAR FUTURE.

GEOSYNTEC'S N. MEEKINS AND J.F. McMICHEN COMPLETED SITE WORKER, RADIOLOGICAL II AND RADIOLOGICAL PRACTICAL TRAINING. TRANSMITTED SIGNED COPIES OF "OSHA THREE DAY SUPERVISED FIELD EXPERIENCE" FORMS TO FDF. IN VIVO'S RESCHEDULED FOR 17 APRIL 1997. REQUESTED FDF SCHEDULE THE REQUIRED TRAINING, DRUG TEST AND MEDICAL MONITORING/EXAMINATIONS FOR GEOSYNTEC'S B. GRISMAN BEGINNING 15 APRIL 1997.

GEOSYNTEC'S K. CARGILL CONDUCTED A SITE VISIT AND ATTENDED GS/FDF MONTHLY MEETING ON 8 APRIL 1997.

FDF RELOCATED "ON SITE" LABORATORY TRAILERS. THE TRAILERS REQUIRE TIE-DOWN, ACCESS (STEPS), ELECTRICAL POWER, WATER AND EXTERIOR ATTACHMENT. SAFETY RELATED ITEMS MUST BE COMPLETED PRIOR TO OPERATION. STATUS OF ADMINISTRATIVE TRAILER REMAINS UNCHANGED.

FDF ANTICIPATES OSDF PHASE ONE ALLIGNMENT MEETING TO BE CONDUCTED ON 21 APRIL 1997

000204

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 041

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 20 APRIL 1997

THE FOLLOWING COVERS THE PERIOD FROM 14 THROUGH 20 APRIL 1997.

ATTENDED FLOUR DANIEL FERNALD (FDF) ALL HANDS MEETING, 15 APRIL 1997. AGENDA, ATTENDANCE RECORD AND MINUTES BY FDF. FOLLOWING ARE EXCERPTS FROM THE MEETING.

- NEW LOCK AND TAG PROCEDURE TO BE IMPLEMENTED 15 JULY 1997. ALL PERSONNEL TO ATTEND AWARENESS COURSE AND IF APPLICABLE A HANDS ON COURSE.
- PREVENTATIVE MAINTENANCE AND CALIBRATION TO BE PERFORMED ON APPLICABLE EQUIPMENT.
- TIMESHEETS MUST BE MAINTAINED DAILY AND BE LOCATED AT EACH INDIVIDUALS WORK STATION. RECORDS MAY BE IN THE FORM OF LOG BOOKS OR MAINTAINED ON COMPUTER. SUPERVISORS MUST INITIAL COMPLETED TIMESHEETS.
- OHIO EPA TO REVIEW ALL DCN'S
- SITE-WIDE COMMUNICATIONS OUTAGE SCHEDULED FOR 23 MAY 1997 LATE P.M. HOURS FOR APPROXIMATELY 6 TO 8 HOURS.

D. BODINE, GEOSYNTEC RESIDENT ENGINEER SUBCONTRACTOR WEEKLY MEETING AND OTHERS. REFER RESIDENT ENGINEER WEEKLY REPORT AND FDF MEETING MINUTES.

VILLAGE BUILDING SERVICES, INC (VBS) SUBMITTED HIGH DENSITY POLYETHYLENE (HDPE) PIPE DOCUMENTATION PRESENTLY UNDER REVIEW. REFER GEOSYNTEC RESIDENT ENGINEER WEEKLY REPORT FOR STATUS. ANTICIPATED DELIVERY OF PIPE THE WEEK OF 21 APRIL 1997.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 20 APRIL 1997

A GRAIN SIZE DISTRIBUTION (SIEVE ANALYSIS) TEST WAS COMPLETED ON A PIPE EMBEDMENT SAMPLE (REFER LCS SPECIFICATION SECTION 02215) PEF-01 PREVIOUSLY SUBMITTED BY UBS. RESULTS OF THE TEST WERE TRANSMITTED TO THE RESIDENT ENGINEER FOR APPROVAL THROUGH THE SUBMITTAL PROCESS. UBS SUBMITTED A MANHOLE EMBEDMENT SAMPLE, DESIGNATED MEF-01, GRAIN-SIZE DISTRIBUTION TEST IN PROGRESS. GEOSYNTEC OBTAINED ADDITIONAL PIPE AND MANHOLE EMBEDMENT SAMPLES FOR CONFORMANCE TESTING. SAMPLES DESIGNATED AS PEF-02 AND MEF-02 RESPECTIVELY. FDF QUALITY ASSURANCE AND UBS QUALITY CONTROL/ASSURANCE REPRESENTATIVES ACCOMPANIED GS QC REPRESENTATIVE TO UBS VENDOR POWELL GRAVEL AND TOPSOIL. GRAIN-SIZE DISTRIBUTION TESTS ARE BEING CONDUCTED AT GEOSYNTEC'S GEL LABORATORY IN ALPHARETTA, GEORGIA. REFER ON-SITE LABORATORY FACILITY STATUS.

FDF HEALTH AND SAFETY REPRESENTATIVE COMPLETED AN INFORMAL REVIEW AND COMMENT OF GEOSYNTEC'S DRAFT SAFE WORK PLAN. FINAL DOCUMENT IN PROGRESS.

GEOSYNTEC'S B. ERISMAN, DESIGNATED SOILS TECHNICIAN, ARRIVED ON-SITE 15 APRIL 1997. A TEMPORARY BADGE HAS BEEN SECURED THROUGH 23 APRIL 1997. GET, RAD WORKER, RESPIRATOR TRAINING AND DRUG TESTING HAVE BEEN COMPLETED. SITE WORKER AND RADIOLOGICAL PRACTICAL TRAINING SCHEDULED FOR THE WEEK OF 21 MARCH 1997. FDF TO SCHEDULE REQUIRED MEDICAL EXAMINATIONS AND CONFINED SPACE TRAINING.

GEOSYNTEC'S N. MEEKINS AND J.F. McMICHEN COMPLETED IN VIVO MONITORING. N. MEEKINS ATTENDED GET TRAINING, EXISTING TRAINING TO EXPIRE 3 MAY 1997.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 20 APRIL 1997

FDF TO SCHEDULE CONFINED SPACE TRAINING AND RELATED MEDICAL EXAMINATIONS FOR N. MEEKINS AND J.F. McMICHEN. GEOSYNTEC PERSONNEL (TWO) TO ATTEND THE THIRTY HOUR CONSTRUCTION OUTREACH TRAINING AS SCHEDULES PERMIT. TRAINING IS CONDUCTED ON AN EIGHT HOUR FIVE DAY BASIS.

GEOSYNTEC'S N. MEEKINS DEPARTED 18 APRIL 1997. SCHEDULED TO RETURN 27 APRIL 1997.

THE STATUS OF AN ADMINISTRATIVE TRAILER TO BE DESIGNATED FOR USE BY GEOSYNTEC PERSONNEL REMAINS UNCHANGED. J.F. McMICHEN SCHEDULED TO AGAIN BE RELOCATED TO A TEMPORARY LOCATION WITHIN THE NEXT TWO WEEKS. STATUS OF ON-SITE LABORATORY TRAILERS AS FOLLOWS. ELECTRICAL POWER, WATER, TIE-DOWN AND TRAILER ACCESS REMAIN UNCHANGED. CALIBRATION OF LABORATORY EQUIPMENT EXCLUDING SCALES AND EQUIPMENT "SET-UP" TO FOLLOW TRAILER TIE-DOWN AND ACCESS. CALIBRATION OF SCALES TO FOLLOW INSTALLATION OF ELECTRICAL POWER. TRAILERS TO BE INSPECTED BY FDF HEALTH AND SAFETY REPRESENTATIVE PRIOR TO OCCUPANCY. IN CONJUNCTION GEOSYNTEC HAS REQUESTED TWO-WAY RADIO'S TO MAINTAIN THE "BUDDY SYSTEM" REQUIREMENTS.

PHASE ONE ALIGNMENT MEETING SCHEDULED FOR 21 APRIL 1997.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LCS / PHASE ONE WEEK ENDING: 27 APRIL 1997

THE FOLLOWING COVERS THE PERIOD FROM 21 APRIL 1997 THROUGH 27 APRIL 1997.

LCS

ATTENDED LEACHATE CONVEYANCE SYSTEM (LCS) SUBCONTRACTOR WEEKLY MEETING CONDUCTED ON 22 APRIL 1997. AGENDA, ATTENDANCE RECORD AND MINUTES BY FLUOR DANIEL FERNALD (FDF). REFER GEOSYNTEC RESIDENT ENGINEER WEEKLY REPORT AND FDF MINUTES FOR DETAILS. FOLLOWING ARE KEY ITEMS NOTED.

- LCS EXCAVATION TO BEGIN THE WEEK OF 28 APRIL 1997.
- MANHOLE EMBEDMENT FILL CONFORMANCE SAMPLE TEST RESULTS DID NOT MEET SPECIFICATION REQUIREMENTS FOR GRAIN SIZE DISTRIBUTION. VILLAGE BUILDING SERVICES, INC. (VBS) MAY SUBMIT AN ALTERNATIVE VENDOR. VBS TO ADVISE.
- INTEGRATED SUBCONTRACTOR MEETINGS ARE TO BE CONDUCTED WEEKLY. GEOSYNTEC TO ATTEND AS PER FDF PROJECT MANAGER. FDF TO ADVISE REGARDING DATES AND TIME.
- HDPE PIPE SCHEDULED TO ARRIVE 24 APRIL 1997.

VBS RECEIVED HDPE PIPE. GEOSYNTEC WAS NOT ADVISED OF RECEIPT PRIOR TO IT'S OFF-LOADING. VBS MAINTAINED DOCUMENTATION ACCOMPANYING THE PIPE. CERTIFICATION DOCUMENTATION SCHEDULED AS PART OF THE DOCUMENTS. GEOSYNTEC THROUGH FDF REQUESTED A COPY OF THE DOCUMENTS. THE PIPE WAS INSPECTED FOR STORAGE, QUANTITY, MARKINGS, DAMAGE, DIMENSION, APPURTENCES (PRESENTLY BOXED AND SEALED) ITEMS NOT CONFIRMED AND PHOTOGRAPHED. FOLLOWING THE INITIAL INSPECTION GEOSYNTEC WAS ADVISED BY FDF THAT THE PIPE MAY NOT BE FOR LCS PURPOSES OR HAVE BEEN INADVERTENTLY SHIPPED

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 041

DESCRIPTION: LCS / PHASE ONE WEEK ENDING: 27 APRIL 1997

TO THE SITE. REMOVAL FROM SITE MAYBE REQUIRED OR SUBMITTAL OF ADDITIONAL DATA FOR APPROVAL. FOLLOWING CLAIRIFICATION GEOSYNTEC WILL COMPLETE, IF REQUIRED, THE INSPECTION PROCESS AND REPORT FINDINGS.

VBS CONDUCTING LAYOUT FOR FUTURE EXCAVATION AND INSTILLATION OF THE LEACHATE CONVEYANCE SYSTEM.

PHASE ONE

ATTENDED PHASE ONE SUBCONTRACTOR ALIGNMENT MEETING CONDUCTED ON 21 APRIL 1997. AGENDA, ATTENDANCE RECORD AND MEETING MINUTES BY FDF. REFER FDF ALIGNMENT MEETING MINUTES FOR DETAILS.

ATTENDED COORDINATION MEETING CONDUCTED ON 23 APRIL 1997 AT THE OFFICES OF PETRO ENVIRONMENTAL TECHNOLOGIES (PET), CINCINNATI, OHIO. IN ATTENDANCE WERE REPRESENTATIVES OF FDF AND PET QUALITY ASSURANCE / CONTROL AND CONSTRUCTION DEPARTMENTS AND FDF ENGINEERING AND GEOSYNTEC QUALITY CONTROL. THE FOLLOWING IS A SYNOPSIS OF ISSUES ADDRESSED.

SCHEDULE:

- MID MAY, INITIATE SEDIMENTATION POND CONSTRUCTION.
- * 30 JUNE, COMPLETE SEDIMENTATION POND.
- * 1 JULY, INITIATE EXCAVATION PHASE ONE.
- 14 JULY (APPROXIMATE), INITIATE SOILS (CLAY LINER) PLACEMENT.
- ▲ 15 AUGUST, INITIATE DEPLOYMENT OF GEOSYNTHETICS.
- ** 2 SEPTEMBER, COMPLETE SOILS (CLAY) PLACEMENT.
- ** 21 OCTOBER, COMPLETE DEPLOYMENT OF GEOSYNTHETICS.
- * 26 NOVEMBER, COMPLETE COVER
- ** ▲ 31 JULY, COMPLETE PHASE ONE AND INTERCELL BERM EXCAVATION.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 041

DESCRIPTION: LCS / PHASE ONE WEEK ENDING: 27 APRIL 1997

* · 31 DECEMBER OR PRIOR, COMPLETE CONTRACT.

* DATES INDICATED AS FIRM

** DATES INDICATED AS TENTATIVE

· PET MAY IMPLIMENT A SECOND (NIGHT) SHIFT CONSISTING OF MIXING AND COMPACTING SOILS (CLAY). HOWEVER, PET PROPOSES TO CONFIRM DURING ACTUAL CONSTRUCTION.

· FORMAL SCHEDULE TO BE SUBMITTED ON 24 APRIL 1997.

MATERIALS QUANTITIES (APPROXIMATE):

- RIPRAP
  - CLASS C 18,000 TONS
  - CLASS D 400 TONS
- CLAY LINER
  - 60,000 CUBIC YARDS
- COARSE AGGREGATE #57 STONE (SEDIMENTATION POND)
  - 150 TONS
- GRANULAR DRAINAGE MATERIAL / DRAINAGE CORRIDOR
  - 39,000 TONS
  - 3,000 TONS
- COMPACTED FILL
  - 40,000 CUBIC YARDS
- PIPE BEDDING
  - 300 TONS
- ROAD BASE (RELOCATION OF NORTH ACCESS ROAD)
  - 7600 TONS

ADDITIONAL ITEMS REVIEWED:

000220

- EXCAVATE 4,000 CUBIC YARDS OF SOIL (CLAY) DAILY

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 041

DESCRIPTION: LCS / PHASE ONE WEEK ENDING: 27 APRIL 1997

- TWO SOILS STABILIZERS AND TWO 815 COMPACTORS TO BE PROVIDED.
- MECHANICAL AND MANUAL REMOVAL OF ROCK FROM SOILS (CLAY).
- SEGREGATION OF CLAY SOILS INTO DAILY STOCKPILES.
- CONFORMANCE SAMPLING OF CLAY SOILS DAILY AS EXCAVATED, ONE COMPLETE SERIES OF TESTS PER 1,500 CUBIC YARDS OF MATERIAL.
- APPROXIMATE FIVE DAYS TO COMPLETE TESTS FOR EACH SERIES EXCLUDING PERMEABILITY.
- GEOMEMBRANE APPROXIMATELY 360,000 SQUARE FEET TO BE FURNISHED BY NATIONAL SEAL AND DEPLOYED BY GROUND-SAFE.
- GRANULAR DRAINAGE MATERIAL TO BE STOCKPILED OFF SITE, TRANSPORTED AND PLACED DIRECTLY INTO THE CELL.
- SEGREGATION OF GRANULAR DRAINAGE MATERIAL INTO SEPERATE STOCKPILES COINCIDING WITH CONFORMANCE SAMPLING.
- OFF SITE COLLECTION OF CONFORMANCE SAMPLES BY GEOSYNTEC
- SURVEY OF SUBGRADE PRIOR TO DEPLOYMENT OF SOILS (CLAY).
- NO UNAUTHORIZED PERSONNEL PERMITTED ON SITE.
- FDF TO ADVISE REGARDING INSPECTIONS OF GEOSYNTHETIC MANUFACTURERS FACILITIES.
- FDF MAY ELECT TO EXCAVATE PHASE TWO TO WITHIN ONE FOOT OF SUBGRADE.

FDF QUALITY ASSURANCE REQUESTED CLAIRIFICATION OF VARIOUS ITEMS WITHIN GEOSYNTEC'S FIELD SERVICES PROCEDURE MANUAL, REVISION 27/4/97 A. CLAIRIFICATIONS WERE MADE WITH COMMENTS NOTED. FDF TO TRANSMIT THE DOCUMENT TO GEOSYNTEC FOR COMPLETEION TO REVISION 0.

00011

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 041

DESCRIPTION: LCS / PHASE ONE WEEK ENDING: 27 APRIL 1997

FDF HEALTH AND SAFETY TRANSMITTED COMMENTS ON GEOSYNTEC'S DRAFT SAFE WORK PLAN. GEOSYNTEC TRANSMITTED A REVISED SAFE WORK PLAN DRAFT TO FDF FOR REVIEW AND COMMENT.

FDF ADVISED GEOSYNTEC TO SECURE AN ADMINISTRATIVE TRAILER TO BE MOBILIZED THE WEEK OF 28 APRIL 1997. LABORATORY TRAILERS HAVE BEEN TIED-DOWN, ELECTRIC POWER IN SERVICE AND ACCESS PROVIDED, COMPLETED 24 APRIL 1997. EXTERIOR ATTACHMENT AND ACCESS TO WATER REMAIN UNCHANGED. FOLLOWING THE ABOVE AND ON 25 APRIL 1997 GEOSYNTEC PROCEEDED TO ORGANIZE LABORATORY EQUIPMENT. INDEPENDENT CALIBRATION OF SCALES TO BE PERFORMED 28 APRIL 1997.

GEOSYNTEC STAFF

K. CARGILL VISITED THE SITE 21 AND 22 APRIL 1997 AND ATTENDED THE PHASE ONE ALIGNMENT MEETING.

N. MEEKINS RETURNED 27 APRIL 1997.

B. ERISMAN ACQUIRED PERMANENT ACCESS BADGE, COMPLETED SITE WORKER AND RADIOLOGICAL WORKER II PRACTICAL TRAINING AND IN VIVO TESTING. MEDICAL EXAMINATIONS SCHEDULED FOR 28 AND 29 APRIL 1997.

N. MEEKINS AND J.F. McMICHEN SCHEDULED 30 APRIL 1997 FOR MEDICAL EXAMINATION IN CONJUNCTION WITH CONFINED SPACE TRAINING. FDF TO SCHEDULE CONFINED SPACE TRAINING AND LOCK AND TAG TRAINING FOR GEOSYNTEC PERSONNEL. ADDITIONALLY SITE CUSTODIAN TRAINING TO BE SCHEDULED.

J.F. McMICHEN ACQUIRED A DOSEMITER. N. MEEKINS TO OBTAIN 28 APRIL 1997.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LCS / PHASE ONE WEEK ENDING: 27 APRIL 1997

GEOSYNTEC TO RESUME MOBILIZATION OF ADDITIONAL PERSONNEL IN THE NEAR FUTURE. MOBILIZATION DATES WILL BE BASED ON SUB-CONTRACTOR SCHEDULES, REQUIRED MEDICAL MONITORING AND AVAILABILITY OF SCHEDULED TRAINING COURSES REQUIRED AND PROVIDED BY FDF.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LCS / PHASE I WEEK ENDING: 04 MAY 1997

THE FOLLOWING COVERS THE PERIOD FROM 28 APRIL, 1997 THROUGH 04 MAY, 1997.

LCS

JEPH McMICHEN ATTENDED SEVERAL INFORMAL MEETINGS TO DISCUSS THE STATUS OF HDPE PIPE DELIVERED TO SITE. GEOSYNTEC IS AWAITING MANUFACTURERS DOCUMENTATION PROVIDED BY VILLAGE BUILDING SERVICES (VBS). GEOSYNTEC IS AWAITING SUBMITTAL OF ADDITIONAL SAMPLE AND DOCUMENTATION FOR MANHOLE EMBEDMENT FILL MATERIAL FROM VBS. THE ORIGINAL SUBMITTAL FAILED TO MEET THE SPECIFICATION REQUIREMENT FOR GRADATION.

J. McMICHEN ATTENDED LEACHATE CONVEYANCE SYSTEM (LCS) SUBCONTRACTOR MEETING HELD ON 29 APRIL, 1997. REFER TO MEETING MINUTES FOR DETAILS.

VBS ATTEMPTED TO PREQUALIFY WELDERS FOR HDPE PIPE BUT HAD TO RESCHEDULE DUE TO LACK OF QUALIFIED WELDING TECHNICIAN FROM MANUFACTURER. GEOSYNTEC WILL BE ADVISED OF RESCHEDULED DATE.

VBS HAS PREPARED A NONCONFORMANCE REPORT FOR HDPE PIPE WHICH IS STILL UNDER REVIEW BY FLUOR DANIEL FERNALD (FDF) AND GEOSYNTEC PENDING DOCUMENTATION.

ADDITIONAL HDPE PIPE ALONG WITH SILT FENCE WAS DELIVERED TO SITE THIS WEEK. DOCUMENTATION HAS NOT BEEN RECEIVED FROM VBS AT THIS TIME.

VBS INSTALLED CONSTRUCTION FENCE IN AREA WHERE CONSTRUCTION OF LCS IS TO BEGIN. THIS ACTIVITY WAS PERIODICALLY MONITORED BY BRIAN ERISMAN (GEOSYNTEC).

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LCS/ PHASE I WEEK ENDING: 04 MAY 1997

PHASE I - OSDF

J. McMICHEN ATTENDED PRECONSTRUCTION KICKOFF MEETING FOR PHASE I ON 01 MAY, 1997. REFER TO MEETING MINUTES, PREPARED BY FDF, FOR DETAILS.

J. McMICHEN WAS CONTACTED BY PETRO ENVIRONMENTAL TECHNOLOGIES, INC. (PET) TO DISCUSS SUBMITTAL PROCESS, PRIMARILY CONCERNING RIP RAP.

J. McMICHEN DISCUSSED IMPACTED SOIL PLACEMENT WITH JOHN BERRETZ (FDF)

J. McMICHEN MET WITH GREG JOHNSON (FDF) TO DISCUSS DRAFT OF SAFE WORK PLAN AND ~~REVIE~~ HEM 5/4/97 RECEIVE FDF COMMENTS. SAFE WORK PLAN WILL BE REVISED AND RESUBMITTED.

ON-SITE LABORATORY TRAILERS WERE TURNED OVER TO GEOSYNTEC FOR USE. WATER HAS NOT YET BEEN CONNECTED AND OUTSIDE COVERED WORK AREA IS NOT AVAILABLE AS OF THIS REPORT. FDF SAFETY INSPECTION OF TRAILERS REVEALED SOME PROBLEMS WHICH WERE CORRECTED BY B&J ELECTRICAL. FDF HAS INDICATED THAT BATHROOM FACILITIES (PORT-O-LET) WILL BE PROVIDED DURING THE WEEK BEGINNING 05 MAY, 1997. EYE WASH STATIONS WERE DELIVERED TO ON-SITE LABORATORY TRAILERS AND WILL BE PUT INTO SERVICE WHEN WATER IS AVAILABLE.

TEMPORARY USE OF THREE (3) CONSTRUCTION RADIOS WAS MADE AVAILABLE TO GEOSYNTEC BY FDF. NEW RADIOS WILL BE PROVIDED TO GEOSYNTEC ON THE WEEK BEGINNING 05 MAY, 1997.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LCS/ PHASE I WEEK ENDING: 04 MAY 1997

GEOSYNTEC STAFF

THE WRITER OBTAINED REQUIRED FDF DOSIMETRY ON 28 APRIL, 1997.

J. McMICHEN AND THE WRITER ATTENDED REQUIRED FDF FITNESS TESTING ON 30 APRIL, 1997.

B. ERISMAN PROVIDED FDF REQUIRED SAMPLE FOR BASELINE BLOODWORK ON 28 APRIL, 1997.

B. ERISMAN ATTENDED BASELINE PHYSICAL FOR FDF REQUIRED MEDICAL MONITORING ON 29 APRIL, 1997.

GEOSYNTEC IS CONDUCTING DAILY MEETINGS TO DISCUSS SAFETY ITEMS AND DAILY ACTIVITIES TO BE PERFORMED. B. ERISMAN WILL ATTEND DAILY TAILGATE SAFETY MEETINGS CONDUCTED BY VBS.

CALIBRATION OF SCALES AND BALANCES FOR ON-SITE LABORATORY WAS PERFORMED BY NORWOOD SCALE SERVICE ON 28 APRIL, 1997. CERTIFICATES OF CALIBRATION WERE OBTAINED FROM NORWOOD SCALE SERVICE ON 02 MAY, 1997.

INTERNAL CALIBRATION OF TEST EQUIPMENT WAS PERFORMED BY THE WRITER AND OBSERVED BY MIKE GODBER (FDF-QA) ON 29 APRIL, 1997.

REQUIRED BI-ANNUAL LEAK TEST WAS PERFORMED BY THE WRITER ON TROXLER MOISTURE/DENSITY GAUGE ON 30 APRIL, 1997.

PREQUALIFICATION LETTERS FROM GEOSYNTEC ATLANTA OFFICE FOR J. McMICHEN AND THE WRITER WERE RECEIVED AND FILED FOR REFERENCE. THE WRITER CONDUCTED PRE-QUALIFICATION AND DOCUMENTATION FOR B. ERISMAN CONCERNING FIELD/LABORATORY TESTING AND GENERAL PAPERWORK.

000216

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LCS/ PHASE I WEEK ENDING: 04 MAY 1997

THE WRITER WAS ADVISED TO RECORD DAILY WEATHER INFORMATION ON DAILY REPORTS. ALL OTHER TECHNICIANS WILL REFER TO REPORTS BY THE WRITER FOR WEATHER INFORMATION.

J. MCMICHEN WILL BE OFF-SITE DURING THE WEEK OF 05 MAY THROUGH 11 MAY, 1997, THEREFORE HIS DUTIES WILL BE PERFORMED BY THE WRITER WITH ASSISTANCE FROM D. BODINE (GEOSYNTEC - RE).

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LCS / PHASE I WEEK ENDING: 11 MAY 1997

THIS REPORT COVERS THE PERIOD FROM 05 MAY THROUGH 11 MAY, 1997.

LCS

SEVERAL MEETINGS WERE ATTENDED BY EITHER DAN BODINE (GEOSYNTEC - RE) OR BRIAN ERISMAN (GEOSYNTEC - ET) DURING THE WEEK. REFER TO MEETING MINUTES FOR DETAILS AND ATTENDANCE. BRIAN ERISMAN ALSO ATTENDED DAILY SAFETY MEETINGS AT VBS.

VILLAGE BUILDING SERVICES (VBS) INSTALLED ADDITIONAL CONSTRUCTION FENCING DURING THE WEEK.

IT WAS DETERMINED THAT THE ALIGNMENT OF THE LEACHATE CONVEYANCE SYSTEM (LCS), NEAR THE ADVANCE WASTE WATER TREATMENT (AWWT) FACILITY, WOULD REQUIRE ADJUSTMENT DUE TO INTERFERANCE OF TWO MONITORING WELLS.

WELDING PERSONNEL FOR HDPE DUAL CONTAINMENT LCS PIPING, EMPLOYED BY VBS, WERE QUALIFIED THIS WEEK. THIS ACTIVITY WAS OBSERVED BY BRIAN ERISMAN (GEOSYNTEC - ET) AND MIKE GODBER (FDF - QA).

LCS DUAL CONTAINMENT PIPE WELDING BEGAN ON FRIDAY, 09 MAY, 1997 AND CONTINUED ON SATURDAY, 10 MAY, 1997. THIS ACTIVITY WAS PERFORMED AT THE K-65 AREA.

TWO WELDS OF THE 4 INCH CARRIER PIPES WERE FOUND TO BE DEFECTIVE, CUT OUT AND REWELDED TO A SATISFACTORY CONDITION.

SOME PIPE EMBEDMENT FILL MATERIAL (SAND) WAS DELIVERED TO SITE AND STOCKPILED ALONG THE PROPOSED ROUTE OF THE LCS INSTALLATION.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LCS / PHASE I WEEK ENDING: 11 MAY 1997

PHASE I - OSDF

GEOSYNTEC QUALITY CONTROL (QC) HAD VERY LITTLE, IF ANY, INVOLVEMENT WITH PHASE I ACTIVITIES THIS WEEK. REFER TO DAN BODINE (GEOSYNTEC-RE) WEEKLY REPORT FOR DETAILS CONCERNING SUBMITTAL REVIEW, ETC.

GEOSYNTEC STAFF

THE WRITER AND BRIAN ERISMAN ATTENDED AND COMPLETED CONFINED SPACE TRAINING.

THE WRITER ATTENDED MONTHLY FDF/GEOSYNTEC MEETING. REFER TO MEETING MINUTES FOR DETAILS AND ATTENDANCE.

BRIAN ERISMAN ATTENDED LCS PROGRESS MEETING. REFER TO MEETING MINUTES FOR DETAILS AND ATTENDANCE.

DAN BODINE ATTENDED SEVERAL FORMAL AND INFORMAL MEETINGS DURING THE WEEK. REFER TO MEETING MINUTES AND RESIDENT ENGINEER (RE) WEEKLY REPORT FOR DETAILS.

THE WRITER PREPARED AND TRANSMITTED CALIBRATION DOCUMENTATION TO MIKE GODBER (FDF-QA). ADDITIONAL CALIBRATION IS REQUIRED AND WILL BE PERFORMED WHEN ON-SITE LABORATORY SET UP IS COMPLETED.

GEOSYNTEC RECEIVED SEVER DRAWINGS AND DOCUMENTS FROM ENGINEERING DOCUMENT CONTROL (EDC) THIS WEEK.

ORGANIZATION OF ON-SITE LABORATORY CONTINUES. AN ATTEMPT TO HOOK ~~UP~~ UP WATER SUPPLY TO ON-SITE LABORATORY TRAILERS WAS MADE BUT NOT COMPLETED DUE TO SEVERAL LEAKS IN THE TRAILERS INTERNAL WATER SYSTEM. ADDITIONAL ITEMS NOT YET PROVIDED INCLUDE COVERED CONCRETE WORK AREA

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LCS/PHASE I WEEK ENDING: 11 MAY 1997

OUTSIDE TRAILERS, PORT-O-LET FACILITY, CONCRETE PEDISTLE FOR COMPACTION TESTING (PROCTORS), AND SMALL DUMPSTER FOR TRASH CONTAINMENT AND DISPOSAL.

CERTIFIED THERMOMETER AND PARTIAL SHIPMENT OF CALIBRATION WEIGHTS WERE RECEIVED BY GEOSYNTEC THIS WEEK

ONE CONFORMANCE SAMPLE OF PIPE EMBEDMENT FILL WAS OBTAINED AND TESTED ON-SITE THIS WEEK. SAMPLE NO. PEF-03 WAS TESTED IN ACCORDANCE WITH ASTM C136 AS SPECIFIED IN SECTION 02215 OF LCS TECHNICAL SPECIFICATIONS AND FOUND TO BE ACCEPTABLE.

INTERACTION WITH GEOSYNTEC ATLANTA OFFICE CONTINUES IN SUPPORT OF THE PROJECT.

GEO SYNTEC IS IN POSSITION OF THREE LOANER RADIOS FROM FDF FOR SITE COMMUNICATIONS. THE WRITER UNDERSTANDS THESE RADIOS WILL BE REPLACED BY PERMANANT RADIOS WHICH ARE ON SITE BUT NOT YET PUT INTO "THE SYSTEM".

GEO SYNTEC HAS OBTAINED AN ADMINISTRATIVE OFFICE TRAILER WHICH SHOULD BE DELIVED TO THE SITE EARLY NEXT WEEK.

JEPHORY MCMICHEN (GEOSYNTEC-SM) IS SCHEDULED TO RETURN TO SITE ON MONDAY, 12 MAY, 1997 TO RESUME HIS DUTIES.

000220

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 041

DESCRIPTION: LCS / PHASE ONE WEEK ENDING: 18 MAY 1997

THE FOLLOWING COVERS THE PERIOD FROM 12 MAY 1997 THROUGH 18 MAY 1997.

SITE CONDITIONS WERE DRY WITH TRACE RAINFALL RECORDED. TEMPERATURES RANGED FROM FOURTY TWO TO SIXTY NINE DEGREES FAHRENHEIT, 12 THROUGH 16 MAY 1997.

LEACHATE CONVEYANCE SYSTEM

THE CONTRACTOR, VILLAGE BUILDING SERVICES, INC. (VBS) PERFORMED THE FOLLOWING:

- CONTINUED WELDING FOUR AND EIGHT INCH HDPE DUAL CONTAINMENT PIPE. TOTAL 440 LINEAR FEET WELDED.
- INITIATED EXCAVATION OF LCS TRENCH, REFER DRAWING 95X-5900-G00261 APPROXIMATE STATION NUMBER 8+10 WEST.
- INITIATED PLACEMENT OF PIPE EMBEDMENT FILL MATERIAL, REFER LCS TECHNICIAL SPECIFICATION SECTION 02215-6 PART C.

IN CONJUNCTION WITH FUTURE PAVEMENT CONSTRUCTION BARRETT PAVING INITIATED EXCAVATION FOR INSTALLATION OF UTILITY LINES INCLUDING OF LCS BETWEEN APPROXIMATE STATION NUMBERS 10+00 AND 13+00. REFER DRAWING 92X-5900-G00266. A SUMP AND PUMP WAS ALSO INSTALLED.

ACTION ITEMS (CONTINUED) 000231

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 041

DESCRIPTION: LCS / PHASE ONE WEEK ENDING: 18 MAY 1997

LCS ACTION ITEMS

- PLASTIC UNDERGROUND WARNING TAPE (4" WIDE), PLACEMENT.
  REFER PARSONS DRAWING 92X-5900-G00257, DETAIL NOT DEFINER.
  REFER GEOSYNTEC DRAWING F96-2016, SHEET NUMBER M-6A, DETAILS C AND D TYPICAL.

FLUOR DANIEL FERNALD (FDF) J. JENKINS TO INITIATE DCN. ADDITIONALLY J. JENKINS ADVISED 4" TAPE NOT TYPICALLY MANUFACTURED. TWO 2" WIDE TAPES TO BE INSTALLED. REFER LCS TECHNICAL SPECIFICATION SECTION 02215 PART 2 2.01G.

- SURVEY
  INCOMPLETE SURVEY CONTROL FOR SCOPE AND GRADE BY UBS. REFER LCS TECHNICAL SPECIFICATIONS SECTION 02100 INCLUDING AS REVISED VIA DCN NO. 1700-009.

FDF R. MCGUIRE (CONSTRUCTION) AND M. GODBER (QUALITY ASSURANCE) HAVE BEEN ADVISED AND ARE ADDRESSING.

- TRENCH BACKFILL (SOILS)
  EXCAVATED SOILS CONTAINING ROCK > 3" (INCHES). REFER LCS TECHNICAL SPECIFICATIONS SECTION 02215 PART 2 2.01G AND REFERENCE SECTION 02200 PART 2 2.01B.

FDF R. MCGUIRE (CONSTRUCTION) ADVISED. AS OF 18 MAY 1997 BACKFILL SOILS HAVE NOT BEEN PLACED.

ATTENDED OSDF INTEGRATED SUBCONTRACTOR WEEKLY PROGRESS MEETING CONDUCTED ON 13 MAY 1997. AGENDA, ATTENDANCE RECORD AND MINUTES BY FDF. REFER FDF MINUTES FOR DETAILS. FUTURE SUB-CONTRACTOR PROGRESS MEETINGS TO BE SEPERATED BY SUBCONTRACTORS.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 041

DESCRIPTION: LCS / PHASE ONE WEEK ENDING: 18 MAY 1997

GEOSYNTEC CONSULTANTS (GC) PROVIDED THE FOLLOWING SERVICES.

- MONITORED, DOCUMENTED AND PHOTOGRAPHED SUBCONTRACTOR ACTIVITIES.
- MONITORED AND DOCUMENTED HDPE PIPE TRIAL AND PRODUCTION WELDING.
- MONITORED VBS EXCAVATING SOILS.
- MONITORED BARRETT PAVING (BP) EXCAVATING SOILS.
- MONITORED PIPE EMBEDMENT FILL.
- OBTAINED BULK SOIL SAMPLE LCS-01, PROPOSED LCS TRENCH BACKFILL SOILS. ON SITE TESTING IN PROGRESS; MOISTURE, GRAIN SIZE DISTRIBUTION, ATTERBERG LIMITS, MOISTURE-DENSITY RELATIONSHIP.

GEOSYNTEC PERSONNEL SCHEDULE

- J. F. McMICHEN RESUMED CQC SITE MANAGER DUTIES 12 MAY 97.
- B. GRISMAN, ENGINEERING TECHNICIAN DEPARTING 23 MAY 1997 SCHEDULED TO RETURN 2 JUNE 1997.
- R. PEDDICORD, ENGINEERING TECHNICIAN SCHEDULED TO ARRIVE 27 MAY 1997.
- P. ODURA, ENGINEERING TECHNICIAN SCHEDULE NOT CONFIRMED.

GEOSYNTEC PERSONNEL HOUSING

- J.F. McMICHEN RELOCATED TO VILLAGE PARK APARTMENTS (VPA), TELEPHONE / FAX 513-860-1390.
- R. PEDDICORD LOCAL HIRE
- N. MEEKINS, SENIOR TECHNICIAN SCHEDULED TO RELOCATE TO (VPA) ON OR ABOUT 28 MAY 1997.

000223

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 041

DESCRIPTION: LCS / PHASE ONE WEEK ENDING: 18 MAY 1997

- B. ERISMAN SCHEDULED TO PERMANENTLY RELOCATE TO THE CINCINNATI, OHIO AREA ON OR ABOUT 1 JUNE 1997.

GEOSYNTEC PERSONNEL TRAINING, SITE SPECIFIC

- D. BODINE, RESIDENT ENGINEER, COMPLETED SITE WORKER TRAINING. CONFINED SPACE TRAINING TO BE SCHEDULED.
- J. F. McMICHEN SCHEDULED TO ATTEND CONFINED SPACE TRAINING 20 MAY 1997.
- R. PEDDICORD, AS PER "INDIVIDUAL TRANSCRIPTS" PROVIDED BY FDF, HAS COMPLETED THE FOLLOWING:
  - SITE ACCESS AND ANNUAL REFRESHER
  - CBT GENERAL EMPLOYEE TRAINING (GET)
  - TWENTY-FOUR HOUR FIELD EXPERIENCE
  - NEW EMPLOYEE ORIENTATION PLUST
  - SITE WORKER TRAINING
  - CBT RESPIRATORY SAFETY
  - RADIATION WORKER II

GEOSYNTEC MISCELLANEOUS

- SUBMITTED SAFE WORK PLAN 14 MAY 1997. TASK SPECIFIC PLANS TO BE ADDED AS REQUIRED.
- B. ERISMAN ATTENDING UBS "TAILGATE" SAFETY MEETINGS.
- J. McMICHEN, B. ERISMAN, N. MEEKINS AND D. BODINE COMPLETED "SIGN OFF" ON BARRETT PAVING SAFETY MATRIX.

STATUS OF ADMINISTRATIVE AND FIELD LABORATORY TRAILERS.

000224

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LCS / PHASE ONE WEEK ENDING: 18 MAY 1997

ADMINISTRATIVE TRAILER

- ARRIVED 13 MAY 1997
- TRAILER VENDOR REQUIRED TO ADJUST AND OR ADD ADDITIONAL CONCRETE MASONRY UNITS (BLOCKS) AS REQUIRED BY FDF OR OTHERS.
- SKIRTING REQUIRED
- FDF TO PROVIDE ELECTRICAL AND TELEPHONE / FAX SERVICE, SANITARY FACILITIES, WASTE DISPOSAL, FIRE EXTINGUISHER(S), FURNITURE (DESKS, CHAIRS, FILING CABINETS ETC), COPY MACHINE, COMPUTERS (GEOSYNTEC PROVIDING ONE DESKTOP WITH PRINTER) AND ANY ASSOCIATED PERMITS
- FDF TO CONDUCT A SAFETY INSPECTION PRIOR TO GEOSYNTEC OCCUPYING.
- TRAILER NUMBER T-503

FIELD LABORATORY TRAILERS

- FDF PROVIDED AN APPROXIMATE TWELVE BY TWELVE FOOT CONCRETE PAD ADJACENT TO THE TRAILERS.
- FDF TO PROVIDE A COVERED ATTACHMENT.
- INITIAL TIE-IN OF PLUMBING REVEALED MANY PLUMBING LEAKS IN EACH TRAILER. FDF TO INITIATE REPAIRS. IN THE INTERIM A GARDEN HOSE HAS BEEN INSTALLED OUTSIDE THE TRAILERS.
- GEOSYNTEC PERSONNEL CONSTRUCTED A CONCRETE PEDESTAL TO BE USED IN PERFORMING MOISTURE-DENSITY RELATIONSHIPS

PROCESSING AND DRYING OF BULK SOILS SAMPLES (± 50 POUNDS)

000225

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LCS / PHASE ONE WEEK ENDING: 18 MAY 1997

ARE PERFORMED ON THE CONCRETE PAD ADJACENT TO THE TRAILERS. HIGH WINDS AND RAINS (TRACE TO DATE) HALT AND DELAY TESTING.

WASH NUMBER TWO HUNDRED SIEVES ARE PRESENTLY CONDUCTED OUTSIDE THE TRAILERS USING A GARDEN HOSE AND FIVE GALLON BUCKET. WEATHER CONDITIONS NOTED ABOVE RESULT IN DELAYS.

MISCELLANEOUS

FDF HAS PROVIDED THREE TWO-WAY RADIO'S AND CHARGERS.

AT THE REQUEST OF FDF QA DEPARTMENT DAILY FIELD REPORTS AUTHORED BY B. ERISMAN (LCS) ARE BEING PROVIDED.

OSDF PHASE ONE

PETRO ENVIRONMENTAL TECHNOLOGIES (PET) HAS NOT MOBILIZED. REFER GEOSYNTEC RESIDENT ENGINEER REPORT FOR STATUS OF SUBMITTALS.

000226

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LCS / PHASE ONE WEEK ENDING: 25 MAY 1997

THE FOLLOWING COVERS THE PERIOD FROM 19 MAY 1997 THROUGH 25 MAY 1997.

SITE CONDITIONS VARIED FROM DRY TO WET WITH 2.0* INCHES OF RAINFALL RECORDED. TEMPERATURES RANGED FROM FOURTY TO NINGTY DEGREES ~~FAHER~~ FAHRENHEIT.

LEACHATE CONVEYANCE SYSTEM

THE CONTRACTOR, VILLAGE BUILDING SERVICES, INC. (VBS) PERFORMED THE FOLLOWING.

- PLACED PIPE EMBEDMENT FILL BETWEEN APPROXIMATELY STATION NO. 8+20 TO 10+20.
- CONTINUED WELDING FOUR AND EIGHT INCH HDPE DUAL CONTAINMENT PIPE.
- COMPACTED PIPE EMBEDMENT FILL.
- INSTALLED HDPE DUAL CONTAINMENT PIPE BETWEEN APPROXIMATE STATION NO. 8+20 TO 10+00.
- EXCAVATED NORTH OF AND ADJACENT TO K-65 UTILITIES, PIT TO ALLOW FOR FUTURE BORING.
- SOILS PREVIOUSLY EXCAVATED BETWEEN STATION NO. 8+20 TO 10+20 HAD BEEN SPRAYED WITH A SOLUTION OF TREE SAP AND WATER AS A DUST CONTROL MEASURE. REFER LCS TECHNICAL SPECIFICATION SECTION 02200-4 PART 3.01 B.
- INSTALLED ADDITIONAL UTILITY PIPE.

000227

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LCS / PHASE ONE WEEK ENDING: 25 MAY 1997

BARRETT PAVING (BP) CONTINUED EXCAVATION BETWEEN APPROXIMATE STATION NO. 10+00 AND 13+25, REFER DRAWING 92X-5900-G 00266. A SECOND SUMP/PUMP WAS INSTALLED IN THE ABOVE AREA. PIPE EMBEDMENT FILL WAS PLACED TO RECEIVE UTILITIES OTHER THAN THE HDPE DUAL CONTAINMENT. SOURCE OF FILL, POWELL GRAVEL AND TOPSOIL.

B.L. PAYNE (BLP), REGISTERED LAND SURVEYOR PROVIDED SURVEYS AT VARIOUS LOCATIONS.

ACTION / INFORMATION

- PLASTIC UNDERGROUND WARNING TAPE, DRAWING 92X5900-G-00266 NOTE SIX, SIX INCH WIDE TAPE. REFER WEEKLY REPORT DATED 18 MAY 1997. TO BE ADDRESSED VIA DCN AND OR AS BUILT DRAWINGS.

- HILTI ANCHORS, TAGGED HOLD. REFER DRAWING G-00258 SHEET 0008 NOTE SIX.

- SUBMITTAL MANHOLE EMBEDMENT FILL SAMPLE MEF-03. DOES NOT MEET GRAIN SIZE DISTRIBUTION AS PER LCS TECHNICAL SPECIFICATION SECTION 02215 PART 2.01B.

- VIBRATORY COMPACTOR CAPABLE OF COMPACTING BETWEEN UTILITY LINES HAS NOT BEEN PROVIDED BY UBS AS OF 26 MAY 1997.

000228

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LCS / PHASE ONE WEEK ENDING: 25 MAY 1997

- UBS PROPOSED PAD FOOT COMPACTOR WOULD NOT COMPLY WITH LCS TECHNICAL SPECIFICATION SECTION 02215 PARAGRAPH C REGARDING COMPACTION OF PIPE EMBEDMENT FILL. A COMPACTOR COMPLYING WITH THE SPECIFICATION AND MEETING FDF INDUSTRIAL HYGIENE WAS EMPLOYEED IN COMPACTING PIPE EMBEDMENT FILL BELOW UTILITY LINES.

- FDF TO CLARIFY PROPOSED SOILS SOURCE FOR USE IN BACK-FILLING BETWEEN APPROXIMATE STATION NO. 10+00 TO 13+25, REFER DRAWING G-00266, EXCAVATED AND OR IMPORTED SOILS.

ATTENDED NON SCHEDULED CONSTRUCTION MEETING. IN ATTENDANCE FDF CONSTRUCTION, ENGINEERING AND HEALTH AND SAFETY REPRESENTATIVES AND GEOSYNTEC R.E AND C.Q.C.S.M.. FOLLOWING ARE KEY ITEMS ADDRESSED.

- RELOCATION OF UTILITY LINES IN THE AREA OF K-65 UTILITIES.
- BORING AND INSTALLATION OF UTILITIES BELOW K-65.
- B.L. PAYNE (RLS) TO PROVIDE SURVEY FOR THE ABOVE.
- BARRETT PAVING (B.P.) TO EXCAVATE BETWEEN APPROXIMATE STATION NO. 10+00 TO 13+25.
- UBS TO EXCAVATE NORTH OF AND ADJACENT TO K-65, LOCATION OF JACKING / BORING.
- INSTALL A SECOND SUMP / PUMP IN THE AREA OF STATION NO. 13+25.

REFER GEOSYNTEC RESIDENT ENGINEER WEEKLY REPORT AND FLUOR DANIEL FERNALD (FDF) SUBCONTRACTOR MEETING MINUTES.

000229

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LCS / PHASE ONE WEEK ENDING: 25 MAY 1997

GEOSYNTEC CONSULTANTS (GS) PROVIDED THE FOLLOWING SERVICES:

- MONITORED, DOCUMENTED AND PHOTOGRAPHED SUBCONTRACTOR ACTIVITIES.
- MONITORED HDPE TRIAL AND PRODUCTION WELDING.
- MONITORED UBS EXCAVATING SOILS.
- MONITORED BARRETT PAVING (BP) EXCAVATING SOILS.
- MONITORED PLACEMENT OF PIPE EMBEDMENT FILL.
- MONITORED INSTALLATION OF HDPE PIPE.
- OBTAINED BULK SAMPLE OF PIPE EMBEDMENT FILL, TESTING IN PROGRESS.
- OBTAINED BULK SAMPLES OF POSSIBLE PROPOSED BACKFILL SOILS, TESTING IN PROGRESS.
- COMPLETED LABORATORY TESTS, SAMPLE LCS-01.
- COMPLETED CALIBRATION OF LABORATORY EQUIPMENT.
- RECEIVED AND COMPLETED GRAIN SIZE DISTRIBUTION ANALYSIS FOR PROPOSED MANHOLE EMBEDMENT FILL, SAMPLE NO. MEF-03.
- OBSERVED AND DOCUMENTED FINDINGS FOR HDPE PIPE FITTINGS, REFER DCN 1700-029.

GEOSYNTEC PERSONNEL SCHEDULE:

- B. ERISMAN DEPARTED 23 MAY 1997. SCHEDULED TO RETURN 2 JUNE 1997.
- P. ODUROH, SENIOR ENGINEERING TECHNICIAN, "FEMP ACCESS REQUEST" TO BE TRANSMITTED TO B. ZEBICK (C.M.)(FDF) 27 MAY 1997.

GEOSYNTEC PERSONNEL TRAINING, SITE SPECIFIC

000230

- J.F. McMICHEN COMPLETED CONFINED SPACE TRAINING.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LCS / PHASE ONE WEEK ENDING: 25 MAY 1997

GEOSYNTEC MISCELLANEOUS:

- DOSIMETRY RECORDS FOR J.F. McMICHEN, N. MEEKINS AND P. ODUROH TO BE TRANSMITTED TO "FERMCO" 27 MAY 1997.
- G. JOHNSON (FDF / H&S) COMPLETED REVIEW OF GEOSYNTEC SAFE WORK PLAN, B. ZEBICK (FDF-C.M.) REVIEWING. GEOSYNTEC TO PRODUCE FINAL PLAN UPON RECEIPT OF FDF COMMENTS.

STATUS OF ADMINISTRATIVE AND FIELD LABORATORY TRAILERS:

ADMINISTRATIVE TRAILER:

- TRAILER VENDOR COMPLETED REINSTALLATION.
- FDF REQUESTED AND GEOSYNTEC PROVIDED INITIAL TRAILER SKETCH INCLUSIVE OF LOCATION AND QUANTITIES OF TELEPHONES, COMPUTERS, COPY MACHINE, DESKS ETC.
- OUTSTANDING ITEMS INCLUDE SKIRTING, STEPS, ELECTRICAL, TELEPHONE ETC. REFER WEEKLY REPORT DATED 18 MAY 1997.

FIELD LABORATORY TRAILERS:

- FDF VIA WISE CONSTRUCTION CO. PROVIDED A PLUMBING INSPECTION. PLUMBING PARTS ARE REQUIRED TO COMPLETE REPAIRS.
- FDF TO PROVIDE A COVERED ATTACHMENT FOLLOWING REPAIRS TO PLUMBING.
- FDF PROVIDED DETACHED SANITARY FACILITY.

000231

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LCS / PHASE ONE WEEK ENDING: 25 MAY 1997

HEALTH AND SAFETY:

FDF HEALTH AND SAFETY REPRESENTATIVES CONDUCTED AN INSPECTION OF THE FIELD LABORATORY TRAILERS. THE FOLLOWING ITEMS WERE ADDRESSED.

- GEOSYNTEC TO TAG EYE WASH STATIONS, PROVIDED BY FDF, "OUT OF SERVICE". TASK COMPLETED.
- WARNING TAPE SHOULD BE PLACED AT TOP OF DOOR FRAMES. GEOSYNTEC TO LOCATE VIA FDF.
- FDF TO PROVIDE TRASH DISPOSAL FACILITY (DUMPSTER). FDF H AND S. TO ADDRESS.
- FDF TO PROVIDE SANITARY FACILITY. FOLLOWING THE INSPECTION FDF PROVIDED A FREE STANDING FACILITY.
- WATER SERVICE INSIDE TRAILERS NOT FUNCTIONING. FDF ADDRESSING.
- FDF HEALTH AND SAFETY TO PROVIDE CLAIRIFICATION REGARDING QUANTITY OF PERSONNEL ALLOWED WITHIN TRAILERS AT ANY GIVEN TIME.
- GEOSYNTEC CONTINUES TO CONDUCT WEEKLY HEALTH AND SAFETY INSPECTIONS.

OSDF PHASE ONE

PETRO ENVIRONMENTAL TECHNOLOGIES (PET) HAS NOT MOBILIZED. REFER GEOSYNTEC RESIDENT ENGINEER REPORT FOR STATUS OF SUBMITTALS.

* RECORDED THROUGH 27 MAY 1997 0550 HOURS.

000232

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LCS / PHASE ONE WEEK ENDING: 1 JUNE 1997

THE FOLLOWING COVERS THE PERIOD FROM 27 MAY 1997 THROUGH 30 MAY 1997. WORK WAS NOT CONDUCTED ON MONDAY 26 MAY 1997 (HOLIDAY) AND 31 MAY AND 1 JUNE 1997, MODERATE TO HEAVY RAINS.

SITE CONDITIONS REMAINED WET WITH RAINS OCCURRING ON 28, 29, 30 AND 31 MAY AND 1 JUNE 1997. A TOTAL OF 4.45 INCHES RAINFALL WAS RECORDED. TEMPERATURES RANGED FROM FIFTY TO EIGHTY FOUR DEGREES FAHRENHEIT.

LEACHATE CONVEYANCE SYSTEM

THE CONTRACTOR, VILLAGE BUILDING SERVICES INC., (VBS) PERFORMED THE FOLLOWING.

- ~~EXCAVATED~~ STRIPPED 1/6/97 AND SEPERATED TOPSOIL / VEGETATION (±6") WEST OF STATION NO. 10+20, DRAWING G-00261.
- EXCAVATED BETWEEN APPROXIMATE STATION NO. 10+20 AND 12+00, DRAWING G-00261.
- MANUALLY EXCAVATED TO LOCATE EXISTING UTILITIES, DRAWING G-00261.
- EXCAVATED NORTH OF AND ADJACENT TO K-65 UTILITIES, PIT TO ALLOW FOR FUTURE BORING.
- INSTALLED A SUMP / PUMP IN THE LCS TRENCH WEST OF STATION 10+00, DRAWING G-00261.
- DEWATERED NORTH OF K-65 AND LCS TRENCH WEST OF STATION 8+20 (SCHEDULED FOR 31 MAY AND 1 JUNE 1997), DRAWING G-00261
- MECHANICALLY AND MANUALLY COMPACTED PIPE EMBEDMENT FILL, LCS TRENCH WEST OF STATION 8+20, DRAWING G-00261

000033

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LCS / PHASE ONE WEEK ENDING: 1 JUNE 1997

- ERECTED A TENT STRUCTURE TO FACILITATE WELDING OF HDPE PIPE DURING PERIODS OF RAIN.
- WELDED FOUR AND EIGHT INCH HDPE DUAL CONTAINMENT PIPE.
- SUBMITTED A FIFTY POUND (±) SAMPLE OF MANHOLE EMBEDMENT FILL FROM MARTIN MARIETTA FOR GRAIN SIZE DISTRIBUTION ANALYSIS, SAMPLE DESIGNATED AS MEF-04.

B.L. PAYNE (BLP), REGISTERED LAND SURVEYOR, PROVIDED VERIFICATION OF LAYOUT WEST OF STATION 8+20, DRAWING G-00261, AND HDPE PIPE INVERT.

ACTION / INFORMATION

- UBS PROVIDED A VIBRATORY PLATE COMPACTOR, REFER WEEKLY REPORT DATED 25 MAY 1997 ITEM FOUR.
- FDF (FLUOR DANIEL FERNALD) INDICATED PROPOSED BACKFILL SOILS SOURCE AS ON SITE STOCKPILE. SOILS PREVIOUSLY EXCAVATED BY BARRETT PAVING. REFER WEEKLY REPORT DATED 25 MAY 1997 ITEM SIX.
- MANHOLE EMBEDMENT FILL FROM MARTIN MARIETTA SUBMITTED BY UBS AND DESIGNATED AS SAMPLE MEF-04 DOES NOT MEET GRAIN SIZE DISTRIBUTION AS PER LCS TECHNICAL SPECIFICATION SECTION 02215 PART 2.01B.

000004

COPY TO: FDF-C.M./GEOSYNTEC C.C. & R.E./FILE PER: J. Smith

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LCS / PHASE ONE WEEK ENDING: 1 JUNE 1997

- PIPE EMBEDMENT FILL, SAMPLE NO. PEF-04, SAMPLED FROM THE AREA OF K-65 UTILITIES DOES NOT COMPLY WITH LCS SPECIFICATION SECTION 02215 PART 2.01-C AS REFERENCED TO OHIO DOT SECTION 703. THE NUMBER 100 SIEVE INDICATED 0.7 PERCENT PASSING VS THE REQUIRED 1 TO 10 PERCENT. A COMPANION TEST IS IN PROGRESS, SAMPLE DESIGNATED AS PEF-04.1.

- GEOSYNTEC OBSERVED THAT SOME SOILS EXCAVATED AT APPROXIMATE STATION NO. 12+00, REFER DRAWING G-00261, CONTAINED TOPSOIL AND LARGE TREE ROOTS. AREA TO BE MONITORED DURING BACKFILLING.

- AS PER R. MCGUIRE (FDF) UBS REQUEST TO BACKFILL HDPE DUAL CONTAINMENT PIPE IN THE AREA OF STATION 8+20 TO 10+85 (APPROXIMATE), REFER DRAWING G-00261, WAS DENIED. THE AREA IN QUESTION IS NOT CONSIDERED ON THE CRITICAL PATH, REFER DCN 1700-033. AN APPROVED HYDROSTATIC PRESSURE PROCEDURE (TEST) IS NOT AVAILABLE AND EQUIPMENT TO CONDUCT THE TEST IS NOT ON SITE.

ATTENDED LEACHATE CONVEYANCE SYSTEM (LCS) SUBCONTRACTOR WEEKLY MEETING CONDUCTED ON 27 MAY 1997. AGENDA, ATTENDANCE RECORD AND MINUTES BY FDF. REFER FDF MEETING MINUTES FOR DETAILS. FOLLOWING ARE SOME KEY ITEMS ADDRESSED.

- HDPE PIPE HYDROSTATIC TESTING REVISED, REFER DCN 1700-033.
- BACKFILLING ABOVE HDPE PIPE REVISED, REFER DCN 1700-033.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 041

DESCRIPTION: LCS / PHASE ONE WEEK ENDING: 1 JUNE 1997

- LIFE VESTS REQUIRED WHEN WORKING WITHIN FIVE FEET OF AREAS CONTAINING THREE FEET OR GREATER (DEPTH) PONDED WATER.
- HDPE PIPE FITTINGS REMAIN ON HOLD FOR ADDITIONAL EVALUATION.
- MIDWEST MOLE TO PERFORM JACKING AND BORING BELOW THE K-65 UTILITIES.
- VBS TO DEWATER TRENCHES DURING AND FOLLOWING RAINS.
- J. JENKINS (FDF-ENGINEERING) TO ADVISE GEOSYNTEC REGARDING SOILS TYPE REQUIREMENTS WITHIN THE HAUL ROAD, RELOCATION OF UTILITIES K-65 AREA.

GEOSYNTEC CONSULTANTS (GS) PROVIDED THE FOLLOWING SERVICES:

- MONITORED DOCUMENTED AND PHOTOGRAPHED SUBCONTRACTOR ACTIVITIES.
- MONITORED HDPE PIPE TRIAL AND PRODUCTION WELDING.
- MONITORED EXCAVATION OF SOILS.
- PERFORMED MOISTURE DENSITY RELATIONSHIPS, ATTERBERG LIMITS TESTS, WASH NO. 200 SIEVES AND GRAIN SIZE DISTRIBUTIONS ON PROPOSED BACKFILL SOILS, SAMPLE NUMBERS LCS-02 AND LCS-03.
- PERFORMED GRAIN SIZE DISTRIBUTION ANALYSIS ON PIPE EMBEDMENT FILL, SAMPLE NUMBER PEF-04, AND ON MANHOLE EMBEDMENT FILL, SAMPLE NUMBER MEF-04.
- MONITORED STRIPPING OF TOPSOIL.

000236

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 041

DESCRIPTION: LCS / PHASE ONE WEEK ENDING: 1 JUNE 1997

PHASE ONE

THE CONTRACTOR, PETRO ENVIRONMENTAL TECHNOLOGIES (PET) PERFORMED THE FOLLOWING.

- MOBILIZED ADMINISTRATIVE TRAILER.
- INITIATED MOBILIZATION OF CONSTRUCTION EQUIPMENT.
- DELIVERED HDPE GEOMEMBRANE TO BE USED AS A BARRIER IN STOCKPILING EXCAVATED SEDIMENTATION POND SOILS.
- SUBMITTED A FIFTY POUND (±) SAMPLE (DESIGNATED AS R8-01) OF PROPOSED "#304 AGGREGATE BASE", SUBMITTAL NUMBER 28.

GEOSYNTEC IS PERFORMING A GRAIN SIZE ANALYSIS ON THE PROPOSED "#304 AGGREGATE BASE" SAMPLE.

GEOSYNTEC PERSONNEL SCHEDULE:

- R. PEDDIKORD, ENGINEERING TECHNICIAN, MOBILIZED 27 MAY 1997.
- P. ODUROH, SENIOR ENGINEERING TECHNICIAN, MOBILIZED 1 JUNE 1997. SITE SPECIFIC TRAINING TO BEGIN 2 JUNE 1997.
- B. ERISMAN, ENGINEERING TECHNICIAN, TO RESUME DUTIES 2 JUNE 1997.
- N. MEEKINS, SENIOR SOILS TECHNICIAN, SCHEDULED TO DEPART 6 JUNE AND RETURN 15 JUNE 1997.

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GEOSYNTEC PERSONNEL HOUSING:

- N. MEEKINS RELOCATED TO VILLAGE PARK APARTMENTS (VPA).
- J.F. McMICHEN VPA REVISED TELEPHONE NUMBER (513) 860-0864

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04-1

DESCRIPTION: LCS / PHASE ONE WEEK ENDING: 1 JUNE 1997

GEOSYNTEC MISCELLANEOUS:

- TWO FOUR WHEEL DRIVE VEHICLES HAVE BEEN SECURED. SITE SECURITY HAS BEEN ADVISED THAT THE VEHICLE(S) MAY REMAIN IN THE EAST PARKING AREA OVERNIGHT AND ON WEEKENDS.
- K. CARGILL AND R. BONAPARTE ON SITE 27 MAY 97.
- GEOSYNTEC STANDARD OPERATING PROCEDURES WERE ISSUED MAY 97.

STATUS OF ADMINISTRATIVE AND FIELD LABORATORY TRAILERS:

ADMINISTRATIVE TRAILER:

- STATUS REMAINS AS NOTED IN THE WEEKLY FIELD REPORT DATED 25 MAY 1997.

FIELD LABORATORY TRAILERS:

- STATUS REMAINS AS NOTED IN THE WEEKLY FIELD REPORT DATED 25 MAY 97.

HEALTH AND SAFETY:

- WARNING TAPE HAS BEEN PLACED AT THE TOP OF DOOR FRAMES IN EACH FIELD LABORATORY TRAILER.
- FDF PROVIDED FIELD LABORATORY TRASH DISPOSAL FACILITY (DUMPSTER)
- BACK UP ALARMS AND FIRST AID KITS TO BE PROVIDED FOR TWO LEASED VEHICLES.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LCS / PHASE ONE WEEK ENDING: 1 JUNE 1997

- WATER SERVICE TO ONE FIELD LABORATORY TRAILER APPEARS FUNCTIONAL. REPAIRS TO EACH TRAILER REMAIN OUTSTANDING.
- ITEM SIX OF WEEKLY REPORT DATED 25 MAY 1997 REMAINS OUTSTANDING.
- ANTICIPATE COMPLETION OF GEOSYNTEC REVISED SAFE WORK PLAN THE WEEK OF 2 JUNE 1997.
- GEOSYNTEC OBTAINING TRAFFIC CONES AND LIFE VESTS.
- FDF TO PROVIDE RAIN ATTIRE INCLUSIVE OF BOOTS.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 04.1

DESCRIPTION: LCS / PHASE ONE WEEK ENDING: 08 JUNE 1997

THE FOLLOWING COVERS THE PERIOD FROM 02 JUNE 1997 THROUGH 08 JUNE 1997.

SITE CONDITIONS REMAINED WET WITH 3.2 INCHES OF RAINFALL RECORDED. TEMPERATURES RANGED FROM FIFTY FOUR TO SEVENTY EIGHT DEGREES FAHRENHEIT.

LEACHATE CONVEYANCE SYSTEM (LCS)

THE CONTRACTOR, VILLAGE BUILDING SERVICES INC., (VBS) PERFORMED THE FOLLOWING:

- EXCAVATED BETWEEN APPROXIMATE STATION 12+00 TO 13+50, REFER DRAWING G-00261.
- EXCAVATED NORTH AND SOUTH AND ADJACENT TO K-65 UTILITIES, PITS TO FACILITATE JACKING AND BORING, REFER DRAWING G-00266.
- PLACED STABILIZATION AGGREGATE "RIP RAP", PIT NORTH OF K-65 UTILITIES.
- DEWATERED LCS TRENCH'S.
- LOWERED SUMPS PREVIOUSLY INSTALLED SOUTH OF K-65 UTILITIES.
- MANUALLY REMOVED SILTATION ABOVE PIPE EMBEDMENT FILL BETWEEN OU4 ACCESS ROAD AND K-65 UTILITIES.
- REGRADED PORTIONS OF SUBGRADE SOILS WITHIN THE AREA NOTED ABOVE.
- CLEARED TREES WEST OF STATION 13+00, REFER DRAWING G-00261.
- STRIPPED "TOPSOIL" WEST OF STATION 13+00, REFER DRAWING G-00261.
- * REMOVED AND REINSTALLED UTILITY PIPES BETWEEN K-65 UTILITIES AND OU4 ACCESS ROAD.

000240

* NOTED FOR REFERENCE ONLY.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LCS / PHASE ONE WEEK ENDING: 08 JUNE 1997

- INSTALLED HDPE DUAL CONTAINMENT PIPE BETWEEN 04.4 ACCESS ROAD AND K-65 UTILITIES, APPROXIMATELY 75 PERCENT.
- DEPLOYED PIPE EMBEDMENT FILL ADJACENT TO THE ABOVE NOTED HDPE PIPE. INITIAL COMPACTIVE EFFORT EAST AND WEST OF THE PIPE WITH COMPLETEION BELOW THE PIPE.
- WELDED FOUR AND EIGHT INCH DUAL CONTAINMENT PIPE.

B.L. PAYNE (BLP), REGISTERED LAND SURVEYOR, PROVIDED SURVEYS.

POWELL "SAND AND GRAVEL" SUPPLIED PIPE EMBEDMENT FILL.

ACTION / INFORMATION

- MANHOLE EMBEDMENT FILL STATUS UNCHANGED. REFER ITEM THREE OF 1 JUNE 1997 WEEKLY REPORT.
- PIPE EMBEDMENT FILL SAMPLE PMF-04.1 COMPLIES WITH SPECIFICATION REQUIREMENT AS NOTED IN 1 JUNE 1997 WEEKLY REPORT ITEM FOUR.
- FLUOR DANIEL FERNALD (FDF) ADVISED IMPORTED SOILS PROPOSED FOR USE IN THE AREA NOTED IN 25 MAY 1997 WEEKLY REPORT ITEM SIX. A FORMAL SUBMITTAL HAS NOT BEEN RECEIVED. REFER BELOW UNDER GEOSYNTEC SERVICES.

000241

ATTENDED LEACHATE CONVEYANCE SYSTEM (LCS) SUBCONTRACTOR WEEKLY MEETING CONDUCTED ON 03 JUNE 1997. AGENDA, ATTENDANCE RECORD AND MINUTES BY FDF. REFER FDF MEETING MINUTES FOR DETAILS.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 041

DESCRIPTION: LCS / PHASE ONE WEEK ENDING: 08 JUNE 1992

FOLLOWING ARE SOME KEY ITEMS ADDRESSED.

- FDF TO CONDUCT A "SAFETY INSPECTION" AT 0800 HOURS EACH WEDNESDAY.
- ALTERNATIVE ACCESS IN LIEU OF THE "GOAT PATH", K-65 UTILITIES, WAS SUGGESTED DURING JACKING AND BORING BELOW THE UTILITIES.
- VBS TO SUBMIT AN ADDITIONAL MANHOLE EMBEDMENT FILL SAMPLE.
- FDF TO TRACK DCN NO. 28.
- AN RCI REGARDING TRENCH SURVEY IS FORTHCOMING.

GEOSYNTEC CONSULTANTS (GS) PROVIDED THE FOLLOWING SERVICES:

- MONITORED, DOCUMENTED AND PHOTOGRAPHED SUBCONTRACTOR ACTIVITIES.
- MONITORED HDPE DUAL CONTAINMENT PIPE TRIAL AND PRODUCTION WELDING.
- MONITORED EXCAVATION OF SOILS.
- OBTAINED BULK SOIL SAMPLE DESIGNATED LCS-04. PROPOSED LCS BACKFILL, APPROXIMATE STATION 12+90. REFER DRAWING G-00266.
- OBTAINED BULK SOIL SAMPLE DESIGNATED LCS-05. PROPOSED LCS BACKFILL, SOURCE WELCH SAND AND GRAVEL.
- COMPLETED MOISTURE TEST, ATTERBERG LIMITS TEST, WASH NO 200, GRAIN SIZE DISTRIBUTION AND MOISTURE DENSITY RELATIONSHIP, SAMPLE LCS-04.
- REVIEWED TESTING EQUIPMENT CALIBRATION AND CERTIFICATION DOCUMENTATION WITH FDF QUALITY ASSURANCE REPRESENTATIVE.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LCS / PHASE ONE WEEK ENDING: 08 JUNE 1997

- REVIEWED ADMINISTRATIVE CONTROLS FOR ACCEPTANCE/REJECTION OF VARIOUS MATERIALS OBSERVED AND OR TESTED WITH FDF QUALITY ASSURANCE REPRESENTATIVE.
- MONITORED HDPE PIPE INSTALLATION.
- MONITORED PIPE EMBEDMENT FILL PLACEMENT AND COMPACTIVE EFFORT.
- MONITORED CLEARING AND STRIPPING.

PHASE ONE

THE CONTRACTOR, PETRO ENVIRONMENTAL TECHNOLOGIES (PET) PERFORMED THE FOLLOWING:

- COMPLETED MOBILIZATION OF SEDIMENTATION POND CONSTRUCTION EQUIPMENT.
- RECEIVED CULVERT PIPE, CONSTRUCTION AND SILT FENCE AND SAFETY SIGNS.
- ERECTED CONSTRUCTION SIGNS.
- INITIATED STRIPPING APPROXIMATELY SIX INCHES OF "IMPACTED SOILS", SEDIMENTATION POND.
- DEPLOYED GEOMEMBRANE AS A BARRIER TO RECEIVE STRIPPED SOILS.
- PLACED STRIPPED SOILS SOUTH OF SEDIMENTATION POND IN STOCKPILE FASHION ONTO GEOMEMBRANE PANELS.
- REMOVED "EXCESS" AGGREGATES WEST OF NORTH ACCESS ROAD AND DEPLOYED IN THE SUBCONTRACTOR AREA EAST OF THE ABOVE ROAD.
- GRADED SUBCONTRACTOR AREA NOTED ABOVE.
- INSTALLED TEMPORARY CULVERT, NORTH ACCESS ROAD

0002-3

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LCS / PHASE ONE WEEK ENDING: 08 JUNE 1997

- REMOVED A CHAIN LINK FENCE WEST OF THE NORTH ACCESS ROAD.

GEOSYNTEC CONSULTANTS COMPLETED A GRAIN SIZE DISTRIBUTION ANALYSIS ON SAMPLE NO. RB-01, PROPOSED "NO. 304 AGGREGATE BASE". REFER SUBMITTAL NO. 28 FOR STATUS.

GEOSYNTEC ADVISED PET AND FDF THAT A SOILS SAMPLE IS REQUIRED FOR ANALYSIS IN CONJUNCTION WITH FILL SOILS PLACEMENT IN THE SEDIMENTATION POND.

AS ADVISED BY FDF GEOSYNTEC HAS SUBMITTED BADGE NUMBERS FOR PERSONNEL AS A REQUIREMENT IN OBTAINING ACCESS INTO ~~CONTROLLED~~ 08 JUNE '97 CERTIFIED AREAS.

GEOSYNTEC PERSONNEL SCHEDULE:

- N. MEEKINS DEPARTED 06 JUNE 1997. SCHEDULED TO RETURN 15 JUNE 1997.
- ADMINISTRATIVE CLERK, LOCAL HIRE, SCHEDULED TO MOBILIZE UPON GEOSYNTEC SECURING POSSESSION OF THE ADMINISTRATIVE TRAILER.

GEOSYNTEC PERSONNEL TRAINING, SITE SPECIFIC

- P. ODUROH, SENIOR ENGINEERING TECHNICIAN, COMPLETED GET (CBT) AND RADIOLOGICAL WORKER (CBT) TRAINING. REQUESTED FDF SCHEDULE ADDITIONAL TRAINING.

0002-4

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LCS / PHASE ONE WEEK ENDING: 08 JUNE 1997

STATUS OF ADMINISTRATIVE AND FIELD LABORATORY TRAILERS:

ADMINISTRATIVE TRAILER:

- SKIRTED, COMPLETE.
- STEPS, INSTALLED.
- CINCINNATI BELL TELEPHONE COMPANY INITIATED TELEPHONE/COMPUTER SERVICE. ANTICIPATE COMPLETEION 13 JUNE 1997.
- ELECTRIC SERVICE, INCOMPLETE.
- FURNISHINGS, ORDERED.
- FDF TO SUPPLY POTABLE WATER.

FIELD LABORATORY TRAILERS:

- FDF TO SECURE POTABLE WATER
- PLUMBING REPAIRS REMAINS OUTSTANDING.
- ENCLOSED ATTACHMENT REMAINS OUTSTANDING. THIS ITEM IS CRITICAL IN PROVIDING THE ABILITY TO DRY SOILS, PERFORM MOISTURE-DENSITY RELATIONSHIPS AND AGGREGATE GRAIN SIZE DISTRIBUTION. DUE TO RECENT RAINS GEOSYNTEC HAS NOT COMPLETED THE ABOVE IN A TIMELY MANNER.

MISCELLANEOUS

- FDF PROVIDED A FOURTH TWO-WAY RADIO.
- GEOSYNTEC SECURED A CELLULAR TELEPHONE FOR THE FIELD LABORATORY TRAILERS:
- GEOSYNTEC ISSUED FIELD SERVICES STANDARD OPERATING PROCEDURES MANUAL. THE MANUAL IS A "LIVING DOCUMENT" AND IS TO BE REVISED (UPDATED) AS APPLICABLE.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LCS / PHASE ONE WEEK ENDING: 08 JUNE 1997

HEALTH AND SAFETY:

- FDF TO REMOVE NON-FUNCTIONAL EYE WASH STATIONS PRESENTLY IN THE FIELD LABORATORY TRAILERS. STATIONS ARE TO BE RETURNED FUNCTIONAL ACCOMPANIED BY MSDS DOCUMENTATION.
- FDF PROVIDED "RUBBER" SAFETY BOOTS TO GEOSYNTEC PERSONNEL.
- GEOSYNTEC HAS SECURED TRAFFIC CONES AND LIFE VESTS.
- GEOSYNTEC'S P. ODUROM COMPLETED DRUG SCREEN TESTING.
- GEOSYNTEC'S INTERIM HEALTH AND SAFETY REPRESENTATIVE CONDUCTED THE WEEKLY INSPECTION OF TRAILERS T-125 AND T-126. REFER SEPERATE DOCUMENT FOR COMMENTS.
- FDF HEALTH AND SAFETY INSPECTION REPORT FOR FIELD LABORATORY TRAILERS T125 AND T126 HAS NOT BEEN RECEIVED BY GEOSYNTEC FOR REVIEW AND COMMENT.
- GEOSYNTEC REVISED SAFE WORK PLAN RESCHEDULED FOR TRANSMITTAL THE WEEK OF 9 JUNE 1997.
- FDF TO SECURE A FIFTY-FIVE GALLON COVERED CONTAINER (DRUM) TO BE PLACED IN THE LABORATORY TRAILER(S) AREA FOR DISPOSAL OF SOILS.
- DISPOSAL OF SOILS SAMPLES, FOLLOWING TESTING, AS PER FDF ARE TO BE RETURNED TO THE ORIGINAL SAMPLING AREA.

NOTE: REFER FDF / GEOSYNTEC MONTHLY MEETING MINUTES PREPAIRED BY GEOSYNTEC RESIDENT ENGINEER.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 041

DESCRIPTION: LCS / PHASE ONE WEEK ENDING: 15 JUNE 1997

THE FOLLOWING COVERS THE PERIOD FROM 09 JUNE 1997 THROUGH 15 JUNE 1997.

SITE CONDITIONS WERE WET TO DRYING WITH 0.1 INCHES OF RAINFALL RECORDED. TEMPERATURES RANGED FROM FIFTY SIX TO EIGHTY SIX DEGREES FAHRENHEIT.

LEACHATE CONVEYANCE SYSTEM (LCS)

THE CONTRACTOR, VILLAGE BUILDING SERVICES INC., (VBS) PERFORMED THE FOLLOWING:

- DEWATERED LCS TRENCH'S.
- DEPLOYED SOILS BACKFILL, FROM WELCH SAND AND GRAVEL, BETWEEN K-65 UTILITIES AND OU 4 ACCESS ROAD.
- DEPLOYED AND COMPACTED PIPE EMBEDMENT FILL (PEF) BETWEEN K-65 UTILITIES AND OU4 ACCESS ROAD.
- UNDERCUT WET SOILS (SOFT) SOUTH OF K-65 UTILITIES (APPROXIMATELY 15 FEET) DEWATERED, DEPLOYED GEOTEXTILE AND "NO. 2" COARSE AGGREGATE BELOW UTILITIES WITHIN THE "STAVER" TRENCH. REFER DRAWING G-00266.
- RECEIVED REMOTE CONTROL VIBRATORY COMPACTOR, WEIGHT APPROXIMATELY 1,000 TO 1,200 POUNDS.
- RECEIVED NINE HDPE CLEANOUTS, REFER DRAWING SK-0197-002, FROM ISCO INDUSTRIES.
- RECEIVED FOUR HDPE MANHOLES.
- RECEIVED COARSE AGGREGATE FROM POWELL SAND AND GRAVEL.
- EXCAVATED LCS TRENCH WEST OF STATION 12+50, REFER DRAWING G-00261

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 041

DESCRIPTION: LCS / PHASE ONE WEEK ENDING: 15 JUNE 1997

- STRIPPED AND SEPERATED TOPSOIL IN THE ABOVE NOTED AREA.
- EXCAVATED SATURATED SURFACE SOILS BETWEEN THE K-65 UTILITIES AND OU4 ACCESS ROAD.
- MANUALLY REMOVED ROCK >3" FROM BACKFILL SOILS.
- CONDUCTED JACKING AND BORING (12" AND 24") BELOW THE K-65 UTILITIES.
- FUSION WELDED FOUR AND EIGHT INCH DUAL CONTAINMENT HDPE PIPE.

B.L. PAYNE (BLP), REGISTERED LAND SURVEYOR, PROVIDED SURVEY DOCUMENTATION.

ACTION / INFORMATION

- PIPE EMBEDMENT FILL (PEF) DEPLOYED WEST OF STATION 8+25, REFER DRAWING G-00261, EROSION DUE TO RECENT RAINS. REMEDIATION REQUIRED; REMOVAL OF SOIL CLODS, ADDITIONAL PEF AND COMPACTIVE EFFORT.
- AS OF 07 JUNE 1997 UBS HAD RECEIVED 1,064.85 TONS OF PEF.
- PROPOSED MANHOLE EMBEDMENT FILL SUBMITTAL SAMPLE REMAINS OUTSTANDING.
- AS PER FLUOR DANIEL FERNALD (FDF) WISE CONSTRUCTION COMPANY WILL ASSIST UBS ACTIVITIES.
- HDPE MANHOLES AND CLEANOUTS, STATUS HOLD AWAITING ADDITIONAL DOCUMENTATION AND OBSERVATION BY PARSONS ENGINEERS.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LCS / PHASE ONE WEEK ENDING: 15 JUNE 1997

ATTENDED LEACHATE CONVEYANCE SYSTEM (LCS) CONTRACTOR WEEKLY MEETING CONDUCTED ON 13 JUNE 1997. AGENDA, ATTENDANCE RECORD AND MINUTES BY FDF. REFER FDF MEETING MINUTES FOR DETAILS. FOLLOWING ARE SOME ITEMS DISCUSSED.

- TYPE AND USE OF SAFETY GLASSES.
- SUPERVISORS ARE ENCOURAGED TO ATTEND THE WEEKLY "SAFETY WALK DOWNS".
- FDF TO DETERMIN DISPOSAL AREA FOR ROCK (>3") REMOVED FROM SOILS.
- UBS TO SUBMIT MANHOLE EMBEDMENT FILL SAMPLE.
- JACKING AND BORING SCHEDULE.
- HYDROSTATIC TESTING OF LCS PIPE, PROCEDURE STATUS "B". PUMP AND GAUGES ON SITE. SUBMITTAL REQUIRED FOR GAUGES.

GEOSYNTEC CONSULTANTS PROVIDED THE FOLLOWING SERVICES:

- MONITORED, DOCUMENTED AND PHOTOGRAPHED CONTRACTOR ACTIVITIES.
- MONITORED HDPE DUAL CONTAINMENT PIPE TRIAL AND PRODUCTION WELDING.
- OBSERVED AND DOCUMENTED HDPE MANHOLES AND CLEANOUTS. GENERAL CONDITION, WELDS AND WORKMANSHIP.
- PERFORMED MOISTURE CONTENT, ATTERBERG LIMITS, WASH NO. 200, GRAIN-SIZE DISTRIBUTION AND MOISTURE-DENSITY RELATIONSHIP ON SOIL SAMPLE LCS-05 OBTAINED FROM WELCH SAND AND GRAVEL.
- OBTAINED SOILS SAMPLE LCS-06, WELCH SAND AND GRAVEL, FROM STATION NO. 10+85, REFER DRAWING G-00266. PERFORMED LABORATORY ANALYSIS AS NOTED IN ITEM FOUR ABOVE.
- PERFORMED MOISTURE CONTENT TESTS ON BACKFILL SOILS.
- PERFORMED FIELD NUCLEAR DENSITY TESTS ON BACKFILL SOILS.

000249

COPY TO: MJH, RAH, JAK, JCL, WAZ, RLM, MWG, GKJ, KWC, DKP, CRW, DBG, HEM, DGB, FILE PER: [signature]

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LCS / PHASE ONE WEEK ENDING: 15 JUNE 1997

PHASE ONE

THE CONTRACTOR, PETRO ENVIRONMENTAL TECHNOLOGIES (PET) PERFORMED THE FOLLOWING:

- CONTINUED STRIPPING AND STOCKPILING INITIAL SIX INCHES OF SOILS, SEDIMENTATION BASIN.
- DEPLOYED ADDITIONAL HDPE GEOMEMBRANE TO RECEIVE STRIPPED SOILS.
- PLACED MINIMAL SOILS, SEDIMENTATION BASIN BERM.
- SUBMITTED PIPE EMBEDMENT FILL SAMPLE SUBMITTAL NO. 36.

GEOSYNTEC CONSULTANTS PROVIDED THE FOLLOWING SERVICES:

- MONITORED, DOCUMENTED AND PHOTOGRAPHED CONTRACTOR ACTIVITIES.
- OBTAINED PROPOSED STRUCTURAL FILL SAMPLE. PERFORMED MOISTURE CONTENT, ATTERBERG LIMITS, WASH NO. 200, GRAIN SIZE DISTRIBUTION AND MOISTURE-DENSITY RELATIONSHIP TESTS.
- PERFORMED GRAIN SIZE DISTRIBUTION TEST, SUBMITTAL NO. 36.

ACTION / INFORMATION

- SUBMITTAL NO. 36, PIPE EMBEDMENT FILL, GRAIN SIZE DISTRIBUTION ANALYSIS DID NOT COMPLY WITH TECHNICAL SPECIFICATION SECTION 02215 2.01 B.
- ABOVE NOTED FILL OPERATION HALTED DUE TO EXISTING UTILITY LINES. PROOFROLLING OF SUBGRADE AND UTILITIES TO BE ADDRESSED 17 JUNE 1997.

000250

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LCS / PHASE ONE WEEK ENDING: 15 JUNE 1997

GEOSYNTEC PERSONNEL SCHEDULE

- N. MEEKINS RETURNED 15 JUNE 1997.
- R. LIVINGSTON, ENGINEERING TECHNICIAN, SCHEDULED TO ARRIVE 18 JUNE 1997.
- S. QUAMMEN, ENGINEERING TECHNICIAN, SCHEDULED TO ARRIVE 23 JUNE 1997.
- RENEE HALTER, CLERK, SCHEDULED TO ARRIVE ~~18~~ 17 JUNE 1997.
- B. ERISMAN WILL NOT BE ON SITE 18, 19 AND 20 JUNE 1997.
- J. F. McMICHEN SCHEDULED TO DEPART 20 JUNE 1997 AND RETURN 30 JUNE 1997.

GEOSYNTEC PERSONNEL TRAINING, SITE SPECIFIC

- J. F. McMICHEN, D. BODINE, B. ERISMAN, P. ODUROH AND R. PEDDICORD ATTENDED LOCK AND TAG VIDEO TRAINING.
- R. LIVINGSTON TO BEGIN CBT TRAINING 18 JUNE 1997.
- R. HALTER TO RECEIVE CBT (GET) TRAINING 17 JUNE 1997.

STATUS OF ADMINISTRATIVE AND FIELD LABORATORY TRAILERS:

- ADMINISTRATIVE TRAILER:
  - TELEPHONE SERVICE, COMPLETE

		EXTENSIONS
D. BODINE	- R.E.	3416
R. HALTER	- CLERK	3417
J. F. McMICHEN	- Q.C.S.M.	3418
OPEN	- OPEN	3419

000251

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LCS / PHASE ONE WEEK ENDING: 15 JUNE 1997

- ELECTRICAL POWER SERVICE, COMPLETE
- POTABLE WATER COOLER, ORDERED
- SAFETY ITEMS, ORDERED
- COMPUTERS, OPEN
- FURNITURE, DELIVERED, MINIMAL ADDITIONAL REQUIRED.

GEOSYNTEC STAFF RELOCATED 13 JUNE 1997.

FIELD LABORATORY TRAILERS:

- POTABLE WATER COOLER, ORDERED
- PLUMBING REPAIRS REMAINS OUTSTANDING
- ENCLOSED ATTACHMENT REMAINS OUTSTANDING

MISCELLANEOUS:

- P. ODUROH, GEOSYNTEC, RECEIVED PERMINENT BADGE
- A SECOND TROXLER NUCLEAR GAUGE IS SCHEDULED TO ARRIVE THE WEEK OF 16 JUNE 1997.
- SUBMITTED GEOSYNTEC VEHICLE DOCUMENTATION TO FDF FOR APPROVAL TO "ACCESS" CERTIFIED AREAS.
- FDF - EDC TO COMPLETE CONTROL OF DOCUMENTS ISSUED TO GEOSYNTEC VIA GEOSYNTEC AND PROVIDE ADDITIONAL CONTROLLED DOCUMENTS.

000252

COPY TO: MJH, RAH, UAK, JCJ, WAZ, RLM, MWG, GKJ, KWC, DRP, LRW, DBG, HEM, DGB, ~~YLE~~ PER: J. McM

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LCS / PHASE ONE WEEK ENDING: 15 JUNE 1997

HEALTH AND SAFETY

- ITEM ONE, 08 JUNE 1997 WEEKLY REPORT, OPEN
- ITEM SIX, 08 JUNE 1997 WEEKLY REPORT, RECEIVED
- "FUNCTIONAL AREA ASSESSMENT" DATED 22 MAY 1997
  - ITEMS ONE, FIVE, SEVEN AND TEN (ITEM TWO) HAVE BEEN CORRECTED BY FDF OR GEOSYNTEC.
  - ITEM SIX REMAINS OPEN
  - ITEM TEN TO BE ADDRESSED THE WEEK OF 16 JUNE 1997.
- GEOSYNTEC REVISED SAFE WORK PLAN WILL BE TRANSMITTED THE WEEK OF 16 JUNE 1997. AWAITING RECEIPT OF GEOSYNTEC STAFF FORMAL APPROVAL.
- ITEM EIGHT, 08 JUNE 1997 WEEKLY REPORT, CLOSED.
- GEOSYNTEC LEASED VEHICLES, BACK-UP ALARMS, OPEN
- R. PEDDICORD AND B. ERISMAN, SIGN OFF ON PET HEALTH AND SAFETY MATRIX, COMPLETE
- B. ERISMAN ATTENDING PET HEALTH AND SAFETY "TAILGATE" MEETINGS.
- R. PEDDICORD ATTENDING UBS HEALTH AND SAFETY "TAILGATE" MEETINGS.

000253

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LCS/PHASE I CONSTRUCTION WEEK ENDING: 22 JUNE 1997

THE FOLLOWING COVERS THE PERIOD FROM 16 JUNE, 1997 THROUGH 22 JUNE, 1997.

SITE CONDITIONS WERE MOSTLY CLOUDY WITH SOME AM FOG. RAIN OCCURED ON 16 JUNE AND 18 JUNE, 1997, WITH A TOTAL OF 1.9 INCHES RECORDED IN RAIN GAUGE AT ON-SITE LABORATORY TRAILERS. TEMPERATURES RANGED FROM A LOW OF 61 TO A HIGH OF 96 DEGREES FAHRENHEIT AS RECORDED AT ON-SITE LABORATORIES.

LEACHATE CONVEYANCE SYSTEM (LCS)

THE CONTRACTOR, VILLAGE BUILDING SERVICES, INC (VBS) ASSISTED BY WISE CONSTRUCTION CO. (WISE) PERFORMED THE FOLLOWING:

- DEWATERED LCS TRENCH EXCAVATIONS AS NECESSARY.
- DEPLOYED SOIL BACKFILL NORTH AND SOUTH OF K-65 AREA (MATERIAL FROM WELCH SAND AND GRAVEL OFF-SITE STOCKPILE).
- DEPLOYED AND COMPACTED PIPE EMBEDMENT FILL (PEF) NORTH AND SOUTH OF K-65 AREA (MATERIAL FROM POWELL GRAVEL AND TOPSOIL OFF-SITE STOCKPILE).
- REMEDIAL WORK (UNDERCUT AND BACKFILL) WHERE NECESSARY.
- REMOVED OVERSIZE ROCK (>3 INCHES) FROM BACKFILL SOILS BY HAND.
- RECEIVED ADDITIONAL PEF FROM POWELL GRAVEL AND TOPSOIL (QUANTITY TO BE DETERMINED).
- CONTINUED EXCAVATION OF LCS TRENCH NORTH OF

000254

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 04.1

DESCRIPTION: LCS/PHASE I CONSTRUCTION WEEK ENDING: 22 JUNE 1997

K-65 (REFER TO DRAWING G-00262

- COMPLETED JACKING AND BORING UNDER K-65 (REFER TO DRAWING ~~G-00262~~ HEM 6/22/97 G-00266).
- CONTINUED BUTT FUSION WELDING OF 4"/8" HDPE DUAL CONTAINMENT LCS PIPE.
- INSTALLED LCS PIPE THROUGH SLEEVE UNDER K-65 (REFER TO DRAWING ~~G-00262~~ HEM 6/22/97 G-00266)
- INSTALLED LINKSEALS AT PIPE SLEEVE UNDER K-65 (REFER TO DRAWING ~~G-00262~~ HEM 6/22/97 G-00266)
- BACKFILL LCS PIPE AND "STAVER" DITCH SOUTH OF K-65 (REFER TO DRAWING G-00266).
- INSTALL SUMPS FOR DEWATERING NORTH OF K-65 (REFER TO DRAWING G-00262)

B.L. PAYNE (BLP), REGISTERED LAND SURVEYOR, PROVIDED SURVEY DOCUMENTATION.

ACTION/INFORMATION

- PIPE EMBEDMENT FILL (PEF) DEPLOYED WEST OF STATION 8+25 (REFER TO DRAWING G-00261), EROSION DUE TO RECENT RAINS. REMEDIATION REQUIRED: REMOVAL OF SOIL CLODS, ADDITIONAL PEF INSTALLED AND COMPACTED.
- AS OF 22 JUNE, 1997, VBS HAS RECEIVED 2584.7 TONS OF PEF.
- PROPOSED MANHOLE EMBEDMENT FILL (MEF) SAMPLE REMAINS OUTSTANDING.
- WISE IS ASSISTING VBS, PRIMARILY NORTH OF K-65 IN CONTROLLED AREA.

000255

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LCS/PHASE I CONSTRUCTION WEEK ENDING: 22 JUNE 1997

GEOSYNTEC CONSULTANTS PROVIDED THE FOLLOWING SERVICES:

- MONITORED, DOCUMENTED AND PHOTOGRAPHED CONTRACTORS ACTIVITIES.
- MONITORED HDPE DUAL CONTAINMENT PIPE WELDING (TRIAL AND PRODUCTION WELDS)
- OBSERVED AND DOCUMENTED DIMENSIONS OF HDPE MANHOLES AND CLEANOUTS RECEIVED TO DATE.
- PERFORMED LABORATORY TESTING AT ON-SITE SOILS LABORATORY INCLUSIVE OF MOISTURE CONTENT, ATTERBERG LIMITS, WASH 200 SIEVE ANALYSIS, SOIL CLASSIFICATION, AND MOISTURE/DENSITY RELATIONSHIP FOR SAMPLE LCS-06 (WELCH SAND & GRAVEL).
- OBTAINED SAMPLE LCS-07 FROM AREA NORTH OF K-65 (REFER TO DRAWING G-002102) FOR LABORATORY TESTING.
- PERFORMED NUCLEAR MOISTURE/DENSITY TESTING, AS REQUIRED, ON BACKFILL SOILS PLACED AND COMPACTED.

PHASE I

THE CONTRACTOR, PETRO ENVIRONMENTAL TECHNOLOGIES (PET) PERFORMED THE FOLLOWING:

- CONTINUED CUT TO GRADE ACTIVITIES WITHIN THE SEDIMENTATION BASIN.
- STOCKPILED CUT SOILS IN APPROVED LOCATION.
- LOCATED UNDERGROUND UTILITIES AT WEST BERM OF SEDIMENTATION BASIN BY HAND EXCAVATION.

000256

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LCS/PHASE I CONSTRUCTION WEEK ENDING: 22 JUNE 1997

- UNDERCUT AREA ALONG WEST BERM OF SEDIMENTATION BASIN (UNSUITABLE CONDITIONS)
- PROOFROLLED UNDERCUT AREA
- BACKFILLED UNDERCUT AREA WITH SUITABLE CUT AND STOCKPILED SOILS.

GEOSYNTEC CONSULTANTS PROVIDED THE FOLLOWING SERVICES:

- MONITORED, DOCUMENTED, AND PHOTOGRAPHED CONTRACTORS ACTIVITIES.
- OBTAINED SAMPLE FROM CUT SOILS FOR LABORATORY TESTING (SAMPLE OSDF-02).
- PERFORMED LABORATORY TESTING AT ON-SITE SOILS LABORATORY INCLUSIVE OF MOISTURE CONTENT, ATTERBERG LIMITS, WASH 200 SIEVE ANALYSIS, SOIL CLASSIFICATION, AND MOISTURE/DENSITY RELATIONSHIP FOR SAMPLE OSDF-02.
- PERFORMED NUCLEAR MOISTURE/DENSITY TESTING ON BACKFILL SOILS PLACED AND COMPACTED ALONG UNDERCUT AREA OF WEST BERM OF SEDIMENTATION BASIN.

GEOSYNTEC PERSONNEL SCHEDULE

- RANDOLPH LIVINGSTON, ENGINEERING TECHNICIAN, ARRIVED 18 JUNE, 1997.
- RENEE HALTER, ADMINISTRATIVE CLERK, ARRIVED 17 JUNE, 1997.
- BRIAN ERISMAN, ENGINEERING TECHNICIAN, OFF SITE 18 AND 19 JUNE, 1997.

000257

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LCS/PHASE I CONSTRUCTION WEEK ENDING: 22 JUNE 1997

- SCOTT QUAMMAN, ENGINEERING TECHNICIAN, SCHEDULED TO ARRIVE ON-SITE 23 JUNE, 1997.
- JEPHORY McMICHEN, SITE MANAGER, OFF-SITE 20 JUNE, 1997 AND SCHEDULED TO RETURN 30 JUNE, 1997.
- DAVID BONNETT, CQA MANAGER, SCHEDULED TO ARRIVE ON-SITE 23 JUNE, 1997 AS TEMPORARY REPLACEMENT FOR J. McMICHEN DURING HIS ABSENCE.
- NED MEEKINS, SENIOR SOILS TECHNICIAN WILL ASSIST D. BONNETT AS REQUIRED.

GEOSYNTEC PERSONNEL TRAINING, SITE SPECIFIC

HCM 6/22/97

- P. ODUROH COMPLETED RADIOLOGICAL WORKER II PRACTICAL. ~~PRACTICLE~~
- P. ODUROH COMPLETED MEDICAL TESTING
- R. LIVINGSTON COMPLETED RADIOLOGICAL WORKER CBT
- R. LIVINGSTON COMPLETED GET
- R. LIVINGSTON COMPLETED DRUG SCREEN
- R. HALTER COMPLETED GET
- R. HALTER COMPLETED DRUG SCREEN

STATUS OF ADMINISTRATIVE AND FIELD LABORATORY TRAILERS

- ADMINISTRATIVE TRAILER
  - TELEFAX OPERATIVE — EXTENSION 3415
  - POTABLE WATER COOLER DELIVERED AND OPERABLE
  - SAFETY ITEMS - ORDERED
  - COMPUTERS - OUTSTANDING
  - COPY MACHINE - OUTSTANDING

000258

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LCS/PHASE I CONSTRUCTION WEEK ENDING: 22 JUNE 1997

- FIELD LABORATORY TRAILERS (T-125, T-126)
  - POTABLE WATER COOLER DELIVERED AND OPERABLE
  - PLUMBING REPAIRS REMAIN OUTSTANDING
  - ENCLOSED ATTACHMENT REMAINS OUTSTANDING
  - EYE WASH STATIONS REMAIN INOPERABLE

MISCELLANEOUS

- SECOND TROXLER NUCLEAR MOISTURE/DENSITY GAUGE ARRIVED 18 JUNE, 1997
- GEOSYNTEC OBTAINED MAIL STOP 3B AT MAIL ROOM.
- GEOSYNTEC RECEIVED APPROVAL FOR VEHICLE ACCESS TO CONTROLLED AREAS.

HEALTH AND SAFETY

- ITEM ONE FROM 15 JUNE, 1997 WEEKLY REPORT REMAINS OPEN.
- REVISED GEOSYNTEC SAFE WORK PLAN WAS RECEIVED AND TRANSMITTED TO B. ZEBICK (FDF) FOR REVIEW.
- GEOSYNTEC LEASED VEHICLES BACK UP ALARMS REMAIN OPEN.
- N. MEEKINS AND D. BODINE SIGNED OFF ON PET HEALTH AND SAFETY MATRIX.
- B. ERISMAN ATTENDING PET HEALTH AND SAFETY MEETINGS
- R. PEDDKORD ATTENDING VBS HEALTH AND SAFETY MEETINGS
- GRASS REQUIRES MOWING AT LABORATORY TRAILERS T-125 AND T-126

000259

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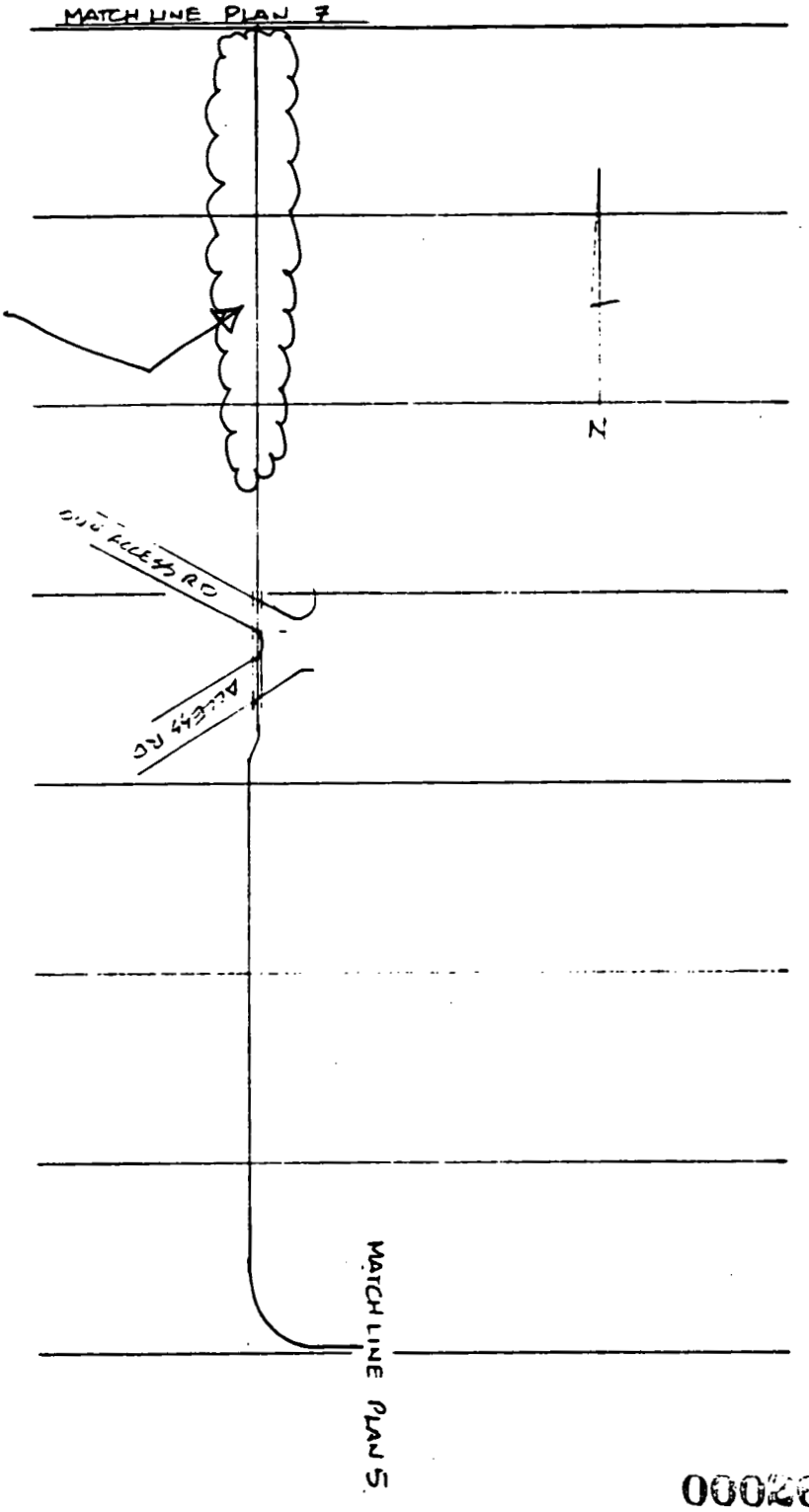
GEOSYNTEC CONSULTANTS

Written by: N. MEEKINS Date: 97 / 06 / 22 (YY MM DD) Reviewed by: _____ Date: __ / __ / __ (YY MM DD)

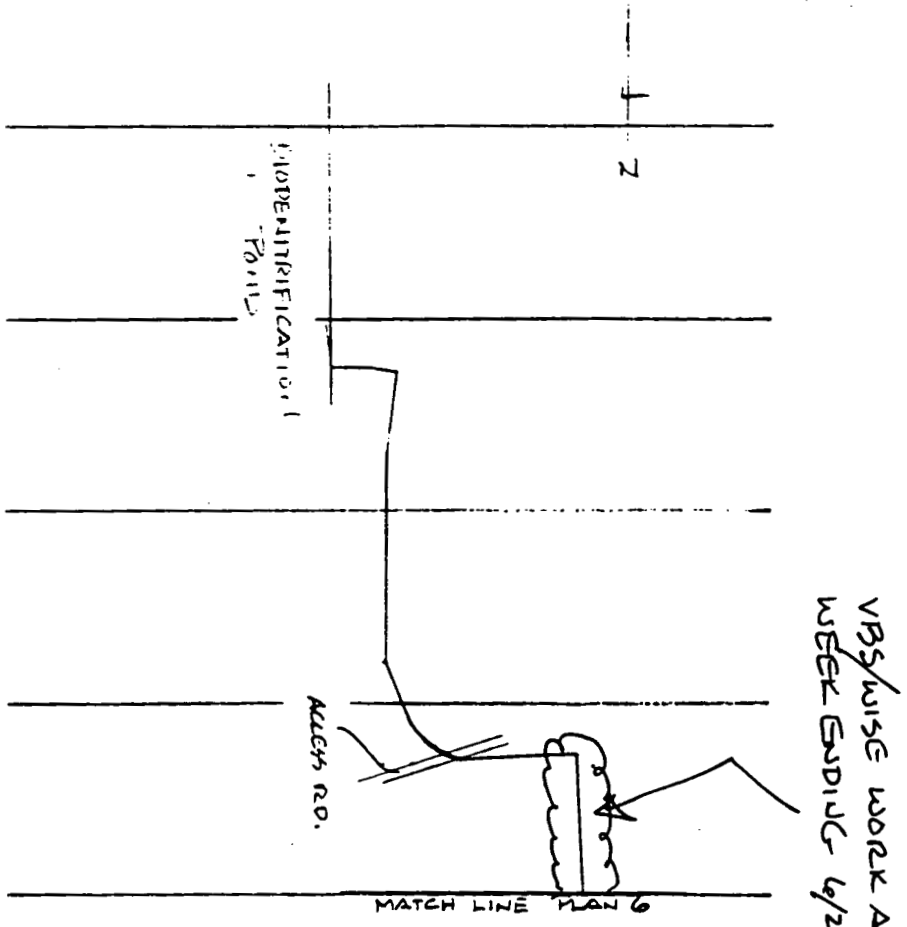
Client: FDF Project: OSDF Project/~~Proposal~~ No.: GQ0166 Task No.: 04.1



LEACHATE CONVEYANCE SYSTEM
FROM DWG 92X-5900-G-00266
PLAN 6

Written by: N. MEEKINS Date: 97/06/22 (YY/MM/DD) Reviewed by: _____ Date: __/__/__ (YY/MM/DD)

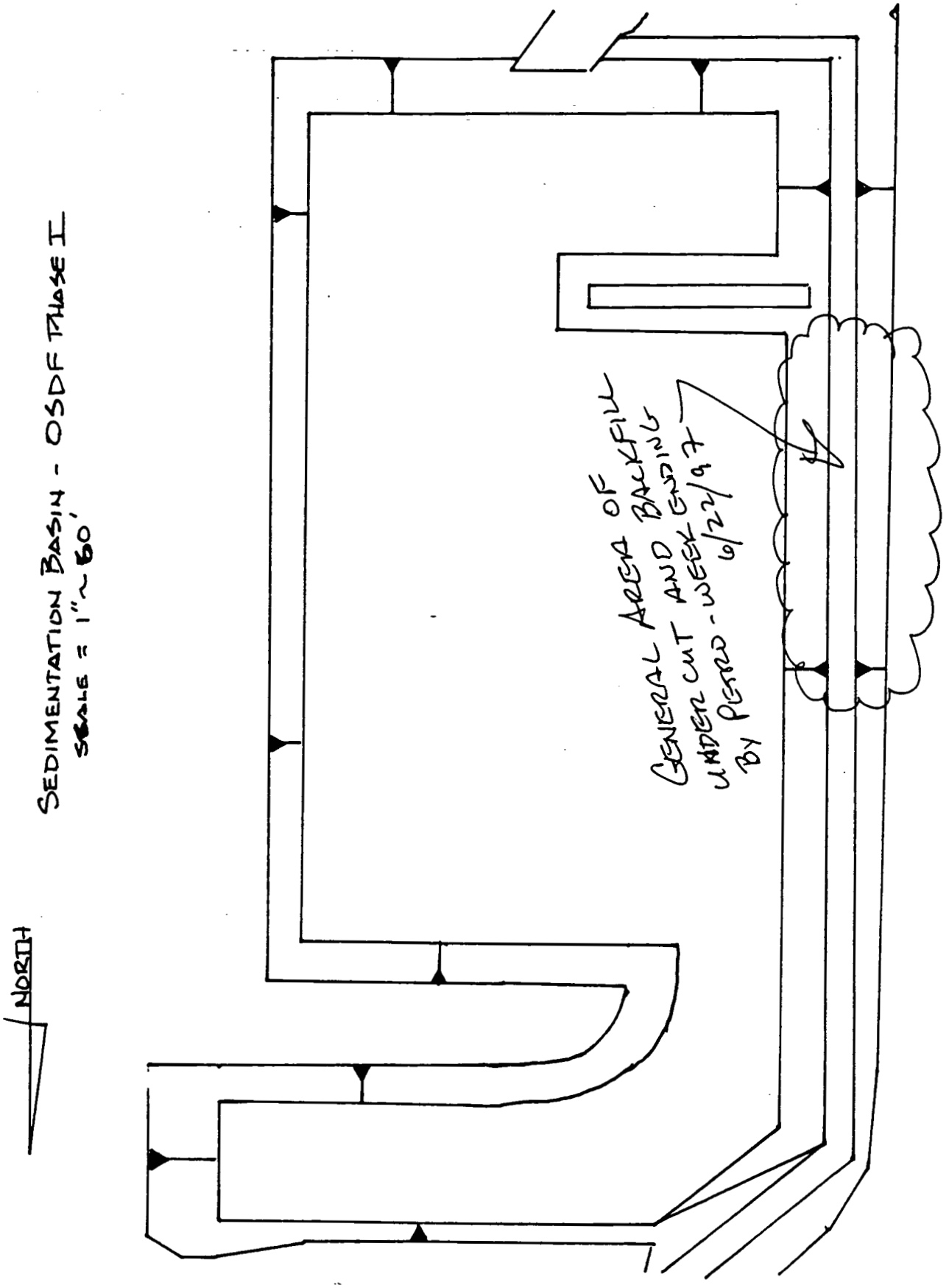
Client: FDF Project: OSDF Project/Proposal No.: GQ0166 Task No.: 04.1



LEACHATE CONVEYANCE SYSTEM
FROM DWG 12X-5900-G-00262
PLAN 7

Written by: N. MEEKINS Date: 97/06/22 Reviewed by: _____ Date: __/__/__

Client: FDF Project: OSDF Project/~~Proposal~~ No.: GQ01606 Task No.: 04.1



GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: Leachate Conveyance System (LCS) WEEK ENDING: 6 July 1997

The following covers the period from 23 June 1997 through 6 July 1997. Village Building Services, Inc. (VBS) and Petro Environmental Technologies (PET) did not conduct activities from 4 July 1997 through 6 July 1997.

Site conditions were primarily dry with 0.4" of rainfall recorded. Temperatures ranged from sixty to ninety-five degrees Fahrenheit.

LEACHATE CONVEYANCE SYSTEM (LCS)

The contractor, Village Building Services, Inc. (VBS) assisted by Wise Construction Company (WCC) performed the following:

- Dewatered LCS trench excavations.
- Deployed and compacted pipe embedment fill (PEF) north of K-65 utilities, and in the area of drawing G00261, supplier Powell Gravel and Topsoil.
- Deployed and compacted soil backfill south and north of K-65 utilities, source Welch Sand and Gravel.
- Butt fusion welded 4 inches and 8 inches HDPE dual containment pipe.
- Hydrostatically tested HDPE dual containment pipe.
- Undercut saturated soils northwest of station O+60, refer drawing G00262 and at other locations.
- Deployed geotextile and number two coarse aggregate in stabilizing undercut areas.
- Installed dewatering sump south of OU4 access road, refer to drawing G00266.
- Deployed caution tape above utilities.

000263

COPY TO: MJH, RAH, UAK, JCJ, WAZ, RLM, MWG, GKJ, JFM, KWC, LRW, DBG, File PER: J.F. McMichen

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 04.1

DESCRIPTION: ~~Leachate Conveyance System (LCS)~~ WEEK ENDING: 6 July 1997

- Manually removed rock larger than 3 inches from backfill soils.
- Extrusion weld sleeve north of OU4 access road.
- Clearing, stripping and excavating, refer to drawing G00261.

Refer to attached laboratory test summaries for results of previous laboratory analysis.

B.L. Payne (BLP), registered land surveyor, provided survey documentation.

ACTION/INFORMATION

- Submittal number 078 revision 3, manhole embedment fill, sample designated as MEF-05 does not comply with specification section No. 02215, grain-size distribution.
- Initial attempts to hydrostatically test HDPE dual containment pipe were unsuccessful. Adjustments in equipment and procedures resulted in meeting the specification requirements.
- No. "304 Base Aggregate" deployed at the OU4 road crossing considered temporary. To be removed and re-deployed during paving operations.

GeoSyntec Consultants provided the following services:

- Monitored, documented and photographed contractor activities.
- Monitored HDPE dual containment pipe trial and production welding.
- Performed field nuclear density tests on soils backfill.

000264

COPY TO: MJH, RAH, UAK, JCJ, WAZ, RLM, MWG, GKJ, JFM KWC, LRW, DBG, File PER: J.F. McMichen

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: Leachate Conveyance System (LCS) WEEK ENDING: 6 July 1997

- Monitored hydrostatic testing of HDPE dual containment pipe.
- Performed grain-size distribution analysis on pipe embedment fill, sample PEF-O5.
- Performed moisture, Atterberg limits, grain-size distribution, wash no. 200 and moisture density relationship tests on soil backfill, samples LCS-09, LCS-10. Additional samples LCS-11, LCS-12 and LCS-13 are in progress.
- Monitored deployment and compaction of PEF.
- Grain-size distribution and moisture-density relationship in progress, sample no. 304 base aggregate, sample no. VRB-01, source Welch Sand and Gravel.
- Performed grain-size in distribution progress on manhole embedment fill, sample MEF-O5 submittal no. 078, revision 3, sample MEF-06 in progress.

Refer to attached laboratory test summaries for the results of previous laboratory analysis.

PHASE ONE

The contractor, Petro Environmental Technologies (PET) performed the following:

- Excavated sedimentation basin.
- Stockpiled excavated soils.
- Deployed and compacted soils, sedimentation basin berm.
- Excavated temporary drainage swace, refer to drawing DWG-00075.
- Received twelve (12) rolls of seven-ounce geotextile.

000265

COPY TO: MJH, RAH, UAK, JCJ, WAZ, RLM, MWG, GKL, JEM, PER: J.M. McMichen

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: ~~Leachate Conveyance System (LCS)~~ WEEK ENDING: ~~6 July 1997~~

- Excavated to expose and remove a utility line.
- Installed C.M.P, sedimentation basin.
- Placed wood chips, resulting from clearing operations, north of the topsoil stockpile.
- Installed construction fence.
- Stripped north of proposed cell, no. 1 stockpiled southeast of proposed cell, no. 2

ACTION/INFORMATION

- Geosynthetic materials rescheduled, arrival date 28 July 1997.
- Excavation of cell no. one "clay liner" scheduled for 7 or 8 July 1997.

Attended Phase One contractor weekly meeting conducted on 30 June 1997. Agenda, attendance recorded and minutes by Fluor Daniel Fernald (FDF). Refer to FDF meeting minutes for details. Following are some items discussed:

- Insect repellent, "OFF" approved for use
- Sun screen, its use
- Dust control
- Hoisting and Rigging
- "Radiation" area at access road to Remia warehouse

000266

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: ~~Leachate Conveyance System (LCS)~~ WEEK ENDING: 6 July 1997

- North access road closure 1 July 1997, approximately 3 to 4 months
- PET to be at "full strength" week of 7 July 1997
- No. 304 aggregate sample submitted
- Possibility of deer on deployed geomembrane
- Rock exceeding 3 inches, sedimentation basin fill
- Review of PET four week schedule

GeoSyntec Consultants provided the following services:

- Monitored, documented and photographed contractor activities.
- Performed field nuclear density tests, west berm sedimentation basin.
- Obtained two samples of 7 oz. geotextile, samples GT-01 and GT-02. Off site laboratory analysis in progress at geosynthetics MTL facility in Boca Raton, Florida.
- Performed moisture-density relationship, Atterberg limits, moisture, grain-size analysis and wash No. 200 sieve on soils sample OSDF-03.
- Granular drainage material, grain-size distribution test, sample GDM-01 in progress.
- Performed pipe embedment fill grain-size distribution test on sample PET/PEF-02, sample PET/PEF 02.1 in progress.

000267

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: Leachate Conveyance System (LCS) WEEK ENDING: 6 July 1997

GeoSyntec Personnel Schedule:

- K. Cargill, Construction Support Team Leader, on site 23 June 1997
- D. Bonnett, CQA Manager, departed 27 June 1997
- J.M. McMichen, QC Site Manager, returned 29, June 1997
- S. Quammen, Engineering Technician, arrived 23 June 1997

GeoSyntec Personnel Training, Site Specific:

- S. Quammen, ET, completed drug screening, GET CBT, Radiological Worker Training CBT and obtained a dosimeter.
- R. Livingston, ET, completed GET CBT, Radiological Worker Training, Site Worker, and obtained a dosimeter.
- B. Erisman, ET, attended Heat Stress orientation at the on-site medical department.
- R. Peddicord, and S. Quammen completed Troxler nuclear density gauge training off-site.

Status of Administrative and Field Laboratory Trailers:

- Administrative Trailer (T-503)
  - Safety items, obtained
  - Copy machine, obtained

000268

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: ~~Leachate conveyance System (LCS)~~ WEEK ENDING: ~~6 July 1997~~

- Field Laboratory Trailers (T-125, T-126)
- Plumbing, functional each trailer
- Enclosed attachment, addressing alternative
- Eye wash stations remain inoperable

HEALTH AND SAFETY

- R. Livingston assigned as Health and Safety officer
- P. Oduroh, R. Livingston, and S. Quammen signed off on VBS Health and Safety Matrix
- B. Erisman attended Heat Stress orientation at the on-site medical department.
- S. Quammen and R. Livingston completed initial InVivo monitoring.
- Back up alarms have been installed in each vehicle operated by GeoSyntec personnel.
- FDF inspection of laboratory trailers, finding, an individual not wearing safety glasses during testing, corrected.
- Eyewash stations in laboratory trailers remain inoperable.
- Weekly Health and Safety inspections continue to be conducted at trailers T-125, T-126, and T-503.
- Weekly Health and Safety meetings, chaired by R. Livingston.
- R. Livingston conducting vehicle safety inspections and coordinating vehicle maintenance.

REFER ATTACHMENTS

000269

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: Leachate Conveyance System WEEK ENDING: 13 July 1997

The following covers the period from 7 July 1997 through 13 July 1997.

Site conditions remained dry with no precipitation recorded. Temperatures ranged from fifty-six to ninety-four degrees Fahrenheit with early morning fog.

LEACHATE CONVEYANCE SYSTEM (LCS)

The contractor, Village Building Services, Inc. (VBS) assisted by Wise Construction Company (WISE) performed the following:

- Excavated LCS trench north of K-65 utilities and road crossing southeast of road OU4.
- Dewatered various locations.
- Provided dust control.
- Excavated sumps, drawing G-00261 stations 14+40 and 14+20.
- Hydrostatically tested 8 inch HDPE pipe.
- Installed HDPE dual containment pipe, and cleanouts.
- Deployed geotextile and number two coarse aggregate, drawing G-00261 station 11+40 to 13+20 and road crossing southeast of OU4 road as stabilization.
- Extrusion welded 8 inch HDPE pipe and electro-fusion coupling, 4 inch HDPE pipe north of manhole number eleven.
- Deployed and compacted pipe embedment fill (PEF) cleanout No. 9, road crossing southeast of OU4 road, station 11+40 to 13+20 drawing G-00261.
- Deployed and compacted backfill soils north of K-65 utilities and road crossing southeast of OU4 road.

B.L. Payne (BLP), registered land surveyor, provided survey documentation.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: Leachate Conveyance System WEEK ENDING: 13 July 1997

ACTION/INFORMATION

- Soils backfill sample LCS-11, Welch Sand and Gravel, classified as CH Material does not meet specification section 02200 part 2.01B to be addressed in non-conformance.
- To facilitate hydrostatic pressure test of 8-inch HDPE pipe north of K-65 utilities. It may require cutting and removal of pipe sections.
- HDPE SDR-26 6-inch and 10-inch pipe delivered this week are being evaluated with damage noted. Initial observations; 1) not palletized or bundled 2) dents and gouges.
- Simultaneous butt fusion welding and monitoring operations were conducted.

Leachate Conveyance System (LCS) weekly meeting was cancelled.

GeoSyntec Consultants provided the following services:

- Monitored, documented and photographed contractor activities.
- Performed field nuclear density tests.
- Performed grain-size distribution on No. 304 base aggregate sample no. VRB-01, ODOT 304.02 specification number 02230 part 2.01 B.
- Monitored trial and production butt-fusion welding of HDPE dual containment pipe.
- Monitored receipt of 6-inch and 10-inch HDPE SDR-26 pipe.
- Monitored hydrostatic testing, 8-inch HDPE pipe.
- Monitored electro fusion and extrusion welding.

000271

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: Leachate Conveyance system WEEK ENDING: 13 July 1997

PHASE I

The contractor, Petro Environmental Technologies (PET) performed the following:

- Sedimentation basin, excavated for installation of principal spillway risers, installed 12-inch CMP couplers and O-Rings (refer to drawing page G-41A detail No. 49), placed concrete (outflow risers)(refer to drawing page No. 41A detail No. 47), backfilled and compacted 4-inch abandoned gas line trench, graded and removed large clods (slopes), installed riser pipe and deployed geotextile and class C rip-rap outflow principal and emergency spillway.
- Provided dust control.
- Demolition of north access road and stockpiled east.
- Excavated topsoil northeast of cell No. 1, stockpiled south of cell No. 2.
- Initiated excavation of cell No. 1.
- Excavated and stockpiled proposed liner base soils.
- Excavated north channel.
- Proofrolled a portion of cell No. 1 perimeter berm.
- Placed minimal structural fill, cell No. 1 perimeter berm.

Hirsch and Associates, registered land surveyor, provided survey documentation.

000272

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: Leachate Conveyance System WEEK ENDING: 13 July 1997

ACTION/INFORMATION

- Based on visual observations of the proposed class D rip-rap at the Highlands Quarry by GeoSyntec approximately 98% of the existing stockpile appears free of fractures and weathering.
- Work schedule has been increased to include Saturdays.
- Submittal No. 44 revision 0, granular drainage material (No. 57 coarse aggregate). Grain-size distribution test results did not meet specification section 02270 part 2.01 D.
- Extension of rip-rap placement, sedimentation basin primary outflow to existing drainage swale.
- Sedimentation basin, stapling of geotextile, staple size 8 inches (submitted as 18 inches), spacing 5 feet (previously 10 feet) refer to RCI for clarification.

Attended Phase I weekly meeting conducted on 7 July 1997. Agenda, attendance record and minutes by Fluor Daniel Fernald (FDF). Refer to FDF meeting minutes for details. Following are some items discussed.

- Be aware of your surroundings at home.
- When in doubt follow manufacturers recommendations.
- Paging during non-working hours.
- Wise briefed on PET matrix.
- Lock and tag, FDF remove where applicable.
- Proper P.P.E not in use during erection of fence.
- Health and Safety inspected two trailers, PET.

000273

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: Leachate Conveyance System WEEK ENDING: 13 July 1997

- Use of 2 by 4's for forklift extenders are not acceptable.
- Health and Safety inspected two scrapers; deficiencies, airhorn, fire extinguisher not removable, window missing bracket. Deficiencies rectified.
- PET matrix sign off at construction parking area, schedules 0645 and 1245.
- Reinforce safety to "small" contractors .
- Received PET four week schedule.
- Sedimentation basin, concrete scheduled for 8 July 1997.
- Anticipate placement of pipe 10 July 1997.
- Scheduled to complete grubbing/stripping 10 July 1997.
- Excavate proposed liner base soil 11 July 1997.
- Thirteen operators on site.
- PET to begin Saturday work schedule.
- Sedimentation basin, deployment of geotextile 9 July 1997.
- Explanation of as builts.
- New topic, Environmental, suggested by FDF to be included under safety.
- Concrete type changed to type II.
- Submittals, concrete and pipe embedment fill.
- Action item F from previous meeting has not been resolved. 000274
- Type of shoes allowed on geomembrane, submittal required.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: Leachate Conveyance System WEEK ENDING: 13 July 1997

GeoSyntec Consultants provided the following services:

- Monitored, documented and photographed contractor activities.
- GEL laboratory completed testing of geotextile samples GT-01 and GT-02.
- Observation of proposed Class D rip-rap at Highland Quarry.
- Grain-size distribution on pipe embedment fill (PEF) sample No. PET/PEF-02.1.
- Cast concrete cylinders and performed slump and percent air tests. Compression tests conducted by Fuller, Mossbarger, Scott and May (FMSM) of Cincinnati, Ohio.
- Permeability testing proposed liner base soils samples LP-01 and LP-02 in progress, GEL Laboratory.
- Performed grain-size distribution tests on samples of granular drainage material (#57 coarse aggregate). GEL Laboratory performing hydraulic conductivity and carbonate content tests on samples GDM-01 and GDM-02.
- Obtained PEF sample PET/PEF-03 from on site stockpile, performed grain-size distribution test.
- Obtained five samples of proposed liner base soils from on site stockpile. Performed the following tests; moisture content samples LP-01, 02, 03, 04 and 05, Atterberg limits LP-01, 02 and 03, moisture-density relationship LP-01, 02, 03 and 04, grain-size distribution tests LP-01, 02 and 03, permeability testing in progress LP-01 and 02. Additional testing in progress.
- Obtained two proposed structural fill samples OSDF-04 and OSDF-05. Performed moisture, grain-size distribution, Atterberg limits and moisture-density relationship.
- Observed proofrolling, cell No. 1 perimeter berm.

000275

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: Leachate Conveyance System WEEK ENDING: 13 July 1997

GeoSyntec Personnel Schedule:

- K. Cargill scheduled to arrive 14 July 1997 to attend FDF/Geosyntec monthly meeting.
- J. Williams, Engineering Technician, scheduled to arrive 14 July 1997.

Geosyntec personnel training, site specific:

- All GeoSyntec personnel on site have completed Lock and Tag.

MISCELLANEOUS

- Geosyntec to secure an additional Nuclear Density Gauge.

HEALTH AND SAFETY

- Caution signs re-established at laboratory trailers T-125 and T-126.
- Microwave in trailer T-503, radon inspection by FDF subcontractor.
- Refer to separate report for results of weekly health and safety meeting and inspections of trailers T-126, T-125 and T-503.

REFER ATTACHMENTS

000276

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 20 July 1997

- Obtained fill (structural) soils samples OSDF-06, 07 and 08. Performed grain-size distribution on each, wash no. 200 on samples 06 and 07, 08 in progress, performed Atterberg limits on 06 and 07, 08 in progress, and moisture-density relationship on 07, in progress on 06 and 08.

GEOSYNTEC PERSONNEL/SCHEDULE

- J. Williams, Engineering Technician, mobilized 14 July 1997. Primary duties to conduct on-site laboratory analysis.
- K. Cargill, Construction Support Team Leader, on site 14 July 1997. Attended FDF/GeoSyntec monthly meeting.
- K. Wills, scheduled to arrive 21 July 1997 to assume geosynthetics duties.

GEOSYNTEC TRAINING, SITE SPECIFIC

- J. Williams completed GET training and Lockout/Tagout.

HEALTH AND SAFETY

- Eyewash stations were returned to trailers T-125 and T-126.
- Refer to weekly health and safety inspections and reports for specific information.
- Rob Pedicord completed annual InVivo monitoring.
- J. Williams completed drug screening.

000277

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LRW, WAZ, DGB, BAE, HEM, KWC, DKP

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 27 July 97

The following covers the period from 21 July 1997 through 27 July 1997.

Site conditions remained primarily dry with rainfall occurring on 21 July, trace; 22 July, 0.6 inches and 23 July, trace. Moderate to dense fog in the a.m. hours. Temperatures ranged from 63 to 103 degrees Fahrenheit.

LEACHATE CONVEYANCE SYSTEM

The contractor, Village Building Services, Inc. (VBS) assisted by Wise construction Company (WISE) performed the following:

- Performed butt-fusion welding HDPE 4/8-inch dual containment pipe, electro-fusion(coupling) 8-inch HDPE pipe, and extrusion welding 10-inch sleeve. Refer drawing G-00262.
- Continued excavation, LCS trench, drawing G-00262, G-00261 and G-00266.
- Installed 4/8-inch HDPE dual containment pipe, refer drawings G-00261, G-00266 and G-00262.
- Initiated excavation, leachate trench, refer drawing G-00059. Fill soils were separated from the initial approximate 6-inch (topsoil/grass) material during excavation.
- Butt-fusion welded 6/10-inch HDPE gravity line pipe, refer drawing G-00059.
- Deployed pipe embedment fill (PEF), refer drawing G-00059.
- Deployed and compacted PEF, refer drawings G-00262 and G-00261.
- Deployed and compacted fill soils, LCS trench, refer drawings G-00262 and G- 00261.
- Portions of LCS excavated soils stockpiled adjacent to trench and in predesignated storage area, refer drawing G-00261.

000278

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FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 27 July 97

- Installed a 20-inch diameter 50-inch sleeve to accept HDPE gravity line pipe south of 48-inch CMP culvert, sedimentation basin.
- Dewatered trenches as appropriate.
- Installed barriers adjacent to trench excavations.
- Hydrostatically tested manhole No. 5.

B. L. Payne (BLP), registered land surveyor, provided survey documentation.

ACTION/INFORMATION

- Butt-fusion welding of 10-inch HDPE pipe, gravity line, heating element (plate) of insufficient dimension. Contractor ceased welding operations.
- Damage (gouges) to HDPE pipe during instillation as observed by GeoSyntec representatives are marked and reported to contractors representatives for repair.
- Butt-fusion welding, 10-inch HDPE pipe, deformation of pipe by machine clamps was observed; clamps slipping during welding. Ambient temperature 92 degrees Fahrenheit, pipe 110 degrees Fahrenheit. Contractor ceased welding.
- Refer Resident Engineer weekly report for status of HDPE pipe certification and relocation of portions of the LCS.
- Non-conformance (NCR-1700-002), specification section 02605 part 3.07 C.2.a and DCN 1700-033, hydrostatic testing, status open.
- Installation of thrust blocks and locations within the LCS are under review.

000279

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 27 July 97

Leachate Conveyance System (LCS) weekly meeting was not attended by the writer. Refer to LCS weekly meeting minutes generated by Fluor Daniel Fernald (FDF) for details.

GeoSyntec Consultants provided the following services:

- Monitored, documented and photographed contractor activities.
- Performed field nuclear-density tests on backfill soils.
- Monitored hydrostatic testing, manhole No. 5.
- Monitored trial and production welding 4/8-inch HDPE pipe and electro-fusion (coupling) 8-inch HDPE pipe.
- Obtained pipe embedment fill (PEF) sample PEF-06. Performed grain-size distribution test.
- Obtained fill soils sample LCS-14 from excavation. Refer drawing G-00059, laboratory analysis in progress.

PHASE ONE

The contractor, Petro Environmental Technologies (PET), performed the following:

- Excavated proposed clay liner soils from future cell number one.
- Excavated, deployed and compacted fill soils, north and west berms, cell number one and west perimeter berm.

000280

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 27 July 97

- Mechanically and manually removed rock from fill areas.
- Provided dust control.
- Sedimentation basin, installed 7oz. geotextile and wire mesh to the 8-inch primary lowflow riser pipe and number 57 stone encompassing the pipes. Refer drawing page G-41A.
- Installed silt fence south of proposed clay liner stockpile No. 3.
- Repaired 48-inch C.M.P. culvert pipe via jacking operations. Refer weekly report dated 20 July 1997 action/information item No. 5.
- Initiated fine grading cell No. one floor and north berm scope.

ACTION/INFORMATION

- Excavation of proposed clay liner substantially increased from the scheduled 4,000 cubic yards per day to a high of 9,000+ cubic yards.
- Geosynthetics scheduled arrival dates
  - 31 July 1997 through 4 August, 50% of geomembrane
  - 12 through 15 August 1997, 50% of GCL/geotextile
  - 1 September 1997, complete delivery of geosynthetics
- Undercutting, removal of uncertified soils, backfilling, compacting and field density testing was required of a portion of the north face of the north berm, cell number one.
- Proposed clay liner soils represented by sample no. LP-07 was removed from stockpile designated as No. 2. Two additional samples (LP-07.1 and LP-07.2) were obtained from adjacent areas. Laboratory analysis of each is in progress.

000281

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FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 27 July 97

- In excavating cell No. 1, rubble was unearthed as well as an apparent abandoned well.
- Refer resident engineer weekly report for gravity line relocation details.

Attended Phase One contractor weekly meeting conducted on 23 July 1997. Agenda, attendance record and minutes by Fluor Daniel Fernald (FDF). Refer to FDF meeting minutes for details. Following are some items discussed:

- Various safety topics.
- Possible deployment of clay liner on cell floor as grading of berms continues.
- Subgrade survey requirements.
- General methods of deploying clay liner.
- Removal of rock > 2 inches from clay liner.
- Status of clay liner testing.
- Methods to be employed in removal of clay liner soils not meeting specification requirements and re-testing of soils, to be reviewed by GeoSyntec and FDF.

Attended Preparatory Phase One meeting conducted on 25 July 1997. Agenda, attendance record and minutes by Petro Environmental Technologies (PET). Refer attached documentation for items reviewed.

GeoSyntec Consultants provided the following services:

- Monitored, documented and photographed contractor activities.

000282

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FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 27 July 97

- Monitored excavation and stockpiling of proposed clay liner. Obtained soil samples LP-19 through LP-40. Moisture, grain-size distribution, moisture-density relationships and Atterberg limits tests have been completed on various samples and are in progress on additional samples.

- GEL Laboratory completed hydraulic conductivity testing on clay liner soil samples LP-04, LP-06, LP-08 through LP-18, LP-21 and LP-22. Testing in progress for remaining samples.

- Obtained fill (structural) soils samples OSDF-09 and OSDF-10. Performed moisture-density relationships, moisture and grain-size distribution tests. Atterberg limit tests in progress.

- Observed undercutting of north berm and performed field nuclear density tests on backfill soils, refer action/information item No. 3.

- Monitored excavation and placement of fill and backfill soils.

- Performed field nuclear-density tests on compacted fill soils.

Refer attached summary logs for laboratory test results.

GeoSyntec Personnel/Schedule

- K. Wills, ET, mobilized to site 22 July 1997. Presently assigned to assist in the on-site laboratory.

- P. O'Duroh, ET, scheduled to depart 2 August 1997.

- K. Cargill, Construction Support Team Leader, scheduled to arrive 29 July 1997 and depart 31 July 1997

000283

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 27 July 97

- N. Meekins, Senior Soils Technician, departed 25 July 1997 scheduled to return 4 August 1997.

GeoSyntec personnel, site-specific training:

- K. Wills completed GET and RAD CBT, Respirator CBT, Lock and Tag and RAD II Practical training.

HEALTH AND SAFETY

- J.F. McMichen, N. Meekins, B. Erisman, P. O'Duroh, S. Quammen and D. Bodine completed 60-day InVivo monitoring.
- Refer to weekly Health and Safety inspections and reports for specific details.
- FDF requested flags be mounted to GeoSyntec vehicles to assist heavy equipment operators in observing vehicles and movement.
- K. Wills completed initial drug screening.

000284

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 3 August 97

The following covers the period from 28 July 1997 through 03 August 1997.

Site conditions remained dry with trace rainfall recorded. Temperatures ranged from fifty-four to eighty-eight degrees Fahrenheit.

LEACHATE CONVEYANCE SYSTEM

The contractor, Village Building Services, Inc. (VBS) assisted by Wise Construction Company (WISE) performed the following:

- Deployed and compacted pipe embedment fill, refer drawings G-00261, G-00262 and G-00266.
- Hydrostatically tested 240' of 4" HDPE pipe, refer drawings G-00261 and manhole number LDS-1.
- Deployed and compacted backfill soils, refer drawings G-00261 and G-00266.
- Performed Butt-fusion welding, 6/10" HDPE gravity line, refer drawings G-00259.
- Manually removed rock > 3" from backfill soils.
- Deployed caution tape in LCS trench, various locations.
- Manually excavated at various locations of the LCS to locate existing utility lines.
- Installed 4/8" HDPE dual containment pipe, refer drawing G-00266, station 01+70 to station no. 04+00.
- Excavated LCS trench, refer drawing G-00266.
- Received eighteen pieces of 10" HDPE gravity line pipe.

000285

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 3 August 97

- Dewatered LCS trenches as appropriate.
- Extrusion welded a 10" sleeve onto 4/8" HDPE dual containment pipe, south of and adjacent to cleanout number seven.
- Installed cleanout number seven, refer drawing G-00261.
- Received manholes LCS-3 and LDS-3.

B. L. Payne (BLP), registered land surveyor, provided survey documentation.

ACTION/INFORMATION

- Caution tape deployed above the LCS between "Second Street" and manhole number eleven is estimated to be approximately 2.5' below final grade.
- Eighteen 10" SDR-26 HDPE gravity line pipes were delivered 31 July 1997. The pipes are assumed to be replacements for damaged pipes noted in previous reports. Certification documentation not submitted with pipe. VBS indicated ISCO contact would not be available prior to 4 August 1997.
- Undercutting of backfill soils above the LCS was performed at the 90° "curve" in the "Taco/Diaz" area due to large quantities of rock, vegetation (roots, grass) and sticks observed in the fill.
- Item number five, weekly report dated 27 July 1997, status open.
- As of 28 July 1997 7,591.02 tons of pipe embedment fill has been delivered to site.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 3 August 97

Leachate Conveyance System (LCS) weekly meeting was not attended by the writer. Refer LCS weekly meeting minutes generated by Fluor Daniel Fernald (FDF) for details.

GeoSyntec Consultants provided the following services.

- Monitored, documented and photographed contractor activities.
- Performed field nuclear-density tests on backfill soils.
- Monitored hydrostatic testing, HDPE dual containment pipe and manhole.
- Monitored trial and production welding 6/10" HDPE gravity line pipe and 4/8" HDPE dual containment pipe.
- Monitored relocation of HDPE pipe from initial storage areas to welding/placement areas, defining damage to HDPE pipe where applicable.
- Monitored extrusion weld repair and sleeve installation.
- Obtained pipe embedment fill (PEF) samples PEF-07 and PEF-08. Performed grain-size distribution analysis on each.
- Observed installation of manhole number five.
- Monitored receipt of 18 pieces of 10" HDPE gravity line pipe.
- Monitored deployment and compactive effort of backfill soils and pipe embedment fill.

000287

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 3 August 97

PHASE ONE

The contractor, Petro Environmental Technologies (PET), performed the following:

- Excavated east drainage channel, refer drawing page G-5A and temporary drainage swale, drawing G-5B.
- Deployed and compacted fill soils north, east and west cell berms.
- Excavated "uncertified" soils, north berm, placed in the impacted material stockpile. Soil above the uncertified material was undercut, stockpiled adjacent to the excavation, then used as backfill and compacted.
- Excavated and stockpiled proposed clay liner soils from cell no. one.
- Excavated trench at 48" CMP outflow, deployed 7oz. geotextile and rip-rap.
- Proofrolled portions of cell no. one floor.
- Undercut, backfilled and compacted various locations of cell no. one floor subgrade.
- Fine graded cell no. one slopes.
- Received forty-six 6" SDR-11 HDPE pipe, thirty-seven of which were perforated (perforations 0.5" spaced at 6" on center, 3 rows at 120°). Additionally received eleven 6/10" SDR-11 dual containment pipe, one 3.5/6.5" (OD) pipe, 20 foot length 6" perforated pipe, couplings, elbows and electro-fusion couplings.
- Installed grade stakes, cell floor.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 3 August 97

- Manually removed rock > 5" from fill soils.
- Excavated access road west of north access road and south of cell no. one.
- Deployed 7oz. geotextile and no. 304 aggregate, sedimentation basin top of berms.

Hirsh and Associates, registered land surveyors, provided survey documentation.

ACTION/INFORMATION

- Item two weekly report dated 27 July 1997 schedule has been changed to the following:
  - 4 August, 100% of geomembrane
  - GCL on hold pending conformation of test results
- Laboratory analysis of proposed clay liner from stockpile designated as one have been completed. Test results for samples LP-01 through LP-05 met specification requirements as defined in section 02225 part 2.01 C.
- PET has placed hold tags on HDPE pipe and appurtenances received 1 August 1997 awaiting certificates. "Inspection" of materials scheduled for 4 August 1997.
- In excavation, fine grading and or proofrolling of cell no. one various subgrade areas exhibited pumping, rutting > 2" to one plus foot, and pumping of water through the subgrade. Undercutting from one to three feet revealed a discontinuous saturated sand layer, wet to saturated silts and clays underlain by a moist to wet firm grey clay. Undercut areas were backfilled, compacted and tested. However, during excavation or backfilling and compacting adjacent areas would exhibit conditions as noted above, requiring continued undercutting. GeoSyntec monitored and documented the undercut

000289

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FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 3 August 97

locations. PET ceased operations on 02 August 1997 sealing the area. Subgrade conditions are to be addressed 4 August 1997.

- Hirsh and Associates surveyed a section of cell no. one northwest corner. Initial data submitted to GeoSyntec 01 August 1997 was insufficient. Additional data submitted 01 August 1997 p.m. hours to be reviewed 4 August 1997. However, PET representatives indicated that the area in question exhibits wet subgrade soils.

- Proposed clay liner test results not meeting specification requirements are to be addressed as follows:
  - For each failing result, two additional samples are to be obtained and tested from the area of the stockpile in question.

- As per PET 62,205 cubic yards of proposed clay liner has been stockpiled through 29 July 1997.

- Item three, weekly report dated 20 July 1997, status closed.

Attended Phase One contractor weekly meeting conducted on 28 July 1997. Agenda, attendance record and minutes by Fluor Daniel Fernald (FDF), refer FDF meeting minutes for details. Following are some items discussed.

- Horizontal monitoring wells scheduled to arrive 1 August 1997.

- Approximately 69,000 cubic yards of proposed clay liner has been stockpiled. Cell one requires approximately 8,000 to 9,000 additional cubic yards to be excavated from cell no. two.

- Sedimentation basin to be fine graded this week.

GeoSyntec Consultants provided the following services:

- Monitored, documented and photographed contractor activities.

000290

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 3 August 97

- Obtained fill soils samples no. OSDF-11, OSDF-12, OSDF-13 and OSDF-14.
- Performed field nuclear-density tests.
- Monitored undercutting, backfilling and compacting of north berm.
- Monitored deployment of geotextile/rip-rap, 48" CMP at sedimentation basin.
- Monitored receipt of HDPE pipe and appurtenances.
- Documented 140 grade stakes, cell one floor.
- Monitored deployment and pin placement of 7oz. geotextile and no. 304 aggregate, sedimentation basin berms.
- Obtained sample of no. 304 aggregate.
- Performed moisture, moisture-density relationships, grain-size distribution and Atterberg limits tests on fill (structural) soils and proposed clay liner and hydraulic conductivity, hydrometers and specific gravity on proposed clay liner.

Refer attached summary logs for laboratory test results.

GeoSyntec Personnel Schedule:

- K. Cargill, Construction Support Team Leader, on site 28 through 30 July 1997.
- P. O'Duroh, Engineering Technician, departed 2 August 1997. Return schedule not confirmed.
- R. Livingston, Engineering Technician, departed 1 August 1997. Scheduled to return 11 August 1997.

000291

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 3 August 97

- N. Meekins, Senior Soils Technician, returned 3 August 1997.
- J. F. McMichen, Q.C.S.M, scheduled to depart 8 August 1997 and return 17 August 1997.

HEALTH AND SAFETY

- K. Wills completed baseline medical examination.
- J. Williams completed baseline medical examination.
- P. O'Duroh completed exit medical and InVivo monitoring.
- Refer to weekly health and safety inspections and reports for specific details.

000292

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 10 August 1997

GENERAL

This report covers the period from 04 and 10 August 1997.

Site conditions remained dry with trace rainfall recorded. On-site daytime temperatures ranged between approximately 46 and 91 degrees Fahrenheit. Contractor(s) worked Monday through Saturday.

GeoSyntec Consultants (GeoSyntec) is providing construction quality control (CQC) during construction of a leachate conveyance system (LCS) and on-site disposal facility (OSDF). As part of CQC activities an on-site geotechnical laboratory has been set-up. On 6 August 1997, a tent was erected adjacent to laboratory trailers. The tent will be used to protect soil samples while being prepared for testing on-site. Summary of activities are discussed below.

LEACHATE CONVEYANCE SYSTEM

The contractor, Village Building Services, Inc. (VBS) assisted by Wise Construction Company (WISE) continued to perform the following activities during the week:

LCS Installation

- Excavated LCS trench at various locations, including at AWWT west fence; between Stations 33+0 and 34+35 (north of lift station); at Station 4+25; and at RIMIA entrance, reference drawing G-00266. Previously surveyed soil manually removed from lift station area; reference magnetometer survey. Dewatered LCS trenches as necessary.

- Performed butt-fusion welding associated with the 4/8 and 6/10-in. (inner/outer) diameter dual containment polyethylene (PE) LCS pipe.

- Installed 4/8-in. and 6/10-in. diameter PE dual containment pipes.

- Placed and compacted pipe embedment fill and backfill, reference drawings G-00261, G-00262 and G-00266, between Stations 2+00 and 3+75; CO #7.

000293

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 10 August 1997

- and Station 3+50; Stations 4+50 and 7+00; by 90 degree bend; by branch-off at Station 4+25; and AWWT fence. Manually removed rock > 3-in. diameter from backfill soils and deployed caution tape in LCS trench, at various locations.

- Hydrostatically tested portions of LCS, including Manhole LDS-02 and 03.

LCS Materials

- Loaded and transported off-site damaged sections with the exception of five pieces of 10-in. diameter pipe, including G-02, 03 (being used for test welds), 07, 77, and 91. Pipe is being stored at VBS Phase stockpile area. It is noted that an approved pipe, G-25, was also removed from site.

LCS ACTION/INFORMATION

- B. L. Payne (BLP), registered land surveyor, and contractors are performing survey associated with LCS installation.

- Approximately 8,941 tons of pipe embedment fill has been delivered to site.

- Leachate Conveyance System (LCS) weekly meeting was held but not attended by CQC personnel.

- Oustanding approval associated with the hydrostatic testing of the in-position LCS pipe is in the process of being finalized.

GeoSyntec Consultants provided the following services.

- Monitored, documented and photographed contractor activities.

- Obtained soil samples, including pipe embedment fill, and performed geotechnical tests.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 10 August 1997

- Monitored placement and compaction of backfill soils and performed field nuclear-density tests.

- Monitored pipe welding including trial welds and production welding; handling of pipe, identifying damaged portions of pipe and where applicable marking damaged locations; and hydrostatic testing of pipe and manholes.

PHASE ONE

The contractor, Petro Environmental Technologies (PET), performed the following activities during the week:

Stormwater Management System

- Completed construction of sedimentation basin, including hydroseeding berms adjacent to basin.

- Continued construction of north drainage channel, including placement of rip rap, reference detail 5, drawing G-20A.

Soils: Structural Fill / Subgrade

- Placed and compacted fill along western cell berm. Excavated trench for LCS and horizontal monitoring wells.

- Continued excavation of OSDF Cell 2 down to subgrade elevations; material used in Cell 1.

- Continued proofrolling portions of OSDF Cell 1 subgrade.

- Undercut, backfilled and compacted various saturated areas, including northeast section of OSDF Cell 1 floor and along northern perimeter berm.

- Rough and fine graded portions of the OSDF Cell 1.

000295

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 10 August 1997

- Manually removed rock > 5-in. in diameter.

Soils: Clay Liner

- Initiated placement of lift 1 in north west corner of Cell 1 on 5 August 1997. Use material from stockpile Nos. 1 and 5, placed initially in a 8-in. thick; a second 5-in. thick lift added for a total of a 12-in. thick loose lift; subsequent lifts (i.e., lifts 2, 3, etc.) are to be 8-in. thick.

- Manually removed rock > 2-in. in diameter. A mechanical soil screen was delivered on 6 August 1997. Started processing clay stockpiles mechanically.

Geosynthetics

- Received 66 rolls of 80-mil thick HDPE textured geomembrane and manufacturers certificates.

Miscellaneous

- Continued excavation of access road west of north access road and south of OSDF Cell 1; material transported to impacted materials stockpile.

OSDF ACTION/INFORMATION

- Hirsh and Associates, registered land surveyors, and contractor are performing survey.

- Pipe certification received, damaged pipe removed from site with the exception of three sections of pipe which were re-located for use as a trial weld material.

000296

- Observed rutting during Cell 1 subgrade proofrolling and pumping of water through the subgrade. Areas were undercut and repaired, as necessary, prior to placement of first lift of clay. Different clay placement techniques were being considered to achieve the required acceptable permeability zone (APZ).

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FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 10 August 1997

- Approximately 70,000 cubic yards of proposed clay liner has been stockpiled to date and approximately 5, 000 cubic yards placed in Cell 1.

GeoSyntec Consultants performed the following activities in support of construction:

- Monitored, documented and photographed contractor activities.
- Attended OSDF Phase One meetings held 5 and 6 August 1997 with Fluor Daniel Fernald (FDF) and PET in attendance.
- Obtained soil samples for on and off-site testing. Performed moisture, moisture-density relationships, grain-size distribution and Atterberg limits tests on fill and clay liner material (i.e., ASTM D 698, 422, and 4318) and hydraulic conductivity, hydrometers and specific gravity on clay liner material (i.e., ASTM D 5084, 422, and 854). Reviewed soil test results. Reference attached laboratory summary logs for further details.
- Performed in-place moisture/density tests on placed soils using nuclear gauge (i.e., ASTM D 2922 and 3017) with periodic checks with laboratory moisture content (i.e., ASTM D 2216 and 4643), sand cone (i.e., ASTM D 1556) and drive tube (i.e., ASTM D 2937) methods. The latter method was unsuccessful due to the presence of rocks.
- Monitored undercutting, backfilling and compacting of fill material within Cell 1.
- Monitored placement of stormwater rip rap.
- Obtained sample of No. 57 stone from Martin Marietta source for testing off-site.
- Reviewed survey data provided by PET. Reviewed future work using Global Positioning System (GPS). Surveyed site monuments, stock piles and identified miscellaneous areas using GPS.

000652

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 10 August 1997

- Monitored delivery of geomembrane rolls; obtained and forwarded 16 geomembrane conformance samples for off-site testing.

GeoSyntec Personnel Schedule:

- R. Bonaparte, Project Manger on site 6 August 1997.
- D. Pass, Staff Engineer/GPS survey coordinator on site 4 through 8 August 1997.
- B. Nagel, Senior Geosynthetics Technician, mobilized 10 August 1997.
- R. Livingston, Engineering Technician, returned 10 August 1997.
- J. F. McMichen, Q.C.S.M, off site 8 August 1997 and expected to return 17 August 1997.

HEALTH AND SAFETY

- D. Pass completed GET training.
- R. Livingston and S. Quammen obtained training verification cards (e.g., RAD II, GET, and General Site Worker).
- Refer to weekly health and safety inspections and reports for specific health and safety details.

000298

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 17 August 1997

GENERAL

This report covers the period from 11 and 17 August 1997.

Measured rain at the start of a day was 1.1; 0.3; 0.6; and 0.3-in. starting on Wednesday, 13 August through 16 August 1997, with heavy rain, approximately 2.6-in, on Sunday 17 August 1997. On-site daytime temperatures ranged between approximately 64 and 92 degrees Fahrenheit. Contractor(s) worked Monday through Saturday.

GeoSyntec Consultants (GeoSyntec) is providing construction quality control (CQC) on behalf of Fluor Daniel Fernald (FDF) during construction of a leachate conveyance system (LCS) and on-site disposal facility (OSDF). Summary of activities are discussed below.

LEACHATE CONVEYANCE SYSTEM

The contractor, Village Building Services, Inc. (VBS) assisted by Wise Construction Company (WISE) continued to perform the following activities during the week:

LCS Installation

- Excavated LCS trench at various locations, including at Station 30+75 to 32+00; manholes LCS and LDS -01, as well for the permanent lift station. Attempted to remove stormwater and saturated material from low areas.
- Performed butt-fusion welding associated with the 4/8 and 6/10-in. (inner/outer) diameter dual containment polyethylene LCS pipe.
- Repaired failed gasket in K-65 North area on 12-in. diameter line, south of cleanout No. 10.
- Installed 4/8-in. and 6/10-in. diameter PE dual containment pipes. Placed and compacted pipe embedment fill and backfill, reference drawings G-00261, G-00262 and G-00266, between Stations 4+00 and 7+00; 33+20, 34+50 and 33+50, and east of REMIA area's access road. Manually removed rock > 3-in.

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FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 17 August 1997

- diameter from backfill soils; placed bentonite plugs at Station 34+60; and deployed caution tape in LCS trench, at various locations.

- Attempted hydrostatic tests to portions of LCS, including between Station 4+00 and 7+00 (G-00266) and manhole LCS-02.

LCS ACTION/INFORMATION

- B. L. Payne (BLP), registered land surveyor, and contractors are performing survey associated with LCS installation.

- Approximately 8,941 tons of pipe embedment fill has been delivered to site.

- Leachate Conveyance System (LCS) weekly meeting was held on 14 August 1997.

- Outstanding approval associated with the hydrostatic testing of the in-position LCS pipe is in the process of being finalized.

GeoSyntec Consultants provided the following services.

- Monitored, documented and photographed contractor activities. Field personnel on behalf of FDF were requested to shut down a welding crew on 14 August 1997 due to inadequate equipment. On 16 August 1997 improper backfilling sequence was noted. Contractor had to re-work lift.

- Obtained pipe trial weld samples at FDF's request.

- Monitored placement and compaction of backfill soils and performed field nuclear-density tests and obtain soil samples for geotechnical testing, including sieve (i.e., ASTM C-136).

000300

- Monitored pipe welding including trial welds and production welding; it was noted that attempts were made to perform butt fusion welds in the rain which

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FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 17 August 1997

- Monitored pipe welding including trial welds and production welding; it was noted that attempts were made to perform butt fusion welds in the rain which is not in accordance with Specification Section 02605, Part 3.06.B.3. Welding activities were stopped. Other activities included monitoring handling of pipe, identifying damaged portions of pipe and where applicable marking damaged locations; and hydrostatic testing of pipe and manholes.

PHASE ONE-OSDF

The contractor, Petro Environmental Technologies (PET), performed the following activities during the week:

Stormwater Management System

- Continued placement of rip rap along diversion swale, reference detail 5, drawing G-20A.

Soils: Structural Fill / Subgrade

- Placed and compacted fill along western cell berm and in undercut areas in Cell 1 area.
- Continued excavation of OSDF Cell 2 down to subgrade elevations; material used in Cell 1. Continued the fine grading of the southern half of Cell 1.
- Manually removed rock > 5-in. in diameter and compacted in 8-in. thick (loose) lifts.

Soils: Clay Liner

- Continued clay placement of the first lift after scarifying and moisture conditioning the subgrade. Survey being performed in front of placement

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 17 August 1997

- operation. Processed and unprocessed clay material used; material obtained from stockpile Nos. 1 and 5.
- Concentrate on working clay within a test area, approximately 50 by 100-ft.
- Manually removed rock > 2-in. in diameter periodically. Continue processing clay stockpiles mechanically; spray bars were installed on screen conveyors.

Geosynthetics

- Rolls received to date include: (i) 77 rolls from thirteen lots of 80-mil thick HDPE textured geomembrane; (ii)12 rolls from one lot of 16 oz/syd geotextile; (iii) 57 rolls from one lot of 10 oz/syd geotextile; and (iv)12 rolls from one lot of 7 oz/syd geotextile.

Miscellaneous

- Continued excavation of access road west of north access road and south of OSDF Cell 1; material transported to impacted materials stockpile.

OSDF ACTION/INFORMATION

- Hirsh and Associates, registered land surveyors, and contractor are performing survey.
- PET attempted different clay placement techniques, however were unsuccessful in following required steps (i.e., reference Specification Section 02225, Parts 2.02.E.2 and 3.01.C and Submittal No. 011 R3 Part 5.2). A proposed work plan was agreed to be followed to assist PET with the construction of a clay test area.

GeoSyntec Consultants performed the following activities in support of construction:

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 17 August 1997

- Monitored, documented and photographed contractor activities.
- Attended OSDF Phase One meetings held 12, 14, and 15 August 1997 with FDF and PET, with the exception of 15 August 1997 meeting, in attendance.
- Obtained soil samples for on and off-site testing. Samples, including No. 57 stone at source and at FDF's request, thin-walled tube samples from clay liner. Performed moisture, moisture-density relationships, grain-size distribution tests on fill and clay liner material (i.e., ASTM D 698, 422, 2216 and 4643) and hydraulic conductivity on clay liner material (i.e., ASTM D 5084). Reviewed soil test results. Reference attached laboratory summary logs for further details.
- Monitored proofrolling, undercutting, backfilling and compacting of fill material and placing of clay material within Cell 1, including construction of a test area. The clay placement procedure followed for the first lift included: (i) till first lift of clay a depth of approximately 10-in. thick; (ii) moisture condition the lift (however it was noted that water spray bar on the RACO 250 stabilizer was not operational); (iii) re-till and (iv) compact lift using six passes of a pad foot compactor. Rocks were consistently observed during process. Attempts were made to remove the rocks. The lift was sealed at the end of the day. The field moisture/density and laboratory moisture content tests suggested that the moisture was not evenly distributed through the test area.
- Performed in-place moisture/density tests on placed soils using nuclear gauge (i.e., ASTM D 2922 and 3017) with checks with laboratory moisture content (i.e., ASTM D 2216 and 4643). The latter were used to correct the in-place moisture/density test as well as for APZ plot.
- Monitored placement of stormwater rip rap.
- Review of survey, geotechnical test results, and geosynthetic manufacturer's certificates. It is noted that a discrepancy in several construction survey points need to be resolved.

000303

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 17 August 1997

- Monitored delivery of GCL and geotextile rolls; obtained and forwarded two geotextile conformance samples for off-site testing. Reviewed conformance test results for geomembrane and geotextiles.

GeoSyntec Personnel Schedule:

- R. Bonaparte, Project Manger on site at FDF's request, 6 August 1997.
- K. Cargill, Team Leader, on site at FDF's request, 11 August 1997.
- J.F. Beech, on site at FDF's request, 12- 14 August 1997
- D. Bonnett, QC coordinator on site 13-14 August 1997.
- J. F. McMichen, Q.C.S.M, returned 17 August 1997.

HEALTH AND SAFETY

- Bill Nagel, Senior Geosynthetics Technician, conducted training , including: GET, and RAD II (respirator training and in vivo monitoring).
- Perform compliance activities on recently erected laboratory soils tent.
- Refer to weekly health and safety inspections and reports for specific health and safety details.

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SHEET NO. ____ OF ____

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 31 August 1997

The following covers the periods from 18 August through 24 August and 25 August through 31 August 1997.

Site conditions during the week of 18 through 24 August 1997 were wet with extensive ponding due to previous rains. An additional 0.5 inches of rainfall was recorded. Drying conditions prevailed during the period of 25 through 31 August 1997. Temperatures ranged from forty-seven to eighty-nine degrees Fahrenheit with periods of very dense morning fog.

LEACHATE CONVEYANCE SYSTEM

The contractor, Village Building Services, Inc. (VBS), assisted by Wise Construction Company (WISE) performed the following.

- Dewatered, extensively.
- Fusion welded 4/8" and 6/10" dual containment pipe.
- Performed undercutting 80' west of CO No. 10 exposing 8" HDPE pipe leak. Repair and backfilling.
- Hydrostatically tested MH No. 2, 8" HDPE pipe Sta. 7+00 (drawing G-00266) to 6' south of MH No. 11 (drawing G-00262).
- Powell Gravel and Topsoil delivered pipe embedment fill (PEF).
- Deployed pipe embedment fill and manhole embedment fill, (PEF & MEF), various locations.
- Deployed and compacted backfill soils, various locations.
- Removed and re-installed lift station and manhole embedment fill, backfilled and compacted.

000305

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 31 August 1997

- Flushed 4" HDPE pipe, from CO No. 7 to approximate station No. 7+00 and cleanout manhole No. 11.
- Deployed warning tape, various locations.
- Undercut soft saturated soils, various areas, backfilled and re-compacted.
- Excavated LCS trench and installed dual containment pipe, various locations.
- Installed bentonite plugs.

B.L. Payne (BLP), registered land surveyor, provided survey documentation.

LEACHATE CONVEYANCE SYSTEM

Action/Information

Hydrostatic testing, 8" HDPE pipe observed by M. Godber (FDF) on 17 August 1997 (Sunday). Refer GeoSyntec memo dated 25 August 1997.

Lift station floated from its position - 2.6 inches rainfall 17 August 1997 - area not pumped during heavy rains, refer Geosyntec memo dated 20 August 1997. Area pumped dry, lift station removed, embedment fill removed, clean out of lift station. Annular space to be flushed during hydrostatic testing as per VBS confirmed by FDF. Area re-surveyed, lift station reinstalled, backfilled with additional embedment fill and structure filled with water. Tie-in to LCS will require undercutting of backfill material.

LCS non-conformance, pressure testing of HDPE pipe following backfilling with soils. Status, awaiting FDF response.

000306

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 31 August 1997

HDPE pipe 8" approximately 80' west of CO No. 10, leak observed at fusion weld. Repair, grinding fusion weld, extrusion weld at pipe joint and extrusion weld sleeve at joint.

MH No. 11, submerged during rains.

J. F. McMichen, site CQA, attended leachate conveyance system (LCS) weekly meeting conducted on 19 August 1997. Following are some items discussed. Refer Fluor Daniel Fernald (FDF) meeting minutes for details.

- Safety, use of vehicle wipers
- TQM, be on time
- Balance, attending games

- Lift station, clean out any siltation and flush.
- Divert surface water run-on.
- Dewater during rains.
- Crane to remove and reinstall lift station.
- Repair of 8" HDPE pipe west of CO No. 10 this date.
- Hydrostatic test, MH No. 11 to No. 12 and backfill complete by 29 August 1997.
- Complete installation of 6/10" HDPE pipe, 1,000 linear feet, lift station north within two weeks.

000307

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 31 August 1997

- Concrete base MH No. 1, drawing M-5, confirm is forming required. Note: Confirmed 20 August 1997 - not required if dimensions are maintained as per drawings.
- Connect west side MH No. 5 and hydrostatically test.
- VBS confirm compatibility of extrusion welding rod to HDPE pipe.
- Lift station panel status C, delivery date not confirmed.
- Hydrostatically test LCS pipe MH No. 4 westward.
- LCS line, thrust blocks not required.
- Area No. 4, MH No. 5 eastward, initiate excavation.

GeoSyntec Consultants provided the following services.

- Monitored, documented and photographed contractor activities.
- Monitored trial and production fusion welding, 6/10" and 4/8" HDPE dual containment pipes.
- Monitored undercutting, 80' west of CO No. 10, exposing 8" HDPE pipe leak, repair and backfilling.
- Monitored hydrostatic tests, manholes and HDPE piping.
- Performed field nuclear density tests on backfill soils.
- Monitored placement of pipe and manhole embedment fill, PEF and MEF.

000308

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 31 August 1997

Refer attached laboratory test summary logs for test results.

PHASE ONE

The contractor, Petro Environmental Technologies (PET) performed the following.

- GCL and geotextile delivered to site.
- Dewatered, extensively.
- Excavated clay liner stockpiles No's 4 and 6 to facilitate GeoSyntec in resampling.
- Excavated cell No. 2, placed in stockpile designated as No. 7 south of stockpile No. 3.
- Undercut soft unstable soils and backfilled portions of cell No. 1 subgrade.
- Deployed non-screened and screened clay liner soils, cell No. 1 floor.
- Screened clay liner soils.
- Manually removed rock from clay liner.
- Scarified soils to facilitate drying.
- Undercut structural fill west berm cell No. 2; initiate reconstruction.

000309

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 31 August 1997

Hirsch and Associates, registered land surveyor, provided survey documentation.

PHASE ONE

Action/Information

Non-conformance 1702-05, placement of structural fill cell No. 2 containing rock > 5". Structural fill removed, rock removed. Status, awaiting FDF sign-off.

Non-conformance 1702-04, rock > 2" in clay liner soil, cell No. 1 floor, rock removed. Status, awaiting FDF sign-off.

Non-conformance 1702-06, placement of clay liner soils above soils containing rock > 2", corrected. Status, awaiting FDF sign-off.

Clay liner stockpiles numbers 4 and 6 were resampled. Previous sample number LP-10 requires resampling. Sample to be obtained as stockpile elevation decreases.

Proper handling and storage of geosynthetic materials should be maintained at all times.

Some rolls of GCL were observed to be damaged during off loading, marked for future observation.

Off loading of GCL delayed due to insufficient equipment.

Heavy rains of 17 August 1997 exposed visible rock > 2" in cell No. 1 north berm.

Cell No. 1 north slope, subgrade survey does not meet specification requirements at several locations as of 29 August 1997.

Geosynthetics deployment scheduled to begin 15 September 1997.

000310

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 31 August 1997

As per Petro work plan, clay liner compacted lift thicknesses are to be verified via survey.

Deployment of clay liner lifts on berm slopes will require tie-in to respective lifts on cell floor.

PHASE ONE

Phase one contractor weekly meeting of 18 August 1997 attended by N. Meekins, Senior soils technician. Refer Fluor Daniel Fernald (FDF) minutes for details.

J. F. McMichen, QCSM, attended phase one contractor weekly meeting conducted on 25 August 1997. Agenda, attendance record and minutes by Fluor Daniel Fernald (FDF). Refer FDF meeting minutes for details. Following are some items discussed.

- Demolition of north access road, pending.
- Screening of rock.
- Horizontal monitoring well installation scheduled for the week of 1 September 1997.
- Petro will not be working 31 August and 1 September 1997, 30 August 1997 not confirmed.
- Ninteen trucks containing geosynthetics to arrive the week of 25 august 1997, completing delivery.
- Contractor four week schedule not available.

000311

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 31 August 1997

- Tie-in of clay liner lifts, berm slopes, to respective cell floor lifts a minimum of 10 feet as per the contractor.
- Cones (safety) deployed by GeoSytec to be relocated as required by GeoSyntec personnel.
- Moisture conditioning of subgrade soils shall be as clay liner soils.
- Verification of clay liner compacted lifts is noted in Petro's work plan.
- Removal of rock > 2".
- Non-conformances
- Subgrade tolerance ± .1 (tenth of a foot)
- Gravity inlet structures, some surface damage, use of non-shrink grout.
- Subgrade survey, cell No. 1 additional data required.

K. Cargill and J. F. McMichen attended non-scheduled meetings on 26 August 1997. Present were representatives of Fluor Daniel Fernald and Petro Environmental Technologies. The primary topic centered on all aspects of clay liner soils inclusive of testing, site operations, processing, deployment, compacting et al. Meeting notes by FDF and GeoSyntec. FDF forwarded preliminary notes to GeoSyntec. Final meeting minutes to be generated by K. Cargill of GeoSyntec.

000312

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 31 August 1997

PHASE ONE

GeoSyntec monitored, documented and photographed contractor activities.

- Obtained samples of geotextile 10 oz. and 7 oz. and GCL and inventoried rolls.
- Obtained clay liner samples from stockpiles numbers four and six. Additional laboratory analysis conducted on and off site. Refer attached laboratory summary logs for details.
- Performed carbonate content and hydraulic conductivity on No. 57 coarse aggregate.
- Reviewed subrade survey data provided by Hirsch and Associates as transmitted by PET.
- GCL, geomembrane and clay liner samples obtained for interface shear testing, in progress.
- Performed field nuclear density and sand cone tests on clay liner soils, cell No. 1.
- Performed field nuclear density tests on structural fill soils, cell No. 1 and cell No. 2.
- Obtained proposed clay liner soils from stockpile No. 7. Laboratory analysis in progress on and off site to determine atterberg limits, grain-size distribution, moisture-density relationshiups and hydraulic conductivity.

000313

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 31 August 1997

- Manually excavated in place soils to determine in place rock content at density test locations.

Refer attached laboratory test summary logs for test results.

GEOSYNTEC PERSONNEL SCHEDULE

- D. Bodine, Resident Engineer, off site week of 18 August 1997 returned week of 25 August 1997.
- D. Bonnett, interim Resident Engineer, on site 18 through 22 August and 27 and 28 August 1997.
- J. Williams, Engineering Technician, demobilized 23 August 1997.
- K. Cargill, Team Leader, on site 20 and 21 August and 26 and 27 August 1995.
- B. Nichols, Engineering Technician, scheduled to mobilize 1 September 1997.

HEATH AND SAFETY

- FDF inspects fire extinguishers monthly and proposes to provide copies of the inspections.
- GeoSyntec personnel attended weekly safety meeting. Refer separate report for details.

000314

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 31 August 1997

- GeoSyntec employees have been advised that they are not to be "on the ground" in areas where heavy construction equipment is in operation during periods of dense fog.

000345

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 14 September 1997

The following covers the periods from 1 through 7 and 8 through 14 September 1997.

Site conditions varied from wet to drying with 0.6 inches and 0.7 inches of rainfall recorded during the above periods. Temperatures ranged from forty-two to ninety-three and fifty to eighty-four degrees Fahrenheit respectively. Periods of very dense fog occurred during the morning hours.

The contractors, Village Building Services, Inc. (VBS), Wise Construction Company (WISE) and Diaz Construction Company (DIAZ) performed the following.

- Dewatered where applicable.
- Excavated trench's, refer drawings G-00059, 00058 and 00254.
- Received additional HDPE pipe, joints and covers.
- Received pipe embedment fill (PEF), supplied by Powell Gravel and Topsoil.
- Deployed PEF, refer drawings G-00059, 00058, 00061 and 00254.
- Deployed warning tape, various locations.
- Fusion welded 4/8" and 6/10" HDPE dual containment pipe.
- Extrusion and electrofusion welded sleeves and couplings, various locations.
- Deployed and compacted backfill soils, refer drawings G-00059, 00254, 00258, 00262 and 00261.
- Manually excavated PEF and installed Bentonite plugs, various locations.
- Hydrostatically tested 8" HDPE pipe, MH No. 11 to west of MH No. 12, refer drawing G-00262; 4" HDPE pipe, north of MH No. 5 to south of MH No. 11, refer drawing G-00261.

000316

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 14 September 1997

- Installed 4/8" HDPE pipe, refer drawing G-00254 and G-00261.
- Undercut soft unstable soils, trench bottom, backfilled and compacted, various locations.
- Excavated and installed LCS/LDS manholes numbers 1 and 2.
- Concrete placement, LCS/LDS manholes numbers 1 and 2, antifloatation anchors, refer drawing sheet no. S-1A.
- Received backfill soils, supplied by Welch Sand and Gravel.
- Deployed and compacted No. 304 aggregate, refer drawings G-00254 and 00261.

ACTION/INFORMATION

B. L. Payne (BLP), Registered Land Surveyor, and contractors are performing survey associated with LCS installation.

- Non-Conformance 1700-004, installation of temporary cleanout at approximate station 28+00 as indicated on drawing G-00059. Status open.
- Item No. 3, refer weekly report dated 31 August 1997, status closed.
- VBS conformation of extrusion welding rod compatibility with HDPE pipe, status closed. Refer submittal 77 R 10.
- VBS conducted welding operations on 06 September 1997 late p.m. hours by use of construction equipment and light truck lighting. Monitoring of candle power not observed, refer subcontract No. 589 general site requirements section 3.6.

000317

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GC0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 14 September 1997

- Wise conducted trench construction activities on 06 September 1997 late p.m. hours by use of construction equipment lighting. Monitoring of candle power not observed, refer subcontract No. 589 general site requirements section 3.6.

- Non-Conformance 1700-003, PEF compaction, status open.

- Continuing issues; welding during precipitation, refer specification 02605 part 3.06 B.2. Stripping, refer specification 02110 part 1.03 C.

D. Bodine, Resident Engineer, attended contractor weekly meeting conducted on 04 September 1997. Refer Fluor Daniel Fernald (FDF) meeting minutes for details.

Geosyntec Consultants provided the following services.

- Monitored, documented and photographed contractor activities.

- Performed field nuclear density tests on backfill soils and pipe embedment fill (PEF).

- Monitored hydrostatic testing.

- Obtained backfill soils samples. On site laboratory analysis in progress.

- Obtained pipe embedment fill (PEF) sample. On site laboratory analysis in progress.

- Monitored butt fusion trial and production welding.

- Monitored extrusion and electrofusion welding.

- Monitored installation of Bentonite plugs.

- Monitored excavations, backfilling and compaction of trench's, various locations.

000318

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GC0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 14 September 1997

- Cast concrete cylinders and performed related concrete tests on LCS/LDS manholes No. 1 and 2 antifloatation anchors. Compression tests to be conducted by FMSM of Cincinnati, Ohio.
- Performed field nuclear density tests on No. 304 aggregate.
- Observed and documented HDPE and appurtenances.
- Monitored undercutting and backfilling trench bottom.

PHASE ONE

The contractor, Petro Environmental Technologies (PET) performed the following.

- Screened clay liner soils. Three screening operations.
- Deployed clay liner soils, cell No. 1.
- Manually removed rock from in place clay liner soils.
- Proofrolled subgrade soils, cell No. 1, lane designated as No. 4.
- Undercut soft unstable subgrade soils and backfilled with clay liner soils from stockpile No. 4, cell No. 1, lane designated as No. 4.
- Placed structural fill soils, cell No. 2 west berm.
- GCL delivered to site.
- Provided survey data for a portion of clay liner lift No. 4.
- Initiated welding of 6/10" HDPE dual containment pipe.

000319

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 14 September 1997

- Undercut clay liner soils placed on north berm slope face, cell No. 1, due to extensive rock > 2". Soils placed prior to screening operations.
- Deployed rip-rap.
- Performed dust control as required.
- Resumed excavation of proposed clay liner soils from cell No. 2, stockpiled in designated stockpile No. 8.

PHASE ONE

Attended phase one contractor weekly meeting conducted on 08 September 1997. Agenda, attendance record and minutes by Fluor Daniel Fernald (FDF), refer FDF meeting minutes for details. Following are some items discussed.

- Access to Phase One via "Remia". Remia gate closes at 1830 hours, departure via geosynthetics lay down area.
- Follow procedures.
- RDA drill, evacuate to designated area.
- No change orders.
- Clay liner deployment scheduled for completion 17 September 1997.
- Groundsafe to mobilize 15 September 1997, complete secondary geosynthetics deployment 25 or 26 September 1997.

000320

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LRW, WAZ, DGB, BAE, HEM, KWC, DKP

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GC0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 14 September 1997

- Granular drainage material (No. 78) approximately 1,000 tons scheduled for deployment daily. PET to attempt locating additional trucks.
- HDPE pipe certification has not been submitted.
- Butt fusion, 6/10" HDPE pipe complete.
- Construction one month in arrears.

Attended "preparatory phase meeting" conducted on 10 September 1997. Agenda, attendance record and minutes by Petro Environmental Technologies (PET). Refer PET minutes dated 09 September 1997. Additional comments noted below.

- Electrofusion welder not certified.
- Survey of gravity line pipe to be at joints.

ACTION/INFORMATION

- Hirsch and Associates, Registered Land Surveyors, provided survey documentation
- Geomembrane liner boxes, as per PET to be fabricated by Plastic Werks of Georgia. Refer Resident Engineer weekly report for submittal status.
- Due to quantity of GCL lot no's resulting in a total of 21 conformance samples PET has been advised that additional geomembrane will be required in conducting interface shear tests. PET advised that samples cannot be obtained prior to arrival of Groundsafe. GeoSyntec has premarked five rolls of geomembrane from five lots for sampling. The rolls are located in the uppermost tier of the geomembrane stockpile.
- Excavation of cell No. 2 resumed 11 September 1997 - PET had advised GeoSyntec on 08 September of additional clay liner quantity requirements - 5,000 cubic yards.

000021

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LRW, WAZ, DGB, BAE, HEM, KWC, DKP

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 14 September 1997

- GCL rolls exhibiting visual damage have been noted by Geosyntec. An isolated area of hydration has also been noted and PET representatives informed.
- Tie-In clay liner lifts slope face to corresponding lifts on the cell floor required.
- GCL deliveries scheduled for 8, 9 and 10 September 1997.
- Items one, two and three of weekly report dated 31 August 1997, status closed.
- A third screening operation was initiated.
- Undercut clay liner lift No. 1 adjacent to east berm toe of slope on 02 September 1997. Subgrade elevation had not been approved. Subgrade subsequently surveyed, approved and clay liner deployed.
- In performing a field nuclear density test in designated lane 6 lift No. 2, separation from lift No. 1 was observed, i.e. lifts not bonded. Further investigation by the contractor and GeoSyntec personnel revealed that the entire lane exhibited separation. Conclusion, in the process of scarifying lift No. 2 by the Raco 250 soil stabilizer, the underlying lift had not been penetrated. The contractor rescarified the entire lane, verifying intrusion into the underlying lift, i.e. lift No. 1. The clay liner was then recompacted and retested.
- Combining stockpile materials, resulting in use of conservative proctor value and or additional check points.

PHASE ONE - MATERIALS STATUS

Materials status as per Petro Environmental Technologies;

Granular drainage material (No. 57)
3,000 tons total; 25 tons on site

Granular drainage material (No. 78)
18,000 tons total; approximately 15,000 tons presently stockpiled at Highlands Quarry.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 14 September 1997

Pipe Embedment Fill (PEF)
100 tons total; to be ordered

MATERIALS STATUS
GEOSYNTHETICS ON SITE

	Quantity (Rolls)	Square Feet	Quantity Conformance Samples
GCL	323	744, 838	21
Geomembrane 80 mil.	79	788, 835	16
Geotextile 7 oz.	16	187, 200	3
Geotextile 10 oz.	95	812, 250	9
Geotextile 16 oz.	12	64, 800	1

PHASE ONE

GeoSyntec Consultants provided the following services.

- Monitored, documented and photographed contractor activities.

000323

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GC0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 14 September 1997

- Performed field nuclear density and sand cone density tests on clay liner soils, cell No. 1.
- Performed grain-size distribution, moisture content, Atterberg limits, moisture-density relationships and check points on clay liner soils.
- Obtained clay liner soils sample from stockpiles designated as No's 7 and 8. Soils analysis in progress on site and at GeoSyntec's GEL laboratory, Alpharetta, Georgia for soils obtained from stockpile No. 8. Testing completed on samples from stockpile No. 7.
- Obtained additional clay liner samples designated as LP-10.1 and LP-10.2 from stockpile designated as No. 4. Performed grain-size distribution analysis. GeoSyntec GEL facility completed permeability and related testing on additional "re-sampled" clay liner soils.
- Monitored, inventoried and sampled GCL. Testing in progress at GeoSyntec's SGI and GEL laboratories.
- Obtained pipe embedment fill (PEF) sample, performed grain-size distribution test.
- Obtained granular drainage material (No. 57 aggregate) samples. Grain-size distribution tests in progress on site. Hydraulic conductivity and carbonate testing in progress at GeoSyntec's GEL facility.

GEOSYNTEC PERSONNEL SCHEDULE

- B. Nichols, Engineering Technician, mobilized 1 September 1997. Assigned to the on site laboratory.
- S. Quammen, Engineering Technician, departed 7 September and returned 14 September 1997.

000344

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 14 September 1997

- K. Cargill, Team Leader, on site 03 and 12 September 1997.
- D. VanderLinde, Project Engineer, on site 12 September 1997.
- N. Meekins, Senior Soils Technician, departed 12 September 1997.
- J. Lepkowski, Engineering Technician, mobilized 14 September 1997. Assigned to geosynthetics.
- M. Ruland and S. Hall, Health and Safety, scheduled on site 17 and 18 September 1997.

HEALTH AND SAFETY

- Item one of weekly report dated 31 August 1997 revised to include, "if requested by Geosyntec."
- As of 2050 hours on 06 September 1997 lighting had not been provided for work being performed in the area as depicted on drawings G-00254 and G-00261 (west parking lot), refer subcontract number FSC 589 general site requirements section 3.6. Due to the above conditions at trench excavation, GeoSyntec representative departed the area.
- FDF Industrial Hygiene issued "new" application of carbon monoxide limits for trenching operations.
- GeoSyntec personnel continue to actively participate in advising FDF and contractor personnel of possible safety hazards. Most recently notable, attempts to fusion weld in a semi plastic enclosure and excavation of a six foot plus elevation differential adjacent to cell No. 2 access to Haul Rd. interface.

000325

Laboratory summary report data to be updated in a future weekly report.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 21 September 1997

The following covers the period from 15 through 21 September 1997.

Site conditions were generally dry with only a trace of rainfall recorded during the above period. Temperatures ranged from fifty-seven to eighty-six degrees Fahrenheit. Periods of dense fog occurred during the morning hours.

The contractors, Village Building Services, Inc. (VBS), Wise Construction Company (WISE) and Diaz Construction Company (DIAZ) performed the following.

- Dewatered where applicable.
- Excavated trench's, refer drawings G-00059, 00058, G-00057 and 00254.
- Received pipe embedment fill (PEF), supplied by Powell Gravel and Topsoil.
- Deployed PEF, refer drawings G-00059, G-00057 and 00254.
- Deployed warning tape, various locations.
- Fusion welded 4/8" and 6/10" HDPE dual containment pipe.
- Extrusion and electrofusion welded sleeves and couplings, various locations.
- Deployed and compacted backfill soils, refer drawings G-00059 and 00254.
- Manually excavated PEF and installed Bentonite plugs, various locations.
- Hydrostatically tested 8", 4" and 10" HDPE pipe, and MH No. 3. Refer pressure test logs for details.
- Installed 6/10" HDPE pipe, refer drawing G-00057.
- Excavated and installed LCS/LDS manhole number 3.
- Concrete placement, at various locations.

000326

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 21 September 1997

- Deployed and compacted No. 304 aggregate, refer drawings G-00254.
- Deployed MEF under LCS/LDS-03.

ACTION/INFORMATION

B. L. Payne (BLP), Registered Land Surveyor, and contractors are performing survey associated with LCS installation.

- Non-Conformance 1700-004, installation of temporary cleanout at approximate station 28+00 as indicated on drawing G-00059. Status open.
- Non-conformance 1700-005, pipe embedment fill compaction. Refer technical specification section 02215-3.03C. Status open.
- Non-Conformance 1700-008, fault during electrofusion. Status open.

Geosyntec Consultants provided the following services.

- Monitored, documented and photographed contractor activities.
- Performed field nuclear density tests on backfill soils and pipe embedment fill (PEF).
- Monitored hydrostatic testing.
- Obtained pipe embedment fill (PEF) sample. On site laboratory analysis in progress.
- Monitored butt fusion trial and production welding.
- Monitored extrusion and electrofusion welding.
- Monitored installation of Bentonite plugs.

000327

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 21 September 1997

- Monitored excavations, backfilling and compaction of trench's, various locations.
- Cast concrete cylinders and performed related concrete tests at various locations. Compression tests to be conducted by FMSM of Cincinnati, Ohio.
- Performed field nuclear density tests on No. 304 aggregate.
- Observed and documented HDPE and appurtenances.
- Laboratory summary report data to be provided in a future weekly report.

PHASE ONE

The contractor, Petro Environmental Technologies (PET) performed the following.

- Hirsch & Assoc. (Surveyors) provided survey data associated with Phase I Construction.
- Screened clay liner soils.
- Deployed clay liner soils, cell No. 1.
- Manually removed rock from in place clay liner soils.
- Butt-fusion welding of 6/10" HDPE dual containment pipe.
- Installed horizontal monitor wells at cell 1.
- Install bentonite/soil plug at horizontal monitor wells, cell 1.
- Conducted hydrostatic pressure tests 6" and 10" pipe, refer pressure test logs for details.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 21 September 1997

- Performed dust control as required.
- Resumed excavation of proposed clay liner soils from cell No. 2, stockpiled in designated stockpile No. 9.

PHASE ONE

Attended phase one contractor weekly meeting conducted on 15 September 1997. Agenda, attendance record and minutes by Fluor Daniel Fernald (FDF), refer FDF meeting minutes for details. Following are some items discussed.

- Manual rock removal on slopes classified as heavy activity.
- Wear seat belts, safety glasses and vests.
- RDA drill, scheduled 21 September 1997.
- Groundsafe scheduled to arrive 17 September 1997.
- Clay liner approximately 1.5 weeks from completion.
- LCS/LDS hydrostatic pressure testing in progress.
- HDPE pipe certification has not been submitted.
- Butt fusion, 6/10" HDPE pipe complete.
- Construction one month in arrears.

000329

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 21 September 1997

Attended "GCL meeting" conducted on 22 September 1997. Agenda, attendance record and minutes by Petro Environmental Technologies (PET). Refer PET minutes dated 22 September 1997. Additional comments noted below. Refer attachment for additional comments.

- Clay liner survey data not issued.
- GCL internal shear testing outstanding from PET.

ACTION/INFORMATION

- Hirsch and Associates, Registered Land Surveyors, provided survey documentation
- Due to quantity of GCL lot no's resulting in a total of 21 conformance samples PET has been advised that additional geomembrane will be required in conducting interface shear tests. PET advised that samples cannot be obtained prior to arrival of Groundsafe. GeoSyntec has premarked five rolls of geomembrane from five lots for sampling. The rolls are located in the uppermost tier of the geomembrane stockpile.
- Excavation of cell No. 2 continues.
- Tie-In clay liner lifts slope face to corresponding lifts on the cell floor required.
- Combining stockpile materials, resulting in use of conservative proctor value and or additional check points.

PHASE ONE

GeoSyntec Consultants provided the following services:

- Monitored, documented and photographed contractor activities.

000330

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 21 September 1997

- Performed field nuclear density, drive ring and density tests on clay liner soils, cell No. 1.
- Performed grain-size distribution, moisture content, Atterberg limits, moisture-density relationships and check points on clay liner soils.
- Obtained clay liner soils samples from stockpile designated as No's 9. Soils analysis in progress on site and at GeoSyntec's GEL laboratory; Alpharetta, Georgia. Testing completed on samples from stockpile No. 8.
- GCL testing in progress at GeoSyntec's SGI and GEL laboratories.
- Granular drainage material (No. 78 aggregate). Grain-size distribution tests completed. Hydraulic conductivity testing completed and carbonate testing in progress at GeoSyntec's GEL facility.
- Laboratory summary report data to be provided in a future weekly report.

GEOSYNTEC PERSONNEL SCHEDULE

- R. Livingston, Engineering Technician, departed 19 September 1997.
- B. Nagel, Senior Engineering Geosynthetics Technician, departed 17 and returned 21 September 1997.
- D. Bodine, Resident Engineer, off site 19 and 20 September 1997.
- N. Meekins, Senior Soils Technician, returned 21 September 1997.
- P. Prommer, Engineering Technician, mobilized 17 September 1997. Assigned to phase one.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GO0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 21 September 1997

HEALTH AND SAFETY

- Lock Out/Tag Out video observed by P. Prommer.
- M. Ruland and S. Hall, Health and Safety, on site 17 and 18 September 1997. Conducted audit.
- GeoSyntec personnel continue to attend contractor "tailgate meetings."
- Refer separate Health and Safety reports.

000332

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"Preparatory Phase Meeting" regarding geosynthetics, held 22 September 1997. The agenda prepared by PET; attendance record requires revision. Additional comments are noted below.

- Additional geomembrane material for interface testing is needed. PET/GSI will advise GeoSyntec on date and time the samples can be made available. GeoSyntec has pre-marked five rolls of geomembrane from five lots for sampling. The rolls are located in the uppermost tier of the geomembrane stockpile.

- Geosynthetic installation expected to commence week ending 28 September 1997.

- Access to the cell during geosynthetic installation will be limited to a list of approved individuals which will be maintained by PET. Personnel are required to wear soft sole, steel toe boots without deep lugs. A smoking area will be provided away from the geosynthetic area.

- The use of all terrain vehicles (ATV) on top of the geosynthetic clay liner (GCL) is being considered by GSI (Section 02772, Part 3.05.B stipulates that equipment can not be driven directly on the GCL). Clarifications are required regarding deployment procedures (i.e., with or without a rubsheet) and the results of a test program using an ATV. The latter will be forwarded to GeoSyntec for review and will require further discussion.

- GSI expects to make minor modifications to the proposed geomembrane panel layout, most likely in the cell corners. The proper shingling of the seams (i.e., towards the sump area) is required.

- Writing on the geomembrane must be clear and readable; GSI will write in white; GeoSyntec will write in yellow. GSI will mark each panel number so it can be easily seen from a distance. The roll number will also be marked on each panel. Other markings will include: production seaming information; air test results; and vacuum box test results. GeoSyntec personnel will initial the information while observing the associated activity or after the information is recorded.

- Minor changes to the liner penetration box detail is expected. Geomembrane liner boxes are being fabricated by Plastek Werks, Inc. of Gainsville, Georgia.

- Housekeeping must be performed routinely through out each day.

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: WEEKLY HEALTH & SAFETY MEETING WEEK ENDING: 14 SEPT. 1997

10 SEPT. 1997

THE FOLLOWING HEALTH & SAFETY ISSUES WERE DISCUSSED DURING THE WEEKLY HEALTH & SAFETY MEETING:

- REVIEWED PERSONNEL PROTECTIVE EQUIPMENT (PPE)/CLOTHING. CHECKED TO SEE IF ALL PERSONNEL HAD THE PROPER FIELD GEAR. ALL THE FIELD PERSONNEL HAD THE PROPER PPE, BILL NAGEL NEED RAIN GEAR.
- THE REAR ~~DOOR~~ STEPS OF THE ADMIN. TRAILER ~~IS~~ IN NEED OF FIXING. THE ADMIN TRAILER SIGNS NEED TO BE PUT UP (T-503).
- WATCH FOOTING IN THE FIELD IN CONSTRUCTION AREAS. WATCH FOOTING FOR TRIP, FALL AND FOREIGN OBJECTS ETC.
- COMMENTS/CORRECTION FROM GREG JOHNSON ~~CONCERNED~~ REGARDING THE WEEKLY HES MEETING NOTES WEEK ENDING 24 AUG 97.
  - FDF IS REQUIRED TO APPROVE THE SMOKING AREA PRIOR TO ITS USE.
  - FDF & OSHA REQUIRES EFFECTIVE IMPALEMENT PROTECTION FOR THE MIDDLE (LOWER) STAKES ON THE TENT. THE TENNIS BALLS FAIL TO SERVE THE NEEDED PURPOSE.
  - GEOSYNTEC UNDERSTANDS THAT WE HAD A DOCUMENTED FIRST-AID INJURY, AND NOT A OSHA RECORDABLE INJURY CASE TO DATE.
  - FDF WILL PROVIDE FIRE EXTINGUISHER REPORTS UPON REQUEST.
- GEOSYNTEC PERSONNEL SHOULD MAINTAIN VEHICLES.

000334

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: WEEKLY HEALTH & SAFETY MEETING WEEK ENDING: 21 SEPT. 1997

19 SEPT. 1997

GENERAL HEALTH & SAFETY ISSUES WERE DISCUSSED:

- REVIEWED PERSONNEL PROTECTIVE EQUIPMENT (PPE/CLOTHING FOR PERSONNEL - BRIAN F. PURCHASED TWO FIRST AID KITS FOR THE TWO PICKUP TRUCKS. THE TWO PICKUP TRUCKS ARE ALSO EQUIPPED WITH A FIRE EXTINGUISHER.

- REMINDED PERSONNEL TO WATCH FOOTING, TRIP, FALL, UNEVEN TERRIAN, SHARP OBJECT, AND SLIPPER WET SURFACES. MAKE SURE YOU HAVE EYE CONTACT WITH ANY HEAVY EQUIPMENT OPERATOR PRIOR TO PASSING OR GOING AROUND THEM. CLUTCH FIST AND HOLD UP YOUR FIST FOR HEAVY EQUIPMENT OPERATORS TO STOP. ALWAYS STAY AT LEAST TWO FEET FROM ANY HEAVY VEHICLES. IT IS BEST TO STAND MUCH MORE THAN TWO FEET FROM HEAVY VEHICLES. DON'T FORGET TO SIGN INSPECT SHEET PRIOR TO ENTERING INTO AN EXCAVATION TRENCH.
- REMINDED PERSONNEL TO CONTINUE TO COMPLETE THE VEHICLE INSPECTION CHECKLIST, KEEP VEHICLES CLEAN INSIDE & OUT AND TO INFORM ME AS TO WHERE A VEHICLE NEEDS SERVICING, OIL CHANGE ETC.

000335

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FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 28 September 1997

The following covers the periods from 22 through 28 September 1997.

Site conditions were relatively dry with the exception of rain on 23 September 1997, with 0.1 inches of rainfall recorded the morning of the 24 September 1997. Temperatures ranged from forty to eighty-eight degrees Fahrenheit. Periods of dense fog occurred during the morning hours.

Fluor Daniel Fernald (FDF) personnel, Mike Hoag, performed audit of GeoSyntec Consultants (GeoSyntec) files on 22 September 1997. Ohio Environmental Protection Agency (OH EPA), Tom Ontko and Martin Kosel, reviewed activities and performed audit of GeoSyntec files on 26 September 1997.

LEACHATE CONVEYANCE SYSTEM

The contractors, Village Building Services, Inc. (VBS), Wise Construction Company (WISE) and Diaz Construction Company (DIAZ) performed the following.

- Excavated trench and undercut soft unstable soils along trench bottom; backfilled and compacted at various locations pipe embedment fill (PEF); deployed warning tape at various locations; and placed and compacted backfill soils (reference Drawings Nos. G-00057, 00058, 00059,00254, and 00261).

- Fusion welded 4/8-in. diameter (inner/outer) and 6/10-in. high density polyethylene (HDPE) dual containment pipe.

- Extrusion and electrofusion welded sleeves and couplings at various locations. It was noted that (i) a method to use electrofusion coupler on a 6-in. diameter inner pipe was developed by cutting a hole through outer pipe to access electrode on to the coupler and (ii) a new electrofusion processor developed technical problems.

- Manually excavated PEF and installed bentonite plugs at various locations.

- Hydrostatically tested clean-out MH No. 1 through Station 3+00, refer drawing G-00261/00254.

000336

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 28 September 1997

- Installed an erosion control revetment mat, 6-in. thick Fabriform Unimat, filled with 2,500 psi grout in the K-65 area on 25 September 1997.

- Excavated and installed LCS/LDS manhole No. 4.

ACTION/INFORMATION

B. L. Payne (BLP), Registered Land Surveyor and contractors are performing survey associated with LCS installation.

Items which require action include:

- The observation of damaged pipe, such as gouges greater than 10 percent of the wall thickness, require repair (reference RCI No. 1700-033R).

- Non-Conformance 1700-003: open status was closed by FDF, who indicated that each lift was fairly saturated per ODOT method.

- Non-Conformance 1700-004: the installation of temporary cleanout facing upstream at approximate station 28+00, reference Drawing No. G-00059. Status remains open.

- Non-Conformance 1700-005: PEF compaction effort was not achieved. Status remains open.

- Non-Conformance 1700-006: The use of PE 2406 (i.e., yellow) polyethylene fusion collars instead of PE 3408 (i.e., black). Status remains open.

- Non-Conformance 1700-007: continuing issue of attempting to weld during precipitation, reference specification 02605 Part 3.06 B.2 (e.g., welding occurred 23 September 1997 in the rain). Status remains open.

000337

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 28 September 1997

- Non-Conformance 1700-008: Electrofusion couplers left in place after processor defaulted (i.e., indicated coupler should be cut out). Status remains open.

- Non-Conformance 1700-009: Base material is border line with respect to ODOT specifications. Status is in-progress.

Contractor weekly meeting conducted on 23 September 1997. Refer Fluor Daniel Fernald (FDF) meeting minutes for details.

GeoSyntec provided the following services.

- Monitored, documented and photographed contractor activities.

- Performed in-place nuclear moisture/density tests on backfill soils and pipe embedment fill.

- Monitored hydrostatic testing.

- Obtained backfill soil samples and test in the on-site laboratory.

- Monitored butt fusion trial and production welding. Monitored extrusion and electrofusion welding.

- Monitored installation of bentonite plugs.

- Monitored excavations, undercutting, backfilling and compaction of trench backfill material at various locations.

- Cast grout/concrete cylinders associated with the revetment mat. Compression tests to be conducted by FMSM of Cincinnati, Ohio. It was noted that the contractor experienced problems injecting the grout mixture.

000138

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 28 September 1997

- Observed and documented HDPE pipe and appurtenances before or after installation.

PHASE ONE

The contractor, Petro Environmental Technologies (PET), performed the following activities.

- Resumed excavation of proposed clay liner material from Cell No. 2 and stockpiled in designated stockpile Nos. 10 and 11. PET requested that material be used, at their own risk, before laboratory testing was completed.
- Placed, processed, and compacted clay liner material for Cell No. 1 and intercell berm 1/2. Manually removed rock from in-place clay material. Re-processed in-place clay liner material due to extensive rock being > 2-in. in diameter. Fine graded clay liner using laser alignment equipment and provided survey data for portions of clay liner.
- Proofrolled failed areas of subgrade for Cell No. 2.
- Placed structural fill for the perimeter berms. Continued the installation of the horizontal monitoring well.
- Welded 6/10-in. diameter HDPE dual containment pipe.
- Performed dust control as required.

Attended Phase One contractor weekly meeting conducted on 22 September 1997. Agenda, attendance record and minutes by Fluor Daniel Fernald (FDF); refer FDF meeting minutes for details. The following outstanding items are noted.

- Additional geomembrane material is required for interface testing. Ground Safe, Inc. (GSI) will assist with accessing the material (see below for further details). GSI must sign off regarding equipment.

000339

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 28 September 1997

- Details of No. 57 material delivery and sampling needs to be finalized.

Attended "Preparatory Phase Meeting" regarding geosynthetics, held 22 September 1997. The agenda prepared by PET; attendance record requires revision. Additional comments are noted below.

- Additional geomembrane material for interface testing is needed. PET/GSI will advise GeoSyntec on date and time the samples can be made available. GeoSyntec has pre-marked five rolls of geomembrane from five lots for sampling. The rolls are located in the uppermost tier of the geomembrane stockpile.

- Geosynthetic installation expected to commence week ending 28 September 1997.

- Access to the cell during geosynthetic installation will be limited to a list of approved individuals which will be maintained by PET. Personnel are required to wear soft sole, steel toe boots without deep lugs. A smoking area will be provided away from the geosynthetic area.

- The use of all terrain vehicles (ATV) on top of the geosynthetic clay liner (GCL) is being considered by GSI (Section 02772, Part 3.05.B stipulates that equipment can not be driven directly on the GCL). Clarifications are required regarding deployment procedures (i.e., with or without a rubsheet) and the results of a test program using an ATV. The latter will be forwarded to GeoSyntec for review and will require further discussion.

- GSI expects to make minor modifications to the proposed geomembrane panel layout, most likely in the cell corners. The proper shingling of the seams (i.e., towards the sump area) is required.

- Writing on the geomembrane must be clear and readable; GSI will write in white; GeoSyntec will write in yellow. GSI will mark each panel number so it can be easily seen from a distance. The roll number will also be marked on each panel. Other markings will include: production seaming information; air

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 28 September 1997

- test results; and vacuum box test results. GeoSyntec personnel will initial the information while observing the associated activity or after the information is recorded.

- Minor changes to the liner penetration box detail is expected. Geomembrane liner boxes are being fabricated by Plastek Werks, Inc. of Gainsville, Georgia.

- Housekeeping must be performed routinely through out each day.

ACTION/INFORMATION

- Hirsch and Associates, Registered Land Surveyors, provided survey documentation.

- Excavation of Cell No. 2 re-resumed due to PET additional clay liner quantity requirement. It was noted on 24 September 1997 rock was observed to have been inadvertently pushed into an approved clay stockpile.

- The contractor had to re-scarify areas of clay liner to remove rock, add moisture, and correct grades. The clay liner was then recompacted and re-tested accordingly. It is noted that a high number of in-place moisture/density tests are being conducted for various reasons including inconsistent lift layers being placed and high number of failures (e.g., on 22 September 1997, 23 out 39 tests or approximately 60 percent failure rate was observed).

- Combining stockpile materials while placing clay materials, resulted in use of conservative proctor value and or obtained additional check points.

Items which require action include:

- Non-Conformance 1702-004 (dated 25 August 1997): Rock (> 2-in. diameter) observed during clay liner material placement. Area was re-worked with stabilizer on 26 August 1997.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 28 September 1997

- Non-Conformance 1702-005 (dated 15 August 1997): Rock (> 5-in. diameter) observed during structural fill material placement. The area was re-worked and rock removed as requested.

- Non-Conformance 1702-006 (dated 25 August 1997): Lift of clay liner material place over un-approved material. The area was re-worked as requested on 25 August 1997.

GeoSyntec provided the following services. A laboratory testing summary is attached.

- Monitored, documented and photographed contractor activities. Assist with the identification of > 2-in. diameter rocks in clay liner material.

- Performed in-place nuclear moisture/density and sand cone density tests on clay liner and evaluate whether test falls within the acceptable permeability zone (APZ).

- Monitor proof rolling activities in Cell No. 2.

- Performed grain-size distribution, moisture content, Atterberg limits, moisture-density relationships and check points on clay liner material in the on-site laboratory. Make recommendations regarding the in-place moisture content of clay material (e.g., addition of water).

- Obtained clay liner soils sample from stockpiles designated as Nos. 10 and 11. Soils analysis in progress on-site and at GeoSyntec's GEL laboratory in Alpharetta, Georgia. Testing completed on samples from stockpile No. 9.

- Obtained granular drainage material (No. 57 aggregate) sample from source. Grain-size distribution tests being performed on-site; hydraulic conductivity and carbonate testing in progress at GeoSyntec's GEL facility.

- Geosynthetic clay liner (GCL) testing continues at GeoSyntec's Soil-Geosynthetic Interaction (SGI) Laboratory.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 28 September 1997

PHASE ONE - MATERIAL STATUS

Soils - (Materials requirements per Petro Environmental Technologies)

Clay Liner: initiated stockpile Nos. 10 and 11; used stockpile Nos. 7 and 9; continue processing material typically using two out of three screens; and attempt to add water to clay.

Granular Drainage Material (No. 57): 3,000 tons total.

Granular Drainage Material (No. 78): 18,000 tons total, which is being stockpiled at Highlands Quarry.

Pipe Embedment Fill (PEF): 100 tons total.

Geosynthetics - Materials stockpiled on-site. Geosynthetic clay liner (GCL) interface testing results from manufacturer are pending.

Material Type	No. of Rolls	Approximate Square Feet	No. of Conformance Samples
GCL	323	744, 838	21
Geomembrane (80 mil thick)	77+ 2 pending	788, 835	16
Geotextile (7 oz/yd²)	16	187, 200	3
Geotextile (10 oz/yd²)	95	812, 250	9
Geotextile (16 oz/yd²)	12	64, 800	1

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 28 September 1997

GEOSYNTEC PERSONNEL SCHEDULE

- K. Cargill, Team Leader, on site 23/24 and 26 September 1997.
- J. McMichen, Site Manager, departed 26 September 1997.
- R. Livingston, Health and Safety, off site, returned 28 September 1997.
- B. Erisman, Senior Engineering Technician, off-site 26-28 September 1997.
- R. Halter, Administrative Assistant, off-site 25-28 September 1997.

HEALTH AND SAFETY (H&S) ISSUES

GeoSyntec personnel continue discussion with FDF and contractor personnel of possible safety hazards, including:

- attempts to fusion weld in a semi plastic enclosure during periods of rain; and
- on-site soils laboratory lighting needs improvements.

The internal H&S audit conducted 17-18 September 1997 suggested that: (i) a pre-entry briefing by GeoSyntec H&S needs to be performed; (ii) appropriates signatures are needed to be obtained; (iii) any new chemicals require submittal of MSDS two weeks before delivery; and (iv) chemicals requires appropriate labels.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 5 October 1997

The following covers the periods from 29 September through 05 October 1997.

Site conditions were relatively dry with the exception of a trace amount of rain on 29 September 1997. Temperatures ranged from thirty four to eighty-two degrees Fahrenheit. Periods of strong winds were observed 29 September 1997.

LEACHATE CONVEYANCE SYSTEM

The contractors, Village Building Services, Inc. (VBS), Wise Construction Company (WISE) and Diaz Construction Company (DIAZ) performed the following.

- Excavated trench and undercut soft unstable soils along trench bottom; backfilled and compacted at various locations pipe embedment fill (PEF); deployed warning tape at various locations; and placed and compacted backfill soils.
- Fusion welded 4/8-in. diameter (inner/outer) and 6/10-in. high density polyethylene (HDPE) dual containment pipe.
- Extrusion and electrofusion welded sleeves and couplings at various locations. It was noted that an extrusion welder is used to repair holes cut through outer pipe which are needed to access electrode on fusion coupler.
- Manually excavated PEF and installed bentonite plugs at various locations, including: 12+75; 15+25; 17+10; 18+50; and 20+85.
- Hydrostatically tested pipe between manholes 4 and 5.

ACTION/INFORMATION

B. L. Payne (BLP), Registered Land Surveyor and contractors are performing survey associated with LCS installation.

Items which require action include:

- Gouges greater than 10 percent of the containment pipe wall thickness was approved 25 September 1997 (reference RCI No. 1700-033R).

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 5 October 1997

- Non-Conformance Report 1700-004: the installation of temporary cleanout facing upstream at approximate station 28+00, reference Drawing No. G-00059, was approved 27 September 1997.

- Non-Conformance Report 1700-005: PEF compaction effort was not achieved. Status remains open.

- Non-Conformance Report 1700-006: the use of PE 2406 (i.e., yellow) polyethylene fusion collars instead of PE 3408 (i.e., black) was approved 27 September 1997.

- Non-Conformance Report 1700-007: the attempt to weld during precipitation was approved 27 September 1997 and corrective action, a hydrostatic test, performed 29 September 1997.

- Non-Conformance Report 1700-008: Electrofusion couplers left in place after processor defaulted (i.e., indicated coupler should be cut out) was approved 27 September 1997.

- Non-Conformance 1700-009: Base material is border line with respect to ODOT specifications. Status is in-progress.

Contractor weekly meeting conducted on 29 September 1997. Refer Fluor Daniel Fernald (FDF) meeting minutes for details.

GeoSyntec provided the following services.

- Monitored, documented and photographed contractor activities.

- Performed in-place nuclear moisture/density tests on backfill soils and pipe embedment fill.

- Obtained backfill soil samples and test in the on-site laboratory.

- Monitored butt fusion trial and production welding. Monitored extrusion and electrofusion welding. Monitored hydrostatic testing of pipe.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 5 October 1997

- Monitored excavations, undercutting, backfilling and compaction of trench backfill material at various locations. Monitored installation of bentonite plugs.

- Monitored placement of concrete, test samples of concrete, and cast concrete cylinders. Delivered concrete cylinders to FMSM of Cincinnati, Ohio.

- Observed and documented HDPE pipe and appurtenances before or after installation.

PHASE ONE

The contractor, Petro Environmental Technologies (PET), performed the following activities.

- Continued excavation of proposed clay liner material from Cell Nos. 2 and 3 and either screen or stockpile the material in designated stockpile No 11 and start No. 12. PET, at their own risk, is using material before laboratory testing has been completed. Screening of material continues from stockpile Nos. 9, 10, and 11.

- Placed, processed, and compacted clay liner material for Cell No. 1 and intercell berm 1/2. Material being placed in lifts without lift thickness control. Material along the intercell berm is being placed and compacted in a stair-step method. Visible rock manually removed. In-place clay liner material required to be re-processed due to extensive rock being > 2-in. in diameter and inadequate moisture. Clay liner surface graded using laser alignment equipment. Top of clay liner continued to be surveyed and certified.

- Continued the installation of the horizontal monitoring well and leachate collection system.

- Welded 6/10-in. diameter HDPE dual containment pipe and excavated trench, placed, and compacted PEF. Place concrete around lift station and manhole covers.

- Performed dust control as required.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 5 October 1997

ACTION/INFORMATION

- Hirsch and Associates, Registered Land Surveyors, provided survey documentation.
- Several meetings were held, including 29 September 1997, with various parties to resolve: (i) repair of desiccation cracks greater than 3-in deep; (ii) thin lifts of un-bonded clay along northern portions of the cell floor; and (iii) loose clay fines (i.e., powder) on slopes. The contractor will need to re-scarify, remove rock and moisture condition areas of clay liner. The clay liner will not be required to be re-certification as long as no material is removed/added and grades are not visibly changed.
- Contractor continued to combine stockpile clay materials, resulted in use of conservative proctor value and or obtained additional check points.

Items which require action include:

- Require an additional water source (e.g., nearby well being tested) or improve an existing 2-in diameter source.
- Additional geomembrane material for interface testing is needed. Ground Safe, Inc. (GSI)/PET will confirm date and time the five rolls can be made available for sampling.
- Details of No. 57 material delivery and sampling needs to be finalized.
- Clarifications are required regarding geosynthetics, including: start date; deployment procedures (i.e., use of all terrain vehicles (ATV) and rubsheets); and GCL approved lots. Changes to the liner penetration box detail are presented in DCN No. 1702-034.

GeoSyntec provided the following services.

- Monitored, documented and photographed contractor activities. Assist with the identification of > 2-in. diameter rocks in clay liner material.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 5 October 1997

- Performed in-place nuclear moisture/density and sand cone density tests on clay liner and evaluate whether test falls within the acceptable permeability zone (APZ).

- Performed grain-size distribution, moisture content, Atterberg limits, moisture-density relationships and check points on clay liner material in the on-site laboratory. Make recommendations regarding the in-place moisture content of clay material (e.g., addition of water).

- Obtained soil samples from (i) sedimentation basin stockpile, at FDF's request, and (ii) stockpiles. Soils analysis in progress on-site and at GeoSyntec's GEL laboratory in Alpharetta, Georgia.

- Obtained granular drainage material (No. 57 aggregate) sample from source. Grain-size distribution tests being performed on-site; hydraulic conductivity and carbonate testing in progress at GeoSyntec's GEL facility.

- Geosynthetic clay liner (GCL) testing continues at GeoSyntec's Soil-Geosynthetic Interaction (SGI) Laboratory.

PHASE ONE - MATERIAL STATUS

Soils - continue processing clay material typically using two out of three screens; and attempt to add water to clay.

Geosynthetics - Materials stockpiled on-site. Geosynthetic clay liner (GCL) interface testing results from manufacturer are pending. Conformance tests indicate several failing lots. However, GeoSyntec has developed a procedure in which a failing interface friction result is used in the design calculations to calculate the actual factor of safety.

GEOSYNTEC PERSONNEL SCHEDULE

- K. Cargill, Team Leader, on site 2 October 1997.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 5 October 1997

- D. Vanderlinde, Design Engineer, on site 2 October 1997.
- D. Bonnett, QC Manager, on site 1 through 3 October 1997.
- J. McMichen, Site Manager, expected returned to site 6 October 1997.
- B. Erisman, Senior Engineering Technician, returned to site 1 October 1997.
- A. Zargaran, Senior Engineering Technician, mobilized to site 1 October 1997.
- R. Erisman (Halter), Administrative Assistant, returned to site 1 October 1997.

HEALTH AND SAFETY (H&S) ISSUES

GeoSyntec personnel continue discussion with FDF and contractor personnel of possible safety hazards, including:

- attempts to fusion weld in a semi plastic enclosure during periods of rain; subsequently, the contractor ceased welding following a H&S inspection; and
- on-site soils laboratory lighting needs improvements.

The internal H&S audit conducted 17-18 September 1997 suggested that: (i) a pre-entry briefing by GeoSyntec H&S needs to be performed; (ii) appropriate signatures need to be obtained; (iii) any new chemicals require submittal of MSDS two weeks before delivery; and (iv) chemicals requires appropriate labels.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 12 October 1997

The following covers the period from 6 through 12 October 1997.

Site conditions remained dry with no rainfall recorded during the above period. Temperatures ranged from fifty-two to eighty-eight degrees Fahrenheit.

LEACHATE CONVEYANCE SYSTEM

The contractors, Village Building Services, Inc. (VBS), Wise Construction Company (WISE) and Diaz Construction Company (DIAZ) performed the following.

- Deployed manhole embedment fill (MEF), LCS/LDS-01. Refer drawing G-00057.
- Deployed pipe embedment fill (PEF) station 12+00 north, refer drawing G-00057; COMH No. 1, refer drawing G-00054; HDPE pipes adjacent to LCS-03, refer drawing G-00057.
- Deployed backfill soils, LCS/LDS-01, refer drawing G000057 station 13+75 northward, refer drawing G-00058.
- Deployed No. 304 aggregate, adjacent to MH No. 4, refer drawing G-00061.
- Performed hydrostatic testing, monitoring well.
- Installing mechanical apperturances, lift station.
- Installed electrofusion couplings, various locations.
- Installed caution tape at various locations.
- Deployed topsoil station 13+75 north, refer drawings G-00058 and G 00059.
- Concrete placement, MH's No. 11 and No. 5 and COMH 's 10 and 12, refer drawing G-00262.

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FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 12 October 1997

- Installed bentonite plugs, various locations.
- Constructing lift station surface slab to receive concrete.

ACTION/INFORMATION

B. L. Payne (BLP), Registered Land Surveyor, and contractors are performing survey associated with LCS installation.

- VBS replacing flange bolts inside manholes due to insufficient length, replacing with stainless steel bolts.
- Decontamination station, stub-out at approximate station no. 13+25 vs. station 12+75 drawing G-00058, refer DCN 1700-047 and DCN 1702-016.
- FDF advised that "J" bolts vs. stainless steel have been approved for use in the lift station.
- NCR 1700-009, grain-size distribution for No. 304 aggregate. Status closed.
- NCR 1700-010, extrusion on electrofusion coupling. To be submitted upon completion of review by CQC site manager.
- NCR 1700-005, response received by CQC site manager. Status under review.

Geosyntec Consultants provided the following services.

- Monitored, documented and photographed contractor activities.
- Performed in-place nuclear moisture/density tests on backfill soils.
- Performed in-place nuclear moisture/density tests on No 304 aggregate.

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FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 12 October 1997

- Cast concrete cylinders and performed related tests. Compression tests to be performed by FMSM of Cincinnati, Ohio.
- Monitored areas to receive concrete; subgrade surface, form work wire mesh/ reinforcing where applicable.
- Monitored electro fusion and extrusion welding.
- Monitored deployment and compaction of backfill soils, MEF and PEF.
- Monitored installation of mechanical appurtenances and pipe configurations within manholes and lift station.

PHASE ONE

The contractor, Petro Environmental Technologies (PET) performed the following activities.

- Resumed excavation of proposed clay liner material from future cells No. 2 and No. 3 and stockpiled in designated stockpile No. 13.
- Placed, processed and compacted clay liner material for cell No. 1, intercell berm 1/2 and cell No. 2. Manually removed rock from in-place clay liner material. Fine graded clay liner using laser alignment equipment.
- Placed and compacted structural "compacted" fill material for west berm at horizontal monitoring well, LCS/LDS corridor. Manually removed rock from in-place compacted fill.
- Power screened clay liner and proposed clay liner material, stockpiles No.'s 10 and 11.

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FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 12 October 1997

- Provided dust control as required.
- Initiated stockpiling of granular drainage material (GDM) No. 78 aggregate.
- Initiated placement of compacted fill, cell 1 west berm, from the sediment basin stockpile.
- Excavated proposed clay liner soils from cells No. 2 and No. 3.

ACTION/INFORMATION

Hirsch and Associates, registered land surveyors, provided survey documentation via PET.

- Refer GeoSyntec memorandum(s) dated 10 October 1997 for geosynthetic clay liner (GCL) evaluations to date.
- PET indicated an additional 4,000 to 6,000 cubic yards of clay liner material to be excavated.
- At the request of FDF/PET, GeoSyntec is conducting laboratory analysis on soils to determine its suitability as compacted fill, previously stockpiled during stripping operations. It should be noted that visual observation of exposed material revealed minimal vegetation (roots).
- PET/FDF representatives have been advised of desiccation cracks (>2 inches and >5 inches vertical) existing at final grade of the clay liner.
- An additional approximately 180,000 square feet of GCL has been manufactured. GeoSyntec obtained two samples at the manufacturing facility for laboratory analysis. At the request of FDF/PET an additional two samples were obtained and shipped to a laboratory selected by PET.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 12 October 1997

- GeoSyntec representatives are scheduled to visit Plastic Werks, liner box manufacturer, facility on 13 October 1997.
- GSI scheduled to mobilize to site 13 October 1997.
- NCR 1702-007, Deployment of Non-Approved Clay Liner Material at "contractor's risk". All appropriate parties have been notified. Formal issuance as clay liner test results are finalized.

GeoSyntec Consultants provided the following services.

- Monitored, documented and photographed contractor activities.
- Assisted with the identification of >2" diameter rocks in clay liner material.
- Performed in-place nuclear moisture/density, sand cone density tests and check points on clay liner material.
- Performed in-place nuclear moisture/density tests on compacted fill.
- Obtained clay liner soils samples from stockpile designated as No 13 and 10/13.
- Reviewed and responded to survey documentation (primarily top of clay), additional documentation under review.
- Geosynthetic clay liner (GCL) testing continues at GeoSyntec's Soil-Geosynthetic Interaction (SGI) laboratory and Geomechanics Environmental Laboratory (GEL).
- On-site and off-site laboratory analysis on proposed clay liner material in progress.
- Obtained a sample of previously stripped and stockpiled soils. Laboratory analysis in progress.

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GeoSyntec Consultants

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 12 October 1997

GEOSYNTEC PERSONNEL SCHEDULE

- R. Bonaparte, Program Manager, on site 7 and 8 October 1997.
- K. Wills, Engineering Technician, off site 11 through 13 October 1997.
- R. Livingston, Engineering Technician, departed 8 October 1997. Temporarily reassigned.
- D. Bodine, Resident Engineer, scheduled to return 13 October 1997.
- J. F. McMichen, CQC Site Manager, returned 7 October 1997.

HEALTH AND SAFETY

- Refer Health and Safety reports for details.
- Anticipate receipt of GeoSyntec internal Health and Safety audit report the week of 13 October 1997.

Weekly report for week ending 5 October 1997 to be forwarded at a later date.

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FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: WEEKLY HEALTH & SAFETY MEETING WEEK ENDING: 7 SEPT. 97

GEOSYNTEC PERSONNEL WAS NOT ABLE TO CONDUCT A WEEKLY HEALTH AND SAFETY MEETING DUE TO THE HEAVY WORK LOAD SCHEDULE FOR THE WEEK. GEOSYNTEC PERSONNEL WORKED 12 PLUS HOURS DAILY FOR THE ENTIRE WEEK. HOWEVER, GEOSYNTEC PERSONNEL ATTENDED THE CONTRACTORS (UBS, WISE & PETROS) EARLY MORNING HEALTH AND SAFETY BRIEFINGS EACH DAY.

C00357

COPY TO: FILE PER: Randy Livingston

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 19 October 1997

The following covers the period from 13 through 19 October 1997.

Site conditions varied from wet to dry with 0.6 inches of rainfall recorded. Temperatures ranged from thirty to eighty-one degrees Fahrenheit.

LEACHATE CONVEYANCE SYSTEM

The contractors, Village Building Services, Inc. (VBS), Wise Construction Company (WISE) and Diaz Construction Company (DIAZ) performed the following.

- Deployed manhole embedment fill (MEF), LCS/LDS No. 1 and 3.
- Deployed pipe embedment fill (PEF), LCS/LDS N0. 1 and No. 3 and MH No. 5.
- Deployed backfill soils, LCS/LDS MW No. 1 and No. 3.
- Deployed backfill soils, LTS station 12+00 to 14+00.
- Performed hydrostatic testing, monitoring wells No. 1, No. 2 and No. 3.
- Installing mechanical apperturances, LCS/LDS No. 1, No. 2 and No. 3.
- Installed electrofusion coupling, monitoring well No. 1.
- Installed caution tape at various locations.
- Deployed topsoil, various locations.
- Dewatered where applicable.
- Installed monitoring wells and riser pipe No. 1 and No. 2.
- Deployed No. 89 aggregate LCS/LDS No. 1.

000358

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 19 October 1997

- Excavated monitoring well No. 3 trench.
- Completed constructing and concreting lift station cover slab.

ACTION/INFORMATION

B. L. Payne (BLP), Registered Land Surveyor, and contractors are performing survey associated with LCS installation.

- NCR 1700-010, extrusion on electrofusion coupling. Issued 15 October 1997. Status open.
- NCR 1700-005, response received by CQC site manager. Status under review.
- Fluor Daniel Fernald (FDF) was advised of 7 day concrete compression test result, 1061 PSI. Representing grout placed for the erosion control revetment west of CO No. 12.

Geosyntec Consultants provided the following services.

- Monitored, documented and photographed contractor activities.
- Performed in-place nuclear moisture/density tests on backfill soils.
- Cast concrete cylinders and performed related tests, lift station cover slab. Compression tests to be performed by FMSM of Cincinnati, Ohio.
- Monitored areas to receive concrete; subgrade surface, form work and reinforcing where applicable.
- Monitored electro fusion welding.

C00359

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 19 October 1997

- Monitored deployment and compaction of backfill soils, MEF and PEF.
- Monitored installation of mechanical appurtenances and pipe configurations within manholes and lift station.
- At the contractors request, initial monitoring of reinforcing placement, manhole and horizontal monitoring wells cover slab.
- Monitored hydrostatic pressure tests, monitoring wells No. 1 and No. 2.

PHASE ONE

The contractor, Petro Environmental Technologies (PET) performed the following activities.

- Resumed excavation of proposed clay liner material from future cells No. 2 and No. 3 and stockpiled in designated stockpile No.10/12/13.
- Placed, processed and compacted clay liner material for cell No. 1, intercell berm 1/2 and cell No. 2. Manually removed rock from in-place clay liner material. Fine graded clay liner using laser alignment equipment.
- Placed and compacted structural "compacted" fill material for west berm at horizontal monitoring well, LCS/LDS corridor and cell No. 2. Manually removed rock from in-place compacted fill.
- Power screened clay liner and proposed clay liner material, stockpile No.10/12/13.
- Dewatered following rains of 13 October 1997.
- Installed silt fence at portions of sedimentation basin.

000360

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 19 October 1997

- Provided dust control as required.
- Stockpiled granular drainage material (GDM) No. 78 aggregate.
- Placed compacted fill, cell 1 west berm, material from the sediment basin stockpile, west drainage channel, stockpile A, and turn around corridor. Manually removed rock >5 inches from in-place material.

ACTION/INFORMATION

Hirsch and Associates, registered land surveyors, provided survey documentation via PET.

- PET/FDF representatives have been advised of desiccation cracks (>2 inches and >5 inches vertical) existing at final grade of the clay liner.
- Granular drainage material sample No. GDM-13 from on-site stockpile, grainsize distribution percent passing No. 1/2 inch sieve does not meet specification or DCN requirement. Additional samples to be obtained.
- PET deployed structural "compacted" fill (minimal) excavated from west drainage channel. Material was placed prior to laboratory analysis. PET/FDF representatives were immediately advised that the contractor was proceeding "at risk".
- Apparently representatives from an engineering firm other than GeoSyntec obtained "shelby tube" samples from Cell No. 1 west berm bench. No additional information available.
- During clay liner placement, loose lift thickness verifications by GeoSyntec were observed to be from 8" to 14". Areas > 8" were delineated and undercut.
- Maintain compacted clay liner as per technical specification 02225 part 3.09, protection of work.

J.001

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 19 October 1997

- GSI rescheduled to mobilize 20 October 1997.
- Due to the present method of excavation, stockpiling and screening, (i.e. mixing of unapproved with approved clay liner material), GeoSyntec is continually sampling to conduct check points and additional on-site and off-site laboratory analysis inclusive of permeabilities. Therefore, field nuclear-density test results are subject to confirmation via laboratory analysis. All concerned parties have been advised.
- PET continues to submit GCL interface shear test results.
- Geosyntec representative scheduled to observe pressure testing of HDPE liner box at Plastic Werks facility prior to shipping.
- NCR 1702-007, Deployment of Non-Approved Clay Liner Material issued 14 October 1997. Status open.

GeoSyntec Consultants provided the following services.

- Monitored, documented and photographed contractor activities.
- Assisted with the identification of >2" diameter rocks in clay liner material and > 5"diameter rock in compacted fill.
- Performed in-place nuclear moisture/density, sand cone density tests and check points on clay liner material.
- Performed in-place nuclear moisture/density tests on compacted fill.
- Obtained clay liner soils samples from stockpile designated as No 10/12/13.

000362

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 19 October 1997

- Reviewed and responded to survey documentation (primarily top of clay), additional documentation under review.
- Geosynthetic clay liner (GCL) testing continues at GeoSyntec's Soil-Geosynthetic Interaction (SGI) laboratory and Geomechanics Environmental Laboratory (GEL).
- On-site and off-site laboratory analysis on proposed clay liner material in progress.
- Completed laboratory analysis of stockpile designated as A, structural fill.
- Obtained samples of proposed structural "compacted fill" soils for laboratory analysis, in progress.
- Obtained sample of No. 78 aggregate from on-site stockpile. Performed grain-size distribution test, carbonate content test in progress.

GEOSYNTEC PERSONNEL SCHEDULE

- K. Cargill, Team Leader, on site 14 October 1997.
- D. Bodine, Resident Engineer, returned 12 October 1997.

HEALTH AND SAFETY

- Refer Health and Safety reports for details.
- GeoSyntec's Safe Work Plan (SWP) Branch Project Audit report was issued. The audit was conducted on 17 and 18 September 1997. a "Response to Safe Work Plan (SWP) Branch Project Audit Report" was also issued and is to be completed by the

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GeoSyntec Consultants

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 19 October 1997

site Health and Safety Officer by 21 November 1997. Copies of the audit were distributed to those individuals participating in the audit with copies available at GeoSyntec's administrative and site laboratory trailers for review.

- Weekly report for week ending 5 October 1997 to be forwarded at a later date.

000364

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 26 October 1997

The following covers the period from 20 through 26 October 1997.

Site conditions varied from drying to wet with 1.5 inches of rainfall recorded. Temperatures ranged from twenty-five to sixty-three degrees Fahrenheit.

LEACHATE CONVEYANCE SYSTEM

The contractors, Village Building Services, Inc. (VBS), Wise Construction Company (WISE) and Diaz Construction Company (DIAZ) performed the following.

- Deployed pipe embedment fill (PEF), LCS/LDS No. 3 and No. 2.
- Deployed backfill soils, LCS/LDS MH No. 1, No. 2 and No. 3.
- Installed electrofusion coupling, LDS MH No. 1, and MH No. 2, reconnection of 3" tie-in LDS to LTS.
- Dewatered where applicable.
- Undercut backfill soils, LCS-01 redundant dual containment pipe to allow for adjustment to pipe elevation.
- Excavated overfill of MEF, LCS/LDS MH No. 1 to facilitate placement of PEF.
- Excavated overfill of PEF, LCS/LDS MH No. 3 to facilitate deployment of backfill soils.
- Placed concrete, AR MH No. 4, CO MH No. 4 and cover slab CO MH No. 1.

000365

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 26 October 1997

ACTION/INFORMATION

B. L. Payne (BLP), Registered Land Surveyor, and contractors are performing survey associated with LCS installation.

- B and J Electric Contractor, weather permitting, anticipates completion within two weeks. Awaiting electric panels.
- NCR 1700-010, extrusion on electrofusion coupling. Issued 15 October 1997. Status open, FDF to respond following results of hydrostatic pressure testing.
- Wise Construction Company to complete seeding, installation of signs and installation of MH No. 1 flow meter.
- NCR 1700-005, response received by CQC site manager. Status under review.
- Diaz Construction Company to complete forming and concreting LCS/LDS manholes and cover slab MH No. 5.
- VBS to complete hydrostatic pressure testing.

Geosyntec Consultants provided the following services.

- Monitored, documented and photographed contractor activities.
- Performed in-place nuclear moisture/density tests on backfill soils.
- Cast concrete cylinders and performed related tests. Compression tests to be performed by FMSM of Cincinnati, Ohio.
- Monitored areas to receive concrete, subgrade surface, form work and reinforcing where applicable.

000366

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 26 October 1997

- Observed manhole hatchways as related to appropriate drawings.
- Monitored deployment and compaction of backfill soils, PEF.

PHASE ONE

The contractors, Petro Environmental Technologies (PET) and Groundsafe Inc. (GSI) performed the following activities.

- Resumed excavation and screening of proposed clay liner material from future cell No. 2 and stockpiled in designated stockpile No.10/12/13.
- Placed, processed and compacted clay liner material for cells No. 1, No. 2 and intercell berm 1/2. Manually removed rock from in-place clay liner material. Fine graded clay liner using laser alignment equipment.
- Placed and compacted structural "compacted" fill material, temporary cell access road west perimeter berm of cells No. 1 and No. 2. Refer DCN No. 1702-035.
- Dewatered following rains of 24 through 26 October 1997.
- Excavated portions of cell 1 anchor trench, primarily east berm.
- Moistened clay liner surface in an effort to minimize desiccation.
- Separated approved GCL rolls from non-approved rolls.
- Initiated deployment of geosynthetics, GCL and GML.
- Approximately 69, 090 and 66, 901 square feet of GCL and geomembrane respectively were deployed from 21 through 24 October 1997.

000367

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 26 October 1997

- Deployed "plastic" in the anchor trench in an effort to divert rain water from deployed GCL.
- Provided dust control as required.
- Stockpiled granular drainage material (GDM) No. 78 aggregate and No. 57 aggregate.
- Excavated trench, gravity inlet structure at west drainage channel, installed concrete pipe, deployed PEF and backfill soils.

ACTION/INFORMATION

Hirsch and Associates, registered land surveyors, provided survey documentation via PET.

- PET/FDF representatives have been advised of desiccation cracks (>2 inches and >5 inches vertical) existing at final grade of the clay liner where applicable areas were restabilized and recompacted. Additionally rock >2" was manually removed. Additional nuclear density tests were performed.
- PET deployed structural "compacted" fill (minimal) temporary cell access road west perimeter berm of cells No. 1 and No. 2.
- Maintain compacted clay liner as per technical specification 02225 part 3.09, protection of work.
- Fluor Daniel Fernald (FDF) is obtaining approximately 350,000 square feet of GCL. Portions to be deployed in cell No. 1 if required. The remainder to be deployed in cell No. 2.

000368

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 26 October 1997

- Geosynthetics cold weather "seaming" procedure remains outstanding, insufficient information. GeoSyntec has suggested geomembrane manufacturer may be of assistance in providing information. Construction manager approval documentation remains outstanding.

- GSI mobilized 20 October 1997.

- GCL rolls have been observed to be damaged during the process of relocating the rolls. Additionally some hydration was noted, primarily to one roll, due to exposure to moisture. Hydrated segments not deployed.

- Geomembrane destructive sample status; DS-01 field test failed, seam S1/S2 removed and reseamed, DS1A and DS2 passed, DS3 failed (to be tracked), DS4 through DS9 passed.

- Due to the present method of excavation, stockpiling and screening, (i.e. mixing of unapproved with approved clay liner material), GeoSyntec is continually sampling to conduct check points and additional on-site and off-site laboratory analysis inclusive of permeabilities. Therefore, field nuclear-density test results are subject to confirmation via laboratory analysis. All concerned parties have been advised.

- PET continues to submit GCL interface shear test results.

- NCR 1702-007, Deployment of Non-Approved Clay Liner Material issued 14 October 1997. Status open, with FDF.

GeoSyntec Consultants provided the following services.

- Monitored, documented and photographed contractor activities.

- Assisted with the identification of >2" diameter rocks in clay liner material

000369

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 26 October 1997

- Performed in-place nuclear moisture/density tests and check points on clay liner material.
- Obtained clay liner soils sample from an area west of and adjacent to the corridor turnaround.
- Monitored and documented deployment of GCL and geomembrane.
- Monitored and documented fusion and extrusion trial and production welding, non destructive testing and identified destructive sample locations. A total of nine destructive samples have been obtained and forwarded to GeoSyntec's MTL (laboratory) for testing.
- Obtained geomembrane samples to be used in conducting interface shear testing at GeoSyntec's SGI facility in Atlanta, GA.
- Monitored repairs to deployed GCL.
- Obtained samples of GCL at manufacturing facility and forwarded to GeoSyntec's SGI facility for interface shear testing.
- Reviewed and responded to survey documentation (top of clay), additional documentation under review.
- Geosynthetic clay liner (GCL) testing continues at GeoSyntec's Soil-Geosynthetic Interaction (SGI) laboratory and Geomechanics Environmental Laboratory (GEL).
- On-site and off-site laboratory analysis on proposed clay liner material in progress.
- Obtained samples GDM-14, 15, 16 and 17 of No. 78 aggregate from on-site stockpile. Performed grain-size distribution test, hydraulic conductivity in progress sample GDM-14.

000370

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 26 October 1997

GEOSYNTEC PERSONNEL SCHEDULE

- K. Cargill, Team Leader, on site 20 and 21 October 1997.
- R. Livingston, Engineering Technician, demobilized 24 October 1997.
- P. Prommer, Engineering Technician, demobilized 24 October 1997.

HEALTH AND SAFETY

- Refer Health and Safety reports for details.
- "Response to Safe Work Plan (SWP) Branch Project Audit Report," corrective actions are in progress.

- Weekly report for week ending 5 October 1997 issued 28 October 1997.

000371

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 02 November 1997

The following covers the period from 27 through 02 November 1997. Work was not conducted on 01 and 02 November 1997.

Site conditions remained wet with 0.6 inches of additional rainfall recorded. Temperatures ranged from twenty-three to sixty degrees Fahrenheit.

LEACHATE CONVEYANCE SYSTEM

The contractors, Village Building Services, Inc. (VBS), Wise Construction Company (WISE) and Diaz Construction Company (DIAZ) performed the following.

- Hydroseeded east and north of the sedimentation basin.
- Dewatered where applicable.
- Installed control panels, leachate lift station.
- Installed pumps, leachate lift station.
- Installed wiring, leachate lift station.

ACTION/INFORMATION

B. L. Payne (BLP), Registered Land Surveyor, and contractors are performing survey associated with LCS installation.

- NCR 1700-010, extrusion on electrofusion coupling. Issued 15 October 1997. Status open, FDF to respond following results of hydrostatic pressure testing.

000372

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 02 November 1997

- NCR 1700-005, response received by CQC site manager. Status, response transmitted to FDF 30 October 1997.
- VBS to complete hydrostatic pressure testing.

Geosyntec Consultants provided the following services.

- Monitored, documented and photographed contractor activities.
- Performed in-place nuclear moisture/density tests on backfill soils.
- Monitored areas to receive concrete; subgrade surface, form work and reinforcing where applicable.
- Monitored deployment and compaction of backfill soils and PEF.

PHASE ONE

The contractors, Petro Environmental Technologies (PET) and Groundsafe Inc. (GSI) performed the following activities.

- Deployed, stabilized and removed rock >2" from clay liner soils in stockpile fashion to be used at a later date.
- Manually removed rock from in-place clay liner material. Fine graded clay liner using laser alignment equipment.
- Placed and compacted structural "compacted" fill material, temporary cell access road west perimeter berm of cells No. 1 and No. 2. Refer DCN No. 1702-035.

000373

- Dewatered cell No. 1 following rains.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 02 November 1997

- Liner penetration boxes were delivered to site.
- Excavated portions of cell 1 anchor trench, north berm.
- Granular bentonite (minimal) deployed by hand to fill voids in clay liner resulting from rock removal.
- Separated approved GCL rolls from non-approved rolls.
- Deployed geosynthetics, GCL and GML.
- Approximately 155,220 and 156,199 square feet of GCL and GML respectively have been deployed to date.
- Excavated GIS-02 and 03 storm drain, placed backfill soils, inlet structure.
- Employed a helicopter to hover above cell No. 1 to assist in drying clay liner soils.
- Initiated vacuum box (v-box) testing.
- Deployed "plastic" in the anchor trench in an effort to divert rain water from deployed GCL.
- Stockpiled granular drainage material (GDM) No. 78 aggregate.
- Excavated trench, gravity inlet structures 02, 03, 04 and 05, installed structures, deployed PEF and backfill soils and completed backfilling including GIS-01.

000374

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 02 November 1997

ACTION/INFORMATION

Hirsch and Associates, registered land surveyors, provided survey documentation via PET. Initiated survey of GML seams.

- Liner penetration boxes No. 1 and No. 3, HDPE pipe does not extend beyond flat stock. May create difficulty in future welding.
- Initial vacuum box (v-box) testing revealed excessive pressure. A hole was intentionally cut (.25 ± inches) in GML. Attempts to v-box the area indicated that the hole could not be located. Equipment/procedure adjustments required.
- Maintain compacted clay liner as per technical specification 02225 part 3.09, protection of work.
- Several areas of geomembrane requiring repair (patches) remained open prior to rains resulting in repairs to underlying GCL.
- Trampolining of geomembrane has been observed at north and south berms inside slope face at toe. Sufficient deployment of sandbags should be maintained at all times.
- Geosynthetics cold weather "seaming" procedure remains outstanding, insufficient information. Construction manager approval documentation remains outstanding.
- GCL rolls have been observed to be damaged during the process of relocating the rolls.
- Geomembrane destructive sample status; DS3 failed (to be tracked), DS4 through DS9 passed.
- PET continues to submit GCL interface shear test results.

000375

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 02 November 1997

- NCR 1702-007, Deployment of Non-Approved Clay Liner Material issued 14 October 1997. Status open, with FDF.
- PET elected to deploy temporary GML panels (four) directly onto clay liner soils to "protect" the surface from anticipated rains.

GeoSyntec Consultants provided the following services:

- Monitored, documented and photographed contractor activities.
- Assisted with the identification of >2" diameter rocks in clay liner material
- Observed liner penetration boxes, dimensions and workmanship.
- Performed in-place nuclear moisture/density tests on backfill soils.
- Monitored and documented deployment of GCL and GML.
- Monitored and documented fusion, extrusion, trial and production welding; non destructive testing and identified destructive sample locations.
- Monitored repairs to deployed GCL and GML.
- Reviewed and responded to survey documentation (top of clay), additional documentation under review.
- Geosynthetic clay liner (GCL) testing continues at GeoSyntec's Soil-Geosynthetic Interaction (SGI) laboratory and Geomechanics Environmental Laboratory (GEL).
- Completed on-site and off-site laboratory analysis on proposed clay liner material.

000376

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 02 November 1997

- Obtained samples GDM-18, No. 78 aggregate from on-site stockpile. Performed grain-size distribution test. Hydraulic conductivity completed on sample GDM-14.

GEOSYNTEC PERSONNEL SCHEDULE

- D. Bonnett, Quality Control Manager, on site 27 through 30 October 1997.
- K. Cargill, Team Leader, on site 28 and 29 October 1997.
- K. Wills, Engineering Technician, demobilized 30 October 1997.
- A. Zargaran, Engineering Technician, demobilized 29 October 1997.
- J. Lepkowski, Engineering Technician, demobilized 28 October 1997.
- N. Meekins, Senior Soils Technician, departed 31 October 1997.

HEALTH AND SAFETY

- "Response to Safe Work Plan (SWP) Branch Project Audit Report," corrective actions are in progress.
- FDF finding of improper storage of S. Quammen's dosimeter. Meetings were conducted and documentation tracked. Additionally all GeoSyntec personnel have been reminded of the proper use and storage of dosimeters.
- FDF to advise should the wearing of dosimeters be required outside controlled areas when troxler gauges are in use. GeoSyntec personnel routinely wear troxler provided dosimeters when gauges are in use.
- FDF conducted a Rad scan at the on site facility where troxler gauges are stored when not in service. Readings were found below allowable tolerances.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 02 November 1997

- On 31 October 1997 work was proceeding in cell No. 1 after sunset. One light plant was operable. FDF Safety and Health officer was present and indicated that lighting was insufficient. On 01 November 1997 all concerned parties were advised that work would not proceed without adequate lighting, additionally, reflective gear must be dawned and flashlights in use as appropriate.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 16 November 1997

The following covers the period from 03 through 16 November 1997.

Site conditions remained wet with 1.75 inches of additional rainfall recorded. Temperatures ranged from twenty-eight to seventy degrees Fahrenheit.

LEACHATE CONVEYANCE SYSTEM

The contractors, Village Building Services, Inc. (VBS), Wise Construction Company (WISE) and Diaz Construction Company (DIAZ) performed the following.

- Hydroseeded south of lift station.
- Attempted hydrostatic pressure test 4" carrier pipe, lift station to COMH No. 11.
- Dewatered where applicable.
- Completed installation of lift station pump controls and alarms.
- Completed electrical tie-in, control panels at lift station.
- Completed forming and reinforcement LCS/LDS-01 and 02.
- Placed concrete, LCS/LDS-01 and 02 slabs on grade and pipe piers.

ACTION/INFORMATION

B. L. Payne (BLP), Registered Land Surveyor, and contractors are performing survey associated with LCS installation.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 16 November 1997

- NCR 1700-010, extrusion on electrofusion coupling. Issued 15 October 1997. Status open, FDF to respond following results of hydrostatic pressure testing.
- A leak of the 6" gravity line pipe has been detected. Efforts are proceeding to locate and repair the leak.
- Hydrostatic pressure test of 4" HDPE carrier pipe, lift station to COMH No. 11 did not meet specification requirements. Scheduled for retest 17 November 1997.
- NCR 1700-005, response received by CQC site manager. Status, open with FDF for response.
- VBS to complete hydrostatic pressure testing.

Geosyntec Consultants provided the following services:

- Monitored, documented and photographed contractor activities.
- Performed in-place nuclear moisture/density tests on backfill soils.
- Monitored areas to receive concrete; subgrade surface, form work and reinforcing where applicable.
- Monitored deployment and compaction of backfill soils.
- Cast concrete cylinders and performed related tests. Compression testing in progress by FMSM of Cincinnati, Ohio.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 16 November 1997

PHASE ONE

The contractors, Petro Environmental Technologies (PET), Groundsafe Inc. (GSI) and Environmental Design and Construction, Inc. (EDCI) performed the following activities.

- Manually removed rock from in-place clay liner material. Fine graded clay liner using laser alignment equipment.
- Placed and compacted structural "compacted" fill material, access road northwest of LCS/LDS-01, <1' lift.
- Dewatered cell No. 1 following rains via LDS pipe to manhole No. 1. Temporary boot installed on LDS pipe.
- Resumed delivery of GCL.
- Completed deployment of secondary GML. Detailing and Q.C. remains.
- Excavated portions of cell 1 anchor trench, north berm and west berm.
- Granular bentonite (minimal) deployed by hand to fill voids in clay liner resulting from rock removal.
- Separated approved GCL rolls from non-approved rolls.
- Areas containing partially hydrated GCL were removed and replaced with additional GCL.
- Deployed geosynthetics, GCL, GML and geotextile.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 16 November 1997

- Geotextile seams were sewn.
- Approximately 353,043.5 square feet of GCL deployed as of 16 November 1997. Approximately 350,746.0 square feet of GML deployed as of 16 November 1997. Approximately 136,500.0 square feet of 10 oz. geotextile deployed as of 16 November 1997. Approximately 10,800.0 square feet of 16 oz. geotextile deployed as of 16 November 1997.
- Employed a helicopter to hover above cell No. 1 to assist in drying clay liner soils.
- Deployed "plastic" in the anchor trench in an effort to divert rain water from deployed GCL.
- Stockpiled granular drainage material (GDM), No. 78 aggregate.
- Removed GML used as temporary clay liner protective cover.
- Initiated deployment of granular drainage material, No. 78 aggregate.
- Deployed approximately 400 linear feet of LDS perforated pipe, drainage corridor.
- Initiated deployment of granular drainage material, No. 57 aggregate.

ACTION/INFORMATION

Hirsch and Associates, registered land surveyors, provided survey documentation via PET. Completed survey of secondary GML panels.

- Maintain compacted clay liner as per technical specification 02225 part 3.09, protection of work.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 16 November 1997

- Trampolining of geomembrane has been observed at north and south berms inside slope face at toe. Sufficient deployment of sandbags should be maintained at all times.
- A PVC tarp was employed in covering portions of clay liner from the elements.
- GCL rolls have been observed to be damaged during the process of relocating the rolls, resulting in repairs.
- PET completed submittal of GCL interface shear test results.
- GeoSyntec provided Hirsch and Associates an 11x17 inch secondary panel placement drawing for reference in surveying panel seams.
- Non-approved GCL inadvertently deployed at three locations. Removed and replaced with approved material at one location. Additional areas to be completed as weather permits.
- NCR 1702-007, Deployment of Non-Approved Clay Liner Material issued 14 October 1997. Status open, with FDF.
- NCR 1702-008, grain-size distribution of No. 78 aggregate, issued 5 November 1997. Status open, with FDF.
- PET removed temporary GML panels (four) directly deployed onto clay liner soils to "protect" the surface from anticipated rains.
- NCR 1702-009, Deployment of non-approved GCL, issued 12 November 1997. Status open, with FDF.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 16 November 1997

- GeoSyntec representatives have continually advised all concerned parties of the following.
  - Maintain sand bags on GML at toe(s) of berms, within anchor trench and edges exposed to uplift via wind.
  - Remove ponding water from anchor trench and saturated soils prior to backfilling.
  - Provide appropriate survey data for cell construction prior to deployment of succeeding components
  - Maintain granular drainage material (GDM) deployed within the cell free of "mud".
  - Procedures to control wrinkles during deployment of granular drainage material (GDM).
  - Protect GCL from hydration.
  - Removal of destructive samples, repairs and Q.C. of GML should follow deployment and production seaming in a timely manner.
  - Holes are not to remain uncovered in GML (i.e. open to the elements).

GeoSyntec Consultants provided the following services.

- Monitored, documented and photographed contractor activities.
- Assisted with the identification of >2" diameter rocks in clay liner material.
- Performed in-place nuclear moisture/density tests on backfill soils.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 16 November 1997

- Monitored and documented deployment of GCL, GML, geotextile and No. 78 and No. 57 aggregates.
- Monitored and documented fusion, extrusion, trial and production welding, non destructive testing and identified destructive sample locations.
- Monitored repairs to deployed GCL and GML.
- Inventoried arriving GCL.
- Reviewed and responded to survey documentation (top of clay).
- Geosynthetic clay liner (GCL) testing continues at GeoSyntec's Soil-Geosynthetic Interaction (SGI) laboratory.

Attended an FDF meeting 07 November 1997. GeoSyntec was advised of a second geosynthetics installer to arrive 10 November 1997. GeoSyntec indicated that all relevant submittals would be required. GeoSyntec reiterated that detailing of previously installed GML was paramount in facilitating timely deployment of geotextile and No. 78 aggregate. GeoSyntec reiterated the covering of clay liner as a protective measure against the elements. GeoSyntec staffing and schedule was reviewed. FDF could not confirm the implementation of a night shift. The status of GSI was also not confirmed. For additional details refer J. F. McMichen daily field report dated 07 November 1997.

Attended geosynthetics meeting conducted on 12 November 1997. Agenda, meeting roster and minutes by PET. Representatives of Fluor Daniel Fernald (Q.A. Dept.), PET, EDCI and GeoSyntec staff were in attendance. Initial phase meeting minutes of 20 October 1997 were reviewed. The writer did not attend the safety portion of the meeting. Following are some items discussed.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 16 November 1997

- Deployment of secondary GCL/GML scheduled for completion this date.
- PET to furnish EDCI with a list of approved GCL.
- EDCI asked what problems have been associated with GML welding. GeoSyntec indicated dust from GCL not being removed from GML prior to welding, welder cleaning and seaming, i.e. no assistance, speed of welding operations, possible pressure applied to seams and others previously stated.
- EDCI asked if there were any problems with the GML. GeoSyntec indicated that results of tests met specification requirements.
- EDCI has two vacuum boxes.
- Geosyntec will (if required) assist in locating existing areas on GML requiring detailing.
- EDCI to deploy geosynthetics on west berm.

Attended a scheduled meeting on 06 November 1997 focusing on deployment of granular drainage material (GDM) No. 78 and No. 57 aggregate. In attendance were representatives of FDF and PET (construction and QA) and GeoSyntec (CQC and Resident Engineer). In synopsis, Pet proposed deployment via conveyors affixed above one foot of GDM and plywood and spreading by use of LGP dozer. GeoSyntec suggested constructing minimum three foot "haul roads" of No. 78 aggregate (locations presented on a drawing), use of articulated trucks, LGP dozers and LGP trackhoe (used in "spotting" No. 78 aggregate onto GML to decrease wrinkling). GeoSyntec discussed methods to control wrinkling of GML, wrinkle repair procedures and methods of grade control. PET to submit a deployment procedure. For additional details refer J. F. McMichen daily report dated 06 November 1997.

GEOSYNTEC PERSONNEL SCHEDULE

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LEACHATE CONVEYANCE SYSTEM WEEK ENDING: 16 November 1997

- M. Monteleone, National Field Services Manager, on site 11 and 12 November 1997.
- K. Cargill, Team Leader, on site 5, 11 and 12 November 1997.
- J. P. Giroud, Team Member Management Assessment Group (MAG), on site 7 November 1997.
- B. Nagel, Senior Geosynthetics Technician, off site 8 through 16 November 1997.
- D. Bodine, Resident Engineer, off site 7, 8, and 12 through 16 November 1997.
- N. Meekins, Senior Soils Technician, returned 31 October 1997.
- J. Beech, Principal in Charge, on site 11 through 13 November 1997.

HEALTH AND SAFETY

- "Response to Safe Work Plan (SWP) Branch Project Audit Report," corrective actions are in progress.
- Geosyntec technicians continue to attend contractor safety meetings.
- With freezing temperatures upon us one of the safety topics of concern is frostbite.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LCS/ OSDF PHASE ONE WEEK ENDING: 23 November 1997

The following covers the period from 17 through 23 November 1997.

Site conditions remained wet with 0.6 inches of rainfall and 0.1 inches of ice recorded. Temperatures ranged from sixteen to fifty-eight degrees Fahrenheit.

LEACHATE CONVEYANCE SYSTEM

The contractors, Village Building Services, Inc. (VBS), Wise Construction Company (WISE) and Diaz Construction Company (DIAZ) performed the following.

- Attempted hydrostatic pressure test 4" carrier pipe, lift station to COMH No. 11.
- Completed forming and reinforcement LCS/LDS-03.
- Placed concrete, LCS/LDS-03 slab on grade.
- Placed and compacted backfill soils.
- Installed electro-fusion couplings.

ACTION/INFORMATION

- NCR 1700-010, extrusion on electrofusion coupling. Issued 15 October 1997. Status open, FDF to respond following results of hydrostatic pressure testing.
- A leak of the 6" gravity line pipe has been detected. Efforts are proceeding to locate and repair the leak.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LCS/ OSDF PHASE ONE WEEK ENDING: 23 November 1997

- Retest of hydrostatic pressure test of 4" HDPE carrier pipe, lift station to COMH No. 11 did not meet specification requirements.
- NCR 1700-005; status open with FDF for response.
- VBS to complete hydrostatic pressure testing.

Geosyntec Consultants provided the following services.

- Monitored, documented and photographed contractor activities.
- Performed in-place nuclear moisture/density tests on backfill soils.
- Monitored areas to receive concrete; subgrade surface, form work and reinforcing where applicable.
- Monitored deployment and compaction of backfill soils.
- Cast concrete cylinders and performed related tests. Compression testing in progress by FMSM of Cincinnati, Ohio.

PHASE ONE

The contractors, Petro Environmental Technologies (PET), Groundsafe Inc. (GSI) and Environmental Design and Construction, Inc. (EDCI) performed the following activities.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LCS/ OSDF PHASE ONE WEEK ENDING: 23 November 1997

- Dewatered cell No. 1 following rains via LDS pipe to manhole No. 1.
- Continued delivery of GCL.
- Removed 50 rolls of non-approved GCL from site.
- Detailing and Q.C. of secondary GML in progress.
- Completed excavation of cell 1 anchor trench.
- Granular bentonite approximately 1 lb./square foot was deployed as specified at liner box locations.
- Removed conveyors from cell No. 1.
- Areas containing partially hydrated GCL were removed and replaced with additional GCL.
- Deployed secondary geosynthetics, GCL, GML and geotextile. Performed related detailing (i.e. repairs, removal of destructive samples and Q.C.)
- Initiated backfilling of anchor trench.
- Installed three of the five liner penetration boxes.
- Initiated deployment of LCS drainage corridor "bottom" supplemental geotextile cushion, primary GCL and GML.
- Geotextile seams were sewn or "wedge welded".
- Approximately 34,485 square feet of primary GCL deployed as of 23 November. Approximately 32,514 square feet of primary GML deployed as of 23 November.

000390

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LCS/ OSDF PHASE ONE WEEK ENDING: 23 November 1997

- Deployed "plastic" in the anchor trench in an effort to divert rain water from deployed GCL.
- Performed pressure testing, liner penetration boxes.
- Stockpiled granular drainage material (GDM), No. 78 aggregate.
- Deployed granular drainage material, No. 78 aggregate and fine graded by use of laser alignment equipment.
- Continued installation of LDS perforated HDPE pipe, drainage corridor.
- Deployed granular drainage material, No. 57 aggregate and fine graded by use of laser alignment equipment.
- Completed deployment of secondary GCL and GML.
- Installed electrofusion coupling, LDS liner box.

ACTION/INFORMATION

Hirsch and Associates, registered land surveyors, provided survey documentation via PET.

- Groundsafe Inc. (GSI) demobilized 20 November 1997. EDCI to complete secondary GML detailing and Q.C.
- "Spacers" installed in lieu of fixed end seals, liner penetration boxes.
- EDCI experienced difficulties in vacuum box testing due to equipment malfunctions.

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FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LCS/ OSDF PHASE ONE WEEK ENDING: 23 November 1997

- A PVC tarp was employed in covering portions of GCL from the elements.
- GCL rolls have been observed to be damaged during the process of relocating the rolls, resulting in repairs.
- Non-approved GCL inadvertently deployed at three locations. Removed and replaced with approved material.
- NCR 1702-007, Deployment of Non-Approved Clay Liner Material issued 14 October 1997. Status open, with FDF.
- NCR 1702-008, grain-size distribution of No. 78 aggregate, issued 5 November 1997. Status open, with FDF.
- NCR 1702-009, Deployment of non-approved GCL, issued 12 November 1997. Status open, with FDF.
- GeoSyntec representatives have continually advised all concerned parties of the following.
    - Maintain sand bags on GML at toe(s) of berms, within anchor trench and edges exposed to uplift via wind.
    - Remove ponding water from anchor trench and saturated soils prior to backfilling.
    - Provide appropriate survey data for cell construction prior to deployment of succeeding components
    - Maintain granular drainage material (GDM) deployed within the cell free of "mud".
    - Procedures to control wrinkles during deployment of granular drainage material (GDM).

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LCS/ OSDF PHASE ONE WEEK ENDING: 23 November 1997

- Protect GCL from hydration.
- Removal of destructive samples, repairs and Q.C. of GML should follow deployment and production seaming in a timely manner.
- Holes are not to remain uncovered in GML (i.e. open to the elements).

GeoSyntec Consultants provided the following services.

- Monitored, documented and photographed contractor activities.
- Performed in-place nuclear moisture/density tests on clay liner soils, anchor trench.
- Monitored pressure testing, liner penetration boxes.
- Monitored and documented deployment of GCL, GML, geotextile and No. 78 and No. 57 aggregates.
- Monitored and documented fusion, extrusion, trial and production welding, non destructive testing and identified destructive sample locations.
- Monitored repairs to deployed GCL and GML.
- Inventoried arriving GCL.
- Reviewed and responded to survey documentation (top of LDS). Review continues as documentation is submitted.
- Geosynthetic clay liner (GCL) testing at GeoSyntec's Soil-Geosynthetic Interaction (SGI) laboratory is complete.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LCS/ OSDF PHASE ONE WEEK ENDING: 23 November 1997

Attended impacted materials placement meeting conducted on 18 November 1997. Representatives of Fluor Daniel Fernald (FDF), Petro Environmental Technologies (PET) and GeoSyntec. Agenda, meeting roster and minutes by FDF. Following are some items of discussion, controlled and non-controlled entrance to cell No. 1, location of future impacted laboratory and its access, radiological issues and possible deployment of additional No. 78 aggregate.

GEOSYNTEC PERSONNEL SCHEDULE

- B. Jacobson, Staff Engineer, on site 20 and 21 November 1997.
- D. Bodine, Resident Engineer, returned 16 November 1997.
- J. Beech, Principal in Charge, on site 18 November 1997.
- S. Quammen, Engineering Technician, departed 20 November 1997.

HEALTH AND SAFETY

- "Response to Safe Work Plan (SWP) Branch Project Audit Report," corrective actions are in progress.
- Geosyntec technicians continue to attend contractor safety meetings.
- Impacted materials safe work plan in progress.

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FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LCS/ Phase One Construction WEEK ENDING: 14 December 1997

The following covers the period from 08 through 14 December 1997.

Site conditions remained wet. Temperatures ranged from twenty-nine to forty-four degrees Fahrenheit. Rain for the week was measured at 1.0 inches with approximately 0.5 inches of snow.

LEACHATE CONVEYANCE SYSTEM

The contractors, Village Building Services, Inc. (VBS), Wise Construction Company (WISE) and Diaz Construction Company (DIAZ) performed the following.

- Continued to excavate,locate and repair leaks discovered in LCS piping north of lift station.
- Hydrostatically and air pressure tested sections of gravity-line.
- Backwelded electro-fusion couplings.
- Installed electro-fusion couplings.

ACTION/INFORMATION

- NCR 1700-010, extrusion on electrofusion coupling. Issued 15 October 1997. Status open, FDF to respond following results of hydrostatic pressure testing.
- Several leaks in the 6" and 10" gravity line pipe have been detected. Efforts are proceeding to locate and repair the leak.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LCS/ Phase One Construction WEEK ENDING: 14 December 1997

- Retest of hydrostatic pressure test of 4" HDPE carrier pipe, lift station to COMH No. 11 met DCN No. 1700-077 requirements.
- NCR 1700-005; status open with FDF for response.
- VBS to complete hydrostatic and air pressure testing.
- LCS/LDS No. 1, concrete pad has been removed to facilitate repairs at HDPE pipe couplings, repairs in progress.

Geosyntec Consultants provided the following services.

- Monitored electrofusion and extrusion welding.
- Monitored, documented and photographed contractor activities.
- Performed field nuclear density tests on backfill soils.
- Monitored hydrostatic and air pressure tests, various locations.

PHASE ONE

The contractors, Petro Environmental Technologies (PET), and Environmental Design and Construction, Inc. (EDCI) performed the following activities.

- Completed deployment of primary geosynthetics, GCL, and GML. Performed related detailing (i.e. repairs, removal of destructive samples and Q.C.).

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FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LCS/ Phase One Construction WEEK ENDING: 14 December 1997

- Initiated deployment of primary geotextile cushion.
- Repaired areas of damaged GCL and GML.
- Initiated deployment of LCS and corridor GDM.
- Completed backfilling of anchor trench (secondary).
- Initiated backfilling of anchor trench (primary).
- Received GCL shipments; material for cell No. 2.
- Completed removal of rejected GCL from site.
- Mucked out primary anchor trench.
- Geotextile seams were sewn and heat bonded.
- Removed ponded water, ice, and snow from cell 1.
- Approximately 356,552 square feet of primary GCL deployed as of 14 December. Approximately 353,300 square feet of primary GML deployed as of 14 December.
- Stockpiled granular drainage material (GDM), No. 78 aggregate.
- Deployed granular drainage material, No. 78 and No. 57 aggregate and fine graded by use of laser alignment equipment.
- Initiated installation of LCS perforated HDPE pipe.

000397

COPY TO: MWG, DBG, REH, MJH, JCJ, GKJ, UAK, RLM PER: J.F. McMICHEN

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LCS/ Phase One Construction WEEK ENDING: 14 December 1997

ACTION/INFORMATION

Hirsch and Associates, registered land surveyors, provided survey documentation via PET.

- "Double shift" (night shift) scheduled to begin on or about 18 December 1997. Activities at night to be limited to excavation and deployment of "east stockpile" soils.
- NCR 1702-007, Deployment of Non-Approved Clay Liner Material issued 14 October 1997. Status closed.
- NCR 1702-009, Deployment of non-approved GCL, issued 12 November 1997. Corrective action taken, status closed.
- GeoSyntec representatives have continually advised all concerned parties of the following.
  - Maintain sand bags on GML at toe(s) of berms, within anchor trench and edges exposed to uplift via wind.
  - Remove ponding water from anchor trench and saturated soils prior to backfilling.
  - Provide appropriate survey data for cell construction prior to deployment of succeeding components
  - Maintain granular drainage material (GDM) deployed within the cell free of "mud".
  - Procedures to control wrinkles during deployment of granular drainage material (GDM).

000398

COPY TO: MWG, DBG, REH, MJH, JCJ, GKJ, UAK, RLM PER: J.F. McMICHEN

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LCS/ Phase One Construction WEEK ENDING: 14 December 1997

- Protect GCL from hydration.
- Removal of destructive samples, repairs and Q.C. of GML should follow deployment and production seaming in a timely manner.
- Holes are not to remain uncovered in GML (i.e. open to the elements).

GeoSyntec Consultants provided the following services.

- Monitored, documented and photographed contractor activities.
- Performed in-place nuclear moisture/density tests on clay liner soils, anchor trench.
- Monitored and documented deployment of GCL, GML, geotextile and No. 78 and No. 57 aggregates.
- Monitored and documented fusion, extrusion, trial and production welding, non destructive testing and identified destructive sample locations.
- Reviewed primary and secondary geosynthetics documentation.
- Prepare and ship destruct samples to MTL.
- Inventory deliveries of GCL.
- Attend all hands meeting for impacted materials placement.
- Monitored repairs to deployed GCL and GML.
- Obtained soils samples, "east stockpile", moisture-density relationships in progress.

000399

COPY TO: MWG, DBG, REH, MJH, JCJ, GKJ, UAK, RLM PER: J.F. McMICHEN

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LCS/ Phase One Construction WEEK ENDING: 14 December 1997

GEOSYNTEC PERSONNEL SCHEDULE

- J. McMichen, Site Manager, returned 7 December 1997.
- K. Cargill, Team Leader, on site 10 and 11 December 1997.
- J. Lepkowski, scheduled to demobilize 19 December 1997.
- B. Nagel, scheduled to depart 22 December 1997.
- N. Meekins, scheduled to demobilize 19 December 1997.
- J. McMichen, scheduled to depart 19 December 1997 and return 8 January 1997.

HEALTH AND SAFETY

- "Response to Safe Work Plan (SWP) Branch Project Audit Report," corrective actions are in progress.
- Geosyntec technicians continue to attend contractor safety meetings.
- Completed impacted materials safe work plan.
- Health & Safety meeting conducted on 10 December 1997; refer attached meeting notes.

Note: Correction to weekly report period ending 07 December 1997. Phase One, item number ten indicates 29 December; correct to read 29 November 1997.

000400

COPY TO: MWG, DBG, REH, MJH, JCJ, GKJ, UAK, RLM PER: J.F. McMICHEN

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

MEETING SIGN-IN SHEET

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: OSDF DATE: 10 day 12 month 97 year

SUBJECT: Health & Safety Meeting REFERENCE NO.

NAME	ORGANIZATION	TELEPHONE
Rob Riddiford	GeoSyntec	648-3417
Bill NAGEL	GEOSYNTEC	(516) 648-3418
SCOTT QUAMMEN	GEOSYNTEC	"
Jennifer Degnoughi	Geosyntec	"
[illegible]	GeoSyntec	" 3416
[illegible]	GeoSyntec	3419
[illegible]	"	3418
[illegible]	"	3419
[illegible]	"	X.3418

000401

NOTE: FOR FIRST TIME ATTENDEES, PLEASE ATTACH A BUSINESS CARD.

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LCS/ Phase One Construction WEEK ENDING: 14 December 1997

10 December 1997

The following Health & Safety issues were discussed during the weekly Health & Safety meeting:

1. Working during cold weather conditions.

   - Everyone was reminded to be aware of frostbite and it's warning signals.

2. A review of slips, trips and falls

   - Remember to keep all aisles and walkways free of debris and clutter.
   - A reminder that the yellow 5-gallon buckets outside of all the trailers contains calcium chloride and may be used by anyone to keep the outdoor walkways and steps clear of ice and snow.

3. Working in low light conditions

   - Always wear your reflective vest when working at or beyond dusk.
   - Carry a flashlight with you when working at or beyone dusk

000402

COPY TO: MWG, DBG, REH, MJH, JCJ, GKJ, UAK, RLM PER: J.F. McMICHEN

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LCS/PHASE ONE CONSTRUCTION WEEK ENDING: 21 DECEMBER 1997

The following covers the period from 15 through 21 December 1997.

Site conditions experienced gradual drying during the week; with heavy frost/freeze (and subsequent thawing on a daily basis). Temperatures ranged from eighteen to fifty-seven degrees Fahrenheit. No precipitation was recorded on site during the work week. Rain returned to the site on 21 December 1997 (late evening period).

LEACHATE CONVEYANCE SYSTEM

The contractors, Village Building Services, Inc. (VBS), Wise Construction Company (WISE) and Diaz Construction Company (DIAZ) performed the following.

- Located and repaired leaks in the LCS piping located north of lift station.
- Hydrostatically and air pressure tested sections of gravity-line (e.g., portion of LCS line between LCS-01 and LCS-02 manhole locations).
- Installed electro-fusion couplings (e.g., connected cell 1 LCS primary and LCS primary redundant cell 1 perforated HDPE collection pipes to corresponding inlet end of primary liner penetration boxes).
- Completed backfilling and compacting around LCS/LDS-01 with pipe embedment, manhole embedment and structural fill materials.
- Completed installation re-construction of LCS/LDS manhole (MH-01) support slab/pad.

ACTION/INFORMATION

- Several leaks in the 6" and 10" gravity line pipe, previously detected, have been repaired.

000403

COPY TO: MWG, DBG, REH, MJH, JCJ, GKJ, UAK, RLM PER: B. NAGEL

RMT, LRW, WAZ, DGB, BAE, HEM, KWC, DKP

RAH

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LCS/PHASE ONE CONSTRUCTION WEEK ENDING: 21 DECEMBER 1997

- NCR 1700-005, 1700-008 and 1700-010; status closed as of 22 December 1997.
- VBS to complete hydrostatic and air pressure testing.
- LCS/LDS No. 1. concrete pad has been removed to facilitate repairs at HDPE pipe couplings, repairs in progress.

Geosyntec Consultants provided the following services.

- Monitored electrofusion and extrusion welding.
- Monitored, documented and photographed contractor activities.
- Performed field nuclear density tests on backfill soils.
- Monitored hydrostatic and air pressure tests, various locations.
- Performed concrete testing on LCS/LDS-01 slab/pad structure.

PHASE ONE

The contractors, Petro Environmental Technologies (PET), and Environmental Design and Construction, Inc. (EDCI) performed the following activities.

- Completed detailing work on primary GML, including extrusive repairs and non-destructive testing (air pressure testing of fusion production seams, vacuum box testing of extrusive repair seams).

COPY TO: MWG, DBG, REH, MJH, JCJ, GKJ, UAK, RLM PER: B. NAGEL

RMT, LRW, WAZ, DGB, BAE, HEM, KWC, DKP

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LCS/PHASE ONE CONSTRUCTION WEEK ENDING: 21 DECEMBER 1997

- Removed ponded water and ice from cell 1 GML layer prior to primary geotextile cushion layer.
- Completed deployment and securement (single prayer stitching) of primary geotextile cushion and primary supplemental cushion layers
- Geotextile seams were sewn and repair areas were heat bonded.
- Repaired areas of damaged primary GCL and GML, resulting from contractor "contact" damage.
- Completed deployment and grading of LCS and corridor GDM.
- Received riprap material; temporarily staged for future deployment at east swale/channel (adjacent to the NE perimeter of cell 1 area).
- Mucked out/maintained primary anchor trench.
- Completed backfilling and compaction of anchor trench (primary).
- Received 7 oz./yd² geotextile shipments; material for cell No. 1/Phase One construction geotextile filter.
- Continued construction/installation of impacted material haul road, with no. 304 stone aggregate placement.
- Delivered to site and temporarily stockpiled granular drainage material (GDM), No. 78 aggregate and granular collection material (GCM), no. 57 aggregate at cell 2 location.
- Completed deployment of granular drainage material, No. 78 and No. 57 aggregate and fine grading using laser alignment equipment.

000405

COPY TO: MWG, DBG, REH, MJH, JCJ, GKJ, UAK, RLM PER: B. NAGEL

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LCS/PHASE ONE CONSTRUCTION WEEK ENDING: 21 DECEMBER 1997

- Completed installation of LCS primary and LCS primary redundant perforated HDPE collection pipe, overlying in-place primary geotextile cushion/supplemental cushion layers.
- Completed construction/installation of rain flap along west end of intercell berm (adjacent to catchment area).
- Completed deployment and securement of 7oz./yd² geotextile filter material.
- Completed trimming of primary geosynthetics along southern terminus/future cell 2 tie-in location and placed temporary protective plywood covering.
- Constructed portion of the cell 1 access ramp/haul road at southwest quadrant of cell 1 area (consisting of clay and compacted fill materials).
- Contractor placed catchment area "supplemental" 1-ft thick lift of LCS granular drainage material (GDM) no. 78 stone aggregate (remains to be fine graded and surveyed by contractor).

ACTION/INFORMATION

Hirsch and Associates, registered land surveyors, provided survey documentation via PET.

- "Double shift" (night shift) was reconsidered and altered to an extended shift tentatively scheduled to begin on 26 December 1997. Activities at night to be limited to excavation and deployment of "east stockpile" soils.
- GeoSyntec representatives have continually advised all concerned parties of the following.

000406

COPY TO: MWG, DBG, REH, MJH, JCJ, GKJ, UAK, RLM PER: B. NAGEL

RMT, LRW, WAZ, DGB, BAE, HEM, KWC, DKP

RAH

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LCS/PHASE ONE CONSTRUCTION WEEK ENDING: 21 DECEMBER 1997

- Remove ponding water from anchor trench and saturated soils prior to backfilling.
- Provide appropriate survey data for cell construction prior to deployment of succeeding components
- Maintain granular drainage material (GDM) deployed within the cell free of "mud" or clay clods/clumps.
- Procedures to control wrinkles during deployment of granular drainage material (GDM).

GeoSyntec Consultants provided the following services.

- Monitored, documented and photographed contractor activities.
- Performed in-place nuclear moisture/density tests on clay liner soils, primary anchor trench.
- Monitored and documented deployment of GML rain flap, geotextile and No. 78 and No. 57 aggregates.
- Monitored and documented extrusion, trial and production seaming and non-destructive testing.
- Reviewed primary and secondary geosynthetics documentation.
- Prepared and shipped final destructive sample (DP-47A) to MTL.
- Inventoried and conformance tested deliveries of geotextile filter (conformance samples GT-07-04, 05, 06, 07 and 08).
- Monitored repairs to primary GCL and GML.

000407

COPY TO: MWG, DBG, REH, MJH, JCJ, GKJ, UAK, RLM PER: B. NAGEL

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LCS/PHASE ONE CONSTRUCTION WEEK ENDING: 21 DECEMBER 1997

- Completed "east stockpile" moisture-density relationships standard proctors (ASTM D 698-A), testing performed on-site {IM-01, 02 and 03}.

GEOSYNTEC PERSONNEL SCHEDULE

- K. Cargill, Team Leader, on site 16 and 17 December 1997.
- J. Lepkowski, demobilized 19 December 1997.
- B. Nagel, scheduled to depart 22 December 1997, to return 29 December 1997.
- N. Meekins, demobilized 19 December 1997.
- J. McMichen, departed 19 December 1997 and is scheduled to return 8 January 1998.
- S. Quammen, scheduled to depart 29 December 1997 and return 25 January 1998.
- D. Bodine, scheduled to depart 23 December 1997 and return 29 December 1997.
- B. Erisman, S. Quammen and R. Peddicord will staff project through the holiday.

HEALTH AND SAFETY

- "Response to Safe Work Plan (SWP) Branch Project Audit Report," corrective actions are in progress.
- Geosyntec technicians continue to attend contractor safety meetings.
- Distributed impacted materials safe work plan.

000408

COPY TO: MWG, DBG, REH, MJH, JCJ, GKJ, UAK, RLM PER: B. NAGEL

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LCS/PHASE ONE CONSTRUCTION WEEK ENDING: 21 DECEMBER 1997

Note: Correction to weekly report period ending 14 December 1997. GeoSyntec Personnel Schedule number five indicates 8 January 1997; correct to read 8 January 1998.

Note: Guy Montform (TetraTech)-US EPA representative on-site to review CQC primary geosynthetics documentation.

COPY TO: MWG, DBG, REH, MJH, JCJ, GKJ, UAK, RLM PER: B. NAGEL

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LCS/PHASE ONE CONSTRUCTION WEEK ENDING: 28 DECEMBER 1997

The following covers the period from 22 through 28 December 1997.

Site conditions remained wet. Temperatures ranged from thirty to forty-seven degrees Fahrenheit. Rain for the week was measured at 1.4 inches.

LEACHATE CONVEYANCE SYSTEM

The contractors, Village Building Services, Inc. (VBS), Wise Construction Company (WISE) and Diaz Construction Company (DIAZ) performed the following.

- LCS system close-out items and project clean up.

PHASE ONE

The contractors, Petro Environmental Technologies (PET), and Environmental Design and Construction, Inc. (EDCI) performed the following activities.

- Completed deployment of primary geotextile. Performed related detailing (i.e. repairs, removal of debris and Q.C.)
- Completed placement and grading of leachate collection system layer # 78 aggregate.
- Geotextile seams were sewn.
- Deployed granular drainage material, No. 78 and No. 57 aggregate and fine graded by use of laser alignment equipment on intercell berm DCN

ACTION/INFORMATION

000410

COPY TO: MWG, DBG, REH, MJH, JCJ, GKJ, UAK, RLM PER: B. ERISMAN

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LCS/PHASE ONE CONSTRUCTION WEEK ENDING: 28 DECEMBER 1997

Hirsch and Associates, registered land surveyors, provided survey documentation via PET.

- GeoSyntec representatives have continually advised all concerned parties of the following.
  - Provide appropriate survey data for cell construction prior to deployment of succeeding components
  - Maintain granular drainage material (GDM) deployed within the cell free of "mud".
  - Procedures to control wrinkles during deployment of granular drainage material (GDM).

GeoSyntec Consultants provided the following services.

- Monitored, documented and photographed contractor activities.
- Monitored and documented deployment of GML, geotextile and No. 78 and No. 57 aggregates.
- Attend all hands meeting for impacted materials placement.
- Monitored repairs to deployed geotextile cushion.
- Completed soils samples, "east stockpile", moisture-density relationships in progress.

000411

COPY TO: MWG, DBG, REH, MJH, JCJ, GKJ, UAK, RLM PER: B. ERISMAN

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LCS/PHASE ONE CONSTRUCTION WEEK ENDING: 28 DECEMBER 1997

GEOSYNTEC PERSONNEL SCHEDULE

- B. Nagel, scheduled to depart 22 December 1997 and return 29 December 1997.
- J. McMichen, scheduled to return 8 January 1997.
- S. Quammen to depart 29 December 1997 and return 25 January 1998.

HEALTH AND SAFETY

- "Response to Safe Work Plan (SWP) Branch Project Audit Report," corrective actions are in progress.
- Geosyntec technicians continue to attend contractor safety meetings.
- Completed impacted materials safe work plan.
- Health & Safety meeting conducted on 27 December 1997; refer attached meeting notes.

000412

COPY TO: MWG, DBG, REH, MJH, JCJ, GKJ, UAK, RLM PER: B. ERISMAN

Meeting minutes dated 10 December were reviewed with additional comments as noted in item No. 4 & No. 5.

The following Health & Safety issues were discussed during the weekly Health & Safety meeting:

1. Working during cold weather conditions.
    - Everyone was reminded to be aware of frostbite and it's warning signs.
2. A review of slips, trips and falls
    - Remember to keep all aisles and walkways free of debris and clutter.
    - A reminder that the yellow 5-gallon buckets outside of all the trailers contains calcium chloride and may be used by anyone to keep the outdoor walkways and steps clear of ice and snow.
3. Working in low light conditions
    - Always wear your reflective vest when working at or beyond dusk.
    - Carry a flashlight with you when working at or beyond dusk.
4. Truck traffic and heavy equipment
    - Remember to wear your hearing PPE
    - Keep at least 25 feet distance from vehicles
5. Impacted materials safety review

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LCS/PHASE ONE CONSTRUCTION WEEK ENDING: 04 January 1998.

The following covers the period from 29 December 1997 through 04 January 1998.

Site conditions remained near the freezing mark during the week; with snow squalls and hard frost/freeze observed at the site. Temperatures ranged from twenty-two to forty-nine degrees Fahrenheit. Approximately 1 inch of snow was recorded on site during the week. Above freezing temperatures returned to the site on 02 January 1998.

LEACHATE CONVEYANCE SYSTEM

The contractors, Village Building Services, Inc. (VBS), Wise Construction Company (WISE) and Petro Environmental's (PET's) video inspection subcontractor performed the following.

- Completed video inspection on portions of the Cell 1 LCS, LCS redundant and LDS gravity leachate collection lines.
- Located and removed a deflated soft rubber plug, apparently left in the gravity line from previous air pressure testing activities, from the LCS gravity discharge line. The plug was removed/extracted from LCS MH-01 access point location.
- Indicated that MH-01 location LCS/LDS clean-out blank flanges, located within close proximity of the base of the housing structures, are inhibiting repositioning and resecurement of the anchoring bolts. Corrective action will be scheduled.

ACTION/INFORMATION

- NCR 1700-005, 1700-008 and 1700-010, status closed.

000414

COPY TO: MWG, DBG, REH, MJH, JCJ, GKJ, UAK, RLM PER: B. NAGEL

RMT, LRW, WAZ, DGB, BAE, HEM, KWC, DKP
RAH

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LCS/PHASE ONE CONSTRUCTION WEEK ENDING: 04 January 1998.

Geosyntec Consultants provided the following services.

- Monitored video inspection of portions of LCS/LDS gravity drainage collection lines, as well as efforts to remove the plug from LCS gravity line.
- Monitored, documented and photographed contractor activities.

PHASE ONE

The contractor, Petro Environmental Technologies (PET), performed the following activities.

- Completed transport hauling, grading and certification of impacted material - lift 1- in Cell 1 (placed at a thickness of approximately 12" to 15", with tracking of the placed material performed to achieve design compaction of the material).
- Completed placement and compaction (with verification testing) of lift 1 clay wedge, approximately 1' thickness from primary anchor trench to crest of slope (butting up to upper edge of the impacted material).
  Lift 2 clay wedge was temporarily placed over the initial lift clay wedge, without scarification nor surface preparation (e.g., removal of frozen surface materials, snow and ice accumulation, etc.). {Hence the material bonding and permeability/compaction considerations have not been achieved/realized}. The material lift to be removed and reworked in the future at a more appropriate time.
- Continued to place protective cover material over remaining uncovered portions of the south slope of the cell 1/2 intercell berm.
- Placed/sprayed surfactant over in-place lift 1 impacted material within cell 1 area.

000415

COPY TO: MWG, DBG, REH, MJH, JCJ, GKJ, UAK, RLM PER: B. NAGEL

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LCS/PHASE ONE CONSTRUCTION WEEK ENDING: 04 January 1998.

- Completed construction installation/backfilling of GML rain flap along the west end of the intercell berm (adjacent to the catchment area).

ACTION/INFORMATION

Hirsch and Associates, registered land surveyors, provided survey documentation via PET.

- GeoSyntec representatives have continually advised all concerned parties of the following.

  - Provided appropriate survey data for cell construction.
  - Alerted construction manager/contractor to partial displacement of protective plastic sheeting from GCL bentofix material geosynthetic staging area material stockpile.

GeoSyntec Consultants provided the following services.

- Monitored, documented and photographed contractor activities.
- Performed in-place nuclear moisture/density tests on (screened clay liner material) lift-1 clay wedge.
- Monitored and documented positioning and backfilling of GML rain flap and protective cover materials.

000416

COPY TO: MWG, DBG, REH, MJH, JCJ, GKJ, UAK, RLM PER: B. NAGEL

RMT, LRW, WAZ, DGB, BAE, HEM, KWC, DKP

RAH

GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: GQ0166 TASK NO.: 04.1

DESCRIPTION: LCS/PHASE ONE CONSTRUCTION WEEK ENDING: 04 January 1998.

- Performed 1-point proctor check plug for screened clay liner material, lift-1 clay wedge.
- Conformance testing of geotextile filter (conformance samples GT-07-04, 05, 06, 07 and 08) currently in progress.
- Checked frost depth penetration into in-place clay wedge material.
- Completed "east stockpile" moisture/density relationship standard proctor (ASTM D 698 A), testing performed on-site for impacted material sample IM-03.

GEOSYNTEC PERSONNEL SCHEDULE

- B. Nagel returned to site on 29 December 1997.
- J. McMichen is scheduled to return to site on 08 January 1997.
- S. Quammen is scheduled to return to site on 25 January 1998.
- D. Bodine returned to site on 29 December 1997.
- R. Peddicord is scheduled to be off-site from 10 to 17 January 1998.
- B. Erisman and R. Peddicord will continue to staff the project.

Plans are to modify on-site staff to cover winter work activities. Activities are currently being discussed with the construction manager.

HEALTH AND SAFETY

- Geosyntec technicians continue to attend contractor safety meetings.

000417

COPY TO: MWG, DBG, REH, MJH, JCJ, GKJ, UAK, RLM PER: B. NAGEL

APPENDIX D:

MINUTES OF MEETINGS

MONTHLY CONSTRUCTION MEETINGS BETWEEN FLUOR DANIEL AND GEOSYNTEC

MISSION STATEMENT

What is the criteria for a Mission Statement?

- The Team's mission statement is clear and understandable to all team members.
- The mission statement is brief enough for most team members to keep it in mind
- The mission statement clearly specifies what the business of the team is:
  - What customer or client needs the team is attempting to fill, not what products or services are offered;
  - Who the team's primary customers are; and
  - How the team plans to go about its business; that is, what its primary technologies are.
- The mission statement should prioritize the goals and milestones of team effort.
- The mission statement should reflect attainable goals.
- The mission statement should reflect the team's distinctive competence.
- The mission statement should be broad to allow flexibility in process and action, but not so broad that it reduces the focus.
- The mission statement should support the means the team uses to make decisions/recommendations.
- The mission statement must be consistent with the values, beliefs, and philosophy of both the organization and the team.
- The mission statement should be worded so as to serve as an energy source and rallying point for the team.

ROLE OF THE FACILITATOR

- A neutral servant of the team.
- Focuses energy of the team on a common task.
- Suggests alternate methods.
- Protects individuals and their ideas from attack (with help from the team).
- Encourages participation.
- Helps the team find win-win situations.
- Will not take the responsibility for solving the team's problems - the answers are in the team.
- Will not pretend to know your business - does understand continuous improvement concepts and tools.
- May "shoot from the hip" to increase awareness. All comments are meant to be helpful.
- Ensures issues and results are documented for sharing with others.
- It's the team's responsibility to use the facilitation well.

OSDF PHASE I ALIGNMENT

Date: *April 21, 1997*

PARTICIPANTS

NAME	ORGANIZATION	FUNCTION	MS	PHONE
Jay Jalovec	DOE-FN	Project Mgr.	45	648-3122
Don Pfister	DOE-FN	Facility Rep.	45	648-3120
Rod Warner	DOE-FN	Team Leader	45	648-3156
Ron Baker	FDF	TQM Facilitator	80-5	648-6104
Larry Evans	FDF	TQM Co-Facilator	35	648-5376

OSDF PHASE I ALIGNMENT

April 21, 1997
7:30 - 4:00
Alpha "A"

A G E N D A

- Safety/TQM/Balance Topics
- Objectives of Alignment
- Overview
  - OSDF Phase I Integration Plan
- Safety Culture
- Expectations
- Mission
- Key Result Areas (KRA's)
- Critical Risks/Issues/Barriers
- Roles and Responsibilities
- Action Plans
  - Mitigate Risks
  - Measurement of KRA's
- Path Forward

KEY RESULT AREAS AND CRITICAL ACTIVITIES

What are Key Result Areas and Critical Activities?

- **Key Result Areas** are the elements that the team must deliver in order to succeed at making the vision a reality. They can make or break the success of the team. Each should be devoted to one issue. They may include several Critical Activities.

- **Critical Activities** are the actions/work processes necessary to achieve Key Result Areas. Critical actions are specific, action oriented and measurable. The groups will define these during the analysis process from the Key Result Areas.

Why do we want to identify Key Result Areas and Critical Activities?

- Key Result Areas and Critical Activities are the first steps in defining opportunities for improvement. They help us make our Vision a reality by leading us to focus on specific actions.

- After we have defined the Key Result Areas and Critical Activities, we determine the relative priorities of our actions based on the potential gains and risks for our partnership.

DEFINING ROLES AND RESPONSIBILITIES

WHY DO WE DEFINE ROLES AND RESPONSIBILITIES?

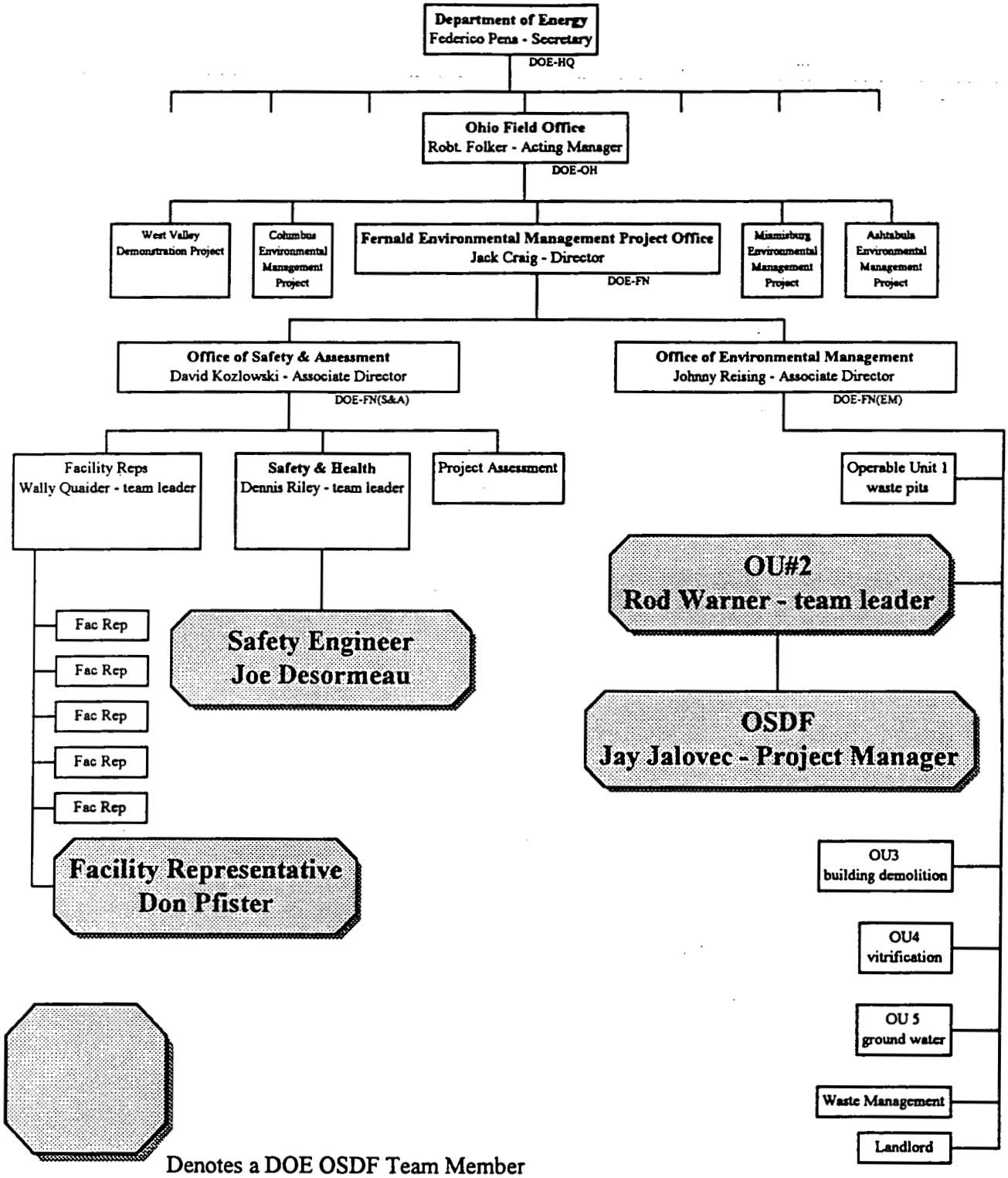
- To better organize in order to make the vision a reality.
- To better understand the jobs performed by other teams.
- To gain insight into how the job of one's own team is perceived by others.
- To clarify and refocus the team's role and responsibilities.
- To reduce potential conflicts with members of other teams.

HOW DO WE DEFINE ROLES AND RESPONSIBILITIES?

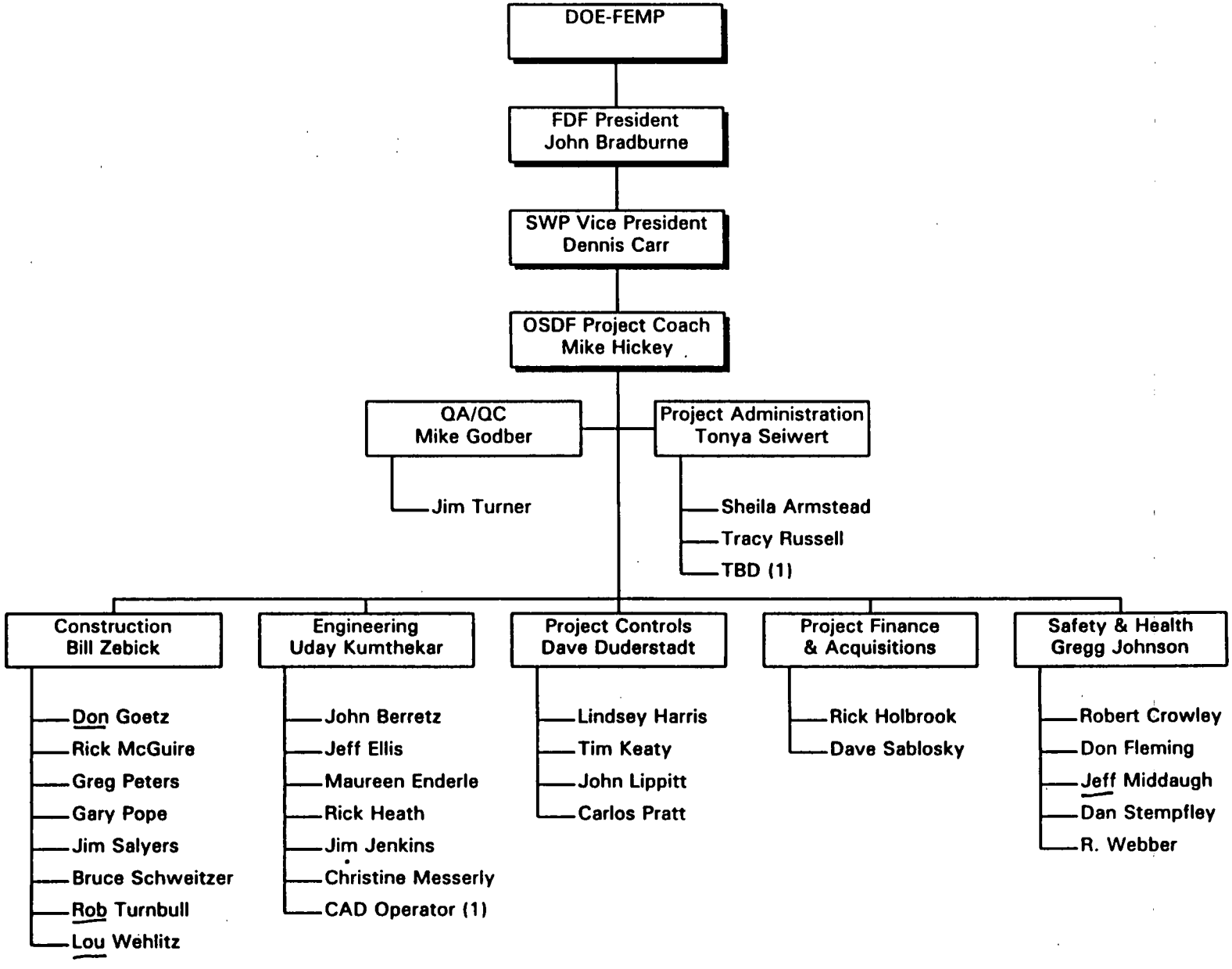
- Periodic feedback on how a team is perceived by others is beneficial in pointing our areas that need to be refocused and clarified.
- By clearly understanding the roles and responsibilities of our own team, as well as those of teams with whom we interface, we can maximize effectiveness of working relationships.

DEPARTMENT OF ENERGY
OSDF Phase I Project Team

04/16/97



SOIL AND WATER PROJECTS DIVISION
ON-SITE DISPOSAL FACILITY PROJECT
Organization Chart



000427

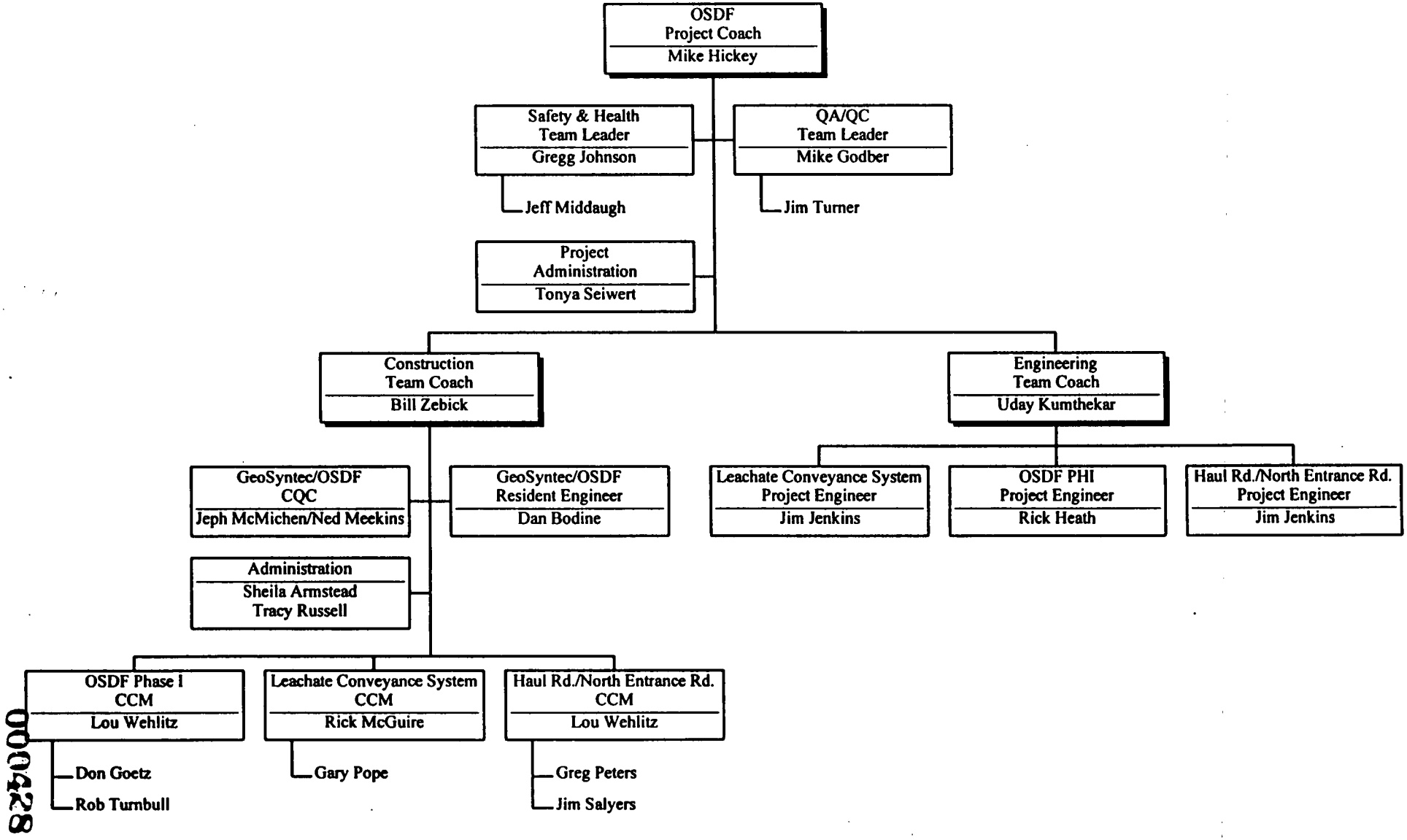
1264

OSDF-ORG.OPX

April 16, 1997

ON-SITE DISPOSAL FACILITY

PHASE I



EXPECTATIONS/KEY RESULT AREAS (KRA) FORM
(Expectations of your key stakeholders)
PROJECT ALIGNMENT SESSION

Please rank the following Key Result Areas on the importance of each factor to the success of your project.

	Rank	
◆ Cost Effectiveness	___	.....
◆ Quality	___	.....
◆ Timely Performance	___	.....
◆ Safety	___	.....
◆ Supplier Performance	___	.....
◆ Schedule/Milestones	___	.....
◆ Budget	___	.....
◆ Communication	___	.....
◆ Responsiveness	___	.....
◆ Process Improvement	___	.....
◆ Effective Utilization of Resources	___	.....
◆ Tasks Completed per the Agreed Upon Expectations	___	.....
◆ Team Performance/Teamwork	___	.....
◆ Equipment Deliveries	___	.....
● Construction	___	.....
◆ Environmental Compliance	___	.....
◆ Regulatory Compliance	___	.....
◆ Compliance to Requirements	___	.....
◆ Technology Application	___	.....
◆ Customer Satisfaction	___	.....
◆ Training	___	.....
◆ Integration	___	.....
◆ _____	___	.....
◆ _____	___	.....

TQM

"If an idea doesn't scare you a bit,
it probably isn't an idea at all"

Apple Computers

"My grandfather once told me that there are two kinds of people: those who do the work and those who take the credit. He told me to try to be in the first group; there was less competition there"

Indira Gandhi

BALANCE

"Keep in mind that you are always saying no to something. If it isn't to the apparent, urgent things in your life, it is probably to the more fundamental highly important things.

Even when the urgent is good, the good can keep you from your best: keep you from your unique contribution if you let it"

Steven Covey

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SAFETY EXCELLENCE

- TO ACHIEVE SAFETY EXCELLENCE OUR OSDF PROJECT TEAM MUST:
  - BE SUPPORTED & FOSTERED BY TOP MANAGEMENT
  - FORCE SUPERVISORY PERFORMANCE & ACCOUNTABILITY
  - ACTIVELY INVOLVE ALL TEAM MEMEBERS
  - BE INCLUDED IN ALL WORK ACTIVITIES
  - BE FLEXIBLE
  - BE PERCEIVED AS A POSITIVE EFFORT

FLUOR DANIEL FERNALD

SOILS & WATER PROJECTS SAFETY PHILOSOPHY

- All injuries can be prevented
- Employee involvement is necessary
- Project Management is responsible for preventing injuries
- Working safely is a condition of employment
- All construction & industrial exposures can be safeguarded
- Training employees to work safely is essential
- Prevention of personal injuries is good business
- Radiological Exposures must be maintained ALARA

EXPECTATIONS

- Demonstrate Your Commitment to Safety
- Conduct Safety Work Place Walk-Throughs
- Investigate ALL Events
- Identify and Communicate Findings/Corrective Actions
- Get Every Team Member Involved
- Hold Every Team Member Accountable

GOALS

- **ZERO** (0) UNPLANNED EVENTS
- **ZERO** (0) ACCIDENTS
- **ZERO** (0) INJURIES
- **ZERO** (0) OCCURRENCE REPORTS
- ESTABLISH A 24-HOUR A DAY SAFETY CULTURE FOR YOUR TEAM

000435

ACCOUNTABILITY

- OSDF TEAM COACHES/LEADERS ARE RESPONSIBLE FOR:
  - THEIR TEAM MEMBERS SAFETY
  - THE HOUSEKEEPING IN THEIR AREA
  - REPORTING & INVESTIGATING EVENTS
  - CONDUCTING WORK PLACE WALK-THROUGHS
  - MAKING SAFETY A PART OF THE JOB

ESSENTIAL SAFETY CONCEPTS FOR TEAM COACHES/LEADERS

- There is a relationship between the safety climate a coach or leader creates and demands and the overall success of that project
- Them vs. Us
  - a safety police relationship between management the workteam is counterproductive

ESSENTIAL SAFETY CONCEPTS FOR TEAM COACHES/LEADERS

- Teaching vs. Telling
  - Safety professionals by definition are answer getters-telling someone all the answers doesn't promote learning
  - A team coach/leader must be the tutor that helps the team member learn and practice safety

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ESSENTIAL SAFETY CONCEPTS FOR TEAM COACHES/LEADERS

- Soliciting ideas and opinions is a positive coaching role
  - The team member may be the best expert for the safety of the task they are asked to perform
- Positive recognition of acts is important
  - Is your safety program based on negative approaches or positive reinforcement
  - Are you waiting to zap someone for an unsafe act or remind them there is a safe way to work

000429

PROACTIVE

proactive \(,)pro-'AK-t.v.\ adj
[pro- + re active] :
acting in anticipation of future problems, needs, or changes

act \'akt\ n
a : the doing of a thing : deed
b : something done voluntarily

anticipation \(,)an-,ti-se-'pa-shen\ n
a : a prior action that takes into account or forestalls a later action
b : the act of looking forward; esp : pleasurable expectation
c : visualization of a future event or state

future \'fyue-cher\ adj
a : time that is to come
b : what is going to happen
c : an expectation of advancement or progressive development

problem \'prae-blem, -b e m, -,blem\ n
a : a question raised for inquiry, consideration, or solution
b : an intricate unsettled question
c : a source of perplexity, distress, or vexation

need \'ned\ n
a : necessary duty : obligation
b : a lack of something requisite, desirable, or useful
c : a condition requiring supply or relief

change \'chanj\ vb changed ; changing
a : to undergo transformation, transition, or substitution <winter changed to spring>
b : to give a different position, course, or direction to
c : to make radically different : transform <can't ~ human nature>

RECEIVED IN MY 1997 1264

John McMicken

Author: Ronald Baker at FNSP-02
Date: 4/28/97 1:23 PM
Priority: Normal
TO: Dan Bodine at FNST-04
TO: Mike Godber at FNST-04
TO: Don Goetz at FNST-03
TO: Rick Heath at FNST-02
TO: Michael Hickey at FNST-02
TO: Gregg Johnson at FNST-02
TO: Uday Kumthekar at FNST-02
TO: Jeff Middaugh at FNST-03
TO: Carlos Pratt at FNST-04
TO: Andrew Sablosky at FNST-01
TO: Bruce Schweitzer at FNST-03
TO: Rob Turnbull at FNST-03
TO: Louis Wehlitz at FNST-03
TO: Bill Zebick at FNST-02
TO: Jay Jalovec at FNST-06
TO: Don Pfister at FNST-06
TO: Rod Warner at FNST-06
TO: Larry Evans at FNST-04
CC: Ronald Baker
CC: Arlene Platania
Subject: OSDF Phase I Alignment Summary

---------- Message Contents ----------

Attached is the summary information generated at the April 21, 1997, alignment session for the OSDF Phase I Project. It includes the following information the team generated from the agenda topics:

* Agenda
* Participants
* Milestones
* Expectations
* Mission Statement
* Key Result Areas (Stakeholders/Expectations)
* Risks/Issues/Barriers
* Roles and Responsibilities
* Action Plans

Please advise on how we can further assist in the success of the project.

Ron Baker/Larry Evans
Facilitators

NOTE: We will mail hard copies to Petro Environmental and GeoSyntec

OSDF PHASE I ALIGNMENT

April 21, 1997
ALIGNMENT PARTICIPANTS

NAME	ORGANIZATION	FUNCTION	MS	PHONE
Jay Jalovec	DOE-FN	Project Mgr.	45	648-3122
Don Pfister	DOE-FN	Facility Rep.	45	648-3120
Rod Warner •	DOE-FN	Team Leader	45	648-3156
Ron Baker	FDF	TQM Facilitator	80-5	648-6104
Larry Evans	FDF	TQM Co-Facilator	35	648-5376

•Didn't attend Alignment

OSDF PHASE I MILESTONES

MILESTONE	SUGGESTED DATE	FIRM DATE
• Sedimentation Basin		6/30/97
• Start Excavation		7/01/97
• Complete Cell 1 Excavation and Berm	7/31/97	
• Complete Clay Liner	9/02/97	
• Complete Composite Liner	10/21/97	
• Complete Cover		11/26/97
• Complete Contract		12/31/97

OSDF PROJECT TEAM
MISSION STATEMENT

"AS OUR CONTRIBUTION TO THE OVERALL SITE RESTORATION, WE, THE OSDF TEAM, WILL SAFELY BUILD A HIGH QUALITY CERTIFIED OSDF, IN A TIMELY, COST EFFECTIVE MANNER THAT MEETS REQUIREMENTS EXPECTED BY OUR STAKEHOLDERS. THIS PROJECT SHALL BE INTEGRATED WITH OTHER OSDF PROJECTS."

KEY RESULT AREAS

1. **SAFETY**
2. **QUALITY**
3. **TEAMWORK**
4. **SCHEDULE/MILESTONES**

- POSITIVE PUBLIC RELATIONS
- COMMUNICATION
- COST EFFECTIVENESS
- CUSTOMER SATISFACTION
- ENVIRONMENTAL COMPLIANCE (CERTIFICATION)
- INTEGRATION
- FULL MOBILIZATION - 7/1/97
- SUBMITTALS

RISKS/ISSUES/BARRIERS
KRA #1
SAFETY
(Continued)

- Remote location of jobsite
- Construction zone with a highway
- Radiological hazards, potential
- Lack of security
- Lack of documentation
- Improper PPE

RISKS/ISSUES/BARRIERS
KRA #2
QUALITY
(Continued)

- Lack of quality environment
- Protect each others work
- Proper involvement of regulatory agencies
- Inattention to details
- Rushing to completion

RISKS/ISSUES/BARRIERS
KRA #4
SCHEDULE/MILESTONES

- Blow off the schedule
- Problems with good estimate
- Incomplete submittals
- Lack of commitment
- Team not agreeing with schedule and milestones
- Workers not understanding milestones
- Attitude to get off critical path
- Delivery of materials
- Unforeseen interferences
- Changes
- Submittal approvals
- Understanding critical activities
- Lack of transportation
- Poor safety practices
- Support Equipment
- Unrealistic schedule
- Not planning work and working your plan
- EPA certification
- Sense of urgency
- Manpower for equipment
- Poor weather conditions
- Lack of manufacturing quality control
- Lack of innovation
- Lack of proper support facilities
- Lack of integration with other projects
- Poor coordination of test results
- Interferences from outside forces
- Agreement of critical activities
- No schedule for "Murphy"
- Timely completion of site training
- Cultural artifacts
- Equipment maintenance
- Worker morale
- Not attending training, physicals when scheduled

ROLES AND RESPONSIBILITIES - DOE
Don Pfister

- Program money
- Program scope
- Project oversight
  - Safety
    - Personnel
    - Environment
    - Property
  - Scope
  - Schedule
- Occurrence/accident investigation

ROLES AND RESPONSIBILITIES - FDF
CONSTRUCTION/ENGINEERING MANAGEMENT

Construction	Engineering
• Lou Wehlitz	• Uday Kumthekar
• Don Goetz	• Rick Heath
• Rob Turnbull	

- Timely issuance of permits
- Timely submittals/reviews
- Timely turn-around of design changes/request for information (DCN's/RCI's)
- Monitoring field activities
- Project coordination
- Support environmental compliance groups
- Provide technical support
- Integration with other projects

ROLES AND RESPONSIBILITIES
CONTRACT ADMINISTRATION
Dave Sablosky

- Plans - execute - negotiate contract modification
- Release line items
- Contract interpretation
- Contract facilitation
- Invoice approval
- Contract correspondence
- Contract closeout
- Procurement authority

ROLES AND RESPONSIBILITIES - GeoSyntec
RESIDENT ENGINEERING
Dan Bodine

- Submittal review
- Design interpretation/clarification
- Field engineering
- Design changes
- Daily documentation
- Represent design engineer
- Technical expertise/advice
- Monitor as-built documentation
- OSDF certification

ROLES AND RESPONSIBILITIES - GeoSyntec
CQC - QUALITY CONTROL
Jeph McMichen

- Materials conformance testing
  - Soils
  - Geosynthetics
- Materials performance testing
  - Soils
  - Geosynthetics (geomembrane)
- Monitoring
  - Soils placement/excavation
  - Geosynthetics installation
- Daily Documentation
- Geosynthetic inventory/others
- Manufacturing QC document review
- Safety Awareness
- Technical expertise/advice
- Geomembrane panel layout drawings
- OSDF certification

ROLES AND RESPONSIBILITIES - PETRO ENVIRONMENTAL SCHEDULE/MILESTONES

Dave Williams
John Stacey

- Construct the OSDF and options
- Procure resources and materials to complete works
- Subcontractor/Supplier Administration
- Write and execute work plans safely
- Union contact
- Supervise daily activities of operators, laborers, and subcontractors
- Supervise foreman

ROLES AND RESPONSIBILITIES - PETRO ENVIRONMENTAL QUALITY CONTROL

Rick Schairbaum

- Complete project per contract documents/construction drawings
- Ensure all personnel are properly trained and understand required level of workmanship
- Instill proper and productive worker attitude toward quality control
- Ensure all submittals are complete and submitted within time milestones
- Ensure proper documentation of all required work aspects
- Work to build a productive and effective QC team with Petro, FDF, and GeoSyntec

ACTION PLANS		
KRA#1 - SAFETY		
Actions	Resp.	Date
* Ensure Proactive Safety Culture "Buy in" by all Employees (Management to Workers)		
• Conduct weekly safety meetings with safety award/recognition	L.Wehlitz/ D.Williams	Weekly
• Demonstrate proper safety attitude by wearing proper PPE and utilizing safe work practices	All	Daily
* Elimination of Construction Hazards		
• submit for approval Safe Work Plan (SWP)	Petro	4/30/97
• Continuous validation of SWP as work progress	D. Williams/ C. Frieberg	Daily
-Walk your space	All	Daily
-Weekly joint safety walk through	FDF/ Const. Mgmt./ C. Frieberg	Weekly
* Eliminate Unplanned Activities/Surprises/Occurrences Including: Serious Injuries, Maiming or Death		
• Supervision shall conduct pretask review to ensure that all work has been planned and that activities match Safe Work plan	D. Williams/ Proj. Support	Per task
• Daily walk downs to ensure personnel are working to a documented work plan	D. Williams/ C. Frieberg	Daily
* Highlight Human Factor Issues and Safety Awareness		
• Include current conditions into daily briefings	D. Williams	Daily
• Ensure new employee orientation has been completed by site workers	R. Schairbaum/ C. Frieberg	Per empl. occur.
* Site Access Control		
• Completion of pre-job training requirements	C. Frieberg/ R. Schairbaum	Per empl. occur.
• Fencing	S. Brandstetter	TBD

ACTION PLANS		
KRA#3 - TEAMWORK		
Actions	Resp.	Date
• Organize effective meetings		
A. Integrated project progress meeting format	S.Brandstetter/ L.Wehlitz	4/28/97
B. Integrated QC/QA meetings	M. Godber/ J. McMichen/ R.Turnbulll/ R.Schairbaum	Week of 4/21/97
C. Integrated OSDF superintendent site meeting	J.Stacey/ D.Williams/ Village/Barrett/ L.Wehlitz	Weekly
• Measure teamwork participation proposal	M. Mather	4/28/97
• Develop teamwork incentive program	B. Zebick/M. Mather	Prior to mobiliz.
• Expedite critical path activities and changes	All	Daily

Author: Ronald Baker at FNSP-02
Date: 4/28/97 1:23 PM
Priority: Normal
TO: Dan Bodine at FNST-04
TO: Mike Godber at FNST-04
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TO: Don Pfister at FNST-06
TO: Rod Warner at FNST-06
TO: Larry Evans at FNST-04
CC: Ronald Baker
CC: Arlene Platania
Subject: OSDF Phase I Alignment Summary
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Facilitators

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OSDF PHASE I ALIGNMENT

April 21, 1997
7:30 - 4:00
Alpha "A"

AGENDA

- Safety/TQM/Balance Topics
- Objectives of Alignment
- Overview
  - OSDF Phase I Integration Plan
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  - Mitigate Risks
  - Measurement of KRA's
- Path Forward

OSDF PHASE I ALIGNMENT

April 21, 1997
ALIGNMENT PARTICIPANTS

NAME	ORGANIZATION	FUNCTION	MS
Steve Brandstetter	Petro Environ.	Project Mgr.	
Carolyn Frieberg*	Petro Environ.	Site Safety & Health Officer	
Jill Hibbard	Petro Environ.	Admin. Assist.	
Mark Mather	Petro Environ.	Operations Mgr.	
Rick Schairbaum	Petro Environ.	QA/QC Mgr.	
John Stacey*	Petro Environ.	Field Superintendent	
Dave Williams	Petro Environ.	Gen. Superintendent	
Dan Bodine	GeoSyntec	Resident Eng.	64
Ken Cargill	GeoSyntec	Task Leader	
Jeph McMichen	GeoSyntec	Site QC Manager	64
Mike Godber	FDF	QA	64
Don Goetz	FDF	OSDF-Const. Eng.	64
Rick Heath	FDF	OSDF Project Eng.	64
Mike Hickey	FDF	OSDF-PM	64
Gregg Johnson	FDF	Safety Support	64
Uday Kumthekar	FDF	OSDF Eng. Mgr.	64
Jeff Middaugh	FDF	Safety Support	44
Carlos Pratt	FDF	Project Controls	64
Dave Sablosky	FDF	Contracts	44
Bruce Schweitzer	FDF	OSDF-Constr. Eng.	64
Rob Turnbull	FDF	OSDF-Coordinator	64
Lou Wehlitz	FDF	OSDF-CCM	64
Bill Zebick	FDF	OSDF-CM	64

OSDF PHASE I ALIGNMENT

April 21, 1997
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NAME	ORGANIZATION	FUNCTION	MS
Jay Jalovec	DOE-FN	Project Mgr.	45
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MILESTONE	SUGGESTED DATE	FIRM DATE
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• Complete Cover		11/26/97
• Complete Contract		12/31/97

EXPECTATIONS

- We vs I
- *On Schedule, under budget
- Know what each other needs to be successful
- Communications stressed
- Identify what must happen to be successful
- Get to know players from all organizations
- *Complete project with no injuries or occurrences
- How all roles fit together to complete quality project
- Understand how everybody will make my job easier on my site
- Who key players are and help me do my job
- Know everyone well enough and they know me
- Team roles to successfully complete project
- Identify counterparts and who to go to
- Understanding of our culture by team
- Continue professional working relationship
- Establish this as a quality project
- Begin communication process
- *Stay within budget
- How QC for FDF, Petro, and GeoSyntec will integrate

- Why Phase I must be successful

*Evaluate on 12/31/97

OSDF PROJECT TEAM MISSION STATEMENT

"AS OUR CONTRIBUTION TO THE OVERALL SITE RESTORATION, WE, THE OSDF TEAM, WILL SAFELY BUILD A HIGH QUALITY CERTIFIED OSDF, IN A TIMELY, COST EFFECTIVE MANNER THAT MEETS REQUIREMENTS EXPECTED BY OUR STAKEHOLDERS. THIS PROJECT SHALL BE INTEGRATED WITH OTHER OSDF PROJECTS."

STAKEHOLDERS

- Petro Environmental
- Community
- FRESH
- DOE
- Taxpayers
- EPA - U.S., OH
- Fluor Daniel Fernald
- Cincinnati Enquirer
- GeoSyntec
- Fluor Daniel
- Future generations
- Citizens Task Force (CTF)
- Community Reuse Organization (CRO)
- FAT&LC
- CBT
- Environment
- Subcontractors

KEY RESULT AREAS

1. **SAFETY**
2. **QUALITY**
3. **TEAMWORK**
4. **SCHEDULE/MILESTONES**

- POSITIVE PUBLIC RELATIONS
- COMMUNICATION
- COST EFFECTIVENESS
- CUSTOMER SATISFACTION
- ENVIRONMENTAL COMPLIANCE (CERTIFICATION)
- INTEGRATION
- FULL MOBILIZATION - 7/1/97
- SUBMITTALS

RISKS/ISSUES/BARRIERS
KRA #1
SAFETY

- Worker buy-in
- Visitors
- Unplanned activities
- Surprises
- Tunnel vision
- Excavation hazards
- First line supervisor buy-in
- Wrong tools
- Long hours
- Heat stress
- Exposure to heavy equipment
- Lack of training
- Stress of schedule
- Night work
- Failure to address hazards
- Worker inattention
- Improper safety philosophy
- Injuries/deaths
- Maiming
- Lack of communication with new contractors
- Lack of awareness
- Safety culture
- Lack of planning
- Not acting/eliminating hazards
- Inclement weather
- Inspection and maintenance of equipment
- Horsepower
- Drug and alcohol abuse
- Hazards with liner surface
- Familiarity with Health and Safety plan
- Not being proactive
- Insect bites
- Dust control
- Job site congestion

RISKS/ISSUES/BARRIERS
KRA #1
SAFETY
(Continued)

- Remote location of jobsite
- Construction zone with a highway
- Radiological hazards, potential
- Lack of security
- Lack of documentation
- Improper PPE

RISKS/ISSUES/BARRIERS
KRA #2
QUALITY

- Meeting submittal deadlines
- Poor quality submittals
- Being unprepared
- Not following approved Quality Plan
- Documentation of work performed
- Specification vagueness
- Understand contract requirements
- Proper equipment needed
- Shortcuts
- Improper calibration of equipment
- Not following work plans
- Uncontrolled documents
- Not protecting prep surfaces
- Trained workers
- Lack of understanding of acceptable work
- Not satisfying customer
- Falling behind
- Schedule
- Inadequate rock picking
- Lack of worker understanding of quality work
  - Including inspectors and other stakeholders
- Lack of worker and supervisor buy-in
- Tracking of submittals
- Timely sampling and testing of materials
- Segregation of soils
  - Low permeability
- Reference specifications not on job site
- Inadequate manpower
- Accepting less than perfection
- Miscommunication
- Weather, not anticipating
- Do it right the first time
- Lack of agreement
- Use of unapproved materials

RISKS/ISSUES/BARRIERS
KRA #2
QUALITY
(Continued)

- Lack of quality environment
- Protect each others work
- Proper involvement of regulatory agencies
- Inattention to details
- Rushing to completion

RISKS/ISSUES/BARRIERS
KRA #3
TEAMWORK

- True commitment/follow through
- Communication (at proper levels)
- Disagreement on issues
- Afraid to ask questions
- Taking on activity yourself
- "I" ism
- Lack of resolving issues
- Poor understanding of others' tasks
- Lack of empowerment
- Chain of command
- Not getting team member buy-in
- Lack of integration
- Lackluster scheduled meetings
- Too focused on own work
- Lack of understanding of other team members' responsibilities
- Poor listener
- Hidden agendas
- Lack of identified players
- Lack of input from rank and file
- Bad attitudes
- Holding grudges/unforegiveness
- Understanding others' weaknesses
- Aging change orders
- Effective meetings
- Lack of innovation
- Unrealistic expectations from others
- Not being open to suggestions
- Lack of consensus
- Lack of changing/flexibility
- Pride of ownership
- Lack of accountability
- Schedule driven
- Lack of respect
  - Why don't you just . . . . ?

RISKS/ISSUES/BARRIERS
KRA #4
SCHEDULE/MILESTONES

- Blow off the schedule
- Problems with good estimate
- Incomplete submittals
- Lack of commitment
- Team not agreeing with schedule and milestones
- Workers not understanding milestones
- Attitude to get off critical path
- Delivery of materials
- Unforeseen interferences
- Changes
- Submittal approvals
- Understanding critical activities
- Lack of transportation
- Poor safety practices
- Support Equipment
- Unrealistic schedule
- Not planning work and working your plan
- EPA certification
- Sense of urgency
- Manpower for equipment
- Poor weather conditions
- Lack of manufacturing quality control
- Lack of innovation
- Lack of proper support facilities
- Lack of integration with other projects
- Poor coordination of test results
- Interferences from outside forces
- Agreement of critical activities
- No schedule for "Murphy"
- Timely completion of site training
- Cultural artifacts
- Equipment maintenance
- Worker morale
- Not attending training, physicals when scheduled

RISKS/ISSUES/BARRIERS
KRA #4
SCHEDULE/MILESTONES
(Continued)

- Hurry to meet milestone and have an accident
- You can't because . . . . . ?
- Dewatering excavation
- Low productivity
- Rework
- Poor statusing
- Untimely testing and quality oversight
- Labor relations

ROLES AND RESPONSIBILITIES -- DOE
Don Pfister

- Program money
- Program scope
- Project oversight
  - Safety
    - Personnel
    - Environment
    - Property
  - Scope
  - Schedule
- Occurrence/accident investigation

ROLES AND RESPONSIBILITIES - FDF
PROJECT MANAGER
Mike Hickey

- Project Manager
  - Roads
  - Leachate system
  - Phase I OSDF
  - Phase II OSDF
- Primary contact with DOE
- Project Safety
- Project Integration
- Site integration
- Support for regulatory interaction
- FDF liaison to public
- Project schedule
- Project resources
- Project Quality Assurance
- Project budget
- Accountable to FD for project
- Primary contact with GeoSyntec

ROLES AND RESPONSIBILITIES - FDF
CONSTRUCTION/ENGINEERING MANAGEMENT

Construction	Engineering
• Lou Wehlitz	• Uday Kumthekar
• Don Goetz	• Rick Heath
• Rob Turnbull	

- Timely issuance of permits
- Timely submittals/reviews
- Timely turn-around of design changes/request for information (DCN's/RCI's)
- Monitoring field activities
- Project coordination
- Support environmental compliance groups
- Provide technical support
- Integration with other projects

ROLES AND RESPONSIBILITIES
CONTRACT ADMINISTRATION
Dave Sablosky

- Plans - execute - negotiate contract modification
- Release line items
- Contract interpretation
- Contract facilitation

- Invoice approval
- Contract correspondence
- Contract closeout
- Procurement authority

ROLES AND RESPONSIBILITIES - FDF
SAFETY SUPPORT
Gregg Johnson
Jeff Middough

- Review and approve safety submittals (i.e., Health and Safety plans, Safe Work plans, etc.)
- Focal point for other safety related groups (i.e., IH, RAD)
- Provide field safety oversight:
  - Compliance with site safety regulations, OSHA, Part 8 of contract
- Assist with incident investigations
- Provide safety information (i.e., Lessons Learned) to contractor for use at safety meetings
- Issue permits that I'm qualified to issue
  - Rob Turnbull for other permits
- Inspect incoming equipment for safety compliance
- Participate in safety walk-throughs of work areas both joint and individual
- Provide any other assistance, safety or otherwise

ROLES AND RESPONSIBILITIES - FDF
QUALITY ASSURANCE
Mike Godber

- Provide overviews and inspections of Petro's work and documentation to assure they are performing to contract documents.
- Overview GeoSyntec's work and documentation to assure they are performing their work to the CQA plan and field procedures manual
- Overview construction and engineering to assure they are performing work to their procedures.

"All inspections will be conducted using quality evaluation plans"

ROLES AND RESPONSIBILITIES - GeoSyntec
RESIDENT ENGINEERING
Dan Bodine

- Submittal review
- Design interpretation/clarification
- Field engineering
- Design changes
- Daily documentation
- Represent design engineer
- Technical expertise/advice
- Monitor as-built documentation
- OSDF certification

ROLES AND RESPONSIBILITIES - GeoSyntec
CQC - QUALITY CONTROL
Jeph McMichen

- Materials conformance testing
  - Soils
  - Geosynthetics
- Materials performance testing
  - Soils
  - Geosynthetics (geomembrane)
- Monitoring
  - Soils placement/excavation
    - Geosynthetics installation
- Daily Documentation
- Geosynthetic inventory/others
- Manufacturing QC document review
- Safety Awareness
- Technical expertise/advice
- Geomembrane panel layout drawings
- OSDF certification

ROLES AND RESPONSIBILITIES - PETRO ENVIRONMENTAL MANAGEMENT
Mark Mather
Steve Branstetter
Dave Williams
Rick Schairbaum
John Stacey

- Organize and document necessary meetings
  - Safety
  - Quality Control
  - Job progress

- Assure that all meeting's actions are attainable (QC, safety, prog.)

- Assure success by being accountable individually by organization chart and corporately, by project need - execute our plan

- Brief and train/inform all members of our construction team with all

meeting notes

- "If it wasn't important, why was it discussed in a meeting"

ROLES AND RESPONSIBILITIES - PETRO ENVIRONMENTAL SAFETY
Steve Brandstetter

- Get all persons involved in project to "buy into safety"
- Run a neat, well planned and organized project that promotes a proactive safety culture
- Be aware of conditions and issues that may lead to unsafe work practices
- Monitor site personnel to ensure that persons are trained and "belong" on site

ROLES AND RESPONSIBILITIES - PETRO ENVIRONMENTAL SCHEDULE/MILESTONES
Dave Williams
John Stacey

- Construct the OSDF and options
- Procure resources and materials to complete works
- Subcontractor/Supplier Administration
- Write and execute work plans safely
- Union contact
- Supervise daily activities of operators, laborers, and subcontractors
- Supervise foreman

ROLES AND RESPONSIBILITIES - PETRO ENVIRONMENTAL QUALITY CONTROL
Rick Schairbaum

- Complete project per contract documents/construction drawings
- Ensure all personnel are properly trained and understand required level of workmanship
- Instill proper and productive worker attitude toward quality control
- Ensure all submittals are complete and submitted within time milestones
- Ensure proper documentation of all required work aspects
- Work to build a productive and effective QC team with Petro, FDF, and GeoSyntec

ACTION PLANS SUB-TEAMS			
KRA #1	KRA#2	KRA#3	KRA#4
SAFETY	QUALITY	TEAMWORK	SCHEDULE/ MILESTONES
Jeff Middaugh	Rick Schairbaum	Rob Turnbull	Dan Bodine
Steve Brandstetter	Mike Godber	Ken Cargill	Dave Sablosky
Don Goetz	Rick Heath	Mark Mather	Dave Williams
Jill Hibbard	Jeph McMichen	Bill Zebick	Lou Wehlitz
Gregg Johnson		Don Pfister	Uday Kumthekar

ACTION PLANS		
KRA#1 - SAFETY		
Actions	Resp.	Date
* Ensure Proactive Safety Culture "Buy in" by all Employees (Management to Workers) • Conduct weekly safety meetings with safety award/recognition • Demonstrate proper safety attitude by wearing proper PPE and utilizing safe work practices	L.Wehlitz/ D.Williams All	Weekly Daily
* Elimination of Construction Hazards • submit for approval Safe Work Plan (SWP) • Continuous validation of SWP as work progress -Walk your space -Weekly joint safety walk through	Petro D. Williams/ C. Frieberg All FDF/ Const. Mgmt./ C. Frieberg	4/30/97 Daily Daily Weekly
* Eliminate Unplanned Activities/Surprises/Occurrences Including: Serious Injuries, Maiming or Death • Supervision shall conduct pretask review to ensure that all work has been planned and that activities match Safe Work plan • Daily walk downs to ensure personnel are working to a documented work plan	D. Williams/ Proj. Support D. Williams/ C. Frieberg	Per task Daily
* Highlight Human Factor Issues and Safety Awareness • Include current conditions into daily briefings • Ensure new employee orientation has been completed by site workers	D. Williams R. Schairbaum/ C. Frieberg	Daily Per empl. occur.
* Site Access Control • Completion of pre-job training requirements • Fencing	C. Frieberg/ R. Schairbaum S. Brandstetter	Per empl. occur. TBD

ACTION PLANS		
KRA#2 - QUALITY		
Actions	Resp.	Date
• Initial on-site indoctrination for all employees (safety, Q/C, overall site) -Meeting/training prior to each definable work feature ▸ preparatory phase ▸ initial phase ▸ follow-up phase	C. Frieberg/ R. Schairbaum Petro	Per occur. Per occur.
• Submittals following NTP. -Chart with deadlines • Submittals following ATM -Chart and sub. Reg. with deadlines -QA/QC meeting with Petro, GeoSyntec, FDF	R. Schairbaum J. McMichen	Complete 4/25/97
• Understanding of required quality between Petro, GeoSyntec, FDF		
• Calibration of equipment -GeoSyntec - calibration logs/documentation on file -Petro - calibration logs/documentation on file • Power has to be provided to trailer (power, water, steps, etc.)	B. Zebick R. Schairbaum	5/2/97
• Meeting on soil excavation, stock-piling and sampling with Petro, GeoSyntec, FDF	J. McMichen	Week of 4/21/97
• Inspection of materials upon delivery, review of test certs., etc.	All	On-going

ACTION PLANS		
KRA#3 - TEAMWORK		
Actions	Resp.	Date
• Organize effective meetings A. Integrated project progress meeting format B. Integrated QC/QA meetings C. Integrated OSDF superintendent site meeting	 S.Brandstetter /L.Wehlitz M. Godber/ J. McMichen/ R.Turnbulll/ R.Schairbaum J.Stacey/ D.Williams/ Village/Barrett/ L.Wehlitz	 4/28/97 Week of 4/21/97 Weekly
• Measure teamwork participation proposal	M. Mather	4/28/97
• Develop teamwork incentive program	B. Zebick/M. Mather	Prior to mobiliz.
• Expedite critical path activities and changes	All	Daily

ACTION PLANS		
KRA#4 - SCHEDULE/MILESTONES		
Actions	Resp.	Date
• Submittal Schedule (SS) -List of submittals, priorities, dates -Weekly review of "SS" in weekly construction meeting -Review completeness of submittals before sending to FDF	 D.Goetz/ R.Schairbaum R.Schairbaum	 4/28/97 Weekly Ongoing
• Weekly review of equipment/resource schedule to support construction schedule -Adjust equipment/resources to meet project milestones -Tracking daily/weekly production rate -Review/track equipment maintenance schedule (master mechanic)	L.Wehlitz/ D.Williams J. Stacey / M.Godber	Weekly Weekly
• Timely completing site training -Scheduling -Documentation (med/safety)	C.Frieberg	To support milestone activities
• Revised construction schedule (Draft) -Identification of critical path -delivery of material -Integration with other subcontractors -"Buy in" by OSDF team	D.Williams B.Zebick B.Zebick	4/24/97 4/24/97 5/5/97
• C/O#1 "Plan"	S.Brandstetter/ D.Sablosky	4/26/97
• C/O Status/oversight plan	S.Brandstetter/ D.Sablosky/ M.Mather/ M.Hickey	5/9/97
• Estimating support	M.Hickey	5/5/97

WEEKLY CONSTRUCTION MEETINGS FOR PHASE I WORK

PRE-CONSTRUCTION KICK-OFF
ON-SITE DISPOSAL FACILITY - PHASE I

FSC 597
Meeting Agenda
Thursday, May 1, 1997

I. *SAFETY (L. WEHLITZ)*

A. Safety Topic - WIND
B. T.Q.M. Topic - KEEP TRACK OF YOUR TIME - PLAN YOUR WORK, WORK YOUR PLAN
C. Balance Topic - BALANCE YOUR WORK LOAD WITH JOB/FAMILY

II. *INTRODUCTION (L. WEHLITZ)*

A. FDF Representatives
B. Sub-Contractor Representatives (Petro Environmental)
C. Agenda Overview

III. *TECHNICAL ITEMS (U. KUMTHEKAR & D. GOETZ)*

OPTIONAL
CONST. of HORIZONTAL WELL
(EXC. CELL NO. 2) PLACEMENT OF GCCR MATERIAL / PLACE & WELD

A. Scope of Work - SED BASIN (BY 30 JUNE) CLEARING & GRUBBING EXC. & LINER COLLINS, HAUL ROAD WEST of CELLS 2 & 3
B. Amendments, and Change Orders — TIE IN M.H. 1, 2 & 3 | CONST. OF DECON FACILITY | MAINTAIN LEACHATE CONVEY/FACS SYSTEM
C. Questions and Information Needs — MOD. - THEY WILL PLACE 3' of COVER - LIMITED NOTICE TO PROCEED - SHALL SUBMIT PROPOSAL FOR WORK
WORK WITHIN 1997 SEASON

IV. *ENVIRONMENTAL SAFETY & HEALTH (G. JOHNSON & J. MIDDAUGH)*

A. Subcontractors Safety Program — 30 MINUTES FOLLOWING LAST LIGHTNING WORK CAN PROCEED.
B. Subcontractors Safety Representatives — HOT WORK PERMIT FOR WELDING?
C. First Aid Facilities
D. Reporting Requirements — MINIMUM 5' CANDLES INCLUDING ALCOVES TO THE MRDA.
E. Emergency Number Posting
F. Safety Meeting Requirements
G. Accident Reporting — (WET BULB) 82° - WORK 1 1/2 hr. Then 15 min. BREAK

IV. ***ENVIRONMENTAL SAFETY & HEALTH (G. JOHNSON & J. MIDDAUGH) -Cont***

H. Smoking
I. Permits
J. Fire Protection Requirements

V. ***QUALITY OF SUBCONTRACTOR'S WORK, INSPECTION, AND TESTING (M. GODBER & D. BODINE)***

A. Warranty of Inspection - REFER PART 7 - ATTACHMENT TO PART 9
1. Prior to Work COORDINATE ALL WORK THROUGH GOOSYNTOC
2. Work of Others
B. Work Interface
C. Inspection and Test Requirements

VI. ***INDUSTRIAL RELATIONS REVIEW (D. COCHRAN, S. GAMEWELL)***

A. Subcontractor Labor Relations Responsibility
B. Project Labor Agreement
C. Subcontractor Pre-Job Conference with the CBTC - Craft Assignments
D. Lower Tier Subcontractors
E. FDF Substance Abuse Program
F. Job Site Rules

VII. ***STATUS OF DOCUMENTATION AND APPROVALS PRIOR TO NTP (D. SABLOSKY)***

A. Payment and Performance Bonds
B. Subcontractor Key Personnel - Resumes
C. Lower Tier Subcontractor List
D. PLA Letter of Assent
E. Subcontractor Authorized Field Representatives
F. Confidentiality Agreements
G. Pay Item Schedule

VII. ***STATUS OF DOCUMENTATION AND APPROVALS REQUIRED BEFORE MOBILIZATION (D. SABLOSKY)***

A. NTP Start Date
B. Subcontractor Schedule
   1. Detailed Submittal

IX. ***GENERAL CONSTRUCTION REQUIREMENTS (D. GOETZ)***

A. Work Laydown Area Location
   1. Project Work Limits
   2. Laydown Area Location
   3. Location of Temporary Facilities
B. Training Requirements
D. Job Site Working Hours
E. Utilities and Temporary Facilities
   VEHICLES USE OF

X. ***CHANGES AND EXTRA WORK (D. SABLOSKY)***

A. Only by Written Order
B. Instruction and Requests
C. Notification Requirements

XI. ***SUBCONTRACT CONTROL AND REPORTING REQUIREMENTS (D. SABLOSKY)***

A. Contractual Requirements
B. Weekly Meetings

XII. ***PROGRESS PAYMENTS (D. SABLOSKY)***

A. Billing Period
B. Payment Submittal Requirements
C. Unacceptable Work
D. Payments for Stored Materials
E. Basis for Payment
F. Payments for change Order Work

XII. ***GENERAL DISCUSSION***

FERNALD ENVIRONMENTAL MANAGEMENT PROJECT
FERNALD, OHIO

FERMCO CONTRACT
DE-AC24-92OR21972

MEETING NOTES MN:SWP(OSDF):97-0018

SUBJECT: Pre-Construction Kick-Off Meeting for OSDF Phase I

MEETING DATE: May 1, 1997

LOCATION: Fluor Daniel Fernald Office

ISSUE DATE: May 7, 1997 File Record Storage Copy 106.4.34.3

DISTRIBUTION: + Attendees + + Part-time • Author of Notes

FDF

+ R. Crowley, MS30
+ M. Godber, MS64
M. Hickey, MS64
+ G. Johnson, MS64
+ T. Keaty, MS64
+ U. Kumthekar, MS64
+ J. Middaugh, MS44
T. Russell, MS64
+ D. Stempfley, MS30
+ D. Sablosky, MS44
+ S. Sessler, MS30
* R. Turnbull, MS64
+ L. Wehlitz, MS64
B. Zebick, MS64

DOE

+ J. Desormeau, MS45
Pete Darnell, MS45
Jay Jolovec, MS45
Don Pfister, MS45
Rod Warner, MS45

Ground Safe Inc.

+ D. Morrow

Petro Environmental

+ S. Brandstetter
+ C. Freyberg
+ J. Hibbard
+ R. Schairbaum
+ J. Stacey
+ D. Williams

GeoSyntec

+ D. Bodine
K. Cargill
+ J. McMichen

SAFETY TOPIC - Strong winds today can be a hazard.

TQM TOPIC - Keep touch of time; plan your work, work your plan.

BALANCE TOPIC - Balance your work load against the needs of your family.

Introductions: **FDF Personnel**
Petro Environmental
Geosyntec

I. Uday Kumthekar - Technical FDF Engineering

Scope of Work

-. June 30, 1997 - Start Sediment Basin
Start excavation, install lines and stockpile material
Start construction of West Haul Road
Construction of Decon Facility
Maintain Areas

Dave Sablosky - FDF Acquisitions

- MOD 1 of Option 2/Integrated into contract.
- Work to be completed within 1997 construction season.
- Proposals due to FDF by May 5, 1997.

II. Gregg Johnson/ES&H and Jeff Middaugh/FDF Safety

(See Attachment)

Dan Stempfley - FDF RAD Engineering

- Limited RAD Controls expected.
- Notify RAD Tech for unusual situation
- Pre-notify RAD Engineering before bringing nuclear materials on site.

III. Sheila Sessler - FDF Medical

- Needs a 2 week lead time to schedule access physicals.

- Drug Testing is needed prior to physical; 48 hour turn around.

Joe Desormeau - DOE Safety

- Will key in on daily inspections.

IV. Mike Godber - FDF Quality Assurance

- CQC needs involvement in all testing.
- Know acceptance criteria.
- Supply equipment calibration records on all test equipment.
- Perform and document all inspections.
- FDF QA will perform periodic audits of all paperwork.

V. Lou Wehlitz - FDF OSDF Construction Contracts Manager

- CBTC scheduled for May 6, 1997.
- Prime Contractor is responsible for lower-tier subs.
- Job site rules to be adhered to.

VI. STATUS OF DOCUMENTS - Dave Sablosky/FDF Acquisitions

- FDF Approved
  - Payments and performance bonds
  - Key personnel resume's
  - Lower-tier subcontractor list
  - PLA Letter of Assent
- Need Confidentiality Agreements from all sub-tiers
- Pay Item Schedule - resubmitted with response to comments

VII. CHANGES OF EXTRA WORK - Dave Sablosky/FDF Acquisitions

- Changes need 20 days for approval; FDF to be informed of all changes.
- Change Orders are instituted only by written direction.

VII. SUBCONTRACTOR CONTROL - Dave Sablosky/FDF Acquisitions

- Lou Wehlitz - FDF CCM runs the job.
- Weekly project meetings are required.

IX. PROGRESS PAYMENTS - Dave Sablosky/FDF Acquisitions

- Lou and Don need a sample invoice to review for familiarity.
- Payment will be issued for:
  - Work done.
  - Off-Site stored material.
  - Change work based on Mods.
- Follow procedures for payment.

X. GENERAL CONSTRUCTION REQUIREMENTS - Don Goetz/FDF, OSDF, CE

- Lay down area is south of cells.
- Temporary facilities;
  - Office trailer location is progressing.
  - Field offices need siting.
- Normal work hours: 0630 to 1700.
  - Use a memo in advance to adjust times.
- Employing Parking:
  - East and West Parking Lots.
  - Subcontractor trade area parking to be addressed later.

XI. GENERAL DISCUSSION

Submitted:
- Detail Construction Schedule
- QA/QC Plan

Due, submit week of 5/5/97:
- Find Safe Work Plan
- Surface Water Plan
- Environmental Plan

RT:sla

To the best of my knowledge and belief, these minutes are an accurate reflection of the statements made during the subject meeting. Any claims of errors, omissions or misinterpretations shall be placed in writing and discussed at the next meeting. If no further meeting is to be held, the written statements will be published as an addendum to the last minutes. Failure to make notification by the next meeting (or within ten calendar days of the receipt of the minutes when no further meeting has been scheduled) shall constitute acceptance of these minutes as written.

Prepared by: Rob Turnbull
Rob Turnbull

Phone No. 648-4644 Date: 05/07/97

RECEIVED 13 MAY '97 J. Fr

1264

MEETING NOTES MN:SWP(OSDF):97-0018

SUBJECT: (ATTACHMENTS FOR)
Pre-Construction Kick-Off Meeting for OSDF Phase I

MEETING DATE: May 1, 1997

LOCATION: Fluor Daniel Fernald Office

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+ J. Stacey
+ D. Williams

GeoSyntec

+ D. Bodine
K. Cargill
+ J. McMichen

These are the Attathcments for Section II. Please include these attachments with the original set of minutes under the section listed below. We apologize for this inconvenience.

II. Gregg Johnson/ES&H and Jeff Middaugh/FDF Safety

(See Attachment)

If you have any questions or comments, please contact Sheila Armstead on ext. 5502.

RT:sla

PART 8 - SAFETY & HEALTH AND TRAINING REQUIREMENTS

notes for the Kick-off meeting - May 1, 1997 @ 900 hrs (Trailer T-58)

Presenting the subjects were- Gregg Johnson, Jeff Middaugh, Dan Stempfley, Sheila Sessler

A. GENERAL SITE REQUIREMENTS 1

2.0 General Safety and Health Provisions 1

2.1 Project Specific Health & Safety Requirements Matrix 1
Define the purpose of the matrix

2.4 Monthly Manpower Report 3
need to report hours and injuries

2.5 Natural Occurrence (Weather) 3
talk about lightning

2.6 Fluor Daniel Fernald Permits 3
list of permits

2.7 Required Safety Meetings 4
daily briefings and weekly safety meeting

2.8 Reporting Injuries and Accidents 5
all must be reported... including Injuries, fire, damage, etc

2.9 Housekeeping 6
daily documented inspections

2.10 Competent Person Inspection 6
see the forms at end of part 8

2.11 Emergency Communications 6
needed at all times 6511. Buddy system

3.0 Occupational Health and Environmental Controls 7

3.1 Required Medical Monitoring 7
all personnel required

3.4 Occupational Noise Exposure 11
American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values (TLVs), which establish an 8-hour threshold limit value - time weighted average (TLV-TWA) of 85 decibels A-weighted (dBA), and a 3 dB doubling rate.

PART 8 - SAFETY & HEALTH AND TRAINING REQUIREMENTS

notes for the Kick-off meeting -
May 1, 1997 @ 900 hrs (Trailer T-58)

9.0 Welding and Cutting 21
9.1 Burning, Welding and Open Flame Work 21
PPE requirements (nomax coveralls - FDF supplied)

10.0 Electrical 21
10.1 Ground Fault Circuit Interrupters 21
on all electrical supplies & at source

10.2 Flexible Cord Sets 22
no repaired cords - no job built cords

13.0 Motor Vehicles, Mechanized Equipment, and Marine Operations 23
13.1 Heavy Equipment Operation & Use 23
Final Safe Work Plan will include a Heavy Equipment program (use & inspection)
Need to be sure to address how oil, filters and other materials will be handled

13.2 Equipment Operator 24
Operator Verification Form before operating

13.3 Back-up Alarms 25
automatic electronic audible reverse alarm

13.4 Seat Belts 25
for all equipment - at all times

14.0 Excavations 25
14.1 Trenching and Excavations 25
Competent Person at work site, inspection forms in part 8
Install and maintain minimum barrier at the perimeter of all utility excavations, trenches or other open excavations minimum - orange snow fence), as long as they are open.

16.0 Confined Space Program 26
Permits & training requirements

17.0 Lock and Tag (Energy Control) 27
all must follow the FEMP program

18.0 Buddy System 28
for all work, radio/phone required

PERMIT INFORMATION

(Incomplete list - most commonly used permits)

PERMIT	WHEN IS IT REQUIRED?	DURATION OF PERMIT
Work Permits	Must be obtained prior to any start of work activities. This permit provides the employees with the basic requirements to complete the work task. i.e..PPE specifications and supplemental permits. Must have signed work permits in order to obtain a confined space, Chemical Hazardous Materials, Open Flame/Welding, Asbestos, Facility Outage, or Excavation Trenching/Penetration permits.	Permit expiration dates correspond with work scheduling dates. An extension on a work activity may require renewal of the work permit.
Cutting, Welding/Open Flame Permits	Required for performing hot work which includes welding with electric arcs, oxy-fuel gas flames, grinding, brazing and any open flame activity.	Permits are typically terminated after one working day but may be written to last for several weeks at the discretion of FDF safety. An example of an extended permit would be the cutting of rebar repeatedly in a hazard free area. Fab areas may receive thirty day permits.
Chemical Hazardous Material Permit	This permit must be obtained prior to any work activities with chemicals, chemical products or hazardous materials for which a MSDS is required by OSHA and there is a potential for exposure approaching regulatory limits. i.e..carcinogens, biological hazards (bird droppings), organic solvents and acids or caustics. Also required when former hazardous material lines are initially broken.	This permit can have the same expiration date as the completion date which is listed on the ***Work Permit.***
Penetration	This permit is required anytime a penetration into the ground/earth is made for depths greater than 6 inches. This also includes excavation activities. Utilities within 20 feet of penetrations into the ground/earth must be listed on the Penetration permit and marked in the field. This permit is also required for any intrusive work inside of buildings and on floors. If penetration area or excavation change in any form the permit is invalid and a new permit must be obtained. No "Blanket Permit" is allowed, each individual penetration must be identified on the permit.	Penetration Permits are only valid for 6 months from date of issue and a copy of the permit is to be posted at the work site.

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PERMIT INFORMATION

(Incomplete list - most commonly used permits)

PERMIT	WHEN IS IT REQUIRED?	DURATION OF PERMIT
Confined Space	List the requirements for work inside a permit required confined space or enclosed area. Confined spaces at the FEMP include, but are not limited to: storage tanks, process vessels, pits, silos, furnaces, boilers, manholes, sewer tunnels and underground utility vaults. Enclosed areas include, but are not limited to dust collectors, heating/ventilating/air conditioning units, diked areas, top loaded sea/lands and storage vaults	Permits for Permit required Confined spaces are valid for eight hours. Non-permit required and enclosed areas may be written for extended periods of time as long as *no* work conditions change and the space is checked on a periodic basis by the FDF safety representative.
Facility Outage Permit	This permit must be obtained anytime utilities such as electric or water will be interrupted outside of the contractors designated work area. This also includes roadways, sidewalks and pedestrian traffic areas.	Currently, there are no time limitations set for this permit. The time constraints will vary depending on the type and location of service that will be interrupted.
Asbestos	Required for any Class I, II or III work.	The permit expiration dates correspond with the Ohio Notification dates that are submitted to the state. This permit may be extended provided the work permit is still valid and the proper notifications have been made.

- A signed and completed Work Permit must be obtained before any other permit may be issued.
- All employees working in areas specified by the permits must be briefed on the conditions and hazards of the work. Each employee must acknowledge he/she understands these conditions by signing each permit.
- This document was created to assist the contractor with understanding the permit system and should not be considered as complete. Please refer to Part 8 of the contract for further details.
- This document does not mention all permits, please refer to Part 8, A section 2.6 of the contract with any questions regarding permits.

1264

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RECEIVED MAY 1997 1264 jfn

MEETING NOTES MN:SWP(OSDF):97-0018

SUBJECT: *(5/15/97 - ADDENDUM ON PAGE 2, UNDER ITEM I.)*
Pre-Construction Kick-Off Meeting for OSDF Phase I

MEETING DATE: May 1, 1997

LOCATION: Fluor Daniel Fernald Office

ISSUE DATE: May 7, 1997 File Record Storage Copy 106.4.34.3

DISTRIBUTION: + Attendees ++ Part-time * Author of Notes

FDF

+ R. Crowley, MS30
+ M. Godber, MS64
M. Hickey, MS64
+ G. Johnson, MS64
+ T. Keaty, MS64
+ U. Kumthekar, MS64
+ J. Middaugh, MS44
T. Russell, MS64
+ D. Stempfley, MS30
+ D. Sablosky, MS44
+ S. Sessler, MS30
* R. Turnbull, MS64
+ L. Wehlitz, MS64
B. Zebick, MS64

DOE

+ J. Desormeau, MS45
Pete Darnell, MS45
Jay Jolovec, MS45
Don Pfister, MS45
Rod Warner, MS45

Ground Safe Inc.

+ D. Morrow

Petro Environmental

+ S. Brandstetter
+ C. Freyberg
+ J. Hibbard
+ R. Schairbaum
+ J. Stacey
+ D. Williams

GeoSyntec

+ D. Bodine
K. Cargill
+ J. McMichen

SAFETY TOPIC - Strong winds today can be a hazard.

TQM TOPIC - Keep touch of time; plan your work, work your plan.

BALANCE TOPIC - Balance your work load against the needs of your family.

Introductions: **FDF Personnel**
Petro Environmental
Geosyntec

I. Uday Kumthekar - Technical FDF Engineering

Scope of Work

- June 2, 1997 - Start Sediment Basin and complete on June 30.
  Start excavation, install lines and stockpile material
  Start construction of West Haul Road
  Construction of Decon Facility
  Maintain Areas

Dave Sablosky - FDF Acquisitions

- MOD 1 of Option 2/Integrated into contract.
- Work to be completed within 1997 construction season.
- Proposals due to FDF by May 5, 1997.

II. Gregg Johnson/ES&H and Jeff Middaugh/FDF Safety

(See Attachment)

Dan Stempfley - FDF RAD Engineering

- Limited RAD Controls expected.
- Notify RAD Tech for unusual situation
- Pre-notify RAD Engineering before bringing nuclear materials on site.

III. Sheila Sessler - FDF Medical

- Needs a 2 week lead time to schedule access physicals.

- Drug Testing is needed prior to physical; 48 hour turn around.

Joe Desormeau - DOE Safety

- Will key in on daily inspections.

IV. Mike Godber - FDF Quality Assurance

- CQC needs involvement in all testing.
- Know acceptance criteria.
- Supply equipment calibration records on all test equipment.
- Perform and document all inspections.
- FDF QA will perform periodic audits of all paperwork.

RECEIVED 13 MAY '97 J.F.
1264

MEETING NOTES

SUBJECT: OSDF - All Hands Staff Meeting

MEETING DATE: May 6, 1997

LOCATION: Fluor Daniel Fernald - Trailer 1 Conference Room at 10:00 - 11:00

ISSUE DATE: May 8, 1997 File Record Storage Copy 104.5

DISTRIBUTION: + Attendees + + Part-time * Author of Notes

- * Sheila Armstead
- + John Berretz
- + Dan Bodine, Geosyntec
- Bob Crowley
- Dave Duderstadt
- + Jeff Ellis
- + Maureen Enderle
- Brian Erisman
- Don Fleming
- + Don Goetz
- + Mike Godbar
- + Lindsey Harris
- + Rick Heath
- + Mike Hickey
- + Rick Holbrook
- + Jim Jenkins
- Gregg Johnson
- + Tim Keaty
- + Uday Kumthekar
- + John Lippett
- + Rick McGuire
- Ned Meekins, Geosyntec
- + Christine Messerly
- Jeff Middaugh
- + J. McMichen, Geosyntec
- Greg Peters
- + Gary Pope
- + Carlos Pratt
- + Tracy Russell
- + Dave Sablowsky
- + Jim Salyers
- + Bruce Schweitzer
- + Tonya Seiwert
- + Mike Snyder
- + Dan Stempfley
- + Rob Turnbull
- + Lou Wehlitz
- + Bill Zebick

Safety Topic

- Keep an eye on the sky for changing weather conditions and storms.

TQM Topic

- Start meetings on time and end on time.

Balance Topic

- The Company's Family Picnic will be at Surf Cincinnati this year on June 14th. This is a great outing for our families.

INFORMATION UPDATE - Mike Hickey

- **Pro-Phase Information**
  10% of dollars saved will be shared by all employees.
  There are three key result areas: **Safety, Milestones and Training**
  Safety - Lost Time/OSHA
  1. Recordables goals established. If goals are not met, then available dollars are reduced.

MEETING NOTES - Continued

Information Updates Cont'd - Mike Hickey

2. Training - (Must be kept up-to-date)

3. Milestones/Schedules - We must consistently meet Level 1 and Level 2 Milestones.

The Oversight Management Audit will begin soon along with the RAD Con Audit (which will begin at the end of the month) everyone should be prepared. Check procedures for proper implementation.

- Mike Hickey was in Washington last week. He attended meetings regarding ER Costs for DOE Complex Disposal Facilities similar to Fluor Daniel Fernald. The facilities included Hanford, Fernald and Weldon Spring. Interestingly, the disposal costs at each facility paralleled all the sites actual costs. Some of the differences were that Hanford operates year round and Weldon double handles everything.

- All Sub-Contractors for OSDF Project are on board and several coordination meetings have taken place. We need to prepare and Integrated Schedule and Matrix and have one month to do this. Let's work diligently and earnestly together to accomplish this goal.

LEACHATE UPDATE - Rick McGuire

- Piping is on site and fusion welding has been scheduled to start. Training problems were experienced by the subcontractor's in regards to RAD II. The problems were resolved.

- Clean out man holes (LCS) will be delivered in Mid-June. Fiber Optics were started by Cincinnati Bell on May 5, 1997.

- Everyone should be aware of the Site-Wide Communication Outage which has been scheduled for May 23rd beginning at 6:00 a.m through May 24, 1997. Fiber Optics will be down per Cincinnati Bells' work. Please refer to the notice posted on the computer bulletin board on the network.

- Excavation for LCS begins at the end of the week. There are no changes with regard to the As Built Drawings. We must have them. Rick Holbrook has been directed to contact the subcontractor on Redline Drawings. Bill Zebick was given the action item to get As Builts for Vit. Plant. He will address the issue of digging by close of business today.

MEETING NOTES - Continued

HAUL ROAD UPDATE - Lou Wehlitz

- Barrett Paving has a Change of Condition as a result of the weather. They have been doing the work as the weather has permitted, performing Phase I and the South Entrance to K-65 through the East Fence. Coordination with Vit continues. Project has generated several inquiring phone calls from other projects. These problems have resulted in doing the work in (2) phases, Phase I and Phase II.

- Cost Projection on extra mobilization of equipment is $30,000.
  Carlos Pratt has some estimates yet to complete. Mike Hickey requested managers to get the best estimates for ETC's and see where we are dollar wise.

- Jeff Ellis stated the Crossing Procedure Comments are due back tomorrow, and he will ensure that Jay Jalovec of the DOE gets the information for their input. Bill Zebick said the procedure proposes two types of Permanent Gates and two types of crossing: (1) Swinging Gates (2) Closed Gates with a Flag Man during the day. Carlos Pratt said we need to pin down costs.

- Bill Zebick and Don Goetz are receiving submittals from Petro Environmental.

- Dave Sablosky stated that the Change Order Proposals for Petro were due by the close of business today. He will issue the Narrative Scope of Work for Comments. Uday Kumthekar, Bill Zebick and Dave Sablosky will discuss this item further.

- The Village Builder, Cost Estimator, must understand the Scope of Work; action Dave and Uday to resolve. Change Order #6 will be critical in a month. Change Order #5 is already critical. Bill Zebick suggested that we must walk the job with the Cost Estimator(s) and give them all the information we can to obtain the best estimates. It was suggested that we need a full-time Cost Estimator for the project. Mike Hickey indicated that this is an issue he has been trying to obtain approval through management, however, there has been no approval to date. He stated that we would utilize the Engineering and Construction talent of OSDF to write-up Bills of Material for the estimators.

SAFETY CONCERNS

1) Trailer 82's left entrance door has been sticking, preventing entrance to the trailer. This information will be passed along to the Safety Advocate, Tracy Russell, for action and resolution.

2) Bill Zebick's steps to his office must be raised to assure that team members, subcontractors and visitors avoid any tripping hazard. Safety Advocate will put in a work order to see that this issue is resolved.

MEETING NOTES - Continued

SAFETY CONCERNS Cont'd

3) The White Board in Trailer 82's Conference Room is also a tripping hazard. Safety Advocate will try to have furniture re-arranged to set up conference room better.

4) Barrett Paving and Kelchner have safety concerns with respect to speed limits on Haul Road and Access Roads. They are both working on these roads and have concerns regarding how fast cars are going. Everyone on this team has been asked to observe the posted speed limits. The set speed limits for the site are 10mph for in plant roads and 30mph on the Access Roads.

UPDATE ON CU's (Certification Units)

- Mike Hickey informed staff that we have passed all but one CU for Arsenic, one radiological jog in fence certification unit failed for radium content. Northwest Area 1 (Phase I Radium 228 is failing, however, thorium is passing. The preliminary data indicates this to be a clean area. We need to have this area turned over to us and Arlene Hunt will assist in our efforts.

- Bill Zebick informed staff of an upcoming Integration Meeting which will involve the subcontractors, Barrett, Leachate, and Petro. He asked that appropriate staff plan on attending this specific meeting as this will be the only meeting with all contractors and will cover Safety and Schedules for each contractor.

- Bill also indicated that the minutes for various meeting must be copied consistently. Uday added that all changes given to a contractor should be put in the form of a DCN or an RCI. We have to remember to put the information in writing for recordkeeping purposes.

The meeting was concluded.

RECEIVED 30 JUN 1997.
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MEETING NOTES MN:SWP(OSDF):97-0029

SUBJECT: OSDF Phase I Construction Schedule and Progress Meeting

MEETING DATE: June 23, 1997

LOCATION: Fluor Daniel Fernald Office

ISSUE DATE: June 24, 1997 ECDC - 20100

DISTRIBUTION: + Attendees ++ Part-time • Author of Notes

FDF

+ *Maureen Enderle
Jeff Ellis
Mike Godber
+ Don Goetz
Rick Heath
Rick Holbrook
Gregg Johnson
Jim Jenkins
Uday Kumthekar
Tim Keaty
Rick McGuire
Jeff Middaugh
Carlos Pratt
Jim Turner

FDF

Dave Sablosky
Jim Salyers
Rob Turnbull
Lou Wehlitz
+ Bill Zebick

PETRO

+ Steve Brandstetter
+ Dave Williams

DOE

Joe Desormeau
Pete Darnell
Jay Jalovec
Joe Neyer
+ Don Pfister, MS45
Dennis Riley
Rod Warner

GEOSYNTEC

+ Dan Bodine
+ Ken Cargill
Jeph McMichen •

SAFETY TOPIC

- Heat Stress and Petro is scheduling physiogical traini gwith medical and a heat stress daily safety topic

- New literature from DOE on an accident in NY. A Front end loader and a grade checker were working in the field. The grader was run over by the front end loader and as more information is available it will be distributed. Let people know where you are in the field (eye contact, hand signals). We need to be aware.

TQM

- Get what you inspect and not what you expect.

MEETING NOTES - Continued

Balance

- When you go home, leave work behind. At work, leave home issues behind.

I. SAFETY, RADIATION PROTECTION, FIRE & INDUSTRIAL HYGIENE

A. DOE issued general RWP about a week ago. Rad safety to check areas periodically. RWP requirements for OSDF Phase are in the work permits.

B. Watch Heat stress.

1. Petro has 2 people directly in heat, others in air conditioned cabs.
2. Wet Bulb monitor - using one FDF Safety has. Petro to purchase one.
3. GeoSyntec to also attend Physiological Training - Look at pulse and core body temp for heat stress. Also need to be aware of the wet bulb reading.
4. IH will guide construction on work times and rest times.

C. Bill Zebick - Petro doing good job on dust control. Need to stay proactive with dust control. It is easier to control dust, than to react to dust created. Appropriate people trained on EPA requirements for dust control. Need documentation of dust control measures. Dust Control - Constant observation.

D. Petro has preliminary schedule for what staff will be on dust call - Lou Wehlitz, Rob Turnbull, and Don Goetz on dust control distribution list.

E. ACTION ITEM FDF to contact Paul Disney (First meet with Lou Wehlitz and Gregg Johnson) about having someone that is here on site be able to be contacted for dust control purposes.

F. Petro to seal up at end of night and end of week to help suppress dust.

II. CHANGE ORDERS

A. RFP for abandoned gas line removal being generated now.

B. Lou Wehlitz has RFP for electrical, service routing.

C. Petro will have no power to subcontractors on July 1, 1997. Petro needs to know what will it take to get generators to cool trailers for break/rest areas.

MEETING NOTES - Continued

D. Metal kiddie swimming pools can be used for secondary containment.

E. Petro - Steve has seen fence RFP.

F. Don Goetz has call into Gary Evans for flanging abandoned gas line in way of spillway construction.

G. Lockout/Tagout for Sed basin - let Bill Zebick know when pulling locks off at sed basin. Also, using Lockout/Tagout at Sed. basin for Barrett.

H. Bill Zebick facility owner of the ground in construction area. U.E. facility owner for power lines.

III. SCHEDULE BRIEFING

A. FDF scheduler does not work on Mondays. Don Goetz to chedk with Dave Duderstadt.

B. Petro to give FDF 4 Week Schedule: one week history, one week progress, two week look ahead. Petro to get with Carlos Pratt on Thursdays to show what will submit for next week. Carlos Pratt may comment then bring schedule to progress meeting.

C. Key Players: Jeff Middaugh - Safety
Tim Keaty (Carlos Pratt) - Scheduler
Lou Wehlitz, Don Goetz,
Dan Bodine, Jeph McMichen

D. Be Careful to look at complete schedule vs. 4-week window schedule.

IV. QUALITY & INSPECTION - DAN BODINE

A. QC in field is satisfactory. Not all test passing, but problem was addressed and retesting is passing.

B. Petro undercutting on west side to prepare a subgrade of suitable material for berm construction.

C. Bryan Erisman attends daily safety meetings

V. DESIGN ISSUES

A. DCN/RCI

MEETING NOTES - Continued

1. Dan Bodine officially has 4 DCN's.
   a. DCN 001 - Void
   b. DCN 002 - Wood Chips - Approved
   c. DCN 003 - Fencing - Approved
   d. DCN 004 - Drop in elevation for GIS - Evaluation in progress
   e. Two others: 1). list of 10 facilities of Geomembrane liner - which consists of a change in wording of spec to say "at least 10", 2) Trapezoidal ditch v. V-Notch which consists of steepening slope & changing.ditch. Not a problem as long as steeper slopes are temporary, but - need to go back to 6:1 slopes for low maintenance. Reflect ditch change on drawings.

B. Fence involved in west channel realignment going up in the next two weeks. Petro awaiting return phone call from Dave Vaugner for fence training issues. Can move fences where railroad is removed.

C. Paperwork on layout coordinates for decon. Facility.

   1. ACTION ITEM - FDF needs to generate DCN.

D. GeoSyntec has no more RCI's for now.

E. Petro has potential RCI's/DCN's

   1. Fabric for under Sed basin RIPRAP. Petro rather pin fabric than spot sew
   2. Specs over plans, details over plan views.
      - Discrepancy between specs & plans - 304's vs. 57's
      - Sed basin berm road - if specs rule, proper material (304's) would be used

F. A phone call to GeoSyntec can take care of RCI's , RCI will automatically upgrade to DCN if required.
   - Petro send concerns to Dan Bodine.
   - Don Goetz - Petro's first contact.

VI. <u>SUBMITTALS</u>

A. NO. 31 - Liner Layout Plan - Waiting on GeoSyntec's comments. Rick Heath turned in comments.

B. GeoSyntec/FDF meeting this afternoon for GCL submittals. Petro will have Rick Shairbaum present for submittal issues.

VII. <u>CONSTRUCTION ISSUES</u>

MEETING NOTES - Continued

A. Bill Zebick - concern:
Make sure people other than OSDF and construction coordinate with Petro on entering OSDF areas. Others need to notify construction prior to entering areas.

B. Orange fence best defense for directing people away from OSDF Construction areas.

C. Need to make people on site aware on construction equipment limitations - operator's blind spots.

D. Check into videos, put out in everyone's weekly safety meetings - use NY death accident fatality example.

E. JJ Keller Safety - Training Documents
- Steve - Petro will check library . Need to know the view from "eyes of an operator".

F. ACTION ITEM - Get with Gregg Johnson to see what training materials are available for heavy equipment operation.

G. Laborers working around back hoes need safe distance between hoe & people.

H. Keep maintaining silt fence.

I. Use orange fence to control pedestrians from entering area.
- North side - Barricade - Barrett
- South side - Barricade - PETRO

VII. GENERAL ISSUES

A. Action Item - Petro - Need a copy of integrated schedule to coordinate efforts with other subs.

B. GeoSyntec - Are cut & fill balanced for Barrett NE Road construction?
- Concern for storage area that would interfere with Petro contract.

C. Indian artifacts - Stop work notify construction immediately if found.

D. 8:00 Tuesday - weekly walk downs with contractors
- Walk down information transmitted to Petro, in turn relayed to Petro personnel

MEETING NOTES - Continued

E. Petro still eeds to address heat stress on liner.

ME:tjr

FERNALD ENVIRONMENTAL MANAGEMENT PROJECT
FERNALD, OHIO

MEETING NOTES MN:SWP(OSDF):97-0032

SUBJECT: OSDF Phase I Construction Schedule and Progress Meeting

MEETING DATE: July 7, 1997

LOCATION: Fluor Daniel Fernald Office

ISSUE DATE: July 9, 1997 ECDC - 20100

DISTRIBUTION: + Attendees ++ Part-time * Author of Notes

FDF

+ *Maureen Enderle
Jeff Ellis
Mike Godber
+ Don Goetz
Rick Heath
Rick Holbrook
Gregg Johnson
Jim Jenkins
Uday Kumthekar
+ Tim Keaty
Rick McGuire
+ Jeff Middaugh
Carlos Pratt
Jim Turner

FDF

+ Dave Sablosky
Jim Salyers
Rob Turnbull
Lou Wehlitz
+ Bill Zebick

PETRO

+ Steve Brandstetter
+ Dave Williams
Rick Shairbaum

DOE

Joe Desormeau
Pete Darnell
Jay Jalovec
Joe Neyer
+ Don Pfister
Dennis Riley
+ Rod Warner

GEOSYNTEC

Dan Bodine
Ken Cargill
+ Jeph McMichen

SAFETY TOPIC

Safety around the home - be aware of children in and around your homes and/or subdivisions, they are out of school for the summer and playing in or near streets and roadways.

TQM

When in doubt follow manufacturers recommendations and specifications.

Balance

Take a vacation.

RECEIVED
JUL 10 1997
D. Hacker

MEETING NOTES - Continued

I. SAFETY, RADIATION PROTECTION, FIRE & INDUSTRIAL HYGIENE

A. FDF still to determine if Petro's physiological monitoring equipment is compatible with FDF's equipment for calibration purposes.

B. Majority of Barrett's people briefed on Petro's matrix and vice versa for work in common area. Wise briefed on Petro's matrix on July 7, 1997 in the a.m. Wise to contact Petro each day before going into area. Wise to be installing monitors on power poles along west side of Sed. basin.

C. U. E. needs to change Facility Owner tags on electrical poles. Petro need to coordinate to take off LO/TO tags and locks.

D. Abandoned gas line removal went well. FDF IH took sample for asbestos. Waiting on results.

E. At south end of abandoned gas line, "water" leakage. FDF to check with Frank Johnston on monitoring .

F. Walk through items:
   Security fence personnel didn't have on proper PPE-corrected.
   Petro trailers need to be inspected before use.
   Jumping jack being used without wearing metatarcels-corrected immediately.
   Inspected two scrapers - repaired and put in service.

G. Petro request: Specific times for orientations to relieve burden. FDF and Petro to handle walk on briefings.

H. Petro's matrix moved to SCWA parking lot.

I. Be aware of others who do not heed Road Closed signs. Potentially move one sign closer to RIMIA entrance.

J. Keep a watch out for sub tier contractors using proper PPE.

K. Best cure for dust problem is prevention.

II. CHANGE ORDERS

In good shape, nothing to report.

MEETING NOTES - Continued

III. SCHEDULE BRIEFING

A. Petro to install 48" diameter pipes across roadway to sed. basin on Wednesday July 9, 1997. Installation dependent on submittal approval.

B. Still grubbing/stripping topsoil, excavating Cell I areal. Currently Petro has an approximately 4' excavation consisting of 3' topsoil with roots penetrating approximately 1 foot deeper.

C. Petro switching 2 operators to demolition and road removal. Road demolition to extend for entire week.

D. Friday, July 11, 1997, Petro plans to have mass excavation of topsoil and clay east of former N. E. Road.

F. Approximately 13 laborers on site for Petro right now and expect to get up to 26 for next week.

E. Petro is working on Saturday, July 12, 1997.

F. Petro and FDF updating detailed schedule every week.

IV. QUALITY

A. RCI to be issued on use of coupling band used around 36" diameter pipes in emergency spillway.

B. ACTION ITEM: RIPRAP drawing shows 9' wide, needs to be at least 13' in the spillway..

C. Deployment of Geotextile planned for Tuesday afternoon or Wednesday of this week.

D. Issue of compaction around 36" CMP in sed. basin spillway - Petro to remove after concrete set, recompact in lifts at wet of optimim.

V. DESIGN ISSUES

A. FDF still to write DCN for decontamination pad.

MEETING NOTES - Continued

VI. SUBMITTALS

A. Embedment sand/Concrete - need out ASAP. Still in Nick Heath's possesion.

B. New SPR 7 revision out - Need spotter for equipment when your 3' of interference. FDF to supply Petro with latest revisionof SPR 7.

VII. CONSTRUCTION ISSUES

VIII. GENERAL ISSUES

A. ACTION ITEM: Integration of Barrett and Petro's construction areas. FDF to get with Lou Wehlitz. Issue needs to be addressed in Integration Meeting.

B. Shoes for the liner - Petro retrieving letter for justification of wearing tennis shoes on liner.

ME:tjr

FERNALD ENVIRONMENTAL MANAGEMENT PROJECT
FERNALD, OHIO

FD FERNALD CONTRACT
DE-AC24-92OR21972

MEETING NOTES MN:SWP(OSDF):97-0035

SUBJECT: OSDF Phase I Construction Schedule and Progress Meeting

MEETING DATE: July 14, 1997

LOCATION: Fluor Daniel Fernald Office

ISSUE DATE: July 21, 1997 ECDC - 20100

DISTRIBUTION: + Attendees + + Part-time * Author of Notes

FDF

+ *Maureen Enderle
Jeff Ellis
Mike Godber
+ Don Goetz
+ Rick Heath
Rick Holbrook
Gregg Johnson
Jim Jenkins
Uday Kumthekar
+ Tim Keaty
Rick McGuire
+ Jeff Middaugh
Carlos Pratt
Jim Turner

FDF

Dave Sablosky
Jim Salyers
Rob Turnbull
Lou Wehlitz
Bill Zebick

PETRO

+ Steve Brandstetter
+ Dave Williams
Rick Shairbaum

DOE

Joe Desormeau
Pete Darnell
Jay Jalovec
Joe Neyer
+ Don Pfister
Dennis Riley
Rod Warner

GEOSYNTEC

+ Dan Bodine
Ken Cargill
Jeph McMichen

SAFETY TOPIC

Be aware of severe weather conditions. Work shut down until 30 minutes after last lightning strike.

TQM

Don't jump to conclusions. Be aware of the whole situation and get the facts..

Balance

Advanced tickets for concerts downtown and symphony for this fall.

MEETING NOTES - Continued

I. SAFETY, RADIATION PROTECTION, FIRE & INDUSTRIAL HYGIENE

A. FDF got with Petro on physiological monitoring equipment. Petro's manufacturer did supply compatible calibrations equipment.

B. Lockout/Tagout (LO/TO) goes into effect July 15, 1997. FDF gave Petro a list of personnel not qualified for new LO/TO.

C. Results of asbestos testing - positive for asbestos on gas line removed in Sed. Basin. Material needs to be segregated and disposed of properly. Verify which personnel are asbestos trained. IH issued asbestos permit will spell out details.

D. Walk thru items:
Cigarette butts around area - smoking in designated areas only.
Holes from gas line removal backfilled.

E. Petro request: 6:45 am and 12:45 pm for orientation times.

F. Petro's matrix moved into break trailer T545 in SCWA parking lot. Radio kept in trailer for emergency communications.

G. Road closed sign moved south closer to RIMIA.

H. Make sure all new personnel are aware of site specific safety (PPE, seat belts, etc.)

I. 10 MPH speed limit in OSDF work areas. 30 MPH signs removed form former NE Entrance Road.

J. Cut Excavation - not confined space if west end kept open; IH does not need to monitor.

K. Flagger on roadway to flag Hoe due to size of Counter balance.

L. Be constantly aware of sabotage!!!

M. Low hanging wires (approx. 15' off ground) on the south end of former NE> road.

N. Jeff Middaugh on vacation July 21, 1997 - July 25, 1997. Safety issues to be forwarded to Gregg Johnson.

MEETING NOTES - Continued

II. CHANGE ORDERS

A. Dave Sablosky out of town July 15 -16, 1997.

III. SCHEDULE BRIEFING

A. Continuing Cell I Excavation.

B. Started channels and berms.

C. This week putting in 48" pipes under road to Sed. basin.

D. Clay liner excavation to begin next Wednesday, July 23, 1997.

E. Petro mobilized another D8 dozer; will hang on to scrapers.

IV. QUALITY

A. CQA coverage for north excavation area.

B. No more riprap to be added to principal spillway in the Sed. basin.

V. DESIGN ISSUES

A. B. L. Payne to give handwritten field notes to FDF daily. Electronic files to be generated weekly.

B. FDF checked slopes of Sed. Basin, with basin north and west walls are too steep out of specification.

C. Petro unable to install silt fence around stockpiles today; to be done by Wednesday, July 16, 1997.

D. Thursday at 12:45 briefing, FDF to bring Doug Abbott to OSDF site to inspect erosion controls

E. GeoSyntec went to quarry for Type D riprap on Saturday, July 12, 1997.

VI. SUBMITTALS

A. GeoSyntec waiting on Petro's test results for #57's.

MEETING NOTES - Continued

B. Granular embedment fill failed. Labs used wrong sieve in testing process. Petro to resubmit another sample of sand material.

C. Vendor's need to provide more complete certification data for submittals.

D. Submittal # 24 liner fabric GCL, etc - went back to CDC as B status. Need to be completed. Petro ordered enough liner material for shear tests.

VII. CONSTRUCTION ISSUES

A. Information submitted can be in the form of a letters.

B. FDF requested to view GeoSyntec's pictures of upstream side of principal spillway fill replacement.

VIII. GENERAL ISSUES

A. Petro and Barrett agreed current boundary (rope and T posts) is sufficient to keep two contractors separated on east side of OSDF site.

B. FDF to look into 20,00 gallons storage tanks for water storage, and water wagon filling.

C. Petro has grid system for clay stockpiles for sampling purposes. Grid system set up in field but not on paper yet.

D. Gray clay to be stockpiled separately. Gray clay can be used for north berm construction only; cannot be used for liner construction. Still need to be tested.

E. Petro still trying to get information on tennis shoes on liner.

ME:tjr

RECEIVED 25 JULY 1997 J.R.
1264

DRAFT AS PER R. SCHAIRBAUM (PET)

FDF ON-SITE DISPOSAL FACILITY (PHASE I) PROJECT
Petro Environmental Technologies, Inc.

PREPARATORY PHASE MEETING MINUTES

Date: July 25, 1997

Definable Work Feature: Construction of the compacted clay liner

Personnel Present:

Steve Brandstetter Dave Williams
J. Richard Schairbaum

Review of Applicable Sections (list):

02225 - Compacted Clay Liner

Review of Contract Plans: __✓__ (✓)

Material and Equipment Submittals Complete and Approved (list):

Equipment List: Submittal No. 017, Rev. 1; Document No.: PET-019, Rev. 1
Meth. for Removal of Rock Particles: Submittal No. 017, Rev. 1; Document No.: PET-019, Rev. 1
Spec. Sheet/5 lb. Sample of Bentonite: Submittal No. 010, Rev. 0; Document No.: PET-012A, Rev. 0
Source of Clay Liner Material: Submittal No. 046, Rev. 0; Document No.: PET-051, Rev. 0

Testing/Inspections/Controls Required (Describe):

Testing:

The clay liner material sources must be identified at least 10 calendar days prior to use for conformance testing by GeoSyntec. The compacted clay shall meet the following requirements:

- Classified as lean clay (CL) or fat clay (CH) (ASTM D-2487). 25/7/97 J.R.
- Have a PI (ASTM D-4318) of at least 10%, but ~~not~~ less than 40%.
- Meet particle size requirements (ASTM D 422) [Section 02225-2.01.C.3].
- Have a hydraulic conductivity of not more than $1x10^{-7}$ cm/s when constructed and laboratory tested per ASTM D-5084 at a confining pressure of 5 psi.

Quality Control:

Petro Environmental's QCM, GeoSyntec, and/or FDF will verify the following:

- That rock particles with a max. dimension larger than 2-inches are continuously removed during placement, processing, and compaction.
- The moisture content and dry density of clay material placed is within the acceptable permeability zone (APZ) as follows:

- Moisture content with a degree of soil saturation of at least 90%;
- Moisture content not greater than 3% points wet of optimum (ASTM D-698);
- Dry unit weight of at least 95% of Standard Proctor (ASTM D-698).

GeoSyntec will provide Petro Environmental with specific moisture content ranges and associated dry unit weights that satisfy these criteria.

Work Area Inspection. Required Preliminary Work Complete and Acceptable? __✓__ Yes _____ No
If No, Describe Deficiency & Corrective Action.

All Required Materials and Equipment on Hand: __✓__ Yes _____ No
If No, Describe Deficiencies and Corrective Action.

Safety Activity Hazard Analysis Reviewed: __✓__ (✓) (Reference Final Safe Work Plan)

Discussion of Procedures for Completing Work: __✓__ (✓)

Construction Tolerances and Level of Workmanship:

Material Placement:

- Place rock particles removed in stockpile area approved by CM.
- Place compacted clay only after approval from GeoSyntec has completed material & performance evaluations.
- Prepare and survey subgrade prior to scarification.
- **Scarify** subgrade surface to a **depth of 2-inches** using soil stabilizer; **establish moisture content**.
- Construct clay liner to grades and thicknesses shown on Contract Drawings.
- Where compaction is to be performed via a Cat 815B, place clay in loose lifts with a thickness of **7 to 8-inches**. Where compaction is to be performed via hand equipment, place clay in loose lifts with a loose thickness **of 4-inches ± 1-inch**.
- Remove rock particles with a max. dimension of greater than **2-inches** (via Hamm RACO 250 soil stabilizer).
- Do not place any succeeding lifts until GeoSyntec has completed performance testing of preceding lift.
- **Prior** to compacting, thoroughly **scarify** previous lift **to 2-inches depth**. Moisture condition preceding lift as necessary.
- Max. acceptable soil clod size is **3-inches**. After each pass with soil stabilizer, remove visible rock particles with max. dimension **larger than 2-inches**. A **min. of 2 passes** with soil stabilizer is required.
- **Moisture condition loose lift of clay prior to compaction** [see Section 3.03 (L)(1,2&3); Page 02225-6].
- Do not place/compact clay at temperatures below 32° F. Do not place during periods of precipitation.

Material Compaction:

- **Compact** loose lifts using a **min. of 6 passes** with compaction equipment.
- Construct the transition from an existing full-depth section of compacted clay to the beginning of an adjacent section, by cutting back the end of the full-depth section at 5H:1V, scarifying the slope of the full depth section, and then immediately placing the adjacent lifts.

Perforations:

tro must backfill perforations made into clay liner (i.e. - sand cone tests) as identified by GeoSyntec. GeoSyntec ll fill any perforations resulting from nuclear density tests. Perforations are to be filled with mix of min. 10% bentonite by weight and clay liner material. **Place bentonite-soil mix in 3-in. thick loose lifts and compact.**

Tolerances:

Construct clay liner to **within + 0.1 feet of thickness and to within ± 0.1 feet of elevations** shown on Contract Drawings.

Protection Of Work:

- Avoid crusting and desiccation - regularly moisture condition surface of clay. If cracking is observed, scarify, moisture condition, and recompact clay surface. Seal roll the surface to reduce evaporation or alternately use Visqueen to inhibit drying.
- Crusting/Desiccation Repairs - scarify to depth of **2-in.** or depth of desiccation, moisture condition, process, and recompact.
- Seal roll the clay liner surface at the **end of every work day** and when **precipitation is forecast**.
- Place a clay protection layer over compacted clay liner if construction of overlying layers is delayed more than 10 days. The loose thickness of the protective layer shall be **8-in. nominal**. Remove the protective layer prior to placement of overlying lifts or geosynthetic clay liner. This protective layer may be removed in sections in coordination with ongoing construction.

DF's/GeoSyntec's Comments During Preparatory Phase Meeting:

Applicable Pre-Work Plans Accepted by FDF: _✓_ Yes ____ No
If No, Is An Interim Plan Being Utilized?: _____ Yes _____ No

J. Richard Schairbaum, QC Manager
Petro Environmental Technologies, Inc.

FERNALD ENVIRONMENTAL MANAGEMENT PROJECT
FERNALD, OHIO

FD FERNALD CONTRACT
DE-AC24-92OR21972

MEETING NOTES MN:SWP(OSDF):97-0042

SUBJECT: OSDF Phase I Construction Schedule and Progress Meeting

MEETING DATE: July 21, 1997

LOCATION: Fluor Daniel Fernald Office

ISSUE DATE: July 25, 1997 ECDC - 20100

DISTRIBUTION: + Attendees ++ Part-time * Author of Notes

FDF

+ *Maureen Enderle
Jeff Ellis
+ Mike Godber
Don Goetz
+ Rick Heath
Rick Holbrook
Gregg Johnson
Jim Jenkins
Uday Kumthekar
Tim Keaty
Rick McGuire
Jeff Middaugh
+ Carlos Pratt
Jim Turner

FDF

Dave Sablosky
Jim Salyers
Rob Turnbull
+ Ray Webber
Lou Wehlitz
Bill Zebick

PETRO

+ Steve Brandstetter
Dave Williams
Rick Shairbaum

DOE

Joe Desormeau
Pete Darnell
Jay Jalovec
Joe Neyer
+ Don Pfister
Dennis Riley
Rod Warner

GEOSYNTEC

+ Dan Bodine
Ken Cargill
+ Jeph McMichen

SAFETY TOPIC

Be careful with kids and swimming pools. Be aware of motorcycles.

TQM

Make sure nonconformances are brought to the surface and addressed. Address it, correct it, and move on.

Balance

With little time off during construction, make good use of non work time.

MEETING NOTES - Continued

I. SAFETY, RADIATION PROTECTION, FIRE & INDUSTRIAL HYGIENE

A. Watch speed in construction area.

B. Service technicians need to conform to all safety rules tool (i.e. proper clothing and equipment inspection).

C. Make sure controls for spill containment are in place before a spill occurs.

D. Give heavy machine operators room to move.. Hand wave to acknowledge presence.

E. Watch out for lightning during inclement weather.

F. On smog alert days, try to shut vehicles down when not in use. Watch where you park. Avoid dry grass areas.

G. Dust; be alert to changing conditions.

H. Low hanging communication wires on former NE Road east of RIMIA are now flagged with yellow tape.

I. Alert vendors from off site of dust control requirements. They need lower their vehicle speed to help control dust.

II. CHANGE ORDERS

A. Dave Sablosky and PETRO to get together after this meeting to address previous change orders and get them in order.

B. Change Order for additional topsoil in TAWA area is forthcoming.

III. SCHEDULE BRIEFING

A. Petro continuing Cell I excavation with 3 crews.

B. By end of day on 7/26/97, mass excavation of Cell 1 should be complete. Monday (7/28/97) morning will be for fine tuning excavation prior to clay placement.

C. Petro, FDF, GeoSyntec and DOE to sit down this week to brainstorm on how to begin placing clay in one area while fine tuning other areas of Cell I. Scheduled for 8:00 am Wednesday, July 23, 1997.

MEETING NOTES - Continued

D. Continuing berms and channels using excess excavation that meets the requirements of Section 02200 as fill material.

E. Still working in Sed. basin area. Need survey data on berms and slopes.

F. Horizontal monitoring well probably working on end of next week.

G. Clay placement scheduled for Tues. 7/29/97, pending on weather.

IV. QUALITY

A. GeoSyntec issued an NCR (1702-001) on size of rocks in north perimeter berm. DCN-019 prepared on rock fragment sized for nominal 8" lifts to increase maximum nominal size of largest rocks to be 5". On smaller 4" lifts, 3" maximum size is still the same. DCN applies to earthwork covered in spec. 02200. GeoSyntec to check for exceptions of rock size in other specs an don drawings.

B. 48" culverts to Sed. basin dented. Petro waiting on proper jack before attempting to jack the dent out the pipe. Petro to contract FDF QA after jacking out dent and before backfilling over the pipes.

C. Samples 7 and 10 clay samples failed the #200 sieve. GeoSyntec does not have permeability results of samples yet therefore cannot determine extent of the problematic sore. GeoSyntec will notify FDF when results are in and advise on how to use. GeoSyntec recommendations is to take tow samples around failing test sample and examine results.

D. DCN needs to be written for OAC requirement of one hydrometer test for every 1500 cy of clay soil. Petro and FDF to discuss after this meeting.

E. One load #57's around 8" flow riser. Wrap around risers was not installed correctly. It was supposed to be 2 wraps of wire mesh followed by Geotextile, but instead it is one wrap wire followed by one wrap Geotextile followed by wrap of wire. FDF to determine whether it is an RCI or DCN and initiate appropriate paperwork.

F. FDF audit on Petro. DCN's and drawings in excellent order. Doing a great job on documentation of work. Need to keep up inspections and good paperwork.

V. DESIGN ISSUES

A. Sed. basin pipe.

MEETING NOTES - Continued

B. DCN-011 should be approved this afternoon.

C. DCN-015 granular drainage material #78's. Modified % passing of ½ sieve from 90% to 85%.

D. DCN-016 - Decon Facility - Rick Heath has.

E. DCN -017 - Decon Facility Pump an swing check valve. Both are acceptable by GeoSyntec needs to know materials of construction for pump. Needs to clarify pressure rating of value.

F. DCN-018 - Petro initiated for larger soil stabilizer. Critical components are the same as the specific limit.

G. DCN-019 - Rock fragment size change. For 8" lifts, max. Fragment size is 5".

H. Don Goetz does not need to sign RCI's , but once to see them for information.

VI. SUBMITTALS

A. GeoSyntec has no submittals in progress at this time.

B. Submittals in FDF's possession, awaiting comments and/or signatures from FDF Engineering.

C. Submittal 051 need to be commented on right away. FDF QA ready to sign off on it.

VII. CONSTRUCTION ISSUES

Nothing to report.

VIII. GENERAL ISSUES

A. Dust is a problem for all contractors. Now that we have as many four contractors in same area, we need cooperation between all parties for dust control..

B. Petro looked into 20,000 gal frat tank but will be no improvement form what is being done now.

ME:tjr

OSDF PHASE I CONSTRUCTION SCHEDULE AND PROGRESS MEETING

Meeting Agenda

Monday,
July 28, 1997

Safety Topic
T.Q.M. Topic
Balance Topic

- SAFETY, RADIATION PROTECTION, FIRE AND INDUSTRIAL HYGIENE
- CHANGE ORDERS
- SCHEDULE BRIEFING
- QUALITY
- DESIGN ISSUES
- SUBMITTALS
- CONSTRUCTION ISSUES
- GENERAL ISSUES
- ACTION ISSUES

FERNALD ENVIRONMENTAL MANAGEMENT PROJECT
FERNALD, OHIO

MEETING NOTES MN:SWP(OSDF):97-0043

SUBJECT: OSDF Phase I Construction Schedule and Progress Meeting

MEETING DATE: July 28, 1997

LOCATION: Fluor Daniel Fernald Office

ISSUE DATE: July 30, 1997 ECDC - 20100

DISTRIBUTION: + Attendees ++ Part-time * Author of Notes

FDF

+ *Maureen Enderle
Jeff Ellis
+ Mike Godber
+ Don Goetz
+ Rick Heath
Rick Holbrook
Gregg Johnson
Jim Jenkins
Uday Kumthekar
+ Tim Keaty
Rick McGuire
Jeff Middaugh
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Bill Zebick

PETRO

+ Steve Brandstetter
+ Dave Williams
Rick Shairbaum

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Pete Darnell
Jay Jalovec
Joe Neyer
+ Don Pfister
Dennis Riley
Rod Warner

GEOSYNTEC

+ Dan Bodine
Ken Cargill
+ Jeph McMichen

SAFETY TOPIC

Make sure you get enough fluids in your body. Keep water with you on the job.

TQM

Take the time to talk to all the players and keep them involved.

Balance

Be patient.

MEETING NOTES - Continued

I. SAFETY, RADIATION PROTECTION, FIRE & INDUSTRIAL HYGIENE

A. Last week's heat stymied crews. All did good job getting work done.

B. Three contractors working in same area: Petro, VBS, Barrett. Petro briefed VBS employees this morning. Very important to get everyone on board with what's going on in all construction areas.

C. Petro's briefing includes Certified Area (CA) awareness.

II. CHANGE ORDERS

Nothing to report.

III. SCHEDULE BRIEFING

A. Clay liner to be started on Thursday. Proof rolled some of Cell I liner today.

B. Continuing to work on channel and berms. Working on east channel to allow Barrett to work in area next week.

C. Placing riprap at outlet of 48" culverts.

D. Still have a week or two of fine grading Cell I floor.

E. Not planning on excavating anymore of Cell II through what is needed for Cell I berms.

F. Plan on fine grading Sed. Basin tomorrow, July 29, 1997.

IV. QUALITY

A. Two NCR's written by GeoSyntec (1. Rock Size, 2. Compacted fill on North berm failed % moisture). FDF Engineering needs to sign off on NCR's.

B. Petro issued one NCR. FDF construction Manager needs to sign.

C. Dent in 48". Culvert has been repaired. Needs to be inspected by FDF QA.

D. GeoSyntec resampled LP-7. Took two more samples LP7.1 and LP7.2. Waitng for results of LP7.1 and LP7.2 prior to resampling LP-10. As per GeoSyntec there

MEETING NOTES - Continued

are also failing tests in other samples. Data needs to be further analyzed. Samples LP7.1 and LP7.2 still in Atlanta lab.

E. RCI/DCN needs to be written for frequency of hydrometer testing.

F. RCI/DCN to be generated for Geotextile and wire wrap around 8" low flow risers in Sed. basin. Petro to put 2 wraps wire and then Goetextile when clean sediment build up out of low flow risers.

V. DESIGN ISSUES

A. DCN-015 has not been received by GeoSyntec.

B. GeoSyntec has not yet seen DCN-016.

C. GeoSyntec has not seen controlled copy of DCN-017.

D. GeoSyntec returned DCN-018 to Don Goetz. FDF needs documentation on daily capacity and advantages of larger stabilizer. Need to determine if more rock pickers will be required. When 550 soil stabilizer arrives, Petro's Earthwork Plan needs to be revised.

E. FDF having Payne develop topo for western drainage channel. Petro to hold off on cutting western channel until get redesign from FDF and GeoSyntec.

VI. SUBMITTALS

A. Submittal #25 HDPE Materials has been signed by FDF engineering and is with FDF construction.

B. GeoSyntec holding on to submittal 044 for #57's. Waiting on test results.

VII. CONSTRUCTION ISSUES

Nothing to report.

VIII. GENERAL ISSUES

A. Heat Stress - Open issues concerning seamers on liner. Seamers on site last week in August for training.

ME:tjr

MEETING NOTES MN:SWP(OSDF):97-0043

SUBJECT: OSDF Phase I Construction Schedule and Progress Meeting

MEETING DATE: July 28, 1997

LOCATION: Fluor Daniel Fernald Office

ISSUE DATE: July 30, 1997ECDC - 20100

DISTRIBUTION: + Attendees + + Part-time * Author of Notes

FDF

+ *Maureen Enderle
Jeff Ellis
+ Mike Godber
+ Don Goetz
+ Rick Heath
Rick Holbrook
Gregg Johnson
Jim Jenkins
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+ Tim Keaty
Rick McGuire
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VIII. GENERAL ISSUES

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ME:tjr

FERNALD ENVIRONMENTAL MANAGEMENT PROJECT
FERNALD, OHIO

FD FERNALD CONTRACT
DE-AC24-92OR21972

MEETING NOTES MN:SWP(OSDF):97-0045

SUBJECT: OSDF Phase I Construction Schedule and Progress Meeting

MEETING DATE: August 4, 1997

LOCATION: Fluor Daniel Fernald Office

ISSUE DATE: August 5, 1997 ECDC - 20100

DISTRIBUTION: + Attendees + + Part-time * Author of Notes

FDF

+ *Maureen Enderle
Jeff Ellis
Mike Godber
Don Goetz
+ Rick Heath
Rick Holbrook
Gregg Johnson
Jim Jenkins
Uday Kumthekar
Tim Keaty
Rick McGuire
+ Jeff Middaugh
Carlos Pratt
+ Jim Turner

FDF

+ Dave Sablosky
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Ray Webber
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Joe Desormeau
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Jay Jalovec
Joe Neyer
+ Don Pfister
Dennis Riley
Rod Warner

GEOSYNTEC

+ Dan Bodine
Ken Cargill
+ Jeph McMichen

SAFETY TOPIC

Use same work safety practices at home especially during picnic time.

TQM

When in a situation where you're not the expert, consult the expert in the field. Have a contingency plan.

Balance

Spend time with family.

MEETING NOTES - Continued

I. SAFETY, RADIATION PROTECTION, FIRE & INDUSTRIAL HYGIENE

A. Unknown status of noise monitoring equipment used by Petro, FDF to investigate.

B. PPE - lack of seat belts. Office personnel also need to wear seat belts when visiting job site.

C. Minor injury last week. End result - bruised finger. Corrective action implemented. Safety training on back injuries and lifting.

D. Petro need to be aware of FDF's new vehicles - white bronco, grey Cheyenne.

II. CHANGE ORDERS

A. Dave Sablosky to issue change orders this week after making appropriate changes as discussed with Petro.

III. SCHEDULE BRIEFING

A. Landscapers scheduled this week to seed sed. basin and possibly some of northern swale.

B. Petro and GeoSyntec to meet after this meeting to discuss subgrade issues.

C. Began excavating Cell 2 today. Cell 2 material being taken to cell floor. Subgrade material excavated from cell floor going to west berm.

D. Trying large scale subgrade excavation now. Pipe in for horizontal monitoring well. Staking out alignment today. Waiting on pipefitters for installation.

E. Still need fine grading in several areas but are concentrating on critical path activities.

F. Petro to give FDF confirmed unit price for additional excavation from cell floor.

G. GeoSyntec to find out status of certification so Petro can start clay this afternoon (8/4/97). Petro to determine best way to handle cell floor by this afternoon - stabilizer versus excavation.

IV. QUALITY

A. Jack equipment still in 48" culvert. Need to check.

MEETING NOTES - Continued

V. DESIGN ISSUES

A. Dan Bodine reviewing DCN-021 - Amendments.

B. East side of western drainage channel to be redesigned temporarily. Dan Bodine still reviewing DCN.

VI. SUBMITTALS

A. Liner penetration boxes are main concern.

VII. CONSTRUCTION ISSUES

A. Roads Project needs approximately 2000 of fill. Jim Salyers to check with Petro on use of fill from sed. basin stockpile. FDF to have Barrett meet with Dave Williams (Petro) to coordinate. Also need to coordinate with VBS.

VIII. GENERAL ISSUES

A. Petro letters 32 and 33 - small issue is cost of retesting, but bigger issue is Petro's delay of GCL delivery. GCL needs to be on site for 28 days prior to use. Test results due in August 11. August 18 would be earliest date for GCI delivery.

B. FDF and Petro to meet and discuss interface shear testing on 8/5/97 in GeoSyntec Trailer (T503) at 1400.

C. Liner safety - heat stress, tennis shoes.

D. Deer on liner, need to resolve.

ME:tjr

RECEIVED 25 AUG. '97.
1264 JTM

MEETING NOTES MN:SWP(OSDF):97-0055

SUBJECT: OSDF Phase I Construction Schedule and Progress Meeting

MEETING DATE: August 18, 1997

LOCATION: Fluor Daniel Fernald Office

ISSUE DATE: August 25, 1997 ECDC - 20100

DISTRIBUTION: + Attendees + + Part-time * Author of Notes

FDF
Don Goetz
Tim Keaty
+ Jeff Middaugh

FDF
+ Lou Wehlitz
Bill Zebick

PETRO
+ Dave Williams
Steve Brandstetter

GEOSYNTEC
Ned Meekins
David Bonnett

SAFETY TOPIC

Be aware of children waiting for school buses in the morning hours and stopped school buses picking up and off loading children.

TQM

Keep your schedules up-to-date.

Balance

Spend time with family and friends, leaving work at work.

I. SAFETY, RADIATION PROTECTION, FIRE & INDUSTRIAL HYGIENE

A. Petro is moving forward on noise monitoring.

B. Use of seat belts has improved.

C. Safety has two safety awards to pass out to field personnel.

MEETING NOTES - Continued

D. Two first aid cases: need to ensure vendors are aware of our safety requirements; PPE, back-up alarms, weather, etc.

E. Straps on Geosynthetic rolls are one time use, unless load tested and approved for use by FDF.

F. North Access is not to be used as a parking lot.

G. New screener is in place; obey all posting and barricades.

H. Meeting between Petro, GSI, and FDF:
   a) Heat stress program to follow requirements of SPR 12-10
   b) Steel toe boot issue. More to follow, but FDF, Petro, and ASI are reviewing what is available for working on Geosynthetics
   c) Have MSDS in place; PPE identifed and special conditions (removal of tape coatings, etc.)

II. CHANGE ORDERS

A. No changes

III. SCHEDULE BRIEFING

A. Collect stockpile #4 samples; 8/19/97, to retest portions of previous test that failed.

B. Work will start on gravity inlet structures and roads.

C. Petro talking with subcontractor to install horizontal well.

D. Expecting perm results 8/19/97.

E. Ready to work stabilizer with spray bar as required.

F. GSI to start installation of geosynthetics on 9/8/97.

IV. QUALITY

A. Jack equipment still in 48" culvert.

V. DESIGN ISSUES

A. Need asbuilt data on sedimentation basin from L. Hirsch.

MEETING NOTES - Continued

B. Need Hirsch to asbuilt leachage lines to cells from manholes after lines are installed by village.

VI. SUBMITTALS

A. No Comments

VII. CONSTRUCTION ISSUES

A. Check on silt and construction fencing; repair as required.

VIII. GENERAL ISSUES

A. GCL will be stored in north layout down area.

B. All groups need be present at this meeting.

ME:dmw

Tuesday August 26, 1997 OSDF Phase I Meeting 0915 hours

Attendees:

GeoSyntec	Petro
Ken Cargill	Mark Mather
Jeph McMichen	Rick Schairbaum

FDF	
*Maureen Enderle	Don Goetz
Mike Godber	Rick Heath
Uday Kumthekar	Bill Zebick

* Author of notes

Safety Topic: Watch speed on former North Entrance Road and RIMIA access road.

TQM: Communicate. Talk the same language. When people come to an agreement, reiterate what has been agreed upon.

Balance: Take a break in between work and home. Leave disagreements in the confines of four walls at work. Don't take it home with you.

Topics Discussed:

A. Nonconformance Reports written for the OSDF.

1. West Berm - Rock in excess of 5" was placed. Brian Erisman observed rock in excess of 5" on Saturday 8/23/97. Petro short handed on rock pickers for structural fill on berm. Rock in berm covered by next lift before picked. As per Rick Schairbaum, Dave Williams instructed crew to uncover area in question to pick out rocks. As per Don Goetz, rocks are being picked and Brian Erisman is observing this.

2. Clay liner - Rock in excess of 2" in lane 1 in first compacted lift surface. Rock had been removed after second pass of stabilizer. Lift had been compacted and testing was being performed. Some rocks had not been removed after compaction. Specifications are vague as to if rock pickers need to pick after compaction prior to placement of next lift.

B. GeoSyntec's stated that their interpretation is to remove visible rock continuously throughout clay liner placement, processing, and compaction. Ohio ARAR says that 100% particles will not pass 100 sieve. GeoSyntec will not certify if visible rocks are not being picked.

C. Petro still has 4 rock pickers working even on the processed/screened material.

D. Petro stated that they need 2 GeoSyntec personnel to cover rock pickers 100% of the time. They are also having problems with waiting for GeoSyntec for inspection approval. Petro has documentation on delays and down time.

E. Petro asked for guidance from GeoSyntec on coordinating construction with CQC

personnel in order to place 3000 - 4000 cy of clay a day. They would like a path forward on what is needed to get the job done. As of today, the early completion date for the clay liner is Sept. 15 and the late completion date is Sept. 20.

F. FDF wants collective reasoning on how to get clay liner complete by 9/15/97. Need input from FDF, Petro and GeoSyntec.

G. FDF, namely Don Goetz, needs to be informed prior to any NCRs being written, either by radio or by informing Rob Turnbull.

H. Meeting to be reconvened at 1600 hours today.

Tuesday August 26, 1997 OSDF Phase I Meeting 1600 hours

Attendees:

GeoSyntec	Petro
Ken Cargill	Mark Mather
Jeph McMichen	Rick Schairbaum

FDF	
*Maureen Enderle	Don Goetz
Mike Godber	Mike Hickey
Uday Kumthekar	Bill Zebick

* Author of notes

Safety Topic: Pay attention to ragweed and your allergies.

TQM: If you don't know when to be silent, you won't know when to speak.

Balance: Enjoy Labor Day weekend. Petro not working on Saturday so as to come back rested.

Topics Discussed:

A. FDF (Bill Z.) asked for input on how to get the product needed in this construction season.

B. Petro (Mark M.) passed out Work Process Necessary to Construct Clay Liner - see attachment A.

C. New screener to be set up and operating on 8/27/97.

D. Petro expecting 60% efficiency from screening for clay processing.

E. Petro wants to achieve 3,600 cy clay placement per day. This will require GeoSyntec to maintain a nuclear gauge data turnover quicker than 2 hours.

F. Petro (Rick S.) passed out Approval to Place Succeeding Clay Lift form - see attachment B. He recommended that all parties would be required to sign form prior to lift placement.

G. FDF (Mike G.) passed out Procedure for Placing, Conditioning, and Compacting Clay Liner Material form - see attachment C.

H. Petro confirmed that scarification will occur after placement of each loose lift.

I. GeoSyntec (Ken C.) stated that GeoSyntec will not be present 100% of the time for placement of loose lift inspection. They will spot check thicknesses.

J. GeoSyntec confirmed that they will spot check removal of visible rock with maximum

dimension larger then 2". Jeph M. stated that he would like to be able to have a confidence level not to inspect/spot check for rocks. He would like to have confidence that the screening process along with pickers will remove sufficient rock in order to spot check only when they have time.

K. Need to remember that a second stabilizer will be coming on site. Will be able to place a greater quantity of clay.

L. GeoSyntec to inspect lift after second stabilizer pass and after compaction and notify Petro and FDF that next lift may be placed - confirmed by Ken C.

M. GeoSyntec confirmed Mike Godber's (FDF) statement that after compaction, there will be no visible rock present on the surface of the compacted lift. Continuous monitoring by GeoSyntec of the clay placement would then be needed.

N. GeoSyntec (Ken C. and Jeph M.) stated that they are not willing to sign Approval form for Clay Liner. GeoSyntec approves the whole product not by piecemeal. GeoSyntec would rather have inventory documentation. Only form they typically sign is a form used for the geosynthetics personnel prior to placement.

O. Petro requested communication between the same GeoSyntec technician and the same Petro QC person for verification of progress, path forward, and approval to proceed.

P. Petro/GeoSyntec must provide documentation of lift approval to FDF. As per specification, the compacted lift must be approved by CQC Consultant prior to placement of next lift. GeoSyntec offered to use a pictorial. FDF pointed out that GeoSyntec already has documentation of activities but this information has not been transmitted to FDF.

Q. GeoSyntec (Ken C.) that they have reviewed data collected to date. GeoSyntec is proposing to use an average Proctor value for each stockpile. Requirements would still apply: 1) Rock removal, 2) 95% Standard Proctor, 3) Moisture content within APZ, and 4) Density within APZ. If conditions change, then the Proctor would change.

R. GeoSyntec has a database of microwave moisture versus nuclear density gauge moisture. Ken C. wants to do a statistical analysis to adjust gauge reading based on database. Ken feels that rock content is major factor for variability of data. This adjustment will be for current week only. The adjustment factor may be adjusted next week as Petro gets out of unprocessed material and conditions change.

S. GeoSyntec stated that Petro needs to properly provide an even distribution of moisture. Petro needs to get moisture throughout lift and not just in top 2".

T. FDF (Uday) concerned that GeoSyntec not looking at a range of Proctors for stockpile. Need to look beyond just an average value. In actuality material may not all be mixed. GeoSyntec stated that if a problem area occurs , then they would reevaluate based on in place one point Proctor.

U. Petro requested adjustment factor information for field QC personnel. GeoSyntec (Ken C.) stated that information will be provided to Petro and FDF so that on the spot results and

decisions can be made.

V. FDF (Mike H.) wants to enforce specification for using spray bar on stabilizer for moisture conditioning, if moisture conditioning is necessary. All FDF personnel need to enforce spray bar spec. Water truck can be used to keep clay wet after compaction.

W. Subgrade needs to be moisture conditioned prior to clay placement. Subgrade needs to be in the same moisture range as the clay liner material placed over it.

X. GeoSyntec reiterated that this average Proctor is only a guide. It will give instantaneous data but is not cast in stone and can be adjusted.

Y. FDF (Mike H.) summarized. FDF, Petro, GeoSyntec all in concurrence with adjusted path forward.

Z. Petro requested GeoSyntec clay liner personnel presence at 0700 and 1230 safety meetings. Also requested that GeoSyntec clay liner techs provide communication with Bob Elkin and Dave Williams as to where progress is for that day.

AA. GeoSyntec confirmed that average Proctor data will be available to Petro by 0700 on 8/27/97.

BB. Meeting adjourned except those to meet about QA issues.

RECEIVED 27 AUG. 1997

1264

Tuesday August 26, 1997 OSDF Phase I Meeting 0915 hours

Attendees:

GeoSyntec	Petro
*Ken Cargill	Mark Mather
Jeph McMichen	Rick Schairbaum

FDF	
*Maureen Enderle	Don Goetz
Mike Godber	Rick Heath
Uday Kumthekar	Bill Zebick

* Author of notes

Safety Topic: Watch speed on former North Entrance Road and RIMIA access road.

TQM: Communicate. Talk the same language. When people come to an agreement, reiterate what has been agreed upon.

Balance: Take a break in between work and home. Leave disagreements in the confines of four walls at work. Don't take it home with you.

Topics Discussed:

A. Nonconformance Reports written for the OSDF.

1. West Berm - Rock in excess of 5" was placed. Brian Erisman observed rock in excess of 5" on Saturday 8/23/97. Petro short handed on rock pickers for structural fill on berm. Rock in berm covered by next lift before picked. As per Rick Schairbaum, Dave Williams instructed crew to uncover area in question to pick out rocks. As per Don Goetz, rocks are being picked and Brian Erisman is observing this.
2. Clay liner - Rock in excess of 2" in lane 1 in first compacted lift surface. Rock had been removed after second pass of stabilizer. Lift had been compacted and testing was being performed. Some rocks had not been removed after compaction. Specifications are vague as to if rock pickers need to pick after compaction prior to placement of next lift.

B. GeoSyntec's stated that their interpretation is to remove visible rock continuously throughout clay liner placement, processing, and compaction. Ohio ARAR says that 100% particles will not pass 100 sieve. GeoSyntec will not certify if visible rocks are not being picked.

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F. FDF wants collective reasoning on how to get clay liner complete by 9/15/97. Need input from FDF, Petro and GeoSyntec.

G. FDF, namely Don Goetz, needs to be informed prior to any NCRs being written, either by radio or by informing Rob Turnbull.

H. Meeting to be reconvened at 1600 hours today.

Tuesday August 26, 1997 OSDF Phase I Meeting 1600 hours

Attendees:

GeoSyntec	Petro
Ken Cargill	Mark Mather
Jeph McMichen	Rick Schairbaum

FDF	
*Maureen Enderle	Don Goetz
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* Author of notes

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B. Petro (Mark M.) passed out Work Process Necessary to Construct Clay Liner - see attachment A.

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D. Petro expecting 60% efficiency from screening for clay processing.

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L. GeoSyntec to inspect lift after second stabilizer pass and after compaction and notify Petro and FDF that next lift may be placed - confirmed by Ken C.

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X. GeoSyntec reiterated that this average Proctor is only a guide. It will give instantaneous data but is not cast in stone and can be adjusted.

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Z. Petro requested GeoSyntec clay liner personnel presence at 0700 and 1230 safety meetings. Also requested that GeoSyntec clay liner techs provide communication with Bob Elkin and Dave Williams as to where progress is for that day.

AA. GeoSyntec confirmed that average Proctor data will be available to Petro by 0700 on 8/27/97.

BB. Meeting adjourned except those to meet about QA issues.

A

August 26, 1997

Work Process Necessary to Construct Clay Liner
Construction Goal 3,000 yards in place per Work Day
59,000 Cu. Yards of Clay Liner to Complete

PETRO ENVIRONMENTAL TECHNOLOGIES

1. Process Clay Continuously - (2) Finlay 360 cubic yards per hour Screen Plants
2. Load and continuously transport 400 yards per hour; (25) truck loads per hour
3. Place lift, Pick Rock, Condition Clay, Compact Lift; D-6 Dozer, Stabilizer, 815 Compactor, 3 Laborers and Loader
4. Interpret Geo Technical Information and Adjust Conditioning/Compactive Effort
5. Place Lifts in Efficient, Safe Work Plan, Typically Lane One (NE) to Lane Eight (SW)
6. Do not change the orderly placement of material from day to day and from hour to hour.

GEOSYNTEC CONSULTANTS

1. Continuously Inspect Rock QC Removal ~ 15 Acres per day, 5 acres of lift per day after each of three operations – Placement, Stabilizing twice, Compaction
2. Perform moisture and density testing on 220,000 sq. ft. per day on new material and on intermittent re tests. 5 test per acre per lift; 25 moisture and density tests.
3. Communicate Results of Geo technical tests in Useable Time Frame. Actual Results every 2 hours, previous day's tests no later than 7 am (by Fax)
4. Continuously staff the clay liner installation for testing

Operation	Production Capabilities	Production Expectation
Clay Processing	5,500 yards per day – expecting 60% efficiency	3,600 yards per day
Place Lift	7,400 yards per day	4,000 yards per day
Stabilize Lift	3,600 yards per stabilizer/day	3,600 yards per day
Pick Rock	2 acres per man per day	6 acres at three lifts (4,850 cu. yds)
Compaction	6,000 yds per compactor/day	3,600 yards per day

PETRO

Petro Environmental will work 6 day weeks, but for Aug. 30. We will eliminate each limiting factor of the clay placement, currently clay processing (scope change), to be complete Sept. 20, 1997. Our best expectation is to acheive 3,600 yards per day and complete on Sept. 16. Geosynthetic Clay Liner will be made part of the operation on or about Sept. 15.

The clay liner placement may need to be adjusted to make the North half available for GSI mobilization on 9/15, in which case, QC test results will need to be complete and made available every 2 hrs.

APPROVAL TO PLACE SUCCEEDING CLAY LIFT

B

OSDF (Phase I) Project - Cell I
Fernald Facility, Hamilton, Ohio
Project No. FSC 597

Date: _____

The undersigned have verified the following to be true and in compliance with Contract Specifications:

- The dry densities and the moisture contents of the previous clay lift were within the Acceptable Permeability Zone which was developed in accordance with Technical Specification Section 02225.

- The previous clay lift was scarified to a minimum depth of 2-in. with the RACO SS250 soil stabilizer *prior* to placement of the succeeding lift; _____ ***or***

- Scarification occurred *after* placement of the 8-in. thick succeeding lift to minimum depth of 10-in. with the RACO SS250 in order to scarify the previous lift a minimum depth of 2-inches. _____

- All visible rocks greater than 2-inches in diameter and clods whose maximum size were greater than 3-inches, were removed from the previous clay lift prior to placing the succeeding clay lift.

As of this date, the succeeding lift of clay is approved for placement as described in the following:

Lane No(s).: _____ Lift No(s).: _____

Description: _____

_____

_____

_____

Dave, Williams, General Superintendent Petro Environmental Technologies, Inc.	Quality Control Representative Petro Environmental Technologies, Inc.
Construction Quality Control Consultant GeoSyntec Consultants	QA/QC Team Leader Michael W. Godber (Document Reviewed By)

PROCEDURE FOR PLACING, CONDITIONING, AND COMPACTING CLAY LINER MATERIAL.

SCARIFICATION

QUESTION:

WILL SCARIFICATION OCCUR AFTER PLACEMENT OF LOOSE LIFT?

WILL SCARIFICATION OCCUR BEFORE PLACEMENT OF LOOSE LIFT?

CLAY PLACEMENT

1. PRIOR TO PLACEMENT OF CLAY MATERIAL, VERIFY THE SUBGRADE OR PREVIOUS COMPACTED CLAY HAS BEEN APPROVED BY PETRO AND GEOSYNTEC. THIS APPROVAL SHOULD BE NOTED WITH SIGNATURES ON THE PETRO APPROVAL FORM.

2. PLACE CLAY LINER MATERIAL IN LOOSE LIFTS WITH A THICKNESS OF 7 TO 8 INCHES.

CQA INSPECTION REQUIRED : YES NO

3. REMOVE VISIBLE ROCK WITH A MAXIMUM DIMENSION LARGER THAN 2 INCHES FROM THE LOOSE LIFT.

CQA INSPECTION REQUIRED: YES NO

SOIL STABILIZATION

1. STABILIZE THE SOIL WITH ONE PASS USING AN APPROVED STABILIZER.

2. AFTER THE FIRST STABILIZATION PROCESS, REMOVE VISIBLE ROCKS WITH A MAXIMUM DIMENSION LARGER THAN 2-INCHES. ALSO REMOVE CLODS THAT ARE GREATER THAN 3-INCHES.

CQA INSPECTION REQUIRED: YES NO

3. STABILIZE THE SOIL WITH ONE PASS USING AN APPROVED STABILIZER.

4. AFTER THE SECOND STABILIZATION PROCESS, REMOVE VISIBLE ROCKS WITH A MAXIMUM DIMENSION LARGER THAN 2-INCHES. ALSO REMOVE CLODS THAT ARE GREATER THAN 3-INCHES.

CQA INSPECTION REQUIRED: YES NO

5. STABILIZE THE CLAY MATERIAL IF ADDITIONAL MOISTURE CONDITIONING IS REQUIRED. IF THE SOIL IS REQUIRED TO DRIED THE CLAY CAN BE DISCED.

6. AFTER FURTHER STABILIZATION OR DISCING, REMOVE VISIBLE ROCKS WITH A MAXIMUM DIMENSION LARGER THAN 2-INCHES. ALSO REMOVE CLODS THAT ARE GREATER THAN 3-INCHES.

CQA INSPECTION REQUIRED YES NO

COMPACTION OF CLAY LINER

1. COMPACT THE CLAY MATERIAL WITH A CATERPRILLER 815B OR EQUIVALENT. LIFTS SHALL BE COMPACTED USING A MINIMUM OF 6 PASSES.

CQA INSPECTION REQUIRED YES NO

2. AFTER COMPACTION IS COMPLETE, REMOVE VISIBLE ROCK WITH A MAXIMUM DIMENSION LARGER THAN 2-INCHES.

CQA INSPECTION REQUIRED YES NO

3. AFTER COMPACTION IS COMPLETE, CQA DETERMINES INSITU MOISTURES AND DENSITIES OF THE COMPLETED LIFT. INSITU MOISTURES WILL BE COMPARED TO MICROWAVE MOISTURES TO DETERMINE A CORRECTION FACTOR.

4. THE LIFT WILL BE ACCEPTED WHEN CQA DETERMINES THE MOISTURE AND DENSITY RESULTS FALL WITHIN THE APZ, VISIBLE ROCKS WITH A MAXIMUM DIMENSION OF 2-INCHES HAVE BEEN SATISFACTORILY REMOVED.....

ADD OTHER ACCEPTANCE CRITERIA:

_____

_____

_____

_____

5. FORMALLY APPROVE THE LIFT BY SIGNING THE LIFT APPROVAL FORM.

Received 26 AUG 1997 J.F.

1264

August 26, 1997

Work Process Necessary to Construct Clay Liner
Construction Goal 3,000 yards in place per Work Day
59,000 Cu. Yards of Clay Liner to Complete

PETRO ENVIRONMENTAL TECHNOLOGIES

1. Process Clay Continuously - (2) Finlay 360 cubic yards per hour Screen Plants
2. Load and continuously transport 400 yards per hour; (25) truck loads per hour
3. Place lift, Pick Rock, Condition Clay, Compact Lift; D-6 Dozer, Stabilizer, 815 Compactor, 3 Laborers and Loader
4. Interpret Geo Technical Information and Adjust Conditioning/Compactive Effort
5. Place Lifts in Efficient, Safe Work Plan, Typically Lane One (NE) to Lane Eight (SW)
6. Do not change the orderly placement of material from day to day and from hour to hour.

GEOSYNTEC CONSULTANTS

1. Continuously Inspect Rock QC Removal ~ 15 Acres per day, 5 acres of lift per day after each of three operations
   FOUR TIMES
2. Perform moisture and density testing on 220,000 sq. ft. per day on new material and on intermittent re tests. 5 test per acre per lift; 25 moisture and density tests.
3. Communicate Results of Geo technical tests in Useable Time Frame. Actual Results every 2 hours, previous day's tests no later than 7 am (by Fax)
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PETRO environmental technologies

Petro Environmental will work 6 day weeks, but for Aug. 30. We will eliminate each limiting factor of the clay placement, currently clay processing (scope change), to be complete Sept. 20, 1997. Our best expectation is to acheive 3,600 yards per day and complete on Sept. 16. Geosynthetic Clay Liner will be made part of the operation on or about Sept. 15.

The clay liner placement may need to be adjusted to make the North half available for GSI mobilization on 9/15, in which case, QC test results will need to be complete and made available every 2 hrs.

Received 26 Aug. 1997

1264

PROCEDURE FOR PLACING, CONDITIONING, AND COMPACTING CLAY LINER MATERIAL.

SCARIFICATION

QUESTION:

WILL SCARIFICATION OCCUR AFTER PLACEMENT OF LOOSE LIFT?

WILL SCARIFICATION OCCUR BEFORE PLACEMENT OF LOOSE LIFT?

CLAY PLACEMENT

1. PRIOR TO PLACEMENT OF CLAY MATERIAL, VERIFY THE SUBGRADE OR PREVIOUS COMPACTED CLAY HAS BEEN APPROVED BY PETRO AND GEOSYNTEC. THIS APPROVAL SHOULD BE NOTED WITH SIGNATURES ON THE PETRO APPROVAL FORM.

2. PLACE CLAY LINER MATERIAL IN LOOSE LIFTS WITH A THICKNESS OF 7 TO 8 INCHES.

CQA INSPECTION REQUIRED : YES NO

3. REMOVE VISIBLE ROCK WITH A MAXIMUM DIMENSION LARGER THAN 2 INCHES FROM THE LOOSE LIFT.

CQA INSPECTION REQUIRED: YES NO MONITOR

SOIL STABILIZATION

1. STABILIZE THE SOIL WITH ONE PASS USING AN APPROVED STABILIZER.

2. AFTER THE FIRST STABILIZATION PROCESS, REMOVE VISIBLE ROCKS WITH A MAXIMUM DIMENSION LARGER THAN 2-INCHES. ALSO REMOVE CLODS THAT ARE GREATER THAN 3-INCHES.

CQA INSPECTION REQUIRED: YES NO

3. STABILIZE THE SOIL WITH ONE PASS USING AN APPROVED STABILIZER.

4. AFTER THE SECOND STABILIZATION PROCESS, REMOVE VISIBLE ROCKS WITH A MAXIMUM DIMENSION LARGER THAN 2-INCHES. ALSO REMOVE CLODS THAT ARE GREATER THAN 3-INCHES.

CQA INSPECTION REQUIRED: YES NO

5. STABILIZE THE CLAY MATERIAL IF ADDITIONAL MOISTURE CONDITIONING IS REQUIRED. IF THE SOIL IS REQUIRED TO DRIED THE CLAY CAN BE DISCED.

6. AFTER FURTHER STABILIZATION OR DISCING, REMOVE VISIBLE ROCKS WITH A MAXIMUM DIMENSION LARGER THAN 2-INCHES. ALSO REMOVE CLODS THAT ARE GREATER THAN 3-INCHES.

CQA INSPECTION REQUIRED (YES) NO

COMPACTION OF CLAY LINER

1. COMPACT THE CLAY MATERIAL WITH A CATERPRILLER 815B OR EQUIVALENT. LIFTS SHALL BE COMPACTED USING A MINIMUM OF 6 PASSES.

CQA INSPECTION REQUIRED (YES) NO

2. AFTER COMPACTION IS COMPLETE, REMOVE VISIBLE ROCK WITH A MAXIMUM DIMENSION LARGER THAN 2-INCHES.

CQA INSPECTION REQUIRED (YES) NO

3. AFTER COMPACTION IS COMPLETE, CQA DETERMINES INSITU MOISTURES AND DENSITIES OF THE COMPLETED LIFT. INSITU MOISTURES WILL BE COMPARED TO MICROWAVE MOISTURES TO DETERMINE A CORRECTION FACTOR.

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ADD OTHER ACCEPTANCE CRITERIA:

_____

_____

_____

_____

5. FORMALLY APPROVE THE LIFT BY SIGNING THE LIFT APPROVAL FORM.

Mike Godber & Joseph McMicken

Please review & comment. as we are placing the 2nd lift today, I would like to get this approved as soon as possible.

Thanks, Rick

DRAFT

1264 8/22/97

APPROVAL TO PLACE SUCCEEDING CLAY LIFT

OSDF (Phase I) Project - Cell I
Fernald Facility, Hamilton, Ohio
Project No. FSC 597

Date: _____

The undersigned have verified the following to be true and in compliance with Contract Specifications:

- The CQC Consultant verified that Performance Testing of the previous clay lift met the following criteria:
  - ◊ Minimum moisture content of at least 90 percent but not greater than 3 percentage points wet of the Standard Proctor Optimum Moisture Content; and,
  - ◊ Minimum dry unit weight of at least 95 percent of the Standard Proctor Maximum Dry Unit Weight.
- The previous clay lift was either scarified to a minimum depth of 2-in. with the RACO SS250 soil stabilizer *prior* to placement of the succeeding lift; _____ ***or***
- Scarification occurred *after* placement of the 8-in. thick succeeding lift, to minimum depth of 10-in. in order to scarify the previous lift a minimum depth of 2-inches. _____
- All visible rocks greater than 2-inches in diameter were removed from the previous clay lift prior to placing the succeeding clay lift.

As of this date, the succeeding lift of clay is approved for placement as described in the following:

Lane No(s).: _____ Description: _____

_____

_____

_____

Dave, Williams, General Superintendent Petro Environmental Technologies, Inc.	Quality Control Representative Petro Environmental Technologies, Inc.
Construction Quality Control Consultant GeoSyntec Consultants	QA/QC Team Leader Michael W. Godber (Document Reviewed By)

RECEIVED 08 SEPT 1997
1264

MEETING NOTES MN:SWP(OSDF):97-0056

SUBJECT: OSDF Phase I Construction Schedule and Progress Meeting

MEETING DATE: August 25, 1997

LOCATION: Fluor Daniel Fernald Office

ISSUE DATE: August 26, 1997 ECDC - 20100

DISTRIBUTION: + Attendees + + Part-time * Author of Notes

FDF

+ *Maureen Enderle
Jeff Ellis
+ Mike Godber
+ Don Goetz
+ Rick Heath
Rick Holbrook
Gregg Johnson
Jim Jenkins
Uday Kumthekar
Tim Keaty
Sue Lorenz
Rick McGuire
+ Jeff Middaugh
+ Carlos Pratt
Jim Turner

FDF

+ Dave Sablosky
Jim Salyers
Rob Turnbull
Lou Wehlitz
+ Bill Zebick

PETRO

Steve Brandstetter
Dave Williams
Rick Shairbaum

DOE

Joe Desormeau
Pete Darnell
Jay Jalovec
Joe Neyer
+ Don Pfister
Dennis Riley
Rod Warner

GEOSYNTEC

+ Dan Bodine
Ken Cargill
+ Jeph McMichen

SAFETY TOPIC

It's the little things that count. Story telling by Jeff Middaugh.

TQM

When you come across a problem, try not to point blame but rather look for a resolution.

Balance

Don Goetz's neighborhood block party - meet the neighbors.

MEETING NOTES - Continued

I. SAFETY, RADIATION PROTECTION, FIRE & INDUSTRIAL HYGIENE

A. Use of seat belts, PPE, hearing protection greatly improved!

B. All slings must be load tested and approved for use by FDF.

C. This morning FDF and Petro safety personnel inspected a new piece of equipment for off loading GCL.

D. From last week's walk through:
   1. Signs damaged by weather in the proximity of the conveyor/screener.
   2. Need ring buoys and signs up around sedimentation basin since chain link fence was removed.

E. If out in the east field and need to go to rally point for drill, need to go to Rally Point #1 by T83. For severe weather, need to go to IMHOF at Sewage Treatment plant. For critical activities that can't be stopped, supervisor to tell FDF controller who is in field working on activity - FOR DRILL ONLY.

F. Dozer taken out of service for broken back up alarm which couldn't be repaired in field.

G. Dozer had fluid leak - less than a quart, AEDO notified and proper procedures followed.

H. FDF reviewing Petro's plan for removal of clods from screening process.

II. CHANGE ORDERS

A. Change Orders pending for demolition of old NE road, additional volume of topsoil excavated and additional undercut of subgrade on Cell I floor.

B. FDF is looking into mandatory screening for clay liner material.

III. SCHEDULE BRIEFING

A. GeoSyntec obtained all samples from stockpile #4 except for 2 deep samples. All samples tested good in east half except for one which was 5' above existing grade. Expecting some results back this afternoon for west half of stock pile #4.

B. Petro continuing construction of west berm but waiting on Village Builders.

MEETING NOTES - Continued

C. Horizontal monitoring well will not be installed this Wednesday. Looking at next week for installation. Lee Supply not responding to Petro's calls as of yet.

D. Soil stabilizer is equipped with water spray bar if needed. Have not had to use it yet.

E. Geosynthetics still on schedule for September 8, 1997 to be deployed.

F. Petro wants to get Riprap delivered before liner system stone is delivered. Traffic problem if all delivered at once.

G. Petro to give updated 4 week schedule to Tim Keaty.

IV. QUALITY

A. Don Goetz to check to see if jack is still in 48" culvert.

B. All subgrade still not approved - east end and west side by horizontal monitoring well. When subgrade approved, FDF, GeoSyntec and Petro need to sign off on Petro's form.

C. Subgrade is greater than 0.1' too low in some areas where clay has already been placed: FDF, GeoSyntec to decide whether constitutes DCN or NCR - to meet after this meeting.

D. FDF got direction from Ken Cargill (GeoSyntec) on rock picking frequency; i.e after compactor pass. FDF needs to clarify direction from Ken. FDF QA wants an RCI on issue.

E. FDF QA to put together a Clay Lift Approval Form.

F. Two shelby tubes passed permeability testing.

G. Top two inches of previous scarified lift need to be in the range of moisture conditioned to moisture of next clay lift.

H. Need to keep clay lifts at 8" loose after 1st lift over the subgrade.

I. GeoSyntec setting up tall orange cones in the field for their information. Only GeoSyntec tech to move these cones.

J. Need to patch GIS structures with non shrink grout prior to backfill.

MEETING NOTES - Continued

V. DESIGN ISSUES

A. DCN 1702 - 026 - new survey points - not approved yet.

B. Sed. basin survey data from L. Hirsch to be located by FDF.

VI. SUBMITTALS

Nothing to report.

VII. CONSTRUCTION ISSUES

Nothing to report.

VIII. GENERAL ISSUES

Nothing to report.

ME:tjr

OSDF PHASE I CONSTRUCTION SCHEDULE AND PROGRESS MEETING

Meeting Agenda

Monday,
September, 8, 1997

Safety Topic
T.Q.M. Topic
Balance Topic

- SAFETY, RADIATION PROTECTION, FIRE AND INDUSTRIAL HYGIENE
- CHANGE ORDERS
- SCHEDULE BRIEFING
- QUALITY
- DESIGN ISSUES
- SUBMITTALS
- CONSTRUCTION ISSUES
- GENERAL ISSUES
- ACTION ISSUES

FERNALD ENVIRONMENTAL MANAGEMENT PROJECT
FERNALD, OHIO

FD FERNALD CONTRACT
DE-AC24-92OR21972
PAGE 1 OF 1

MEETING NOTES MN:SWP(OSDF):97-0060

SUBJECT: OSDF Phase 1 Construction Schedule and Progress Meeting

MEETING DATE: SEPTEMBER 8, 1997

LOCATION: Fluor Daniel Fernald Office

ISSUE DATE: September 9, 1997 ECDC 20100

DISTRIBUTION: + Attendees + + Part-time • Author of Notes

FDF

+ *Maureen Enderle
Jeff Ellis
Mike Godber
+ Don Goetz
+ Rick Heath
Rick Holbrook
Gregg Johnson
Jim Jenkins
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SAFETY TOPIC

Begin using small roadway around Sed. Basin stockpile. Access to OSDF through RIMIA. Watch your speed in area. Lou Wehlitz hand out on floor lamps.

TQM

If there is a procedure in place, make sure you follow it.

Balance

If married, don't watch "Men are from Mars and Women are from Venus, but We All Have to Live Here Together" with your spouse.

MEETING NOTES - Continued

I. SAFETY, RADIATION PROTECTION, FIRE & INDUSTRIAL HYGIENE

A. Need to be aware of wearing orange vests and hearing protection.

B. For unloading gcl, Petro has been using fork lift to roll off material.

C. Tentatively scheduled for 9/19/97, site wide RDA drill. OSDF personnel involved in site wide RDA drill need to report to shelter indoors.

D. No occupational injuries within the last 2 weeks.

E. Gave out 2 safety awards in last 2 weeks.

F. Weekly walk thru-
   1) Aug 26
      a) Improper use of step ladder
      b) No fall protection used while up on screener greater than 6' off ground.

   2) Sept 2
      a) Dump truck in excess speed in cell, Pete Bolig spoke to operator.
      b) 2 new screeners brought on site.
      c) Exclusion zone around second screener, have access to keys.
      d) Exclusion zone around third screener, waiting for screens to come in.
      e) Dark area around wood chip pile. Pile has been turned.

G. Still have issues with smoking. Extra signs and receptacles not in place yet.

H. Conveyor on screener clogged. Petro, FDF safety met and problem resolved.

I. Dust control is working. Need to keep RIMIA road clean.

J. Sunglasses and tinted lenses only to be worn between sunrise and sunset; not to be worn inside buildings.

K. Rock picking considered moderate work, unless slope conditions make it necessary to exert more energy; then considered heavy work.

L. Fusing machine delivered without muffler guard. Muffler guard delivered today. Not put in place as of this meeting.

MEETING NOTES - Continued

II. CHANGE ORDERS

A. No comments at this time.

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A. Main item is clay liner placement. Expected to complete placement by 9/17/97.

B. GSI (gcl installers) expected to mobilize on 9/15/97.

C. Last Thursday began fusing pipe for LCS/LDS redundant piping and horizontal monitoring well. Will continue fusing pipe.

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G. Petro one month behind as of last schedule revision. Schedule dependent on stone over gcl. Right now, only receiving approx. 800 tons of stone (riprap) per day. Anticipate same delivery rate for #78 stone.

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I. Liner penetration boxes being shop fabricated. Vendor behind schedule for delivery.

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B. Petro would like to excavate more of cell 2. Discussion to follow outside of meeting.

C. Welders doing good job for Petro. GeoSyntec commended job well done.

D. GeoSyntec asked if GSI has identified their master seamer. Petro to get information to GeoSyntec.

MEETING NOTES - Continued

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A. Dan Bodine to make clarification of midpoint on slopes for survey purposes.

B. When DCN for LCS affects OSDF, GeoSyntec needs to get copy to Don Goetz. CDC/EDC tracks only by contract number.

VI. SUBMITTALS

A. Rick Heath to get with Don Goetz after meeting on submittal number 62.

VII. CONSTRUCTION ISSUES

Nothing to report.

VIII. GENERAL ISSUES

A. While using RIMIA road, going around sed, basin stockpile, Gregg Johnson suggested honking horns. Jeph McMichen suggested using security mirrors. Petro said the would install mirrors if FDF found something on site.

ME:dmw

FDF ON-SITE DISPOSAL FACILITY (PHASE I) PROJECT
Petro Environmental Technologies, Inc.

PREPARATORY PHASE MEETING MINUTES

Date: September 9, 1997

Definable Work Feature: Installation of horizontal monitoring well, leachate collection and leachate detection corridor piping in Cell I.

Personnel Present:

Steve Brandstetter	Pete Bolig	Dan Bodine
J. Richard Schairbaum	Mike Godber	J.F. McMichen

Review of Applicable Sections (list):

02215 - Trenching and Backfilling
02605 - HDPE Manholes, Pipes and Fittings
02710 - Granular Drainage Material
02714 - Geotextiles

Review of Contract Plans: _✓_ (✓)

Drawing No. 90X-6000-G-00076, Rev. 0
Drawing No. 90X-6000-G-00082, Rev. 0
Drawing No. 90X-6000-G-00087, Rev. 0

Material and Equipment Submittals Complete and Approved (list):

Source of Embedment Fill: Submittal No.: 036, rev. 1; Doc. No.: PET-035B, rev. 1
Bentonite Specifications: Submittal No.: 010, rev. 1, Doc. No.: PET-012, rev. 1
List of Materials to be Furnished: Submittal No.: 025, rev. 0 & rev. 1; Doc. No.: PET-026A & PET-026A.1-3, rev. 0 & rev. 1
Hydrostatic Testing Procedures: Submittal No.: 025, rev. 2; Doc. No.: PET-026B, rev. 1
Test Gauge Calibration Doc.: Submittal No.: 059, rev. 0; Doc. No.: PET-067, rev. 0
Source of Granular Mtl.: Submittal No.: 043, rev. 0; Doc. No.: PET-046A, rev. 0
Geotextile Mfg. & Prod. Name: Submittal No.: 024, rev. 0; Doc. No.: PET-025A.1, rev. 0

Testing/Inspections/Controls Required (Describe):

Testing:

GeoSyntec will conduct any conformance testing required of the embedment fill and granular drainage material in accordance with Technical Specification Sections 02215 and 02710, respectively. All HDPE pipe and fittings must be hydrostatically field tested in accordance with paragraph 3.07 of Technical Specification Section 02605 and the approved submittal. During welding operations, trial butt fusion joints on spool pieces of HDPE pipe shall be made to verify that joining conditions are adequate. Trial welding shall be made at the beginning

of each day and at least one each day for each fusion joining appartus used that day. Trial joints shall be at least 2-feet long with the joint at the midpoint.

The HDPE solid wall and carrier pipe must be tested to an internal pressure of 120 psi, The HDPE contaminment pipe must be tested to an internal pressure of 15 psi. This testing shall be conducted prior to placing fill over the pipes. Acceptance criteria for hydrostatic testing is zero leakage fo the stabilized pressure for the minimum duration of the test. Any leaks shall be identified and repaired, as necessary, and then the pipe retested until the acceptance criteria are achieved.

Inspections:

Upon delivery, the QC Manager shall inspect the pipe for any potential damage. The maximum allowable depth of cuts, scratches, gouges, etc. on the exterior surface is 10% of the wall thickness. The interior of the pipe shall be free of cuts, gouges, and scratches. The HDPE pipe shall also be inspected before and after joining for evidence of blisters, defects, and any sign of contamination by foreign matter. Fusion joints shall be inspected for evidence of excess or insufficient bead size, contamination, offset, or any other evidence of inadequate joining. Following installation of the LCS, redundant LCS and LDS carrier pipes, the pipes shall be inspected using a video camera for a minimum distance of at least 100-feet inside the cell beyond the liner penetration in the presence of GeoSyntec. The completed video inspection shall be provided to GeoSyntec. Any pipe sections where greater than 4% pipe diameter deflection from vertical is observed.

Quality Control:

The QC Manager shall ensure that all appropriate material submittals have been submitted to FDF prior to installation of the horizontal monitoring well and LCS, redundant LCS and LDS piping. Prior to conducting the hydrostatic field test, the QC Manager shall inspect the HDPE piping as previously described. The QC Manager or Field Monitor shall also be present during hydrostatic testing to monitor its progress, recording all required data and information on the approved form. Periodic Quality Control inspections shall also be made routinely to observe installation of the monitoring well and other HDPE piping, backfilling, and overall compliance with contract drawings and specifications.

Work Area Inspection. Required Preliminary Work Complete and Acceptable? __✓__ Yes _____ No
If No, Describe Deficiency & Corrective Action.

All Required Materials and Equipment on Hand: __✓__ Yes _____ No
If No, Describe Deficiencies and Corrective Action.

Safety Activity Hazard Analysis Reviewed: __✓__ (✓) (Reference Final Safe Work Plan)

Discussion of Procedures for Completing Work: __✓__ (✓)

Construction Tolerances and Level of Workmanship:

Trenching & Backfilling:

Protect and maintain the bottom of the trench. Remove any rock fragments or raveled materials that collect onthe trench bottom. Backfill any overexcavation with embedment fill material. Limit the length of open trench to 200-ft. in advance and 200-ft. behind the pipe installation. For horizontal monitoring well and HDPE

pipe trenches between the HDPE manholes and cell outlet, construct a soi-bentonite plug every 50-ft. along the length of the trench. The soil-bentonite mixture shall consist of embedment fill at its natural moisture content mixed with a minimum of 10% bentonite powder or granules. Thoroughly mix with a portable cement mixer or other suitable method. Place and compact the mixture in the same manner as the embedment fill. After placement and compaction of embedment fill, place the first lift of backfill material in a 12-in. loose lift. Place subsequent lifts of trench backfill material in an 8-in. ± 1-in. loose lift. Compact each lift to 95% of the max. Standard Proctor dry density and at a moisture content of ± 3% of the optimum moisture content. Place underground warning tape in trench backfill 12-inches below finished grade and directly above all HDPE pipes, PVC pipes and electrical conduits.

HDPE Pipes & Fittings:

Install pipe and fittings, and place and compact embedment fill and trench backfill material to the lines and grades shown on the Construction Drawings. Install pipe marker as described above. Do not join the HDPE pipe and fittings during any precipitation, in the presence of heavy fog, dew, or areas of ponded water. The top of the HDPE containment pipe shall be surveyed on no greater than 50-ft centers and at manhole inlets and outlets. The HDPE manhole shall be installed to within ±0.1-ft. of the elevation indicated on the Construction Drawings. The HDPE manhole shall be within 0.5 degrees of plumb. All HDPE pipes shall be within ±0.1-ft. of the bottom of the pipe elevations of the containment pipes. Provide positive slope of gravity lines at all locations to within ± 10% of the value indicated on the Construction Drawings.

FDF's Comments During Preparatory Phase Meeting:

Applicable Pre-Work Plans Accepted by FDF: __✓_ Yes ____ No
If No, Is An Interim Plan Being Utilized?: _____ Yes _____ No

J. Richard Schairbaum, QC Manager
Petro Environmental Technologies, Inc.

FERNALD ENVIRONMENTAL MANAGEMENT PROJECT
FERNALD, OHIO

FD FERNALD CONTRACT
DE-AC24-92OR21972
PAGE 1 OF 1

MEETING NOTES MN:SWP(OSDF):97-0060

SUBJECT: OSDF Phase 1 Construction Schedule and Progress Meeting

MEETING DATE: SEPTEMBER 8, 1997

LOCATION: Fluor Daniel Fernald Office

ISSUE DATE: September 9, 1997 ECDC 20100

DISTRIBUTION: + Attendees ++ Part-time * Author of Notes

FDF

+ *Maureen Enderle
Jeff Ellis
Mike Godber
+ Don Goetz
+ Rick Heath
Rick Holbrook
Gregg Johnson
Jim Jenkins
Uday Kumthekar
Tim Keaty
Sue Lorenz
Rick McGuire
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GEOSYNTEC

+ Dan Bodine
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SAFETY TOPIC

Begin using small roadway around Sed. Basin stockpile. Access to OSDF through RIMIA. Watch your speed in area. Lou Wehlitz hand out on floor lamps.

TQM

If there is a procedure in place, make sure you follow it.

Balance

If married, don't watch "Men are from Mars and Women are from Venus, but We All Have to Live Here Together" with your spouse.

MEETING NOTES - Continued

I. SAFETY, RADIATION PROTECTION, FIRE & INDUSTRIAL HYGIENE

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B. For unloading gcl, Petro has been using fork lift to roll off material.

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      e) Dark area around wood chip pile. Pile has been turned.

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MEETING NOTES - Continued

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A. No comments at this time.

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MEETING NOTES - Continued

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A. Dan Bodine to make clarification of midpoint on slopes for survey purposes.

B. When DCN for LCS affects OSDF, GeoSyntec needs to get copy to Don Goetz. CDC/EDC tracks only by contract number.

VI. SUBMITTALS

A. Rick Heath to get with Don Goetz after meeting on submittal number 62.

VII. CONSTRUCTION ISSUES

Nothing to report.

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A. While using RIMIA road, going around sed, basin stockpile, Gregg Johnson suggested honking horns. Jeph McMichen suggested using security mirrors. Petro said the would install mirrors if FDF found something on site.

ME:dmw

RECEIVED
SEP 19 1997

MEETING NOTES MN:SWP(OSDF):97-0064

SUBJECT: OSDF Phase 1 Construction Schedule and Progress Meeting

MEETING DATE: September 15, 1997

LOCATION: Fluor Daniel Fernald Office

ISSUE DATE: September 17, 1997ECDC- 20100

DISTRIBUTION: + Attendees + + Part-time • Author of Notes

FDF

+ *Maureen Enderle
Jeff Ellis
+ Mike Godber
+ Don Goetz
+ Rick Heath
Rick Holbrook
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SAFETY TOPIC

Heat is back. Humidity is rising. Minor rock picking on slope is heavy work for heat stress.

TQM

Prescribe solutions rather than describe problems.

BALANCE

Delete balance topics until such time that we can practice what we preach.

I. SAFETY, RADIATION PROTECTION, FIRE & INDUSTRIAL HYGIENE

A. Hearing protection still a problem area.

B. Safety glasses need to be worn at all times in the field - even for service reps. and vendors.

C. Site wide criticality drill scheduled for Friday, September 19, 1997. Field personnel to seek shelters in doors. Petro to go to break trailers.

D No injuries reported this past week. Gave out safety award to John Stacey.

E. Walk through items:
   1. Housekeeping to the north of cell area.

F. Muffler guard has been installed on fusing equipment.

G. Sunglasses- need to have sun out before you wear them.

H. Fluid leak on RACO 250. Cleaned up and reported.

I. RACO 250 has no roll protection. At time equipment came on site it was thought RACO would only operate on level ground.

II. CHANGE ORDERS

A. Dave Sablosky gave update. Change Orders being written, more info at next meeting.

III. **SCHEDULE BRIEFING**

A. Petro 4 week schedule updated.

B. Clay liner approx. 1.5 weeks from completion.

C. Horizontal Monitoring well scheduled for Wednesday, September 17, 1997.

D. Looking at options for what it will take to get 2000 ton/day of stone for liner delivered to site. Trucks tied up in September.

IV. **QUALITY**

A. Status of horizontal monitoring well pipe testing. Dan Bodine to pass current test (2nd) with comments.

B. FDF needs access to north end of NE Rd..

C. East slope is still a concern.

D. GeoSyntec stated that #57 stone tests taken the other day have passed.

E. GeoSyntec still needs to test 4-5 rolls of GCL. Hope to get results today or tomorrow.

F. Stockpile #7 is okay. Began sampling Stockpile #8 last Thursday.

V. **DESIGN ISSUES**

Nothing to report.

VI. **SUBMITTALS**

Nothing to report.

VII. **CONSTRUCTION ISSUES**

A. GSI scheduled to begin deployment on Wednesday, to start on east slope. Petro to work north and east slope to get that ready for GSI. Part of day on Wednesday, GSI to work on sand bags and moving material.

VIII. **GENERAL ISSUES**

A. Barrett closed off north end of north access road.

B. GeoSyntec concerned that east side of drainage channel next to Barrett's road not according to drawings. FDF and Barrett looked at benches there and decided on best way to go. Dave Williams , Don Goetz, and Barrett came to agreement on how to

finish grading.

MME:tjr

FERNALD ENVIRONMENTAL MANAGEMENT PROJECT
FERNALD, OHIO

MEETING NOTES MN:SWP(OSDF):97-0064

SUBJECT: OSDF Phase 1 Construction Schedule and Progress Meeting

MEETING DATE: September 15, 1997

LOCATION: Fluor Daniel Fernald Office

ISSUE DATE: September 17, 1997 ECDC- 20100

DISTRIBUTION: + Attendees + + Part-time * Author of Notes

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VIII. GENERAL ISSUES

A. Barrett closed off north end of north access road.

B. GeoSyntec concerned that east side of drainage channel next to Barrett's road not according to drawings. FDF and Barrett looked at benches there and decided on best way to go. Dave Williams , Don Goetz, and Barrett came to agreement on how to finish grading.

MME:tjr

OSDF PHASE I CONSTRUCTION SCHEDULE AND PROGRESS MEETING

Meeting Agenda

Monday,
September 22, 1997

Safety Topic
T.Q.M. Topic
Balance Topic

- SAFETY, RADIATION PROTECTION, FIRE AND INDUSTRIAL HYGIENE
- CHANGE ORDERS
- SCHEDULE BRIEFING
- QUALITY
- DESIGN ISSUES
- SUBMITTALS
- CONSTRUCTION ISSUES
- GENERAL ISSUES
- ACTION ISSUES

FERNALD ENVIRONMENTAL MANAGEMENT PROJECT
FERNALD, OHIO

MEETING NOTES MN:SWP(OSDF):97-0067

SUBJECT: OSDF PHASE I PROGRESS MEETING

MEETING DATE: September 22, 1997

LOCATION: Fluor Daniel Fernald Office

ISSUE DATE: September 23, 1997 ECDC - 20100

DISTRIBUTION: + Attendees ++ Part-time • Author of Notes

FDF
+ *Maureen Enderle
Jeff Ellis
+ Mike Godber
+ Don Goetz
+ Rick Heath
Rick Holbrook
Gregg Johnson
Jim Jenkins
Uday Kumthekar
+ Tim Keaty
Sue Lorenz
Rick McGuire
+ Jeff Middaugh
+ Carlos Pratt
Jim Turner

FDF
Dave Sablosky
Jim Salyers
Rob Turnbull
+ Lou Wehlitz
+ Bill Zebick

PETRO
Steve Brandstetter
Dave Williams
Rick Shairbaum

DOE
Joe Desormeau
Pete Darnell
Jay Jalovec
Joe Neyer
Don Pfister
Dennis Riley
Rod Warner

GEOSYNTEC
+ Dan Bodine
Ken Cargill
+ Jeph McMichen

SAFETY TOPIC

Be aware of tripping hazards as you walk around site.

TQM

Work as a team.

BALANCE

When the team players aren't playing together nicely, just leave the site and go fishing! Contributed by Rick Heath.

SAFETY, RADIATION PROTECTION, FIRE & INDUSTRIAL HYGIENE

A. Safety glasses need to be worn. Need to wear approved safety glasses.

MEETING NOTES - *Continued*

B. Smoking still an issue.

C. DOE hitting on two key areas: housekeeping and heavy equipment, namely backup alarms.

D No occupational injuries reported for the last week.

E. Excavations/Trench need to be inspected by competent person. Need to inspect slopes and monitor for air quality.

F. Rigging incident in which moved fuel tank from one piece of equipment to another. Safety informed and issue addressed at time of incident.

G. IH requires use of respirator on welders.

H. FDF passed on information to Petro on documentation for wire rope. Approved documentation needed upon arrival.

II. <u>CHANGE ORDERS</u>

A. Lou Wehlitz reported that change orders on topsoil and screener are in DOE's hand for comments.

B. Carlos Pratt can't take credit for change orders unless in the system by Wednesday to meet Thursday date.

III. <u>SCHEDULE BRIEFING</u>

A. FDF requesting four week schedule.

B. 12:30 Wednesday, September 24, Mark Mather's presentation on schedule recovery in T82 Conference Room.

C. Petro's schedule is pending on testing on testing of GCL. Also having breakdown of compliance with interface shear testing at 45 psi.

D. Petro will need a notice to cure if not in compliance with testing. Need to send this information to the vendor if not the correct material.

<u>Action Item</u>- Petro needs documentation from FDF to move forward on notice to cure to vendor. No formal documentation on rejection of GCL testing. Don Goetz to speak to Bill Zebick on issue

MEETING NOTES - Continued

E. The 45 psi and 17° angle test - is this a standard or site specific requirement. Petro requesting information from FDF to determine if these values have safety factors built into the final figures. Information on this would give Petro information to work with in their office.

F. Horizontal monitoring well constructed.

H. Stone is being placed at same rate that GCL is scheduled to be deployed. Placement rate to be adjusted accordingly with the rate of GCL deployment.

I. Village Builders is delaying the installation of the gravity inlet structures.

J. GeoSyntec has approved stockpile #8; released for use. Testing is being performed on #9.

K. Petro to let GeoSyntec know if planning on stockpiling anymore clay material. GeoSyntec would need to test future stockpiles. Mark Maher to let Jeph McMichen know by 1600 hours today.

IV. QUALITY

A. FDF questioned when any survey data on clay would be seen. Petro to submit survey data today or tomorrow.

B. FDF will have B.L. Paine check survey along with Hirsch, Petro's surveyor.

C. Need welder certification on electrofusion coupling equipment operation. Petro looking at bringing Lee supply for this work.

D. GeoSyntec trying to eliminate extrusion welding. Petro's contract says coupling and does not call for extrusion welding.

E. Final connection between Petro and Village will be done by whoever gets done last. Connection will need to be made by electrofusion weld.

F. Personnel need to keep away from electrofusion welding operation. Equipment is highly sensitive to movement.

G. Rock Picking - concern about speed of inspection for rocks in clay liner lanes.

H. For quality: if rock is smaller than 2 inches, but looks sharp, then pick it out of the clay.

I. GSI markings on liner panels will be in white. GeoSyntec markings will be in yellow.

MEETING NOTES - Continued

J. GeoSyntec passed on information on lot numbers versus number of rolls for GCL material.

K. GeoSyntec needs extra Geomembrane to use for testing of GCL. Did not anticipate 21 lots of material.

L. GeoSyntec needs to take another sample of #57's on site for carbonate content and hydraulic conductivity. Carbonate content is a conformance test. Hydraulic conductivity is a performance test. GeoSyntec to contact plant to set aside some stone for sampling at the quarry.

V. DESIGN ISSUES

A. FDF, Petro and GeoSyntec to meet at 0730 hours tomorrow for discussion of liner penetration box installation.

B. Issue for future: redesign of impacted material entrance road into Cell 1. Bring access road over Cell 1 & 2 intercell berm into cell.

VI. SUBMITTALS

Nothing to report.

VII. CONSTRUCTION ISSUES

A. Question of installing Cell 2 LCS/LDS lines now rather than digging up berm later. Pipes can be put in with Cell 2 horizontal monitoring well. Petro not planning on installing this due to lack of time and space for placement and testing of 600 Linear feet of pipe.

Action Item- FDF to look into having Wise fuse and test pipe and then have Petro install with cell 2 horizontal monitoring well.

VIII. GENERAL ISSUES

A. Lisa Crawford and company to be touring site tomorrow approximately 1800 hours. Need to be aware of presence of group.

MME:dmw

FERNALD ENVIRONMENTAL MANAGEMENT PROJECT
FERNALD, OHIO

FD FERNALD CONTRACT
DE-AC24-92OR21972

MEETING NOTES MN:MN:SWP(OSDF):97-0069

SUBJECT: DEPLOYMENT OF GEOSYNTHETICS, OSDF PHASE I, CELL I

MEETING DATE: SEPTEMBER 20, 1997

LOCATION: Fluor Daniel Fernald Office

ISSUE DATE: September 24, 1997 File Record Storage Copy 104.5

DISTRIBUTION: + Attendees + + Part-time • Author of Notes

FDF
+ *Don Goetz, MS64
+ Mike Godber, MS64
+ Rick Heath, MS64
+ Dave Sablosky, MS64
+ Bill Zebick, MS64

PETRO
+ Mark Mathar
+ Rick Schairbaum

GEOSYNTEC
+ Jeph McMichen

I. BACKGROUND

1a) Petro plans to deploy secondary layer on 9/24/97 (stone on 9/29/97)

1b) Petro plans to deploy primary layer on 10/11/97.

2a) Petro has received acceptable test results for their first "100,00" square foot of material; remaining 6 tests forthcoming (ETA 9/24/97 for the first of 6).

2b) GeoSyntec has identified some material, lots that maybe unacceptable.

II. RESPONSE/DISCUSSION

1a) Petro to deploy material as scheduled using the acceptable "lot" identified by GeoSyntec data unless otherwise stated by Mike Hickey.

2a) Petro needs to persue timely receipt of testing results and provide this data to GeoSyntec to evaluate in conjunction with GeoSyntec test results.

2b) Per Jeph McMichen, the final decision of material acceptance has not been determined; ie, GeoSyntec need Petro's test results.

MEETING NOTES - Continued

III. GENERAL

a) Rick Heath to evaluate testing requirements in the specification(s) and the CQA Plan; and to ensure Phase II documents are revised as required; to eliminate confusion as to specification testing per 100,000 square feet and CQA testing per lot.
NOTE: Recommendation to limit number of lots by specification were voiced by all parties present.

b) Bill Zebick or Don Goetz to speak with Mike Hickey to ensure his concurrence with placement of material.

c) GSI is to perform receipt inspection of material prior to placement. Petro to find out if GSI will install material without all manufacturing test results have been received.

DBG:dmw

FDF ON-SITE DISPOSAL FACILITY (PHASE I) PROJECT
Petro Environmental Technologies, Inc.

RECEIVED
SEP 22 1997

PREPARATORY PHASE MEETING MINUTES

Date: 22 SEPT. 1997

Definable Work Feature: Installation of geotextile, HDPE liner, geosynthetic clay liner, and liner penetration boxes in Cell I.

Personnel Present:

Dave Williams
J. Richard Schairbaum
Pete Bolig

Review of Applicable Sections (list):

02100 - Surveying
02215 - Trenching and Backfilling
02770 - Geomembrane Liner
02772 - Geosynthetic Clay Liner
13005 - Liner Penetration Boxes

Review of Contract Plans: _✓_ (✓)

Material and Equipment Submittals Complete and Approved (list):

Source of Embedment Fill Material: Submittal No. 036, Rev. 1; Document No. PET-035B, Rev. 1
Test Results of Embedment Fill: Submittal No. 036, Rev. 1; Document No. PET-035C, Rev. 1
Certification of Material Requirements: Submittal No. 047, Rev. 0; Document No. PET-052, Rev. 0
Geotextile Mfg. & Prod. Name: Submittal No. 024, Rev. 0; Document Nos. PET-025A.1-3, Rev. 0
Mfg's QC Certs. For Each Roll: Submittal No. 043, Rev. 0-2; Document No. PET-043, Rev. 0-2
Certification of HDPE Welding Rod: Submittal No. 024, Rev. 1; Document No. PET-025G, Rev. 1
Resin Vendor's QC Certificates: Submittal No. 056, Rev. 0; Document No. PET-064A, Rev. 0
Mfg's QC Test Results of Resin: Submittal No. 056, Rev. 0; Document No. PET-064B, Rev. 0
Mfg's Shift Production Certs.: Submittal No. 056, Rev. 0-2; Document No. PET-064C, Rev. 0-2
Certs. of Tensiometer Calibration: Submittal No. 063, Rev. 0; Document No. PET-071, Rev. 0
Internal/Interface Test Results: Submittal No. 057, Rev. 1; Document No. PET-065, Rev. 1
QC Certs. For GCL: Submittal No. 060, Rev. 1; Document No. PET-068, Rev. 1
Liner Penetration Box submittals are still pending from Ground Safe.

Testing/Inspections/Controls Required (Describe):

Testing:

The CQC Consultant (GeoSyntec) shall perform conformance sampling of the geotextile, HDPE liner and GCL in accordance with contract specifications and their approved CQA Plan. Installation of these geosynthetics shall not commence until GeoSyntec has completed conformance testing and approved the use of these materials. Concerning HDPE liner, trial seaming must be conducted at the ***beginning*** of each seaming period and at least once ***each five hours*** for each apparatus used that day prior to seaming. Additionally, each seamer shall make at least one

trial seam each day the seamer performs work. The trial seams are to be at least *15-ft. long by 1-ft. wide* (after seaming) with the seam centered lengthwise for fusion equipment; and at least *3-ft. long by 1-ft. wide* for extrusion equipment. Cut 4 specimens, each 1-in. wide from the trial seam sample -- test 2 specimens in shear and 2 in peel using field tensiometer. All specimens must pass the test; if a specimen fails, repeat the entire operation.

Nondestructive seam continuity testing will be conducted over the full length of the liner seams. Continuity testing is to be performed as the seaming work progresses, not at the completion of field seaming. Must use vacuum testing for extrusion welds and air pressure testing for double-track fusion seams. *Destructive testing* will be performed as well to evaluate the seam strength and integrity. Destructive test samples shall be collected at a minimum frequency of ***one test location per 500-ft.*** of seam length and at additional locations of suspected nonperformance. GeoSyntec will select all test locations. Cut two strips 1-in. wide by 12-in. long with the seam centered parallel to the width from either side of the sample location. Test the 2 sample strips in the peel mode; GeoSyntec may request an additional test in the shear mode. If these samples pass, prepare a laboratory sample at least 1-ft. wide by 3.5-ft. long and cut in to 3 parts: 1-ft. long (Installer), 1.5-ft. long (GeoSyntec), and 1-ft. long (FDF Construction Manager). After sample has been collected, immediately repair all holes in the geomembrane. The continuity of the new seams in the repaired area shall then also be tested.

Inspections/Quality Control:

As the various rolls of geosynthetics are utilized and deployed, the QC Manager and GeoSyntec & GROUNDSAFE will inspect the materials for damage. Those portions of material that are determined to be damaged shall be removed prior to final placement and sewing/seaming in place. Periodic QC inspections will also be routinely conducted to ensure compliance with contract specifications and the construction tolerances and level of workmanship as discussed below. The QC Manager and the CQC Consultant will jointly participate in the inspection and evaluation of all materials and work being performed, as well as the results of required field testing, to ensure compliance with contract specifications.

Work Area Inspection. Required Preliminary Work Complete and Acceptable? ____ Yes _✓_ No
If No, Describe Deficiency & Corrective Action.

Work is continuing on placement of the compacted clay liner. Prior to beginning placement of the initial layer of geosynthetics, a joint inspection of the compacted clay liner surface shall be made by the Installer and CQC Consultant to verify its acceptability. This will be documented on an approved form and formally submitted to FDF.

All Required Materials and Equipment on Hand: _✓_ Yes _____ No
If No, Describe Deficiencies and Corrective Action.

Safety Activity Hazard Analysis Reviewed: _✓_ (✓) (Refer to Final Safe Work Plan)

Discussion of Procedures for Completing Work: _✓_ (✓)

Construction Tolerances and Level of Workmanship:

Geotextiles:

After unwrapping the geotextiles from its opaque cover, do not leave them exposed for a period in excess of 10 calendar days.

- Continuously overlap a min. of 6-in. and sew filter (7-oz.), cushion (10-oz.) and supplemental cushion (16-oz.) geotextiles using a "single prayer" seam. Overlap separator geotextiles (7-oz.) a min. of 12-in. and spot sew at intervals necessary to ensure the overlap is maintained. Seams shall be along, not across the slopes.
  Repair any holes or tears in the geotextiles using a patch made from the same material. Extend patches a min. of 1-ft. beyond the damaged area. Sew geotextile patches into place no closer than 1-in. from any panel edge.
- Install the geotextile along with the other geosynthetic layers into the anchor trenches at the crest of the slope. Backfill with compacted clay once all geosynthetic layers are installed in the trench.
- To the extent possible, do not place granular drainage material for the LDS or LCS on the side slopes until after the anchor trenches are completely backfilled.
- Do not drive equipment directly on the geotextile. Only use equipment that has the approved ground pressure as denoted in the specifications (02714-3.05.D). Place aggregate and/or soil over the geotextile prior to trafficking.

HDPE Liner:

- Do not deploy liner in an area until the CM has been provided with a Certificate of Subgrade Acceptance for that area. Do not deploy until GeoSyntec has completed a performance evaluation of previous work, including evaluation of survey results for previous work.
- Each field panel shall be given an identification code, as agreed upon between GeoSyntec and the Installer.
- Place each panel one at a time and seam each panel immediately after its placement. Use temporary rubsheets to prevent displacement or damage to underlying geosynthetics.
- Do not place any liner during any precipitation, in the presence of heavy fog or dew, in an area of ponded water, or in the presence of high wind. Do not seam at ambient temperatures below 40° F or above 104° F.
  Ensure that: no vehicular traffic is permitted directly on the liner; equipment used does not damage the liner; personnel working on the liner does not smoke or engage in any activity that would damage the liner; the method used to unroll the panels does not scratch or crimp the liner and does not damage the underlying geosynthetics or compacted clay soil; wrinkles are minimized - adjust or repair any area of liner wrinkles where the wrinkle height during the hottest portion of the day is more than 4-inches; and the liner is anchored or weighted with sandbags to prevent damage or uplift from wind.
- Do not install liner between 1-hr. before sunset and 1-hr. after sunrise unless approved by the CM.
- Do not perform seaming unless a "master seamer" and GeoSyntec is on-site. Orient seams parallel to the line of max. slope. Minimize the number of seams in corners. No horizontal seam shall be less than 10-ft. from the toe of the slope. Do not locate seams at an area of potential stress concentration.
- Sufficiently overlap liner panels for welding and to allow peel tests to be performed on each seam. Prior to seaming, clean the seam area and to ensure area to be bonded is free from moisture, dust, dirt, debris, etc. If seam overlap grinding is required, complete the process within 20 minutes of the seaming operation. Do not grind to a depth that exceeds 10% of the liner thickness. Grinding marks shall not appear beyond 0.25-inches of the extrudate after it is placed. Align seams with the fewest possible number of wrinkles and "fishmouths".
- Extend seams to the outside edge of the panels to be placed in the anchor trench.
- Repair any portion of the liner exhibiting a flaw or failing test using the most appropriate method of the available procedures listed in specification section 02770-3.02.K.4.
- Temporarily anchor each liner panel in the anchor trench at the crest of the slope as soon as the panel is deployed or positioned. Do not entrap soil, sand bags, etc. between the geosynthetic layers.
- Do not drive equipment directly on the geomembrane liner except that which has the appropriate ground pressure requirements per specification section 02770-3.04.B.
  Install the geomembrane liner penetration boxes and connect the liner to penetrating pipes and boxes per Section 13005. Take extreme care while seaming around appurtenances as neither nondestructive nor destructive testing may be feasible in certain areas.

Geosynthetic Clay Liner (GCL):

- Prior to installation of the GCL, provide a Certification of acceptance to the CM for the surface upon which the GCL is to be placed. The surface shall be relatively smooth, firm and not containing ruts greater than ½-in., not be desiccated, and be free of stones, rocks, etc. which could damage the GCL.
- Do not place the GCL onto an area that has been softened by precipitation or that has cracked due to desiccation.
- Excavate the anchor trench prior to GCL placement. The anchor trench beneath the GCL shall be firm, clean and dry. Temporarily anchor the GCL in the anchor trench until all geosynthetic layers are installed in the trench.
- Do not initiate placement of GCL until GeoSyntec completes conformance testing and performance evaluation of the survey results for previous work. Weight the GCL with sandbags to prevent uplift or movement in the wind. Do not entrap stones or other foreign objects under the GCL.
- Cut the GCL using a utility blade. Do not drag equipment across the exposed GCL.
- Do not install GCL on a wet subgrade or in standing water. Prevent hydration of the bentonite core prior to completion of construction of the liner system as appropriate. Do not install the GCL during precipitation or other conditions that may cause hydration of the bentonite.
- Install the overlying HDPE liner as soon as possible following GCL installation. Cover all GCL that is placed during a work day with liner. Cover and protect the edges of GCL from hydration due to stormwater run-on. Remove and replace GCL that becomes hydrated (defined by a moisture content of 40% per ASTM D 4643).
- Place earthen material for the liner system on top of the geomembrane and other geosynthetics overlying the GCL as soon after installation of the GCL as possible.
- On slopes steeper than 5H:1V, install GCL continuously down the slope. Allow no horizontal seams on the base of the landfill within 5-ft. of the toe of a slope. Overlap the GCL a minimum of 6-in. along the sides and 12-in. along the ends.
- Do not drive equipment directly on the GCL. Smoking is absolutely prohibited.
- Repair any holes or tears in the GCL by placing a GCL patch over the hole. On slopes greater than 5%, the patch shall overlap the edges of the hole or tear by a min. of 2-ft. in all directions. On slopes less than 5%, the patch shall overlap the edges of the hole or tear by a min. of 1-ft. in all directions. Secure the patch with a water-based adhesive approved by the manufacturer.

Liner Penetration Boxes:

- Excavate subgrade, compacted fill & compacted clay liner to lines and grades required for placement of the liner penetration boxes. Hand grade the compacted clay liner surface on which the box is to be installed. Make surface smooth to obtain close contact between compacted clay liner and the liner penetration box. Recompact and re-grade if poor contact occurs between the bottom of the box and compacted clay liner surface.
- Apply bentonite powder at a rate of 1 lb/ft^2 to the compacted clay liners over the footprint of the box.
- Weld liner penetration box to the section of the LCS, redundant LCS or LDS pipe using an electrofusion coupling. Backfill around the liner penetration boxes using soil-bentonite mixture and compact. Fill any interface between the compacted clay and liner penetration box with bentonite granules.
- Air pressure test the liner penetration boxes. Fill the chamber of each liner penetration box with a bentonite slurry as prepared in accordance with contract specifications (02772-2.06.B). Install GCL over each liner penetration box as soon as air pressure testing, surveying and bentonite filling are complete.
- After completion of the air test, seal test openings with HDPE extrudate. Survey the locations and elevations of the liner penetration boxes prior to covering with GCL.

FDF's/GeoSyntec's Comments During Preparatory Phase Meeting:

Applicable Pre-Work Plans Accepted by FDF: __✓_ Yes ____ No
If No, Is An Interim Plan Being Utilized?: _____ Yes _____ No

J. Richard Schairbaum, QC Manager
Petro Environmental Technologies, Inc.

FDF ON-SITE DISPOSAL FACILITY (PHASE I) PROJECT
Petro Environmental Technologies, Inc.

PREPARATORY PHASE MEETING MINUTES

Date: September 22, 1997

Definable Work Feature: Installation of geotextile, HDPE liner, geosynthetic clay liner, and liner penetration boxes in Cell I.

Personnel Present:

J. Richard Schairbaum	Mike Godber	Maureen Enderle	Bill Nagle
Don Goetz	Don Pfister	Dave Sablosky	Dan Bodine
Lou Wehlitz	Kevin Allen	Skip Hartman	Jeph McMichen

Review of Applicable Sections (list):

02100 - Surveying
02215 - Trenching and Backfilling
02770 - Geomembrane Liner
02772 - Geosynthetic Clay Liner
13005 - Liner Penetration Boxes

Review of Contract Plans: _✓_ (✓)

Material and Equipment Submittals Complete and Approved (list):

Source of Embedment Fill Material: Submittal No. 036, Rev. 1; Document No. PET-035B, Rev. 1
Test Results of Embedment Fill: Submittal No. 036, Rev. 1; Document No. PET-035C, Rev. 1
Certification of Material Requirements: Submittal No. 047, Rev. 0; Document No. PET-052, Rev. 0
Geotextile Mfg. & Prod. Name: Submittal No. 024, Rev. 0; Document Nos. PET-025A.1-3, Rev. 0
Mfg's QC Certs. For Each Roll: Submittal No. 043, Rev. 0-2; Document No. PET-043, Rev. 0-2
Certification of HDPE Welding Rod: Submittal No. 024, Rev. 1; Document No. PET-025G, Rev. 1
Resin Vendor's QC Certificates: Submittal No. 056, Rev. 0; Document No. PET-064A, Rev. 0
Mfg's QC Test Results of Resin: Submittal No. 056, Rev. 0; Document No. PET-064B, Rev. 0
Mfg's Shift Production Certs.: Submittal No. 056, Rev. 0-2; Document No. PET-064C, Rev. 0-2
Certs. of Tensiometer Calibration: Submittal No. 063, Rev. 0; Document No. PET-071, Rev. 0
Internal/Interface Test Results: Submittal No. 057, Rev. 1; Document No. PET-065, Rev. 1
QC Certs. For GCL: Submittal No. 060, Rev. 1; Document No. PET-068, Rev. 1
Liner Penetration Box submittals are still pending from Ground Safe.

Testing/Inspections/Controls Required (Describe):

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ing HDPE liner, trial seaming must be conducted at the ***beginning*** of each seaming period and at least once ***each five hours*** for each apparatus used that day prior to seaming. Additionally, each seamer shall make at least one trial seam each day the seamer performs work. The trial seams are to be at least *15-ft. long by 1-ft. wide* (after seaming) with the seam centered lengthwise for fusion equipment; and at least *3-ft. long by 1-ft. wide* for extrusion equipment. Cut 4 specimens, each 1-in. wide from the trial seam sample -- test 2 specimens in shear and 2 in peel using field tensiometer. All specimens must pass the test; if a specimen fails, repeat the entire operation.

Nondestructive seam continuity testing will be conducted over the full length of the liner seams. Continuity testing is to be performed as the seaming work progresses, not at the completion of field seaming. Must use vacuum testing for extrusion welds and air pressure testing for double-track fusion seams. *Destructive testing* will be performed as well to evaluate the seam strength and integrity. Destructive test samples shall be collected at a minimum frequency of ***one test location per 500-ft.*** of seam length and at additional locations of suspected nonperformance. GeoSyntec will select all test locations. Cut two strips 1-in. wide by 12-in. long with the seam centered parallel to the width from either side of the sample location. Test the 2 sample strips in the peel mode; GeoSyntec may request an additional test in the shear mode. If these samples pass, prepare a laboratory sample at least 1-ft. wide by 3.5-ft. long and cut in to 3 parts: 1-ft. long (Installer), 1.5-ft. long (GeoSyntec), and 1-ft. long (FDF Construction Manager). After sample has been collected, immediately repair all holes in the geomembrane. The continuity of the new seams in the repaired area shall then also be tested.

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Work Area Inspection. Required Preliminary Work Complete and Acceptable? ____ Yes _✓_ No
If No, Describe Deficiency & Corrective Action.

Work is continuing on placement of the compacted clay liner. Prior to beginning placement of the initial layer of geosynthetics, a joint inspection of the compacted clay liner surface shall be made by the Installer and CQC Consultant to verify its acceptability. This will be documented on an approved form and formally submitted to FDF.

All Required Materials and Equipment on Hand: _✓_ Yes _____ No
If No, Describe Deficiencies and Corrective Action.

Safety Activity Hazard Analysis Reviewed: _✓_ (✓) (Refer to Final Safe Work Plan)

Discussion of Procedures for Completing Work: _✓_ (✓)

Construction Tolerances and Level of Workmanship:

otextiles:

- After unwrapping the geotextiles from its opaque cover, do not leave them exposed for a period in excess of 10 calendar days.
- Continuously overlap a min. of 6-in. and sew filter (7-oz.), cushion (10-oz.) and supplemental cushion (16-oz.) geotextiles using a "single prayer" seam. Overlap separator geotextiles (7-oz.) a min. of 12-in. and spot sew at intervals necessary to ensure the overlap is maintained. Seams shall be along, not across the slopes.
- Repair any holes or tears in the geotextiles using a patch made from the same material. Extend patches a min. of 1-ft. beyond the damaged area. Sew geotextile patches into place no closer than 1-in. from any panel edge.
- Install the geotextile along with the other geosynthetic layers into the anchor trenches at the crest of the slope. Backfill with compacted clay once all geosynthetic layers are installed in the trench.
- To the extent possible, do not place granular drainage material for the LDS or LCS on the side slopes until after the anchor trenches are completely backfilled.
- Do not drive equipment directly on the geotextile. Only use equipment that has the approved ground pressure as denoted in the specifications (02714-3.05.D). Place aggregate and/or soil over the geotextile prior to trafficking.

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- Do not deploy liner in an area until the CM has been provided with a Certificate of Subgrade Acceptance for that area. Do not deploy until GeoSyntec has completed a performance evaluation of previous work, including evaluation of survey results for previous work.
  Each field panel shall be given an identification code, as agreed upon between GeoSyntec and the Installer.
- Place each panel one at a time and seam each panel immediately after its placement. Use temporary rubsheets to prevent displacement or damage to underlying geosynthetics.
- Do not place any liner during any precipitation, in the presence of heavy fog or dew, in an area of ponded water, or in the presence of high wind. Do not seam at ambient temperatures below 40° F or above 104° F.
- Ensure that: no vehicular traffic is permitted directly on the liner; equipment used does not damage the liner; personnel working on the liner does not smoke or engage in any activity that would damage the liner; the method used to unroll the panels does not scratch or crimp the liner and does not damage the underlying geosynthetics or compacted clay soil; wrinkles are minimized - adjust or repair any area of liner wrinkles where the wrinkle height during the hottest portion of the day is more than 4-inches; and the liner is anchored or weighted with sandbags to prevent damage or uplift from wind.
- Do not install liner between 1-hr. before sunset and 1-hr. after sunrise unless approved by the CM.
- Do not perform seaming unless a "master seamer" and GeoSyntec is on-site. Orient seams parallel to the line of max. slope. Minimize the number of seams in corners. No horizontal seam shall be less than 10-ft. from the toe of the slope. Do not locate seams at an area of potential stress concentration.
- Sufficiently overlap liner panels for welding and to allow peel tests to be performed on each seam. Prior to seaming, clean the seam area and to ensure area to be bonded is free from moisture, dust, dirt, debris, etc. If seam overlap grinding is required, complete the process within 20 minutes of the seaming operation. Do not grind to a depth that exceeds 10% of the liner thickness. Grinding marks shall not appear beyond 0.25-inches of the extrudate after it is placed. Align seams with the fewest possible number of wrinkles and "fishmouths".
  Extend seams to the outside edge of the panels to be placed in the anchor trench.
  Repair any portion of the liner exhibiting a flaw or failing test using the most appropriate method of the available procedures listed in specification section 02770-3.02.K.4.

- Temporarily anchor each liner panel in the anchor trench at the crest of the slope as soon as the panel is deployed or positioned. Do not entrap soil, sand bags, etc. between the geosynthetic layers.
- Do not drive equipment directly on the geomembrane liner except that which has the appropriate ground pressure requirements per specification section 02770-3.04.B.
- Install the geomembrane liner penetration boxes and connect the liner to penetrating pipes and boxes per Section 13005. Take extreme care while seaming around appurtenances as neither nondestructive nor destructive testing may be feasible in certain areas.

Geosynthetic Clay Liner (GCL):

- Prior to installation of the GCL, provide a Certification of acceptance to the CM for the surface upon which the GCL is to be placed. The surface shall be relatively smooth, firm and not containing ruts greater than ½-in., not be desiccated, and be free of stones, rocks, etc. which could damage the GCL.
- Do not place the GCL onto an area that has been softened by precipitation or that has cracked due to desiccation.
- Excavate the anchor trench prior to GCL placement. The anchor trench beneath the GCL shall be firm, clean and dry. Temporarily anchor the GCL in the anchor trench until all geosynthetic layers are installed in the trench.
- Do not initiate placement of GCL until GeoSyntec completes conformance testing and performance evaluation of the survey results for previous work. Weight the GCL with sandbags to prevent uplift or movement in the wind. Do not entrap stones or other foreign objects under the GCL.
- Cut the GCL using a utility blade. Do not drag equipment across the exposed GCL.
- Do not install GCL on a wet subgrade or in standing water. Prevent hydration of the bentonite core prior to completion of construction of the liner system as appropriate. Do not install the GCL during precipitation or other conditions that may cause hydration of the bentonite.
- Install the overlying HDPE liner as soon as possible following GCL installation. Cover all GCL that is placed during a work day with liner. Cover and protect the edges of GCL from hydration due to stormwater run-on. Remove and replace GCL that becomes hydrated (defined by a moisture content of 40% per ASTM D 4643).
- Place earthen material for the liner system on top of the geomembrane and other geosynthetics overlying the GCL as soon after installation of the GCL as possible.
- On slopes steeper than 5H:1V, install GCL continuously down the slope. Allow no horizontal seams on the base of the landfill within 5-ft. of the toe of a slope. Overlap the GCL a minimum of 6-in. along the sides and 12-in. along the ends.
- Do not drive equipment directly on the GCL. Smoking is absolutely prohibited.
- Repair any holes or tears in the GCL by placing a GCL patch over the hole. On slopes greater than 5%, the patch shall overlap the edges of the hole or tear by a min. of 2-ft. in all directions. On slopes less than 5%, the patch shall overlap the edges of the hole or tear by a min. of 1-ft. in all directions. Secure the patch with a water-based adhesive approved by the manufacturer.

Liner Penetration Boxes:

- Excavate subgrade, compacted fill & compacted clay liner to lines and grades required for placement of the liner penetration boxes. Hand grade the compacted clay liner surface on which the box is to be installed. Make surface smooth to obtain close contact between compacted clay liner and the liner penetration box. Recompact and re-grade if poor contact occurs between the bottom of the box and compacted clay liner surface.
- Apply bentonite powder at a rate of 1 lb/ft^2 to the compacted clay liners over the footprint of the box.

- Weld liner penetration box to the section of the LCS, redundant LCS or LDS pipe using an electrofusion coupling. Backfill around the liner penetration boxes using soil-bentonite mixture and compact. Fill any interface between the compacted clay and liner penetration box with bentonite granules.
- Air pressure test the liner penetration boxes. Fill the chamber of each liner penetration box with a bentonite slurry as prepared in accordance with contract specifications (02772-2.06.B). Install GCL over each liner penetration box as soon as air pressure testing, surveying and bentonite filling are complete.
- After completion of the air test, seal test openings with HDPE extrudate. Survey the locations and elevations of the liner penetration boxes prior to covering with GCL.

FDF's/GeoSyntec's Comments During Preparatory Phase Meeting:

Numerous discussions were conducted throughout the meeting to clarify installation procedures with Ground Safe as each particular area was addressed (i.e. - GCL, HDPE liner, etc.). Further comments noted are as follows:

1. Ensure that the liner penetration boxes are installed to the survey control points as noted on the drawings and have them surveyed as required per contract specifications.

2. A DCN has been issued regarding the liner penetration boxes - make note of this when received and attach to the pertinent construction drawings.

3. A discussion was conducted between Ground Safe and GeoSyntec to clarify quality control issues - what color of marking paint each will be using, completion of QC forms, how will each panel be marked, etc.

Applicable Pre-Work Plans Accepted by FDF: __✓__ Yes ____ No
If No, Is An Interim Plan Being Utilized?: _____ Yes _____ No

J. Richard Schairbaum

J. Richard Schairbaum, QC Manager
Petro Environmental Technologies, Inc.

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GEOSYNTEC CONSULTANTS

FLUOR DANIEL FERNALD

TRANSMITTAL LETTER

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO: G00166 TASK NO.: 04.1

DESCRIPTION: Additional notes for prep phase meeting DATE: 06 day 10 month 97 year

ATTENTION: Rick Schneider

ADDRESS: Petro Environmental Technologies

☐ FOR APPROVAL	☐ PRINTS	☐ TEST RESULTS	☐ _____
☐ FOR COMMENTS	☐ PHOTOS	☐ DOCUMENTS	☐ _____
☒ AS REQUESTED	☐ LOGS	☐ CONTRACTS	☐ _____

NO. OF COPIES	DRAWING NUMBER	DESCRIPTION	DATE

REMARKS

Please find attached meeting notes for Preparatory Phase meeting.

000001

COPY TO: FILE FROM: GeoSyntec Consultants

SHEET NO. 1 OF 2

"Preparatory Phase Meeting" regarding geosynthetics, held 22 September 1997. The agenda prepared by PET; attendance record requires revision. Additional comments are noted below.

- Additional geomembrane material for interface testing is needed. PET/GSI will advise GeoSyntec on date and time the samples can be made available. GeoSyntec has pre-marked five rolls of geomembrane from five lots for sampling. The rolls are located in the uppermost tier of the geomembrane stockpile.

- Geosynthetic installation expected to commence week ending 28 September 1997.

- Access to the cell during geosynthetic installation will be limited to a list of approved individuals which will be maintained by PET. Personnel are required to wear soft sole, steel toe boots without deep lugs. A smoking area will be provided away from the geosynthetic area.

- The use of all terrain vehicles (ATV) on top of the geosynthetic clay liner (GCL) is being considered by GSI (Section 02772, Part 3.05.B stipulates that equipment can not be driven directly on the GCL). Clarifications are required regarding deployment procedures (i.e., with or without a rubsheet) and the results of a test program using an ATV. The latter will be forwarded to GeoSyntec for review and will require further discussion.

- GSI expects to make minor modifications to the proposed geomembrane panel layout, most likely in the cell corners. The proper shingling of the seams (i.e., towards the sump area) is required.

- Writing on the geomembrane must be clear and readable; GSI will write in white; GeoSyntec will write in yellow. GSI will mark each panel number so it can be easily seen from a distance. The roll number will also be marked on each panel. Other markings will include: production seaming information; air test results; and vacuum box test results. GeoSyntec personnel will initial the information while observing the associated activity or after the information is recorded.

- Minor changes to the liner penetration box detail is expected. Geomembrane liner boxes are being fabricated by Plastek Werks, Inc. of Gainsville, Georgia.

- Housekeeping must be performed routinely through out each day.

FERNALD ENVIRONMENTAL MANAGEMENT PROJECT
FERNALD, OHIO

FD FERNALD CONTRACT
DE-AC24-92OR21972

MEETING NOTES MN:SWP(OSDF):97-0077

SUBJECT: OSDF PHASE I PROGRESS MEETING

MEETING DATE: October 6, 1997

LOCATION: Fluor Daniel Fernald Office

ISSUE DATE: October 9, 1997 ECDC - 20100

DISTRIBUTION: + Attendees + + Part-time • Author of Notes

FDF
Maureen Enderle
Jeff Ellis
Mike Godber
+ *Don Goetz
+ Rick Heath
Rick Holbrook
Gregg Johnson
Jim Jenkins
Uday Kumthekar
+ Tim Keaty
Sue Lorenz
Rick McGuire
+ Jeff Middaugh
Carlos Pratt
Jim Turner

FDF
Dave Sablosky
Jim Salyers
Rob Turnbull
+ Lou Wehlitz
Bill Zebick

PETRO
+ Steve Brandstetter
Dave Williams
Rick Shairbaum

DOE
Joe Desormeau
Pete Darnell
Jay Jalovec
Joe Neyer
+ Don Pfister
Dennis Riley
Rod Warner

GEOSYNTEC
Dan Bodine
Ken Cargill
Jeph McMichen

SAFETY TOPIC

Fire prevention week, discuss escape plans with family members.

TQM

This is quality month. Let's not just practice quality one month out of the year, but all year long.

BALANCE

Enjoy your time off.

SAFETY, RADIATION PROTECTION, FIRE & INDUSTRIAL HYGIENE

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OCT 10 1997
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MEETING NOTES - Continued

A. Miller Equipment Company will be on site 10/07/97 to demonstrate fall protection at 0900, 1200 and 1400 in the Bldg.. 30/45 parking lot.

B. Power outage Friday, 10/10/97 at 1900 thru 1800, Saturday 10/11/97.

C. No injuries reported this week.

D Pete Bolig presented FDF rigging safety presentation, with additional presentations in the future.

E. Weekly walk through:
Need to replace fire extinguisher at storage trailer.
Smoking not always being done at designated area.

F. RACO has cuts in its tires; per tire manufacturer at the pressure (30 psi) we operate and if we operate on level ground, it will be acceptable to use. Pete Bolig has measured cut areas to establish baseline for monitoring.

G. IH has excavated Cell 2 cut and it was found safe and acceptable as dug.

H. Petro has begun an employee of the week award.

II. CHANGE ORDERS

A. Mods 7, 8, 9, are issued..

III. SCHEDULE BRIEFING

A. Petro passed out 4 week schedule and we went over the schedule with no changes at this time.

B. Working west berm area.

C. LCS, LCS(redundant) and LDS pipe lines have been tied-in to manholes LDS/LCS #1.

D. GCL mobilization on 10/09/97.

E. Decon facility to start after Village Builders vacate the area.

F. GIS structures will be installed when Village Builders bring up subgrade.

MEETING NOTES - Continued

IV. QUALITY

A. Petro to keep clay liner surface moist to minimize drying and desiccation cracks..

V. DESIGN ISSUES

A. Need DCN to use material left over from processing.

B. Need DCN omitting culverts.

VI. SUBMITTALS

Need the following submittals:
02770(Subgrade), which is on going
Traffic Control Plan, planning in progress
13005
13010

VII. CONSTRUCTION ISSUES

A. Need lifting plan for geosynthetics.

B. Waiting for Village Builders to move away from manholes 1,2,3 to permit continuation of OSDF Phase I.

VIII. GENERAL ISSUES

A. Petro may supplement GSI labor force.

B. Need to continue to coordinate dust control with Village Builders.

DBG:tjr

FERNALD ENVIRONMENTAL MANAGEMENT PROJECT
FERNALD, OHIO

FD FERNALD CONTRACT
DE-AC24-92OR21972

MEETING NOTES MN:SWP(OSDF):97-0080

SUBJECT: OSDF Phase 1 Construction Schedule and Progress Meeting

MEETING DATE: October 15, 1997

LOCATION: Fluor Daniel Fernald Office

ISSUE DATE: October 22, 1997 ECDC 20100

DISTRIBUTION: + Attendees + + Part-time • Author of Notes

FDF

+ •Maureen Enderle
Jeff Ellis
+ Mike Godber
+ Don Goetz
+ Rick Heath
Rick Holbrook
+ Gregg Johnson
Jim Jenkins
Uday Kumthekar
Tim Keaty
Sue Lorenz
Rick McGuire
+ Jeff Middaugh
Carlos Pratt
Jim Turner

FDF

+ Dave Sablosky
Jim Salyers
Rob Turnbull
+ Lou Wehlitz
+ Bill Zebick

PETRO

+ Steve Brandstetter
+ Dave Williams
Rick Shairbaum
+ Mark Mather

DOE

Joe Desormeau
Pete Darnell
Jay Jalovec
Joe Neyer
Don Pfister
Dennis Riley
Rod Warner

GEOSYNTEC

+ Dan Bodine
Ken Cargill
Jeph McMichen

SAFETY TOPIC

Everybody's job is to maintain dust control. Wear eye protection, especially due to high wind.

TQM

Need to manage the schedule and not let the schedule manage us.

Balance

Can't we all just get along?

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MEETING NOTES - Continued

1. Reason for meeting: To discuss what we need to do to expedite the schedule once Petro's subs get mobilzed.

2. Mark Mather discussed where Petro is and where they need to go.

3. No approved submittal for HDPE for GCL installation - only outstanding submittal is liner penetration boxes.

4. No approved safe work plan for HDPE installation

5. Only 170K sf of GCL approved. Need 600K sf more to complete job. Dependent upon GCL shear envelope. 100% of data will not be available until Oct. 20.

6. Petro 4 data received by Dan Bodine (GeoSyntec) on the mornong of 10/13 am Data being evaluated.

7. GCL 11 (38 roll) retest and GCL 12 (16 roll) retest results should be available on 10/14 according to Dan Bodine.

8. On 9/29 Petro decided what data points needed first. Reasoning for retesting 45 psi first. Now waiting on 20 psi results. All of 45 psi test results have failed according to GeoSyntec. Not all of the 20 psi tests have passed. As Petro receives data, they forward it to GeoSyntec for review.

9. All 20 psi test results to be available on 10/15/97.

10. GSI no coming on 10/15/97 because do not have approved material nor approved installation methods.

11. FDF to give letter to Petro stating that have approved HDPE for installation. 375,000 sf of HDPE needed to mobilize and get started.

12. GCL 7 not approved. Waiting on test results. Issue to be taken off line.

13. Petro 4 not approved. Cut out of same roll as GCL 9.

14. Test for 20 psi and 45 psi most important in stability analysis.

15. Installation Process:

    a. Safety Indoctrination
    b. Deploy GCL, HDPE - cannot drive any equipment on materials as deploy. DCN submitted for 4 wheelers.

MEETING NOTES - Continued

c. Seaming - call for cold weather work plan.
d. Petro asked for DCN of double liner in same anchor trench.
e. DCN for using dozer on slopes is in the system.

16. Petro asking for GeoSyntec's professional opinion based on data that they have now.

17. Downside of trying to install GCL and running out of approved material - FDF pays down time.

18. We don't have enough material approved to start Wednesday. IF we called now how soon could GSI be here? Don't know. Options: Wait, Call GSI to come and pay down time.

19. All of GeoSyntec's test data not going to be available whenl Petro wants to put in 2 Nd liner.

Reconvene: 1630 10/13/97 Trailer I

10/13/97

1. HDPE letter is in typing.

2. Safe Work Plan held up due to ATV issue. Manufacturer spec does not allow for ATV on liner at present.

3. FDF wants GSI on site ASAP. Petro wants to review available data to see potential for passing GCL tests before telling GSI to mobilize.

4. Petro does not have enough info to start second phase even if get through first phase. Nov. 5 will be day that GeoSyntec will have available data. Petro would need by week of 10/29 without using ATVs. If use ATV, Petro would need info by 10/26.

5. GSI not here now because they have other jobs that have been approved and they are laying liner elsewhere. Next window of opportunity was going to be Wed (depending on weather).

6. FDF to give Petro a letter giving directive to bring GSI on site ASAP. Petro requested a cure letter.

7. Petro wants to understand the approval process with FDF, GeoSyntec and Petro for GCL.

MEETING NOTES - Continued

8. Petro needs GSI to mobilize and start deploying material. Petro needs good material to proceed.

9. Petro 6,7,3 were given to GeoSyntec today in raw data form.

10. Expecting Petro 5 this afternoon.

11. Unless someone can produce some more labs, Petro may not always get all the data they need because labs are booked up.

12. Petro needs to know where the next 125k cy of GCL will be coming from so they can analyze the data to make a judgement of risk.

13. Petro 4, by Petro's data, cannot be approved but by GeoSyntec's data it can be approved.

14. GCL 7 would be the next to be potentially approved.

15. Petro does anticipate using lights to work beyond dusk.

16. When can select impacted material be placed? Is this when wedge is complete and the anchor trench is backfilled.? Can we get the anchor trench in sooner?

Summary:

1. Sablosky to give Petro a letter to cure to get GSI on site.

2. Petro to submit ATV manufacturer product data to get approval for use on liner.

3. FDF letter to Petro for HDPE.

4. Petro still need installation plan for HDPE liner penetration boxes now with GeoSyntec.

5. Petro needs to submit cold weather plan.

6. Anchor trench RCI 1702 009R is in system.

7. At what point can select impacted material be placed?

8. Petro wants to be able to test wedge with Shelby tube when sacrificial layer removed instead of ull testing when placing. Petro to submit DCN.

9. Lifting Plan to be submitted 10/14 based on meeting with Greg Cantwell.

MME:tjr

FERNALD ENVIRONMENTAL MANAGEMENT PROJECT
FERNALD, OHIO

FD FERNALD CONTRACT
DE-AC24-92OR21972

MEETING NOTES MN:SWP(OSDF):97-0086

SUBJECT: OSDF PHASE I PROGRESS MEETING

MEETING DATE: October 20, 1997

LOCATION: Fluor Daniel Fernald Office

ISSUE DATE: October 22, 1997 ECDC - 20100

DISTRIBUTION: + Attendees + + Part-time • Author of Notes

FDF
+ •Maureen Enderle
Jeff Ellis
Mike Godber
+ Don Goetz
Rick Heath
Rick Holbrook
Gregg Johnson
Jim Jenkins
Uday Kumthekar
Tim Keaty
Sue Lorenz
Rick McGuire
Jeff Middaugh
Carlos Pratt
Jim Turner

FDF
+ Dave Sablosky
Jim Salyers
Rob Turnbull
Lou Wehlitz
Bill Zebick

PETRO
+ Steve Brandstetter
Dave Williams
Rick Shairbaum

DOE
Joe Desormeau
Pete Darnell
Jay Jalovec
Joe Neyer
Don Pfister
Dennis Riley
Rod Warner

GEOSYNTEC
+ Dan Bodine
Ken Cargill
Joph McMichen

SAFETY TOPIC

Watch weather changes. Weather clothing in layers.

TQM

Practice TQM where you are.

BALANCE

Forest View Gardens - GO.

000610

NOTE: Due to lack of attendance, an informal meeting was held.

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MEETING NOTES - Continued

A. Dan Bodine asked about refueling of ATV? Not to be refueled on Goesynthetics. Any FDF requirements?

B. Use of vehicle on wrinkled material what kind of pressure? Want <5 psi for ATV during operation.

C. Don Goetz to get with Safety after meeting to determine requirements for ATV use.

D. Dan Bodine showed FDF and Petro plan of Cell I certification points top of clay. For one row of points in intercell berm, GeoSyntec missing olevations. Need to these points for determination of clay thickness.

E. PT. 1371 Hirsch had wrong elevation. Coordinates weren't at the toe of the slope.

F. Hope to deploy GCL tomorrow morning.

G. Cold weather plan being submitted to Bill Zebick by Petro.

H. Traffic Plan being developed for transportation of stone in cell areas.

I. Developing different traffic plan for each different activity.

J. Security Fence working at intersection of New and old north access roads. Fence going up along new road.

K. Dan Bodine acknowledged receipt of 20 psi test results on PET-2.

MME:tjr

MEETING NOTES MN:SWP(OSDF):97-0087

SUBJECT: OSDF PHASE I PROGRESS MEETING

MEETING DATE: October 27, 1997

LOCATION: Fluor Daniel Fernald Office

ISSUE DATE: November 3, 1997ECDC - 20100

DISTRIBUTION: + Attendees ++ Part-time * Author of Notes

FDF

Maureen Enderle
Jeff Ellis
Mike Godber
+*Don Goetz
Rick Heath
Rick Holbrook
Gregg Johnson
Jim Jenkins
Uday Kumthekar
Tim Keaty
Sue Lorenz
Rick McGuire
+Jeff Middaugh

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FDF

Carlos Pratt
Jim Turner
Dave Sablosky
Jim Salyers
Rob Turnbull
Lou Wehlitz
Bill Zebick

PETRO

+ Steve Brandstetter
+ Dave Williams
Rick Shairbaum

DOE

Joe Desormeau
Pete Darnell
Jay Jalovec
Joe Neyer
+Don Pfister
Dennis Riley
Rod Warner

GEOSYNTEC

Dan Bodine
Ken Cargill
Jeph McMichen

SAFETY TOPIC

Use extreme caution when working on Clay and GML.

TQM

Work your plan.

BALANCE

Enjoy whatever time we can get.

** NOTE: Due to lack of attendance, an informal meeting was held.

SAFETY

- Lighting required at work area, if work progresses past daylight; min requirement 5 lumens.
- ATV's require 5lb. Fire Extinguisher.
- Life Vests required if water depth is 3' or greater.

SUBMITTALS

- Need revision or addendum to Safe Work Plan to address use of helicopter.

CONSTRUCTION ISSUES

- Work GIS Installations
- Crews working clean-up from this week storms
- Working on impacted material Haul Road
- Start Decon Pad in approximately two weeks
- Petro needs remaining GCL Data
- Four light power plants staged at Ruselo in Sharronville

DG:sla

FERNALD ENVIRONMENTAL MANAGEMENT PROJECT
FERNALD, OHIO

FD FERNALD CONTRACT
Subcontract No. 95PS005028

MEETING NOTES

SUBJECT: MONTHLY FDF/GEOSYNTEC MEETING No. 6
TITLE III CONSTRUCTION SERVICES

MEETING DATE: October 20, 1997

LOCATION: Fluor Daniel Fernald Office

ISSUE DATE: November 6, 1997 (Re-wrote Meeting Memo Dated 21 October)

DISTRIBUTION: + Attendees + + Part-time * Author of Notes

FDF		GeoSyntec	
	Mike Hickey, MS64		Dan Bodine, MS38
+	Rick Holbrook, MS64		Rudy Bonaparte, Atlanta
+	Uday Kumthekar, MS64	+	Ken Cargill, Atlanta
+	Bill Zebick, MS64	+ *	Jeph McMichen, MS38
+	Mike Godber, MS64		Ned Meekins, MS38
+	Lou Wehlitz, MS64		

I. GeoSyntec Manpower and Staffing

A. The focus of the meeting was to formulate a GeoSyntec staffing schedule through the completion of Phase 1 at the Fernald site. This assumes completion of Phase 1 during the 1997 construction season. An discussion on the staffing needs and requirements was held. A staffing schedule was estimated based on the following work progress:

(a) completion of the leachate conveyance system (LCS) by 31 October 1997, excluding the punch list;

(b) completion of clay liner soils excavation, stockpiling and placement by 31 October 1997, excluding anchor trench backfilling and "wedge" placement, and

(c) completion of the impacted haul road by 31 October 1997, excluding that portion entering Cell No. 1.

It was agreed that as of 1 November 1997 GeoSyntec on site staff will include Resident Engineer, COC Site Manager, Administrative Assistant and five Technicians. If conditions warrant, the staff estimate would be re-evaluated.

B. A brief discussion of the clay liner permeability window, otherwise known as the APZ, was held. Bill stated that he thought the window was too narrow. GeoSyntec indicated that the window was a normal window and that with proper moisture conditioning and compaction the window can be met without much difficulty. However, GeoSyntec did indicate that they would be willing to look at alternatives in the future.

C. GeoSyntec and FDF discussed briefly the status of invoicing and payment.

DGB:JFM

To the best of my knowledge and belief, these minutes are an accurate reflection of the statements made during the subject meeting. Any claims of errors, omissions or misinterpretations shall be placed in writing and discussed at the next meeting. If no further meeting is to be held, the written statements will be published as an addendum to the last minutes. Failure to make notification by the next meeting (or with ten calendar days of the receipt of the minutes when no further meeting has been scheduled) shall constitute acceptance of these minutes as written.

Prepared by: Jeph McMichen Phone No. 648-3419 Date: 06 November 1997

MEETING ROSTER

ON-SITE DISPOSAL FACILITY (PHASE I) PROJECT
FDF SUBCONTRACT NO.: FSC 597
PETRO ENVIRONMENTAL TECHNOLOGIES, INC.

Subject: Initial Phase QC Meeting for Geosynthetics and Safety Orientation

Location: Petro Environmental Field Trailer

Date/Time: November 12, 1997 / 8:30AM

Name	Affiliation	Badge Number
[redacted]	Petro Environmental	76147
	EDCI	76542
	EDCI	76540
	EDCI	76543
	EDCI	76545
	EDCI	76544
	EDCI	76534
	EDCI	76541
	GEOSYNTEC	76024
	E.D.C.I.	576535
	FDF/QH	8145
	Petro Environmental	72349
	EDCI	76536
	EDCI	76539
	EDCI	76537
	EDCI	76538

PETRO environmental technologies

FDF ON-SITE DISPOSAL FACILITY (PHASE I) PROJECT
Petro Environmental Technologies, Inc.

INITIAL PHASE MEETING MINUTES

Date: October 20, 1997

Definable Work Feature: Installation of geotextile, HDPE liner, geosynthetic clay liner, and liner penetration boxes in Cell I.

Personnel Present:

~~Dave Williams~~	~~Alan Zagaron~~	~~Tom Harrell~~	~~Stephen Gardner~~	~~Kirk Wills~~
J. Richard Schairbaum	~~Kevin Allen~~	~~Eric Steen~~	~~Michael Godber~~	~~Bob Elkin~~
~~Scott Quammen~~	~~Rob Turnbull~~	~~Kelly Hartman~~	~~Muriel Bigner~~	~~Don Goetz~~
~~Rob Peddicord~~	~~John Allen~~	~~Charles Moore~~	~~Rick Heath~~	~~Ken Wheeler~~
~~Bill Nagel~~				

Review of Preparatory Phase Meeting Minutes: __✓__ (✓)

Preliminary Work Being Performed (Describe):

The compacted clay liner has been completed, however, prior to beginning placement of the initial layer of geosynthetics, a joint inspection of the compacted clay liner surface shall be made by the Installer and CQC Consultant to verify its acceptability. This will be documented on an approved form and formally submitted to FDF. Additionally, material conformance sampling shall be completed and all survey results reviewed and confirmed by GeoSyntec prior to deployment of geosynthetics.

Preliminary Work in Compliance with Contract Requirements: __✓__ Yes _____ No
If No, Corrective Action Taken:

Materials Being Installed (List with Submittal Number and Action Code):

Source of Embedment Fill Material: Submittal No. 036, Rev. 1; Document No. PET-035B, Rev. 1; Action Code: A
Test Results of Embedment Fill: Submittal No. 036, Rev. 1; Document No. PET-035C, Rev. 1; Action Code: A
Certification of Material Requirements: Submittal No. 047, Rev. 0; Document No. PET-052, Rev. 0; Action Code A
Geotextile Mfg. & Prod. Name: Submittal No. 047, Rev. 0; Document Nos. PET-025A.1-3, Rev. 0; Action Code: A
Mfg's QC Certs. For Each Roll: Submittal No. 043, Rev. 0-2; Document No. PET-043, Rev. 0-2; Action Code: A
Certification of HDPE Welding Rod: Submittal No. 024, Rev. 1; Document No. PET-025G, Rev. 1; Action Code: A
Resin Vendor's QC Certificates: Submittal No. 056, Rev. 0; Document No. PET-064A, Rev. 0; Action Code: A
Mfg's QC Test Results of Resin: Submittal No. 056, Rev. 0; Document No. PET-064B, Rev. 0; Action Code: A
Mfg's Shift Production Certs.: Submittal No. 056, Rev. 0-2; Document No. PET-064C, Rev. 0-2; Action Code: A
Certs. of Tensiometer Calibration: Submittal No. 063, Rev. 0; Document No. PET-071, Rev. 0; Action Code: A
Internal/Interface Test Results: Submittal No. 057, Rev. 1; Document No. PET-065, Rev. 1; Action Code: A
QC Certs. For GCL: Submittal No. 060, Rev. 1; Document No. PET-068, Rev. 1; Action Code: Under Review
Fabricator's Qual./QC Proc.: Submittal No. 035, Rev. 1; Document Nos. PET-034E.1 & .2; Action Code: A
Origin & ID of PE Resin: Submittal No. 035, Rev. 1; Document No. PET-034C; Action Code: A

PETRO environmental technologies

Equipment Utilized in Executing Work (List):

Front End Loader ATVs

Any Deviations From the Previously Approved Submittal(s)?: _____ Yes __✓__ No
If Yes, Describe Deviation (Materials or Construction Methods):

Testing/Inspections/Quality Control Required (Describe):

Testing:

The CQC Consultant (GeoSyntec) shall perform conformance sampling of the geotextile, HDPE liner, and GCL in accordance with contract specifications and their approved CQA Plan. Installation of these geosynthetics shall not commence until GeoSyntec has completed conformance testing and approved the use of these materials. Concerning HDPE liner, trial seaming must be conducted at the ***beginning*** of each seaming period and at least once ***each five hours*** for each apparatus used that day prior to seaming. Additionally, each seamer shall make at least one trial seam each day the seamer performs work. The trial seams are to be at lest *15-ft. long by 1-ft. wide* (after seaming) with the seam centered lengthwise for fusion equipment; and at least *3-ft. long by 1-ft. wide* for extrusion equipment. Cut 4 specimens, each 1-in. Side from the trial seam sample -- test 2 specimens in shear and 2 in peel using field tensiometer. All specimens must pass the test; if a specimen fails, repeat the entire operation.

Nondestructive seam continuity testing will be conducted over the full length of the liner seams. Continuity testing is to be performed as the seaming work progresses, not at the completion of field seaming. Must use vacuum testing for extrusion welds and air pressure testing for double-track fusion seams. *Destructive testing* will be performed as well to evaluate the seam strength and integrity. Destructive test samples shall be collected at a minimum frequency of ***one test location per 500-ft.*** of seam length and at additional locations of suspected nonperformance. GeoSyntec will select all test locations. Cut two strips 1-in. Wide by 12-in. Long with the seam centered parallel to the width from either side of the sample location. Test the 2 sample strips in the peel mode; GeoSyntec may request an additional test in the shear mode. If these samples pass, prepare a laboratory sample at least 1-ft. Wide by 3.5-ft. long and cut into 3 parts: 1-ft. Long (Installer), 1.5-ft. long (GeoSyntec), and 1-ft. Long (FDF Construction Manager). After sample has been collected, immediately repair all holes in the geomembrane. The continuity of the new seams in the repaired area shall then also be tested.

Inspections/Quality Control:

As the various rolls of geosynthetics are utilized and deployed, the QC Manager and GeoSyntec will inspect the materials for damage. Those portions of material that are determined to be damaged shall be removed prior to final placement and sewing/seaming in place. Periodic QC inspections will also be routinely conducted to ensure compliance with contract specifications and the construction tolerances and level of workmanship as discussed below. The QC Manager and CQC Consultant will jointly participate in the inspection and evaluation of all materials and work being performed, as well as the results of required field testing, to ensure compliance with contract specifications.

Access onto the deployed geosynthetic material will be controlled by Petro Environmental to prevent potential damage to the geosynthetics and to avoid problems during deployment/welding/sewing activities. All personnel will be required to wear soft sole, steel-toed boots without deep lugs. Bottoms of shoes will be inspected for small rocks and other sharp objects prior to stepping onto the geosynthetics to prevent potential damage. ***No smoking*** will be permitted on the geosynthetics, however, a designated smoking area will be provided away from the geosynthetic area.

All Required Materials and Equipment on Hand: __✓__ Yes _____ No
If No, Describe Deficiencies & Corrective Action:

Discussion of Procedures/Methods for Completing Work: __✓__ (✓)

Workmanship Meets Minimum Acceptable Standards: __✓__ Yes _____ No
If No, Corrective Action Taken:

Safety Measures Comply with Requirements of SSHP & Activity Hazard Analysis: __✓__ Yes _____ No
If No, Corrective Action Taken:

Safety Activity Hazard Analysis Reviewed: __✓__ (✓) (See Attached)

Is a Change in the Activity Hazard Analysis Required?: _____ Yes __✓__ No
If Yes, Describe Changes and Reason(s) Why:

FDF's/GeoSyntec's Comments During Initial Phase Meeting:

Some minor modifications to the proposed geomembrane panel layout may be required in the cell corners. The proper shingling of seams toward the sump area will be required. Concerning marking on the geomembrane, Ground Safe will record notations in white, GeoSyntec will use yellow. Each panel must include the roll number, as well as producing seaming information, air test results, and vacuum box test results. Finally, housekeeping must be performed routinely throughout each day.

Deficiencies Noted In This Report Have Been Included On Deficiency Tracking Log: _____ Yes _____ No

No deficiencies were noted during the Initial Phase Inspection.

QC Representative Verification:

The above information is complete and correct. Materials being installed are the same as those approved. All equipment, materials and workmanship in this phase or work are in strict compliance with the QC procedures and requirements of the contract.

J. Richard Schairbaum

J. Richard Schairbaum, QC Manager
Petro Environmental Technologies, Inc.

FERNALD ENVIRONMENTAL MANAGEMENT PROJECT
FERNALD, OHIO

FD FERNALD CONTRACT
DE-AC24-92OR21972

MEETING NOTES MN:SWP(OSDF):97-0099

RECEIVED
DEC 0 2 1997
1615 HS

SUBJECT: OSDF PHASE I PROGRESS MEETING

MEETING DATE: December 1, 1997

LOCATION: Fluor Daniel Fernald Office

ISSUE DATE: December 2, 1997 ECDC - 20100

DISTRIBUTION: + Attendees ++ Part-time • Author of Notes

FDF
Jeff Ellis
Mike Godber
+Don Goetz
Rick Heath
Rick Holbrook
Gregg Johnson
Jim Jenkins
• Uday Kumthekar
Tim Keaty
Sue Lorenz
Rick McGuire
+Jeff Middaugh
Carlos Pratt
+*Maureen Richard
Jim Turner

FDF
Dave Sablosky
Jim Salyers
Rob Turnbull
Lou Wehlitz
Bill Zebick

PETRO
+Steve Brandstetter
Dave Williams
Rick Shairbaum

DOE
Joe Desormeau
Pete Darnell
Jay Jalovec
Joe Neyer
+Don Pfister
Dennis Riley
Rod Warner

GEOSYNTEC
+Dan Bodine
Ken Cargill
Jeph McMichen

SAFETY TOPIC

Watch the weather. Watch freezing conditions on clay surfaces.

TQM

A great idea doesn't have to be a big one.

BALANCE

Is there balance around here?

I. SAFETY, RADIATION PROTECTION, FIRE & INDUSTRIAL HYGIENE

A. No weekly walk through last week.

MEETING NOTES - Continued

B. Back strain reported today. Incident happened Saturday. Need to report injuries in timely manner.

C. Construction has completed 5 years without a lost time injury on site.

D. Refueling of equipment. Reminder: need to have a fire extinguisher close at hand.

E. Stone delivery trucks reported with no backup alarms. Petro is addressing the issue.

F. Night work going well. Need flashlights for personnel. VBS requested to have this added to Safe Work Plan.

G. IH staying over this evening to set up lights for tomorrow.

H. Requirement for vehicles (private & company) is to have back up alarms.

I. Need to watch out for yourself when handling liner in high winds.

J. Great improvements in housekeeping.

K. At end of year, RAD issuing new work permits.

L. Gregg Johnson to cover a.m. shift tomorrow for safety. Personnel need flashlights and reflective vests.

M. Good feedback on new liner crew.

N. Pete Bolig (PETRO) has begun noise evaluation monitoring for heavy quipment.

O. DOE evaluating FDF by evaluating Petro. FDF should catch issues before DOE does.

II. <u>CHANGE ORDERS</u>

Nothing to report.

III. <u>SCHEDULE BRIEFING</u>

A. Trying to get 4 runs of GML and GCL down today.

B. Attempting to place 10-12 runs of material tomorrow.

C. Petro writing a lift plan to spool out material from the Hitachi for the slopes.

MEETING NOTES - Continued

D. Depending on weather, GML and GCL placement should be complete by Friday December 6, 1997.

E. Petro bringing on 4 more articulating trucks and a 350 track hoe for the impacted material placement.

F. Impacted material placement in Cell I pushed to December 10 and 11, 1997.

IV. QUALITY

Nothing to report.

V. DESIGN ISSUES

A. DCN 36 - Don Goetz has signed.

B. Any comments on Phase II Drawings or specs need to get to FDF engineering ASAP. Addendums need to be completed by Thursday, December 4, 1997.

VI. SUBMITTALS

A. 57R2 still incomplete - Direct Shear Tests

VII. CONSTRUCTION ISSUES

Nothing to report.

VIII. GENERAL ISSUES

A. FDF to find out when Phase II proposal is due. Contact Dave Sablosky.

B. Construction Manager must approve any work with frosted or frozen material. Spec section 02200 spells out no placement of frozen material.

C. People driving vehicles need to try to stay on old North Access Road to minimize mud on new road.

MME:tjr

MEETING NOTES MN:SWP(OSDF):97-0101

SUBJECT: OSDF PHASE I PROGRESS MEETING

MEETING DATE: December 10, 1997

LOCATION: Fluor Daniel Fernald Office

ISSUE DATE: December 10, 1997ECDC - 20100

DISTRIBUTION: + Attendees ++ Part-time
* Author of Notes

FDF

Maureen Enderle
Jeff Ellis
Mike Godber
+ *Don Goetz
Kevin Harbin
+ Rick Heath
Rick Holbrook
Gregg Johnson
Jim Jenkins
Uday Kumthekar
+ Tim Keaty
Sue Lorenz
Rick McGuire
+ Jeff Middaugh

FDF

Carlos Pratt
Jim Turner
Dave Sablosky
Jim Salyers
Rob Turnbull
Lou Wehlitz
+ Bill Zebick

PETRO

+ Steve Brandstetter
  Dave Williams
  Rick Shairbaum

DOE

Joe Desormeau
Pete Darnell
Jay Jalovec
Joe Neyer
+ Don Pfister
Dennis Riley
Rod Warner

GEOSYNTEC

+ Dan Bodine
Ken Cargill
Jeph McMichen

SAFETY TOPIC

Holiday's are comming up; don't let your Christmas Tree dry out. Check Xmas lights for damage etc.

TQM

Change: The main ingredient for improvement.

BALANCE

Make a list of 25 things you want to experience before you die; Carry it in your wallett and refer to it often.

SAFETY, RADIATION, PROTECTION, FIRE & INDUSTRIAL HYGIENE

- No reported injuries.

- Need to perform safety walkdown each week.

- Ensure Light Towers are positioned and turned on at that appropriate time; use portable light units when working outside the light towers' illumination range and always wear reflective vest and carry flashlight.

- Petro's noise monitoring survey is in progress.

- Southfield and Waste Projects are aware of requirements to clean roads.
- Petro (Pete Bolig) to coordinate with FDF Safety to evaluate heating of stored pine sap material.
- SSR Team performing evaluations.

CHANGE ORDERS

- Change Order forthcomming GCL Storage and GCL Storage Area.

SCHEDULE BRIEFING

- GML will finish today. (Area blacked in)
- "V" Box testing and detailing on primarily layer in progress; weather permitting, finish on Friday.
- Impacted Material Placement pushed to December 18th or 19th.

QUALITY

- All team members need to communicate their CQC needs (support etc.) to CQC personnel.

DESIGN ISSUES

- FDF Engineer (Rick Heath) to provide Petro with letter describing GCL Storage Requirements.

SUBMITTALS

- Need Petro's Daily Reports.
- Petro checking on use limits (temperature range) for "Pine SAP" application(s).

GENERAL ISSUES

- None