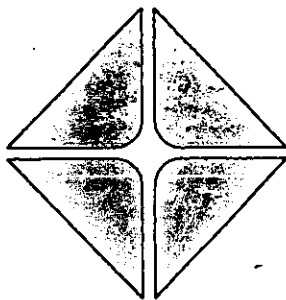


File on eDOCs Yes No
Site Name 902003
Site No. SINCLAIR REFINERY
County ALLEGANY
Town WELLSVILLE
Foitable Yes No
File Name Documents / Reports
Scanned & eDOC

Report, HW 902003, 1993-09, RA - CENTRAL - LANDFILL -
Vol 2.



Prepared for

Atlantic Richfield Company

515 South Flower Street
Los Angeles, California 90071

**REMEDIAL ACTION REPORT
CENTRAL ELEVATED LANDFILL AREA**

**SINCLAIR REFINERY SITE
WELLSVILLE, NEW YORK**

VOLUME II

Prepared by

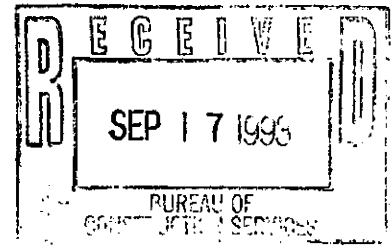


GEOSYNTEC CONSULTANTS

5775 Peachtree Dunwoody Road
Atlanta, Georgia 30342

Project Number: GQ3201

September 1993



APPENDIX B

GEOSYNTEC CONSULTANTS' WEEKLY FIELD REPORTS



WEEKLY FIELD REPORT

DATE: 9 day June mo. 92 yearPROJECT: Sinclair Refinery Remediation PROJECT NO.: G43201 TASK NO.: 02LOCATION: Wellsville, N.C. WEEK ENDING: 7 day June mo. 92 year

During the following key activities were performed

- A submittal log, submittal cover sheet, and review form were developed.
- Contract Submittals were reviewed - key items were
 - need more detail in demarcation of exclusion zone and ingress and egress of workers from site
 - E&S plan was conceptually OK, but needs more detail -
 - E&S Plan will not be submitted to NYS Soil Conservation Engineer instead; once approved by ARCO it will be submitted to the USEPA and NYSDOL.
- The use of chipped trees were reviewed. It was determined that chipped trees ~~are~~ are acceptable for mulch. While allowed under spec, it will be difficult to add chipped trees to amend topsoil.
- ~~C~~ Clearing and Grubbing can not take place until E&S Plan approved and implemented.
- Disposal disposal of downed trees - trees on ground are considered clean - ~~to~~ roots above ground are considered dirty. Buried

COPY TO: R. Ivy, ARCOPER: J. Seal



GEO SYNTec CONSULTANTS

WEEKLY FIELD REPORT

DATE: 9 day June mo. 92 year

PROJECT: Sinclair Refinery Remediation PROJECT NO.: GQ3201 TASK NO.: 02

LOCATION: Wellsville, New York WEEK ENDING: 7 day June mo. 92 year

trees are considered dirty.

- ~~Common~~ Prepared Common fill borrow source was visited. Material has particles >3in, which is max allowed in Spec. Contractor indicated >3in particles will be removed on-site by hand not screened at source. This is allowed by specifications.
- Construction meeting held on 5 June 92 -
 - Minutes taken by Geo-Con.
 - After the meeting it was J. Beech, Geosyntec met w/ P. Ruiz of Geo-Con - Reviewed EFS issues - J. Beech explained requirements for storm water management. This ^{system} needs to be in place before grubbing begins.

COPY TO: IV7 ARCO

PER: J. H. Beech



GEOSYNTEC CONSULTANTS

ARCO

WEEKLY FIELD REPORT

DATE: 16 day June mo. 1992 year

PROJECT: SINCLAIR REFINERY REMEDIATION PROJECT NO.: GQ3201 TASK NO.: 02

LOCATION: WELLSVILLE, NEW YORK WEEK ENDING: 14 day June mo. 92 year

During the week ending 14 June 1992
the following key activities took place:

- The QC testing requirements were reviewed by Geo-Con and GeoSyntec Consultants.
- It was determined that the E&S plan would not be sent to the soil conservation service. Instead it would be sent to the USEPA and NYSDOC.
- Sampling and Analysis Plan and Health and Safety Plan were reviewed.
- Two test borings were drilled by Geo-Con along slurry wall alignment. Samples from ~~both~~ ^{borings} were taken by Geo-Con to confirm soil-bentonite mix design. Boring Drilling was monitored by GeoSyntec Consultants.
- Contractor grouted wells along slurry wall shown on Drawing AK-12. MW-12 and MW-17 could not be located.
- ^{was held} attended weekly construction meeting. Contractor was notified the only work he can perform is clearing. No other work can be performed until Erosion & Sediment Control Plan and Work Plan are submitted.
- Monthly progress meeting was submitted.

COPY TO: R. IUY

PER: J.V. Beal



GEO SYNTEC CONSULTANTS

ARCO 

WEEKLY FIELD REPORT

DATE: 29 day JUNE mo. 1992 year

PROJECT: SINCLAIR REFINERY REMEDIATION PROJECT NO.: GQ3201 TASK NO.: 02

LOCATION: WELLSVILLE, NEW YORK WEEK ENDING: 21 day JUNE mo. 1992 year

The following key activities took place during the week ending 21 June 1992.

- R. North arrived site on 15 June & J. Beech departed site on 19 June.
- Site clearing along slurry wall alignment started on 17 June.
- Questions raised with Vinu Patel, EBS&C, regarding coordinates & location slurry wall with respect to west property boundary.
- Appropriate chemical testing procedures/protocols discussed with Clinic Lab & Alfred Analytical & Technical Lab.
- Notice given to EPA, DEC & DOH that air sampling to start on Monday 22 June.
- Decon trailers to site.
- Chipping storage area cleared.
- Submittals reviews
 - Evidence of Medicals - approved
 - Calibration Certificate - approved
 - Erosion & Sed Plan - under review
- Weekly Construction meeting with Geo-Cons on 19 June

COPY TO: R. Isy

PER: Ry - Kts



GEO SYNTEC CONSULTANTS

ARCO 

WEEKLY FIELD REPORT

DATE: 29 day ~~JUNE~~ mo. 1992 year

PROJECT: SINCLAIR REFINERY REMEDIATION PROJECT NO.: GQ3201 TASK NO.: 02

LOCATION: WELLSVILLE, NEW YORK WEEK ENDING: 28 day ~~JUNE~~ mo. 92 year

The following key activities took place during the week ending 28 June 1992.

- Sedimentation pond excavated & surrounded by silt fence.
- Clearing of slurry wall alignment & cap completed.
- Sedimentation basin area established & partially grubbed.
- Slurry wall alignment excavated to design elevations in North part of site where the design elevations are below existing ground surface.
- Most of slurry wall equipment mobilized to site.
- Bentonite, first shipment, delivered to site.
- Established with EPA the locations to ^{be} sampled & tested for lead & arsenic outside Northern Fuels facility in ~~the~~ Refinery Area. - 21 locations.
- Walk through of power house building. Inspector from AET, John Murphy, in attendance.
- Re-bid meetings held for power house & separation tank contracts.

COPY TO: _____ PER: _____



GEOSYNTEC CONSULTANTS

ARCO

WEEKLY FIELD REPORT

DATE: 28 day June mo. 1992 year

PROJECT: SINCLAIR REFINERY REMEDIATION PROJECT NO.: GQ3201 TASK NO.: 02

LOCATION: WELLSVILLE, NEW YORK WEEK ENDING: 28 day June mo. 1992 year

- Submittals reviewed for:
 - bentonite
 - Slurry wall work plan
 - QC Management plan
 - Field Change request
 - Erosion & Sedimentation Plan
- Weekly construction meeting held with Geo-Con on 26 June.
- ~~Air~~ Perimeter air monitoring started on 22 June.

COPY TO: _____ PER: _____



GEOSYNTEC CONSULTANTS

ARCO 

WEEKLY FIELD REPORT

DATE: 11 day July mo. 1992 year

PROJECT: SINCLAIR REFINERY REMEDIATION PROJECT NO.: GQ3201 TASK NO.: 03

LOCATION: WELLSVILLE, NEW YORK WEEK ENDING: 5 day July mo. 1992 year

The following key activities took place during the week ending 5 July 1992.

- Surveyors from D. Myers established control and some of the points from which GeoSyntec Consultants will obtain soil samples in the refinery area for lead and/or arsenic analyses.

- GeoSyntec Consultants selected Law Environmental Inc. to perform laboratory analyses of soil samples. Arranged for all necessary shipping and documentation to be on site before 6 July. Forwarded to Lou DiGuardia COE contacts and references that Law Environmental supplied in order for him to be able to assess the laboratory.

- Traffic cap and working pad placement commenced; starting within the sedimentation basin area. Completed in this area on 30 June. In situ moisture/density tests performed by Geo Con. All test results indicate greater than 95% compaction and compliance with specification requirement of greater than 90% compaction.

- Clearing and grubbing of whole site essentially completed by 2 July. Grubbing started within limits of sedimentation pond and did not extend outside this area until storm-water controls completed around sedimentation pond. Tree stumps stockpiled and await grinding.

- Drum carcasses stockpiled in interior of CELA in preparation for shredding.

- Surveyors continue to establish center line of slurry wall. It appears that the slurry wall alignment encroaches on the toe of the dike at various locations between stations 4+00 and 12+00. Requested that surveyors obtain survey data in this area.

COPY TO: R. Ivy

PER: R. N. [Signature]



GEO SYNTEC CONSULTANTS

ARCO

WEEKLY FIELD REPORT

DATE: 11 day July mo 1992 year

PROJECT: SINCLAIR REFINERY REMEDIATION PROJECT NO.: GQ3201 TASK NO.: 0203

LOCATION: WELLSVILLE, NEW YORK WEEK ENDING: 5 day July mo 1992 year

• All slurry wall equipment on site. Assembly of Link back-hoe continues.

• Submittals reviewed for :

- Borrow source and compliance test; and
- QC Management plan (requires changes).

• Weekly progress meeting held on 1 July.

COPY TO: R. Ivy

PER: R. Ivy



GEOSYNTEC CONSULTANTS

ARCO 

WEEKLY FIELD REPORT

DATE: 11 day July mo 1992 year

PROJECT: SINCLAIR REFINERY REMEDIATION PROJECT NO.: GQ3201 TASK NO.: 03

LOCATION: WELLSVILLE, NEW YORK WEEK ENDING: 12 day July mo 1992 year

The following key activities took place during the week ending 12 July 1992.

- J. Beech of GeoSyntec Consultants on site to observe start of slurry wall construction activities.

- Tony Esponosa of GeoSyntec Consultants on site from 7 to 9 July to perform soil sampling in refinery area.

- Lou DiGuardia of EPA on site on 6 and 7 July. He approved sampling and testing procedures and protocols to be followed and observed start of sampling operations.

- Jeff Bechtel and Kim Scarcella of Weston Sper on site from 6 to 9 July; retained by EPA to observe all sampling operations and to obtain split samples from samples obtained by GeoSyntec Consultants.

- GeoSyntec Consultants sampled total 47 locations from Areas A, B, E, F and G. Samples from Area A (12 No.) to be tested for both lead and arsenic, others (35 No.) to be tested for arsenic only. EPA will test all its split samples (approx 10 No.) for both lead and arsenic.

- laboratory testing to be performed by ICP (inductively coupled plasma) at QA level 3 as agreed by Lou DiGuardia.

- sample locations (21 No.) on National Fuels property could not be sampled since National Fuels would not permit access.

- Installation of traffic cap and working pad continued from sedimentation basin area in anticlockwise direction around the site. Due to space limitations the working pad has been installed outside the traffic cap from approximately Station 17+00 to Station 24+00. In this section only fresh grout and imported processed soil will be used to form the soil-bentonite backfill; neither trench spoil nor pre-used slurry will be incorporated into the backfill.

COPY TO: R. Ivy

PER: R. Niles



GEOSYNTEC CONSULTANTS

ARCO 

WEEKLY FIELD REPORT

DATE: 11 day July mo. 1992 year

PROJECT: SINCLAIR REFINERY REMEDIATION PROJECT NO.: GQ3201 TASK NO.: 003

LOCATION: WELLSVILLE, NEW YORK WEEK ENDING: 12 day July mo. 1992 year

- Assembly of slurry wall equipment, including Link back-hoe completed.
- Slurry wall installation started on 9 July at Station 3+00 and progressing in an anticlockwise direction. Lead in trench constructed with a 1:1 slope. Trench excavation reached approximately Station 0+90 on 10 July (no slurry work performed on 11 and 12 July). Depth of trench approximately 36 to 43 ft (11 to 13 m). Field quality control checks indicate compliance with the specifications.
- GeoSyntec Consultants and ARCO agreed that GeoSyntec Consultants will perform a stability check where the slurry wall alignment encroaches on the toe and slope of the dike.
 - Surveyors from D. Myers obtained cross section data between Stations 4+00 and 12+00.
 - Survey information provided to GeoSyntec Consultants' Atlanta office and stability analyses started.
- Traffic cap and working platform continues to be installed around south and east part of site. Geo Con's in situ moisture/density tests indicate greater than 95% compaction and compliance with specification requirement of greater than 90% compaction.
- Grading of CELA cap and demolition of test pad started.
- Submittals reviewed for :
 - Water source and test results;
 - Borrow source and compliance tests (addendum 1); and
 - Chemical compatibility of soil-bentonite cutoff wall mix.
- Weekly progress meeting held on 10 July.

COPY TO: R. Ivy

PER: Ry - KTH

WEEKLY FIELD REPORT

TO: Mr. Robert E. Ivy, ARCO

FROM: Roger B. North, P.E., GeoSyntec Consultants *RBN*

DATE: 23 July 1992

SUBJECT: 13 July to 19 July 1992, Weekly Field Report
Sinclair Refinery Site Remediation
Wellsville, New York

The following key activities took place at the Sinclair Refinery Site, Wellsville, New York, during the week of 13 July to 19 July 1992.

- J. Beech on site on 13 and 14 July. C. Sukow arrived on site 13 July to act as GeoSyntec Consultants permanent Field Superintendent. J. Brandes completed OSHA training through On-Site Health and Safety Services, Inc. and started work on 16 July.
- W. Simmons and D. Christensen on site from 15 to 17 July. J. Kimura on site on 16 and 17 July.
- Slurry wall excavation continued.
 - Excavation from Station 1+00 to 23+60.
 - Depth of trench varied from 30.5 ft (9.3 m) (Station 23+80 to 23+60) to 43 ft (13.1 m) (Station 27+60 to 26+80).

| Quantity Excavated | This Week | Cumulative |
|-------------------------|-----------|------------|
| Length (ft) | 583 | 753 |
| Length (m) | 177.7 | 229.5 |
| Length (%) | 20.5 | 26.5 |
| Area (ft ²) | 21,267 | 27,667 |

| Quantity Excavated | This Week | Cumulative |
|---------------------------|-----------|------------|
| Area (m ²) | 1,976 | 2,570 |
| Volume (yd ³) | 1,834 | 2,384 |
| Volume (m ³) | 1,402 | 1,823 |

- Slurry wall quality control and quality assurance testing continued. Tests indicate compliance with specifications except that the viscosity of the slurry at the batch plant on 15, 16 and 17 July exceeded 35-45 Marsh seconds. However, this is considered acceptable since Geo Con experienced no problems pumping the grout and no segregation problems were encountered.
- Slurry wall excavation was not performed on 18 and 19 July.
- Stump grinder delivered to site on 14 July. Stump grinding started on 14 July continued through to 17 July; did not grind stumps on 18 and 19 July.
- Crushing and transport of drums from staging area at north end of site to CELA area in preparation for shredding started on 15 July and completed on 17 July.
- Pungent volatile odors noted on east perimeter on 15 July. Caused breakthrough of organic canisters.
- Separator area cleared and grubbed on 16 July.
- Laboratory analyses of soil samples from Refinery Area completed by Law Environmental, Inc. and results received. Three arsenic exceedences (>25 ppm) in Area A (adjacent to Current Controls' building). Area of additional excavation to be performed established on 16 July and surveyed on 17 July.

13 July to 19 July 1992, Weekly Field Report
23 July 1992
Page 3

- Test pad removed from CELA.
- General grading of CELA continued.
- Traffic cap and working platform continues to be installed around south and east part of site.
- Stability analyses of slurry trench in proximity to dike on north and east side of site from Station 4+00 to 12+00 completed by GeoSyntec Consultants on 16 July. Results indicate a minimum slurry density of 85 pcf will be required to maintain stability of excavation at design alignment.
- Submittals reviewed for :
 - Bentonite shipping memos (27QC03);
 - Emergency response addenda (27HS10 and 28HS10);
 - Geotextile filter fabric (28WP05);
 - Low permeability geosynthetic (28WP05, Add 1);
 - Low permeability geosynthetic (28WP05, Add 2);
 - 60 mil VLDPE geomembrane (28WP05, Add 3); and
 - Geosynthetic drainage layer (28WP05, Add 4) - resubmittal required.
- Monthly meeting held on 16 July.
- Weekly progress meeting held on 17 July.

* * * * *

Copy to: Dr. J.F. Beech, P.E., GeoSyntec Consultants

WEEKLY FIELD REPORT

TO: Mr. Robert E. Ivy, ARCO

FROM: Roger B. North, P.E., GeoSyntec Consultants *RBN*

DATE: 4 August 1992

SUBJECT: 20 July to 26 July 1992, Weekly Field Report
Sinclair Refinery Site Remediation
Wellsville, New York

The following key activities took place at the Sinclair Refinery Site, Wellsville, New York, during the week of 20 July to 26 July 1992.

- Steve Vollink and George Lindenberg, from COE Kansas office, on site on 22 July.
- Ray Slay, ARCO photographer, on site from 22 July to 24 July.
- Slurry wall excavation continued.
 - Excavation from Station 23+60 to 15+40.
 - Depth of trench varied from 25 ft (7.6 m) (Station 19+00 to 18+00) to 37 ft (11.3 m) (Station 16+60).

| Quantity Excavated | This Week | Cumulative |
|---------------------------|-----------|------------|
| Length (ft) | 820 | 1573 |
| Length (m) | 249.5 | 478.7 |
| Length (%) | 28.8 | 55.3 |
| Area (ft ²) | 24,855 | 52,522 |
| Area (m ²) | 2,311 | 4,879 |
| Volume (yd ³) | 2,205 | 4,589 |

| Quantity Excavated | This Week | Cumulative |
|--------------------------|-----------|------------|
| Volume (m ³) | 1,688 | 3,512 |

- Slurry wall quality control and quality assurance testing continued. Tests indicate compliance with specifications except that the viscosity of the slurry at the batch plant on 20, 21, 22 and 24 July exceeded 35-45 Marsh seconds. However, this is considered acceptable since Geo Con experienced no problems pumping the grout and no segregation problems were encountered.
- Permeability test result of 2×10^{-8} cm/sec obtained for backfill from Station 2+60. Meets specification requirement of permeability less than 1×10^{-7} cm/sec.
- Slurry wall alignment adjusted from planned alignment between approximately Stations 16+50 and 16+75. Moved toward the interior of the CELA by between about 2 and 3 ft. Backhoe had insufficient working clearance at the dike to maintain the planned alignment.
- Slurry wall excavation was not performed on 25 and 26 July.
- Working pad and subgrade material placed on north and east side.
- Slurry trench "bridged" in northwest corner using a timber platform to provide access to the CELA.
- Community Air Monitoring Plan flow chart developed based on document received from EPA.
- Stump grinding completed on 20 July.
- Plan developed to reduce potential for vapor release during removal of liner from SLA material.

- Liner removed from SLA, after cutting into smaller sections, and taken to shredder for processing.
- Shredder delivered to site on 21 July. Drum and liner shredding started on 21 July and completed on 24 July.
- Monroe Tree cleared and grubbed additional area to be excavated to east of Current Controls' building in Refinery area; actually cleared and grubbed larger area than planned and subsequently hit overhead power-lines.
- Geo Con foam equipment delivered to site and tested on 23 July.
- Manufacture of 60 mil textured VLDPE geomembrane started by Gundle Lining Systems Inc., on 22 July. GeoSyntec Consultants at Gundle plant to observe manufacture and to obtain conformance samples for laboratory testing.
- First shipments of Gundseal delivered on 24 July. Material stockpiled, maximum 4 rolls high, in old SLA area.
- Geo Con reported that preliminary survey estimates suggest that the CELA may contain 22,000 yd³ more material than design capacity of cap. Resurvey of CELA initiated on 25 July to obtain an estimate based on more recent profiles.
- Discussion of material to use for gas vent stone under discussion. D. Christensen agreed, as per Geo Con's bid exception, to allow non-crushed aggregate. Gradation not finalized
- Submittals reviewed for :
 - Submittal register (27SR01 and 28SR01);
 - Submittal list;
 - Geosynthetic drainage layer (28WP05, Add 5);
 - Low permeability geosynthetic (28WP05, Add 1); and

20 July to 26 July 1992, Weekly Field Report
5 August 1992
Page 4


- Low permeability geosynthetic (28WP05, Add 2).
- Weekly progress meeting held on 24 July.

* * * * *

Copy to: Dr. J.F. Beech, P.E., GeoSyntec Consultants
Mike Hrywnak, COE

WEEKLY FIELD REPORT

TO: Mr. Robert E. Ivy, ARCO

FROM: Roger B. North, P.E., GeoSyntec Consultants 

DATE: 5 August 1992

SUBJECT: 27 July to 2 August 1992, Weekly Field Report
Sinclair Refinery Site Remediation
Wellsville, New York

The following key activities took place at the Sinclair Refinery Site, Wellsville, New York, during the week of 27 July to 2 August 1992.

- Slurry wall excavation continued.
 - Excavation from Station 15+40 to 14+80.
 - Depth of trench varied from 35 ft (10.7 m) (Station 15+40) to 38 ft (11.6 m) (Station 15+20 to 14+80).

| Quantity Excavated | This Week | Cumulative |
|---------------------------|-----------|------------|
| Length (ft) | 60 | 1633 |
| Length (m) | 18.3 | 497.9 |
| Length (%) | 2.4 | 65.8 |
| Area (ft ²) | 2,250 | 54,772 |
| Area (m ²) | 209 | 5,092 |
| Volume (yd ³) | 194 | 4,783 |
| Volume (m ³) | 148 | 3,660 |

- Slurry wall excavation only performed on 27 July; no production on 28 July to 2 August. Production halted due to bad weather and Geo Con's inability to import traffic cap and working pad material.

- Slurry trench filled with backfill to minimum depth 20 ft to reduce potential for dike related stability problems while production temporarily halted.
- Slurry wall quality control and quality assurance testing continued. Tests indicate compliance with specifications. Slurry density checked on some days when no slurry production.
- Permeability test result of 4×10^{-8} cm/sec obtained for backfill from Station 26+00. Meets specification requirement of permeability less than 1×10^{-7} cm/sec.
- Traffic cap placed on east and north side; completed on 31 July.
- Soil excavated from refinery areas B and E and placed in CELA. Areas not backfilled; each will be surveyed prior to backfilling to confirm that 1 ft soil removed. Diversion ditches dug around upgradient segments of each area and silt fences erected around areas.
- Manufacture of 60 mil textured VLDPE geomembrane completed by Gundle Lining Systems Inc. GeoSyntec Consultants at Gundle plant to observe manufacture and to obtain conformance samples for laboratory testing.
- Conformance testing of 5 VLDPE samples performed by GeoSyntec Consultants' Materials Testing Laboratory. Tests performed for: specific gravity (ASTM D792), density (ASTM D792), thickness (ASTM D751), tensile strength (ASTM D638), elongation at break (ASTM D638), carbon black content (ASTM D1603), and carbon black dispersion (ASTM D3016). Results indicate all samples in conformance with specifications.
- Gundseal continues to be delivered to site and stockpiled, maximum 4 rolls high, in old SLA area.

27 July to 2 August 1992, Weekly Field Report
5 August 1992
Page 3

- Field work associated with resurvey of CELA completed on 27 July.
- Tony Espinosa of GeoSyntec Consultants on site on 29 July to perform soil sampling on National Fuels property.
 - Jeff Bechtel of Weston Sper, EPA representative, on site to collect split samples.
 - National Fuels representative on site to obtain split samples.
 - GeoSyntec Consultants sampled 21 locations.
 - Samples to be tested for both lead and arsenic.
 - Laboratory testing to be performed by Law Environmental, Inc., by ICP (inductively coupled plasma) at QA level 3 as agreed by Lou DiGuardia.
 - All samples sent by Federal Express to Law Environmental on 29 July.
- Submittals reviewed for :
 - Bentonite certificate of compliance (27QC03);
 - Construction work plan for RCRA cap (28WP01);
 - Borrow source and compliance (28QC02); and
 - Borrow source and compliance (28QC02, Add 1).
- Weekly progress meeting held on 30 July.

* * * * *

Copy to: Dr. J.F. Beech, P.E., GeoSyntec Consultants
Mike Hrywnak, COE

WEEKLY FIELD REPORT

TO: Mr. Robert E. Ivy, ARCO
FROM: Roger B. North, P.E., GeoSyntec Consultants *RBN*
DATE: 19 August 1992
SUBJECT: 3 to 9 August 1992, Weekly Field Report
Sinclair Refinery Site Remediation
Wellsville, New York

The following key activities took place at the Sinclair Refinery Site, Wellsville, New York, during the week of 3 to 9 August 1992.

- Slurry wall excavation continued.
 - Excavation from Station 14+80 to 6+00.
 - Depth of trench varied from 38 ft (11.6 m) (Station 15+20 to 14+80) to 23.5 ft (7.2 m) (Station 7+40 to 6+80).

| Quantity Excavated | This Week | Cumulative |
|---------------------------|-----------|------------|
| Length (ft) | 880 | 2513 |
| Length (m) | 268.2 | 766 |
| Length (%) | 31 | 88 |
| Area (ft ²) | 26,560 | 81,332 |
| Area (m ²) | 2,468 | 7,556 |
| Volume (yd ³) | 2,359 | 7,141 |
| Volume (m ³) | 1,804 | 5,460 |

- Slurry wall excavation resumed on 4 August. The soil-bentonite backfill was removed from the bottom of the trench between 15+20 and 14+80 and the bottom of the trench was excavated 2 ft (0.6 m) below the original depth before the cut from 14+80 to 14+40.
- Evaluated and resolved the potential slurry wall alignment problem near Station 11+56 on 5 August; plan to take wall

3 to 9 August 1992, Weekly Field Report
19 August 1992
Page 2

alignment a maximum of 2 ft (0.6 m) outside proposed alignment near Station 12+00 and inside alignment 2 ft (0.6 m) near Station 11+56.

- Slurry wall quality control and quality assurance testing continued. Tests indicate compliance with specifications.
- Final load of Gundseal delivered to site on 3 August, stockpiled, maximum 4 rolls high, in old SLA area.
- 60-mil textured VLDPE geomembrane material delivered to site on 3 and 4 August, stockpiled, maximum 4 rolls high, in old SLA area.
- Geotextile delivered to site on 3, 4, 6 and 7 August, stockpiled, maximum 4 rolls high, in staging area.
- No. 2 stone accepted as material to be used as gas vent layer on 4 August, subject to acceptable soundness test results.
- Gas vent stone delivery started on 6 August; stockpiled in staging area.
- Survey data from CELA indicated that volume of cap needs to be increased by a minimum of 17,500 yd³; initiated work to adjust cap configuration to provide additional capacity.
- Laboratory analyses of soil samples from National Fuel land completed by Law Environmental, Inc. and results received on 6 August. Results show that all arsenic and lead levels are below action levels.
- Weekly progress meeting held on 7 August.

* * * * *

Copy to: Dr. J.F. Beech, P.E., GeoSyntec Consultants
Mike Hrywnak, COE

WEEKLY FIELD REPORT

TO: Mr. Robert E. Ivy, ARCO

FROM: Roger B. North, P.E., GeoSyntec Consultants *RBN*

DATE: 22 August 1992

SUBJECT: 10 to 16 August 1992, Weekly Field Report
Sinclair Refinery Site Remediation
Wellsville, New York

The following key activities took place at the Sinclair Refinery Site, Wellsville, New York, during the week of 10 to 16 August 1992.

- Slurry wall excavation continued from Station 6+00 to 5+30 on 10 August and excavation terminated. Trench was completely filled with soil-bentonite backfill and the trench bentonite slurry was pumped into an above ground holding pond constructed of working pad backfill soil. The section from Station 3+00 to 5+30 will be completed when cap construction has started (actual schedule to be proposed by Geo-Con). The slurry will be checked for density and, after the addition of additional bentonite (if necessary), used for final section of trench.
- Depth of trench varied from 31 ft (9.4 m) (Station 5+40 to 5+30) to 28.5 ft (8.7 m) (Station 6+00).

| Quantity Excavated | This Week | Cumulative |
|---------------------------|-----------|------------|
| Length (ft) | 70 | 2583 |
| Length (m) | 21.3 | 787 |
| Length (%) | 2.5 | 91 |
| Area (ft ²) | 2,105 | 83,450 |
| Area (m ²) | 196 | 7,753 |
| Volume (yd ³) | 187 | 7,328 |
| Volume (m ³) | 143 | 5,603 |


10 to 16 August 1992, Weekly Field Report
22 August 1992
Page 2

- Geo-Con's slurry wall crew depart from site on 11 August. Backhoe operator will return to site to complete wall.
- Excavation of Refinery Area A, Current Controls Building, started on 10 August from southwest corner. Backfill of area also started on 10 August. After discussion with J. Salvatore, COE, and M. Negrelli and L. DiGuardia, EPA, on 11 August decided to stop excavation 10 ft (3 m) out from edge of Current Controls building.
- Gas line, 2 in. diameter and 12 to 15 in. below ground surface severed by backhoe during Area A excavation.
- Soils excavated from Area A transported to CELA.
- GeoSyntec Consultants adjusting geometry of CELA cap to provide approximately 19,500 yd³ additional capacity.
- No. 2 gas vent stone imported and stockpiled in staging area.
- High early strength cement, to be used for stabilization, imported and stored on pallets under plastic sheeting.
- Submittals reviewed for:
 - Original site survey (27FE01 and 28FE01);
 - Gas vent piping and pipe (28QC19);
 - Low permeability geosynthetic (28WP05, Add 6);
 - Borrow source compliance, gas vent stone (28QC04, Add 2); and
 - Borrow source compliance, chemical analysis (28QC04, Add 3).
- Geo-Con weekly progress meeting held on 14 August.
- Separator pre-mobilization meeting held with Severson Environmental Services, Inc. on 14 August.

* * * * *

Copy to: Dr. J.F. Beech, P.E., GeoSyntec Consultants
Mike Hrymak, COE

WEEKLY FIELD REPORT

TO: Mr. Robert E. Ivy, ARCO
FROM: Roger B. North, P.E., GeoSyntec Consultants 
DATE: 25 August 1992
SUBJECT: 17 to 23 August 1992, Weekly Field Report
Sinclair Refinery Site Remediation
Wellsville, New York

The following key activities took place at the Sinclair Refinery Site, Wellsville, New York, during the week of 17 to 23 August 1992.

UNIT 1

- Discussions held with J. Drumm, DEC, concerning completion of slurry wall. Geo-Con to provide a time and activity schedule that relates slurry wall completion to the CELA cap construction.
- Stabilization of top 3 ft (0.9 m) of CELA material started on 20 August and continued on 21 and 22 August. Five areas selected for initial treatment. Work being performed in level B protection.
- Excavation and backfilling of Refinery Area A, Current Controls Building, continued on 17 August and completed on 19 August. The two sheds near the southwest edge of the area were temporarily moved to permit excavation of the top 1 ft (0.6 m) of soil from beneath these structures. At the request of Current Controls, the south portion of Area A was backfilled with gravel over the common fill to provide a parking area. The remainder of Area A was backfilled with topsoil over the common fill. Area seeded and fertilized on 19 August and mulched on 20 and 21 August.
- Refinery Area B, south end of swale, backfilled with common fill on 20 August.
- Refinery Area C, near Powerhouse, excavated on 20 August and backfilled with common fill on 21 August. Portion of Area C in

SUNY lay-down area backfilled with gravel over common fill; remainder backfilled with topsoil and seeded over common fill. Following discussions with M. Hrywnak, COE, and M. Negrelli, EPA, it was decided to limit the excavation of Area C on the east side and not remove any of the rip-rap river protection.

- Excavation of Refinery Area D, Otis Eastern, started on 18 August and completed on 19 August. Placement of common fill started on 19 August and completed on 20 August. At request of Otis Eastern Area D was backfilled with gravel over the common fill to provide a parking/lay-down storage area. Gravel placement started on 20 August and completed on 21 August.
- Refinery Area E, dike area, backfilled with common fill on 22 August.
- Refinery Area F, dike area, excavated and backfilled with common fill on 21 August and backfilled with topsoil on 22 August.
- Soils excavated from Refinery Areas A, C, D and F transported to CELA for disposal.
- Gas vent stone delivered and stockpiled in staging area.
- Gas vent pipe delivered on 20 August; only fittings area still outstanding.
- Geotextile delivered and stored in staging area on 18 August. Completes delivery of geotextiles.
- GeoSyntec Consultants continues adjusting geometry of CELA cap to provide approximately 19,500 yd³ additional capacity.
- Submittal reviewed for:
 - Corrugated metal pipe and flap gate (28QC18).
- Geo-Con weekly progress meeting held on 21 August.

17 to 23 August 1992, Weekly Field Report
25 August 1992
Page 3

UNIT 2

- Separator pre-construction meeting held with Severson Environmental Services, Inc. on 20 August.
- Submittals reviewed for:
 - Submittal list;
 - 18 and 42 in. diameter pipe details; and
 - Various manholes.

* * * * *

Copy to: David E. Grooms, ARCO
Mike Hrywnak, COE
Dr. J.F. Beech, P.E., GeoSyntec Consultants

WEEKLY FIELD REPORT

TO: Mr. Robert E. Ivy, ARCO

FROM: Roger B. North, P.E., GeoSyntec Consultants *RBN*

DATE: 31 August 1992

SUBJECT: 24 to 30 August 1992, Weekly Field Report
Sinclair Refinery Site Remediation
Wellsville, New York

The following key activities took place at the Sinclair Refinery Site, Wellsville, New York, during the week of 24 to 30 August 1992.

UNIT 1

- Stabilization of top 3 ft (0.9 m) of CELA material continued throughout week. Areas, in addition to the five original areas, selected for treatment. Work being performed in level B protection.
- GeoSyntec Consultants completed adjustment of CELA cap geometry to provide approximately 19,500 yd³ additional capacity. Drawings delivered to site on 25 and 26 August. All CELA grading being performed to new design elevations.
- Refinery Area G, dike area, excavated, backfilled with common fill, and seeded and mulched on 24 August.
- Post excavation sampling of Refinery Area A started on 26 August, continued on 27 August and completed on 28 August.
- Post excavation sampling of Refinery Area B started and completed on 25 August, with exception of three samples to be taken later

by shelby tubes at locations which are below water.

- Post excavation sampling of Refinery Area E started and completed on 25 August.
- Post excavation samples taken from Areas C, D and F only at those locations that the EPA representative wanted to obtain split samples; two samples each location. Remainder of samples will be obtained when sampling resumes.
- The three drums in the drum staging area at the north end of the CELA were sampled and inventoried on 29 August. Drum No. 74 contained empty bottles and personal protective equipment which were inventoried. Drum No. 83 (as designated on drum staging plan) was labelled as "84 Acetone; it contained approximately 1 ft of liquid, which was sampled. Drum No. 84 was labelled "84 HNO_3 "; bottom of the drum had corroded and the drum was empty.
- Gas vent stone delivered and stockpiled in staging area.
- High early strength cement for CELA stabilization delivered.
- Submittals reviewed for:
 - Submittal register (27SR01, Rev. 2 and 28SR01, Rev. 2);
 - Borrow source and compliance, topsoil (28QC02, Addendum 2);
 - Certificate of compliance, low permeability geosynthetic (28QC04, Addendum 4); and
 - Certificates of compliance, 60-mil VLDPE geomembrane (28QC04, Addendum 5).
- Geo-Con weekly progress meeting held on 28 August.

24 to 30 August 1992, Weekly Field Report
31 August 1992
Page 3

UNIT 2

- Surface debris cleared from site and stockpiled at east edge of site.
- Severson site trailer delivered on 27 August and equipment trailer delivered on 28 August.
- Electric pole and transformer established on 28 August. Hookup to trailer(s) to be performed later.
- Submittals reviewed for:
 - Quality control daily report;
 - Constant diameter manholes;
 - Sampling plan; and
 - Work plan.
- Severson weekly progress meeting held on 27 August.

* * * * *

Copy to: David E. Grooms, ARCO
Mike Hrywnak, COE
Dr. J.F. Beech, P.E., GeoSyntec Consultants

WEEKLY FIELD REPORT

TO: Mr. Robert E. Ivy, ARCO

FROM: Roger B. North, P.E., GeoSyntec Consultants RBN

DATE: 4 September 1992

SUBJECT: 31 August to 6 September 1992. Weekly Field Report
Sinclair Refinery Site Remediation
Wellsville, New York

The following key activities took place at the Sinclair Refinery Site, Wellsville, New York, during the week of 31 August to 6 September 1992.

UNIT 1

- Stabilization of top 3 ft (0.9 m) of CELA material continued throughout week. Approximately 8,500 yd² completed to date. Work being performed in level B protection.
- CELA grading continues; south end of CELA close to final grade.
- Grading of CELA cap drainage channel started on 31 August at Station 26+50; working to south reached Station 18+00.
- Geo-Con mobilized geosynthetics crew and equipment to site on 31 August.
- Placement and compaction of traffic cap plug, approximately 4 ft wide, above slurry wall alignment started on 1 September at Station 26+50; working to south reached Station 21+10.

- Excavation of slurry wall key trench started on 2 September at Station 26+50 using Caterpillar 416 backhoe with 1 ft bucket. Excavated approximately 30 ft; trench collapsed, would not remain open. Geo-Con abandoned excavation of key trench with backhoe; Case TF 300 trencher brought to site on 3 September.
- 42 in. diameter corrugated metal pipe and flap valve for culvert delivered on 1 September.
- High early strength cement for CELA stabilization delivered on 31 August and 1, 2 and 3 September.
- Submittal reviewed for geosynthetic and geomembrane installers SOQ (28WP03).
- Geo-Con weekly progress meeting held on 4 September.

UNIT 2

- Perimeter fencing established, including signage and fencing up to center line of public road on south side of separator.
- Soil sampling along sewer by-pass alignment performed on 1 and 2 September, with EPA representatives present. 30 borings drilled, all to depth of 8 ft. Composite soil samples obtained from split-spoon samples at 0 to 2 ft, 2 to 4 ft, 4 to 6 ft, and 6 to 8 ft.
- Removed fence from east end of site and cleared area between 2 and 4 September.
- Second trailer delivered to site on 3 September and guardhouse

completed on 3 September.

- 42 in. diameter reinforced concrete by-pass pipe sections delivered on 4 September. One pipe section noted by GeoSyntec Consultants to be cracked along full length and rejected.
- Severson took sludge sample from southwest separator cell.
- Construction of temporary staging around and within separator from 31 August onwards.
- Gravel placed in support zone.
- Electric supply to site established on 4 September.
- No weekly progress meeting held this week.

* * * * *

Copy to: D. E. Grooms, ARCO
M. Hrywnak, COE
C. P. Sukow, GeoSyntec Consultants
J. E. Brandes, GeoSyntec Consultants
Dr. J.F. Beech, P.E., GeoSyntec Consultants

WEEKLY FIELD REPORT

TO: Mr. Robert E. Ivy, ARCO

FROM: Roger B. North, P.E., GeoSyntec Consultants *RBN*

DATE: 18 September 1992

SUBJECT: 7 to 13 September 1992, Weekly Field Report
Sinclair Refinery Site Remediation
Wellsville, New York

The following key activities took place at the Sinclair Refinery Site, Wellsville, New York, during the week of 7 to 13 September 1992.

UNIT 1

- Stabilization of top 3 ft (0.9 m) of CELA material continued throughout week. Work being performed in level B protection. Previously stabilized area near Niagara Mohawk power pole excavated approximately 2 ft (0.6 m) during cap grading. \$ shelby tube samples taken on 9 September.
- CELA grading continues; south end of CELA close to final grade.
- Grading of CELA cap drainage channel continued on west side of CELA working towards south end of CELA.
- Placement and compaction of traffic cap plug, approximately 4 ft wide, above slurry wall alignment continued in sequence with channel preparation.
- Excavation of slurry wall key trench attempted on 9 September. Trench collapsed as excavation proceeded and would not remain stable. Alternate approach developed an approved using track-hoe excavating from CELA side of slurry wall.

- Gundseal and 60-mil VLDPE geomembrane underliner placed along west side of CELA. Placement started on 9 September. panels U-1 to U-22 Approximately 15,158 ft² (1,409 m²) placed from Station 20+95 to 25+80 entailing approximately 689 linear ft (210 m) of seam.
- High early strength cement for CELA stabilization delivered throughout week.
- Gas vent stone delivered and stored in staging area.
- Post excavation sampling around Refinery Area C restarted on 9 September and completed on 11 September.
- Post excavation sampling around Refinery Area D restarted on 11 September.
- Informal Geo-Con weekly progress meeting held on 11 September in ARCO trailer.

UNIT 2

- East end of site cleared and fence installed beyond originally designated site boundary.
- All utilities established to site trailers except for phone lines.
- Removed fence from east end of site and cleared area between 2 and 4 September.
- Below grade structure revealed, on 10 September, near location of proposed manhole number 4.

- 42 in. diameter reinforced concrete by-pass pipe sections delivered on 11 September. Two previously delivered cracked pipe sections removed from site.
- Construction of roof structure over separator tanks started on 10 September. Plastic covering installed on 12 September.
- Emergency response meeting for separator and powerhouse on 11 September.
- Surface debris hauled from site to local landfill by LaForge K. S. Excavating Inc. on 12 September.
- Water truck delivered to site on 11 September.
- Submittals reviewed for:
 - Alarm for by-pass pump;
 - Septic tank;
 - Modutank and quickstor tanks additional data (2A);
 - QA/QC plan (8);
 - Sampling and analysis plan (10);
 - Office trailer (11);
 - Security plan (14); and
 - RECRA Environmental laboratory (15).
- No weekly progress meeting held this week.

* * * * *

Copy to: D. E. Grooms, ARCO
M. Hrywnak, COE
J. G. Fox, GeoSyntec Consultants
C. P. Sukow, GeoSyntec Consultants
J. E. Brandes, GeoSyntec Consultants
Dr. J.F. Beech, P.E., GeoSyntec Consultants

WEEKLY FIELD REPORT

TO: Mr. Robert E. Ivy, ARCO

FROM: Jonathan E Brandes, GeoSyntec Consultants JEB

DATE: 19 September 1992

SUBJECT: 14 to 20 September 1992, Weekly Field Report
Sinclair Refinery Site Remediation
Wellsville, New York

The following key activities took place at the Sinclair Refinery Site, Wellsville, New York, during the week of 14 to 20 September 1992.

UNIT 1

- Stabilization of top 3 ft (0.9 m) of CELA material continued throughout week. Work being performed in level B protection. Shelby tube samples taken on 17 September in previously stabilized areas.
- CELA grading continues; south end of CELA at final grade.
- Grading of CELA cap drainage channel continued on west and south sides of CELA working towards east side of CELA.
- Placement and compaction of traffic cap plug, approximately 4 ft wide, above slurry wall alignment continued in sequence with channel preparation.
- Gundseal and 60-mil VLDPE geomembrane underliner placed along west and south sides of CELA. Placement of panels U-23 to U-48 started on 14 September and continued to 18 September. Approximately 14,980 ft² (1,392 m²) placed from Station 20+95 to 16+70 entailing approximately 792 linear ft (241m) of seam.

- High early strength cement for CELA stabilization delivered throughout week.
- Post excavation sampling around Refinery Area D continued on 14 September and completed on 16 September.
- Post excavation sampling around Refinery Area F restarted on 16 September and completed on 17 September.
- Post excavation sampling around Refinery Areas B and G restarted and completed on 17 September. This completes all Refinery Area post excavation sampling.
- Empire Soils Investigations Inc. arrive on 16 September and piezometer and monitoring well drilling begins on 17 September.
- 36 inch HDPE pipe place around power pole in CELA on 19 September
- Geo-Con weekly progress meeting held on 18 September.

UNIT 2

- Decontamination pad built on 14 September.
- Phones established to site trailers on 16 September.
- Kick off meeting held on 14 September at ARCO trailer.
- Modutanks delivered on 15 September and assembly started on 16 September.
- Installed concrete plugs in separator inflow and out flow lines on 16 & 17 September with 4000 psi concrete.

- Plugged 16 inch diameter CMP from Current Controls to separator with air bag at up stream end.
- Track hoe delivered on 16 September.
- Temporary bypass pumping started on 16 September and will ~~continue~~ until permanent bypass is installed.
JEB
16/mar/93 continue
- Two monitoring wells near separator were decommissioned on 18 September as per Ebasco specifications.
- Submittals reviewed for:
 - Manhole frame and cover for manholes (16);
 - OSHA 40 hour training certificates (17);
 - Training certificates (18);
 - PVC waterstop type 4B (19);
 - Typ. 6 ft diameter manhole cast in place rebar details (20).
- No weekly progress meeting held this week.

* * * * *

Copy to: D. E. Grooms, ARCO
M. Hrywnak, COE
C. P. Sukow, GeoSyntec Consultants
J. E. Brandes, GeoSyntec Consultants
Dr. J.F. Beech, P.E., GeoSyntec Consultants

WEEKLY FIELD REPORT

TO: Mr. Robert E. Ivy, ARCO

FROM: Jonathan E. Brandes, GeoSyntec Consultants JEB
Collin P. Sukow, GeoSyntec Consultants CS

DATE: 26 September 1992

SUBJECT: 21 to 27 September 1992, Weekly Field Report
Sinclair Refinery Site Remediation
Wellsville, New York

The following key activities took place at the Sinclair Refinery Site, Wellsville, New York, during the week of 21 to 27 September 1992.

UNIT 1

- Approximately 2.5 inches of rain accumulated on site between the morning of 21 September and afternoon of 22 September.
- Sedimentation pond at north end of CELA was enlarged on 22 September. Poned water around site was pumped to sedimentation pond starting on 22 September.
- Stabilization of top 3 ft (0.9 m) of CELA material continued throughout week. Work being performed in level B protection. Shelby tube samples taken throughout week in stabilized areas.
- CELA grading continues; south end of CELA at final grade.
- Approximately 27,500 ft² (2,556 m²) of Polyfelt 7 oz. geotextile was deployed on 25 September.
- Gas vent stone was placed on south end of CELA Starting 25 September and continuing on 26 September. Approximately 2,340 tons of vent stone was placed on CELA.

- High early strength cement for CELA stabilization delivered throughout week.
- Received first shipment of Polyfelt drainage composite on 24 September.
- Empire Soils Investigations Inc. Start drilling P-2 on 21 September and continue to place one piezometer per day (P-1, P-4, P-6, P-5, respectively) completing P-5 on 25 September. Well casings, additional grouting, and developing wells will be done on a later date.
- Geo-Con weekly progress meeting held on 25 September.

UNIT 2

- Heavy rains require additional bypass pumping on 22 September.
- Modutanks assembly completed on 23 September.
- Berms around decontamination pad were built on 21 September.
- TCLP analytical results for bypass composite samples received on 21 September.
- Project work stops for remainder of week on 24 September to allow EPA time to review sampling analytical results.
- No weekly progress meeting held this week.

* * * * *

Copy to: D. E. Grooms, ARCO
M. Hrywnak, COE
Dr. J.F. Beech, P.E., GeoSyntec Consultants

WEEKLY FIELD REPORT

TO: Mr. Robert E. Ivy, ARCO

FROM: Jonathan E. Brandes, GeoSyntec Consultants *JEB*
Collin P. Sukow, GeoSyntec Consultants *CS*

DATE: 3 October 1992

SUBJECT: 28 September to 4 October 1992, Weekly Field Report
Sinclair Refinery Site Remediation
Wellsville, New York

The following key activities took place at the Sinclair Refinery Site, Wellsville, New York, during the week of 28 September to 4 October 1992.

UNIT 1

- Stabilization of top 3 ft (0.9 m) of CELA material continued throughout week. Water from sedimentation pond pumped to CELA for stabilization process. Work being performed in level B protection. Shelby tube samples taken throughout week in stabilized areas.
- CELA grading continues; south half of CELA at final grade.
- Approximately 141,719 ft² (13,171 m²) of Polyfelt 7 oz. geotextile was deployed throughout week for a total of 168,219 ft² (15,634 m²)
- Gas vent stone continued to be placed on south end of CELA throughout the week. Approximately 2,387 tons of vent stone was placed on CELA this week for a total of 5,727 tons to date.
- High early strength cement for CELA stabilization delivered throughout week.

- Continued to receive shipments of Polyfelt drainage composite.
- Empire Soils Investigations Inc. completed installation of piezometers in CELA and started installation of monitoring wells around perimeter of CELA. Well casings, additional grouting, and developing wells will be done on a later date.
- Gundseal and VLDPE was deployed on 29 September and 3 October for a total of 12,320 ft² (1,145 m²) of VLDPE this week and a total of 45,648 ft² (4,242 m²) to date.
- Slurry wall was restarted on 2 October at station 5+30 and completed on 3 October at station 2+70.
- No weekly progress meeting held this week.

UNIT 2

- ARCO received EPA approval to proceed with Separator remediation on 28 September.
- Excavation for permanent bypass started on 29 September at proposed manhole 4 and proceeds past manhole 3. Excavated material being hauled to CELA. Village of Wellsville water line found during excavation for proposed manhole 4, area was backfilled. Manhole 4 was moved approximately 20 feet west to location of brick shed.
- Brick shed demolished and excavation for permanent bypass continued on 30 September.
- Construction of manhole 4 started on 30 September.
- Pumping of aqueous phase from Separator to Modutank started on 29 September; approximately ~~500,500~~ gal of liquid was pumped into

50,500

RBA
4/MAR/93

28 September to 4 October 1992, Weekly Field Report
4 October 1992
Page 3

Modutank.

- Waste water treatment plant delivered on 1 October. The two carbon filters are unable to be sealed properly, so they are sent back to Purification Industries and will be replaced.
- No weekly progress meeting held this week.

* * * * *

Copy to: D. E. Grooms, ARCO
M. Hrywnak, COE
Dr. J.F. Beech, P.E., GeoSyntec Consultants

WEEKLY FIELD REPORT

TO: Mr. Robert E. Ivy, ARCO

FROM: Jonathan E. Brandes, GeoSyntec Consultants *JEB*
Collin P. Sukow, GeoSyntec Consultants
Roger B. North, P.E., GeoSyntec Consultants *RBN*.

DATE: 15 October 1992

SUBJECT: 5 to 11 October 1992, Weekly Field Report
Sinclair Refinery Site Remediation
Wellsville, New York

The following key activities took place at the Sinclair Refinery Site, Wellsville, New York, during the week of 5 to 11 October 1992.

UNIT 1

- Stabilization of top 3 ft (0.9 m) of CELA material continued throughout week at north end of CELA. Work being performed in level B protection. Shelby tube sample taken at north end. Total area stabilized by 11 October approximately 13,900 yd² (11,620 m²).
- CELA grading continues; more than half of CELA to final grade.
- Approximately 86,655 ft² (8,053 m²) of Polyfelt 7 oz. geotextile (TS 700) deployed for a total of 269,454 ft² (25,042 m²).
- Gas vent stone placed on CELA throughout the week. Approximately 6,673 tons of vent stone placed for a total of 12,400 tons to date.
- Continued to receive shipments of Polyfelt drainage composite. Stored in SLA area at south end of CELA.

- Empire Soils Investigations Inc. installed monitoring wells MWR-2,3,4,5,6,8,9 and 10 around perimeter of CELA and placed outer casings on piezometers and monitoring wells already installed. Wells will be developed at a later date.
- Gundseal and VLDPE drainage channel underliner was deployed on 8 October for a total of 4,690 ft² (436 m²) of VLDPE this week and a total of 50,338 ft² (4,678 m²) to date.
- Geo-Con obtained shelly tubes from slurry wall at stations 5+00 and 3+80 on 6 October.
- GeoSyntec Consultants obtained shelly tubes from slurry wall at station 10+35 on 7 October.
- East drainage channel graded for underliner.
- Deployment of primary geotextile begun on 10 October from south end to top of first ridge.
- Results from VLDPE destructive samples 1-5 received; all passed.
- Results from geotextile destructive samples 1-6 received; all passed.
- No weekly progress meeting held this week.

UNIT 2

- 42 in. diameter permanent by-pass constructed from manhole 4 to manhole 2. Material excavated from alignment hauled to CELA.
- By-pass pipe sections backfilled to spring line with gravel between manholes 2 and 4.

- Central Industries mobilized filter press equipment on 6 October. Filter press sludge treatment started on 8 October; first filter cake produced on 9 October. 29,472 gallons of sludge treated by 11 October.
- Filter plant treatment of aqueous phase started on 8 October.
- Excavated for manhole 1 on 10 October. During excavation the two separator inflow pipes were found to be vitreous pipes in poor condition; 24 and 10 in. diameter. The pipes were cut outside the limits of manhole 1 and PVC pipe was installed to temporarily connect the pipes into the chamber. The 10 in. pipe was largely plugged with soil and oily material.
- No weekly progress meeting held this week.

* * * * *

Copy to: D. E. Grooms, ARCO
M. Hrywnak, COE
Dr. J.F. Beech, P.E., GeoSyntec Consultants

WEEKLY FIELD REPORT

TO: Mr. Robert E. Ivy, ARCO

FROM: Jonathan E. Brandes, GeoSyntec Consultants JEB
Roger B. North, P.E., GeoSyntec Consultants RBN.

DATE: 2 November 1992

SUBJECT: 12 to 18 October 1992, Weekly Field Report
Sinclair Refinery Site Remediation
Wellsville, New York

The following key activities took place at the Sinclair Refinery Site, Wellsville, New York, during the week of 12 to 18 October 1992.

UNIT 1

- No stabilization done this week.
- CELA grading continues on east and north sides of CELA.
- Secondary geotextile deployed on east side of CELA on 12 and 14 October, and primary geotextile was deployed on east side on 16 October. Approximately 133,726 ft² (12,428 m²) of Polyfelt 7 oz. geotextile (TS 700) deployed for a total of 403,180 ft² (37,470 m²)
- Gas vent stone placed on CELA throughout the week. Approximately 6,540 tons placed for a total of 18,940 tons to date.
- Placement of gas vent pipe begins on 13 October and continues throughout week.
- Continued to receive shipments of Tensar/Polyfelt drainage composite. Stored in SLA area at south end of CELA.
- Empire Soils Investigations Inc. installed monitoring wells MWR-

1,7 and 11 around perimeter of CELA. Monitoring well MWR-11 developed on 16 October.

- Gundseal and VLDPE drainage channel underliner was deployed on 15 October for a total of 4,400 ft² (409 m²) of VLDPE this week and a total of 54,738 ft² (5,087 m²) to date.
- Excavated for 42 in. diameter CMP culvert at north end of CELA on 13 October.
- Rip rap placed at both ends of excavation for 42 in. diameter CMP culvert on 14 October.
- Installed 42 in. diameter CMP culvert on 17 October.
- Geotextile destructive samples 5 and 6 sent for testing on 15 October.
- Two stone bridges across drainage channel on west side of CELA removed on 12 October.
- Sand placed over VLDPE underliner on 12 and 13 October.
- GeoSyntec Consultants' Geomechanics and Environmental Laboratory provided soil-bentonite backfill hydraulic conductivity result of 3.7×10^{-8} cm/sec from slurry wall at Station 10+35 on 15 October.
- Temporary ground-water holding pond excavated in SLA area on 17 October.
- Submittal reviewed for :
 - Proposed layout of gundseal and VLDPE (28WP04).
- No weekly progress meeting held this week.

- Survey of east dike performed on 15 and 16 October for Operation and Maintenance Plan for Genesee River channel.

UNIT 2, SEPARATOR

- Approximately 900 gal. of oil pumped from Separator by Noco Energy Corp. and taken off site on 12 October.
- Approximately 23,400 gal. of aqueous phase pumped from Separator to modutank on 12 October.
- Approximately 9,100 gal. of aqueous phase pumped from below pumphouse to modutank on 13 October.
- Sampled treated aqueous phase at 4 locations in 30,000 gal. tank and made 1 composite sample.
- Sampled filter cake from 3 roll-offs, representing east, west, and center cells of north train, into 1 composite sample.
- Central Industries continued to pump and treat sludge. Approximately 31,930 gal. treated this week for a total of 61,402 gal. by 18 October.
- Exfiltration test on 42 in. diameter pipe between manholes 2 and 4 started on 12 October; inflatable plug failed and test was abandoned.
- Exfiltration test restarted on 15 October and completed on 16 October. Total average leakage of 166 gals/in. diameter/mile/day; acceptable result.
- Backfilling around 42 in. diameter pipe above spring line between manholes 2 and 4, with common fill started on 16 October. Fill placed in maximum 12 in. thick loose lifts and compacted with a

plate vibrator.

- No weekly progress meeting held this week.

UNIT 2, POWERHOUSE

- Survey of powerhouse roof performed on 14 October by structural engineer, Roy R. Pederson, P.E., hired by OHM.
- Erection of security fence started.

* * * * *

Copy to: D. E. Grooms, ARCO
M. Hrywnak, COE
Dr. J.F. Beech, P.E., GeoSyntec Consultants
J. G. Fox, GeoSyntec Consultants

WEEKLY FIELD REPORT

TO: Mr. Robert E. Ivy, ARCO

FROM: Jonathan E. Brandes, GeoSyntec Consultants JEB
Roger B. North, P.E., GeoSyntec Consultants RBN

DATE: 4 November 1992

SUBJECT: 19 to 25 October 1992, Weekly Field Report
Sinclair Refinery Site Remediation
Wellsville, New York

The following key activities took place at the Sinclair Refinery Site, Wellsville, New York, during the week of 19 to 25 October 1992.

UNIT 1

- Temporary ground-water holding pond in SLA lined with 60-mil HDPE on 20 October.
- Sedimentation basin at north end CELA removed on 21 October.
- CELA grading continues on northeast and north sides of CELA.
- Secondary geotextile (TS700) deployed on CELA on 24 October to Q line; primary geotextile (TS700) was deployed on 19 and 20 October on east side of CELA and from K line to channel. See table below for quantities.
- Gas vent stone imported, stockpiled and spread on CELA throughout the week. See table below for quantities.
- Started deploying gundseal and VLDPE on CELA from gridline N510 towards south of CELA to gridline N360. See table below for quantities.

| Item | Quantity This Week | Cumulative Quantity |
|---------------------------------------|-----------------------|------------------------|
| Gas Vent Stone (tons) | 5,929 | 25,062 |
| Geotextile (TS700) (ft ²) | 38,340 | 487,037 |
| Geotextile (TS700) (m ²) | 3,562 | 45,247 |
| VLDPE in Channel (ft ²) | 0 | 30,138 |
| VLDPE in Channel (m ²) | 0 | 2,800 |
| Gundseal in CELA (ft ²) | 78,042 | 78,042 |
| Gundseal in CELA (m ²) | 7,250 | 7,250 |
| VLDPE in CELA (ft ²) | 83,754 | 83,754 |
| VLDPE in CELA (m ²) | 7,781 | 7,781 |

- Shipment of Tensar/Polyfelt drainage composite received on 21 October. Stored in SLA area at south end of CELA.
- Backfilled 42 in. diameter CMP culvert at north end CELA on 19 October.
- Placed sand on VLDPE underliner on west side of CELA on 19 and 23 October.
- RMC Environmental Services was unable to validate Ceimic Corporation laboratory test results on Geo-Con's conformational samples taken in August and September from Refinery Areas A to G.
- No weekly progress meeting held this week.

- Inspection of east and west dikes performed on 21 October for Operation and Maintenance Plan for Genesee River channel.

UNIT 2, SEPARATOR

- Completed forming manhole 1 and cast on 22 October.
- 42 in. diameter pipe backfilled with common fill above spring line between manholes 2 and 4 on 19 October. Backfilling around 18 in. diameter pipe above spring line between manholes 1 and 2 started on 20 October and continued throughout week. Fill placed in maximum 12 in. thick loose lifts and compacted with a plate vibrator.
- Central Industries continued to pump and treat sludge. See attached table for quantities.
- Replaced filters on filter plant and restarted treating aqueous phase on 20 October. Filter plant run continuously until 22 October when east 30,000 gal. tank filled. See attached table for quantities. Sampled treated aqueous phase at 4 locations in east 30,000 gal. tank on 29 October and made 1 composite sample. Represents second 30,000 gal. tankful of treated aqueous phase tested.
- Received analytical results for treated aqueous phase in west 30,000 gal. modutank on 23 October; acceptable for discharge to POTW. Represents first tank of treated aqueous phase acceptable for discharge.
- Started cleaning debris in separator at northeast cell on 20 October, and continues throughout week working west in north train. Work being performed in level C protection.

19 to 25 October 1992, Weekly Field Report
4 November 1992
Page 4

- No weekly progress meeting held this week.

UNIT 2, POWERHOUSE

- Erection of security fence continued.
- No weekly progress meeting held this week.

* * * * *

Copy to: D. E. Grooms, ARCO
M. Hrywnak, COE
Dr. J.F. Beech, P.E., GeoSyntec Consultants
J. G. Fox, GeoSyntec Consultants

SINCLAIR REFINERY, WELLSVILLE, NEW YORK

UNIT 2, SEPARATOR REMEDIATION

| ITEM | W/E 4 OCTOBER | | W/E 11 OCTOBER | | W/E 18 OCTOBER | |
|--|---------------|--------|----------------|---------|----------------|---------|
| | WEEK | TOTAL | WEEK | TOTAL | WEEK | TOTAL |
| Volume aqueous phase removed (gal.) | 49,500 | 49,500 | 0 | 49,500 | 32,500 | 82,000 |
| Volume aqueous phase treated (gal.) | 0 | 0 | 20,000 | 20,000 | 16,400 | 36,400 |
| Volume of aqueous phase to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume sludge treated (gal.) | 0 | 0 | 29,472 | 29,472 | 31,928 | 61,400 |
| Weight filter-cake off-site (tons) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate produced (gal.) | 0 | 0 | Unknown | Unknown | Unknown | Unknown |
| Volume filtrate treated (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |

| ITEM | W/E 25 OCTOBER | |
|--|----------------|---------|
| | WEEK | TOTAL |
| Volume aqueous phase removed (gal.) | 0 | 82,000 |
| Volume aqueous phase treated (gal.) | 13,210 | 49,610 |
| Volume of aqueous phase to POTW (gal.) | 0 | 0 |
| Volume sludge treated (gal.) | 51,576 | 112,976 |
| Weight filter-cake off-site (tons) | 0 | 0 |
| Volume filtrate produced (gal.) | Unknown | Unknown |
| Volume filtrate treated (gal.) | 0 | 0 |
| Volume filtrate to POTW (gal.) | 0 | 0 |

WEEKLY FIELD REPORT

TO: Mr. Robert E. Ivy, ARCO

FROM: Jonathan E. Brandes, GeoSyntec Consultants JEB
Roger B. North, P.E., GeoSyntec Consultants RBN

DATE: 5 November 1992

SUBJECT: 26 October to 1 November, Weekly Field Report
Sinclair Refinery Site Remediation
Wellsville, New York

The following key activities took place at the Sinclair Refinery Site, Wellsville, New York, during the week of 26 October to 1 November 1992.

UNIT 1

- Preparation of underliner continued on northeast and north sides of CELA, including: grading, excavation of anchor trench, backfill of plug in traffic cap, excavation of key trench, deployment of VLDPE underliner and backfill of key trench. VLDPE laid on 29, 30 and 31 October and 1 November.
- Placed sand over underliner on 27 October.
- Deployment of Gundseal over sand stopped from 26 October. Gundseal will be deployed when water in sand layer has been controlled.
- CELA grading continued on northeast and north sides of CELA.
- Gas vent stone imported on 30 and 31 October and spread on CELA throughout the week. See table below for quantities.
- Secondary geotextile (TS700) and primary geotextile (TS700) deployed throughout week. See table below for quantities.

- Deployed gundseal and VLDPE on 26, 28, 30 and 31 October, southwards from gridline N360 to N220 (south end of CELA) and northwards from gridline N510 to N640. See table below for quantities.

| Item | Quantity This Week | Cumulative Quantity |
|---------------------------------------|-----------------------|------------------------|
| Gas Vent Stone (tons) | 1,121 | 26,183 |
| Geotextile (TS700) (ft ²) | 162,862 | 649,899 |
| Geotextile (TS700) (m ²) | 15,130 | 60,378 |
| VLDPE in Channel (ft ²) | 10,140 | 66,088 |
| VLDPE in Channel (m ²) | 942 | 6,142 |
| Gundseal in CELA (ft ²) | 100,045 | 178,087 |
| Gundseal in CELA (m ²) | 9,298 | 16,551 |
| VLDPE in CELA (ft ²) | 105,864 | 189,618 |
| VLDPE in CELA (m ²) | 9,839 | 17,622 |

- Formed boots around gas vent riser pipes and other penetrations on 26, 27 and 28 October.
- Geotextile destructive samples 7 to 13 and geomembrane destructive samples 1 to 8 sent to laboratory for testing.
- Retesting of Geo-Con's Refinery Areas conformational samples completed by Law Environmental on 26 October. Indicated additional locations with arsenic concentrations above 25 ppm in Areas A, B, C, D and G.

- Additional conformational sampling performed in Areas A, B, C, D and G by GeoSyntec Consultants between 28 and 30 October. Samples sent to Law Environmental, Inc. for analysis. Results received on 30 October for some Area A samples indicate locations with arsenic concentrations above 25 ppm.
- No weekly progress meeting held this week.
- Submittals reviewed for :
 - Modifications to cold weather welding procedures (rejected);
 - Gundle letter about use of low pressure vehicle on gundseal;
 - Bedding borrow source compliance (28QC04, Addendum 17);
 - Gas vent stone permeability results (28QC04, Addendum 18); and
 - Submittal register update (28QC04, Revision 4).

UNIT 2, SEPARATOR

- Hydrostatic pressure test on 18 in. diameter concrete pipe between manholes 1 and 2 started on 26 October and completed on 28 October. Leakage rate of 88 gal./in. diameter/mile/day over final 17 hours; acceptable result.
- Transported treated aqueous phase from west 30,000 gal. modutank to POTW on 27 October. See attached table for quantities.
- Treated aqueous phase from 27 to 29 October into west 30,000 gal. modutank. See attached table for quantities. Sampled treated aqueous phase at 4 locations in west 30,000 gal. modutank and made 1 composite sample. Represents third 30,000 gal. tankful of treated aqueous phase tested.
- 18,059 gal. of liquid (aqueous phase, 5,436 gal.; decontamination water and rainwater, 12,623 gal.) left in west 100,000 gal. modutank. Added 41,825 gal. filtrate from the east 100,000 gal. modutank into 18,059 gal. remaining in west 100,000 gal.

modutank.

- Received analytical results from east 30,000 gal. modutank on 30 October.; represents second tankful of treated aqueous phase acceptable for discharge to POTW.
- Central Industries continued to pump and treat sludge. See table below for quantities.
- Continued steam cleaning debris in separator cells that have had sludge removed. Work being performed in level C protection.
- No weekly progress meeting held this week.

UNIT 2, POWERHOUSE

- Samples of roofing materials, taken by Asbestos Control Management, Inc. on 26 October from powerhouse roof, shown to contain asbestos.
- No weekly progress meeting held this week.

* * * * *

Attachment

Copy to: D. E. Grooms, ARCO
M. Hrywnak, COE
Dr. J.F. Beech, P.E., GeoSyntec Consultants
J. G. Fox, GeoSyntec Consultants

SINCLAIR REFINERY, WELLSVILLE, NEW YORK

UNIT 2, SEPARATOR REMEDIATION

| ITEM | W/E 4 OCTOBER | | W/E 11 OCTOBER | | W/E 18 OCTOBER | |
|--|---------------|--------|----------------|---------|----------------|---------|
| | WEEK | TOTAL | WEEK | TOTAL | WEEK | TOTAL |
| Volume aqueous phase removed (gal.) | 49,500 | 49,500 | 0 | 49,500 | 32,500 | 82,000 |
| Volume aqueous phase treated (gal.) | 0 | 0 | 20,000 | 20,000 | 16,400 | 36,400 |
| Volume of aqueous phase to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume sludge treated (gal.) | 0 | 0 | 29,472 | 29,472 | 31,928 | 61,400 |
| Weight filter-cake off-site (tons) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate produced (gal.) | 0 | 0 | Unknown | Unknown | Unknown | Unknown |
| Volume filtrate treated (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |

| ITEM | W/E 25 OCTOBER | | W/E 1 NOVEMBER | |
|--|----------------|---------|----------------|-----------|
| | WEEK | TOTAL | WEEK | TOTAL |
| Volume aqueous phase removed (gal.) | 0 | 82,000 | 0 | 82,000 |
| Volume aqueous phase treated (gal.) | 13,210 | 49,610 | 26,954 | 76,564 |
| Volume of aqueous phase to POTW (gal.) | 0 | 0 | 23,362 | 23,362 |
| Volume sludge treated (gal.) | 51,576 | 112,976 | 34,384 | 147,360 |
| Weight filter-cake off-site (tons) | 0 | 0 | 0 | 0 |
| Volume filtrate produced (gal.) | Unknown | Unknown | Unknown | 88,610 |
| | | | | by 29 Oct |
| Volume filtrate treated (gal.) | 0 | 0 | 0 | 0 |
| Volume filtrate to POTW (gal.) | 0 | 0 | 0 | 0 |

WEEKLY FIELD REPORT

TO: Mr. Robert E. Ivy, ARCO

FROM: Jonathan E. Brandes, GeoSyntec Consultants *TEB*
Roger B. North, P.E., GeoSyntec Consultants *RBN*

DATE: 8 November 1992

SUBJECT: 2 to 8 November, Weekly Field Report
Sinclair Refinery Site Remediation
Wellsville, New York

The following key activities took place at the Sinclair Refinery Site, Wellsville, New York, during the week of 2 to 8 November 1992.

UNIT 1

- Temporary ground-water holding pond in SLA area filled to capacity on 3 November. Second temporary ground-water holding pond excavated, in SLA area to south of existing pond, on 6 and 7 November. Liner placed in pond on 7 and 8 November, and water pumped from north end of CELA to pond starting 8 November.
- Underliner preparation prevented due to ponding of water at north and northwest end of CELA.
- CELA grading continued on north slope of CELA.
- Gas vent stone imported on 2 November and stockpiled material spread on CELA throughout the week. See table below for quantities.
- Secondary geotextile (TS700) and primary geotextile (TS700) deployed throughout week in northeast and north parts CELA. See table below for quantities.

- Deployed gundseal and VLDPE on 3, 4 and 5 November, northwards from gridline N640 to N770. See table below for quantities.

| Item | Quantity This Week | Cumulative Quantity |
|---------------------------------------|-----------------------|------------------------|
| Gas Vent Stone (tons) | 680 | 26,863 |
| Geotextile (TS700) (ft ²) | 112,870 | 762,769 |
| Geotextile (TS700) (m ²) | 10,490 | 70,889 |
| VLDPE in Channel (ft ²) | 0 | 66,088 |
| VLDPE in Channel (m ²) | 0 | 6,142 |
| Gundseal in CELA (ft ²) | 74,175 | 252,262 |
| Gundseal in CELA (m ²) | 6,894 | 23,444 |
| VLDPE in CELA (ft ²) | 65,032 | 254,550 |
| VLDPE in CELA (m ²) | 6,044 | 23,657 |

- Results for geotextile destructive samples 7 to 13 and geomembrane destructive samples 1 to 8 received; all results satisfactory.
- Geo-Con reported inadequate capacity within CELA to accommodate neither ungraded on site soils, nor Refinery Area soils to be excavated. Decision made on 2 November to: (i) construct north end of CELA at 9 percent slope from perimeter channel and 3 percent from last gas vent ridge; and (ii) raise north edge of CELA 2 ft, from approximately E700 westwards, by increasing length of inside slope of perimeter drainage channel.

- Started staging geocomposite drainage net rolls on south end CELA.
- 4 in. diameter corrugated slotted PVC pipe installed in sand layer along alignment of perimeter channel on 6 and 7 November between Stations 7+50 and 18+00. Ends of pipe lapped over top of slurry wall into gravel sumps in CELA.
- Three drums, numbered 74, 83 and 84 transported off-site on 5 November to Model City, New York, and West Carrollton, Ohio.
- Additional conformational soil samples taken from Refinery Areas A (Current Controls), C (powerhouse) and G (dike area), and sent to Law Environmental for analysis.
- Results received from Law Environmental indicating additional locations in Refinery Areas A (Current Controls), B (end swale), C (powerhouse), D (Otis Eastern) and G (dike area) with arsenic concentrations above 25 ppm.
- Cleared trees from east side Area A on 2 and 3 November.
- Excavated soils from Area A on 4 and 5 November, Area C on 3 and 5 November and Area D on 3 November, and transported soils to CELA. Excavated locations backfilled with common fill in Area A and gravel in Areas C and D. Excavation terminated when CELA considered to be at full capacity.
- No weekly progress meeting held this week.
- Aerial photographs taken of site on 3 November.

UNIT 2, SEPARATOR

- Transport treated aqueous phase from east 30,000 gal. modutank to POTW on 2 November. See attached table for quantities.
- Started treating mixture of aqueous phase, filtrate and extraneous water from west 100,000 gal. modutank to east 30,000 gal. modutank on 2 November. Completed filling east 30,000 gal. modutank on 4 November. See attached table for quantities. Sampled treated water at 4 locations in east 30,000 gal. modutank and made 1 composite sample. Represents fourth 30,000 gal. tankful of treated water tested.
- Received analytical results from west 30,000 gal. modutank on 6 November; represents third second tankful of treated aqueous phase acceptable for discharge to POTW.
- Skimmed free floating oil from surface of filtrate in east 100,000 gal. modutank throughout week using sorbents. Used sorbents placed in drums for off-site disposal.
- Central Industries continued to pump and treat sludge. See table below for quantities.
- Continued steam cleaning debris in separator cells that have had sludge removed. Work being performed in level C protection.
- Mobilized vacuum "Guzzler" truck on 2 November to remove material, such as rocks and small debris, from bottom of Separator cells which can neither be removed by the filter press pump nor steam cleaned in place. Free draining sludge decanted from vacuum truck into filter press mix container and debris placed in roll-off. Work continued through week.

2 to 8 November 1992, Weekly Field Report
8 November 1992
Page 5

- Completed backfilling around manhole 1 on 3 November.
- No weekly progress meeting held this week.

UNIT 2, POWERHOUSE

- No site activity.
- No weekly progress meeting held this week.

* * * * *

Attachment

Copy to: D. E. Grooms, ARCO
M. Hrywnak, COE
Dr. J.F. Beech, P.E., GeoSyntec Consultants
J. G. Fox, GeoSyntec Consultants

SINCLAIR REFINERY, WELLSVILLE, NEW YORK

UNIT 2, SEPARATOR REMEDIATION

| ITEM | W/E 4 OCTOBER | | W/E 11 OCTOBER | | W/E 18 OCTOBER | |
|--|---------------|--------|----------------|---------|----------------|---------|
| | WEEK | TOTAL | WEEK | TOTAL | WEEK | TOTAL |
| Volume aqueous phase removed (gal.) | 49,500 | 49,500 | 0 | 49,500 | 32,500 | 82,000 |
| Volume aqueous phase treated (gal.) | 0 | 0 | 20,000 | 20,000 | 16,400 | 36,400 |
| Volume of aqueous phase to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume sludge treated (gal.) | 0 | 0 | 29,472 | 29,472 | 31,928 | 61,400 |
| Weight filter-cake off-site (tons) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate produced (gal.) | 0 | 0 | Unknown | Unknown | Unknown | Unknown |
| Volume filtrate treated (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water present (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water treated (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |

| ITEM | W/E 25 OCTOBER | | W/E 1 NOVEMBER | | W/E 8 NOVEMBER | |
|--|----------------|---------|----------------|-----------|-------------------|----------|
| | WEEK | TOTAL | WEEK | TOTAL | WEEK | TOTAL |
| Volume aqueous phase removed (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume aqueous phase treated (gal.) | 13,210 | 49,610 | 26,954 | 76,564 | 5,436 | 82,000 |
| Volume of aqueous phase to POTW (gal.) | 0 | 0 | 23,362 | 23,362 | 26,248 | 49,610 |
| Volume sludge treated (gal.) | 51,576 | 112,976 | 34,384 | 147,360 | 34,384 | 196,480 |
| Weight filter-cake off-site (tons) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate produced (gal.) | Unknown | Unknown | Unknown | 88,610 | Unknown | 140,999 |
| | | | | by 29 Oct | | by 6 Nov |
| Volume filtrate treated (gal.) | 0 | 0 | 0 | 0 | 8,276 | 8,276 |
| Volume filtrate to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water present (gal.) | 0 | 0 | 12623 | 12623 | 0 | 0 |
| Volume extraneous water treated (gal.) | 0 | 0 | 0 | 0 | 12623 | 12623 |
| Volume extraneous water to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |

49,120
JEB
16/Mar/93

WEEKLY FIELD REPORT

TO: Mr. Robert E. Ivy, ARCO
FROM: Roger B. North, P.E., GeoSyntec Consultants *RBN*
DATE: 16 November 1992
SUBJECT: 9 to 15 November, Weekly Field Report
Sinclair Refinery Site Remediation
Wellsville, New York

The following key activities took place at the Sinclair Refinery Site, Wellsville, New York, during the week of 9 to 15 November 1992.

UNIT 1

- Jim Devine, Geo-Con liner foreman, replaced by Scott Cosgrove on 11 November.
- Water pumped from CELA to temporary holding pond in SLA.
- Backfilling of anchor trench started on 10 November.
- CELA grading continued on north slope of CELA.
- Graded subgrade near northwest corner for underliner and excavated along slurry wall alignment for traffic cap plug.
- Gas vent stone imported on 10, 12 and 13 November and stockpiled material spread on CELA throughout the week. See table below for quantities.
- Gas vent pipes installed along northernmost ridge on 10 November.
- Secondary geotextile (TS700) and primary geotextile (TS700) deployed on 11 and 15 November in northeast and north parts CELA. See table below for quantities.

- Removed hydrated gundseal from west drainage channel and replaced with new gundseal on 14 November. No gundseal or VLDPE deployed on CELA. 124 linear feet of VLDPE deployed on 10 November at southernmost end of CELA to lap into anchor trench. See table below for quantities.
- Geocomposite drainage layer deployed on 10, 11, 13, 14 and 15 November from south end CELA to approximately gridline N470. See table below for quantities.
- Common fill placement started on 11 November at south end of CELA. Delivery halted after approximately 9 loads delivered by Baker's Of Jericho Hill Inc. from Babbitt pit due to large quantity of material above 3 in. size. Additional source of common fill, Wayne Gravel Products Inc. Faulkner mine, Route 44, Ceres, Pennsylvania, approved on 11 November. Common fill placement resumed on 13 November from both Babbitt pit and Faulkner mine. South end of CELA completed to approximately gridline N460. See table below for quantities.

| Item | Quantity This Week | Cumulative Quantity |
|---------------------------------------|-----------------------|------------------------|
| Gas Vent Stone (tons) | 1,291 | 28,155 |
| Geotextile (TS700) (ft ²) | 115,080 | 877,849 |
| Geotextile (TS700) (m ²) | 10,691 | 81,555 |
| VLDPE in Channel (ft ²) | 0 | 66,088 |
| VLDPE in Channel (m ²) | 0 | 6,142 |
| Gundseal in CELA (ft ²) | 29,440 | 281,702 |
| Gundseal in CELA (m ²) | 2,735 | 26,171 |
| VLDPE in CELA (ft ²) | 17,050 | 271,700 |

| Item | Quantity This Week | Cumulative Quantity |
|---------------------------------------|-----------------------|------------------------|
| VLDPE in CELA (m ²) | 1,584 | 25,242 |
| Geocomposite Layer (ft ²) | 91,200 | 91,200 |
| Geocomposite Layer (m ²) | 8,473 | 8,473 |
| Common Fill (tons) | 10,345 | 10,345 |

- Geomembrane destructive samples 9 to 17 taken on 12 November; results received verbally on 15 November. All results satisfactory.
- Received results, on 11 November, of hydraulic conductivity test performed by GeoSyntec Consultants on traffic cap material from Station 6+00. Hydraulic conductivity of 8.2×10^{-8} cm/sec satisfies specification requirement of permeability less than 1×10^{-5} cm/sec.
- Results received from Law Environmental on 10 November indicating additional locations in Refinery Areas C (powerhouse) and G (dike area) with arsenic concentrations above 25 ppm.
- Additional conformational soil samples taken on 10 November from Refinery Areas B (end swale), C (powerhouse), D (Otis Eastern) and G (dike area), and sent to Law Environmental for analysis.
- No weekly progress meeting held this week.
- Monthly progress meeting held on-site on 12 November.

UNIT 2, SEPARATOR

- Received analytical results from east 30,000 gal. modutank on 13 November; represents fourth tankful of treated aqueous phase acceptable for discharge to POTW.
- Discharged, into POTW sanitary sewer line, treated aqueous phase from west 30,000 gal. modutank on 9 November and treated aqueous phase, filtrate and extraneous water from east 30,000 gal. modutank on 13 November. See attached table for quantities.
- Started treating filtrate from west 100,000 gal. modutank to west 30,000 gal. modutank on 9 November. Completed filling west 30,000 gal. modutank on 12 November. Treated filtrate found to have pH of approximately 5 on 12 November. Retreatment of filtrate from west 30,000 gal. modutank to east 30,000 gal. modutank started on 13 November. See attached table for quantities.
- Central Industries continued to pump and treat sludge. See table below for quantities.
- Continued steam cleaning debris in separator cells that have had sludge removed. Work being performed in level C protection.
- Continued to use vacuum "Guzzler" truck throughout week to remove material, such as rocks and small debris, from bottom of Separator cells which can neither be removed by the filter press pump nor steam cleaned in place. Free draining sludge decanted from vacuum truck into filter press mix container and debris placed in roll-off.
- Hydroblasting unit mobilized to site on 10 November. Trial hydroblasting of Separator walls performed on 11 November. Severson requested ARCO consider use of sand-blasting as an alternate cleaning method. Sand-blasting trial performed on 12 and 13 November.

- No weekly progress meeting held this week.
- Monthly progress meeting held on-site on 12 November.

UNIT 2, POWERHOUSE

- Load testing of powerhouse roof started on 11 November and completed on 13 November. A 1000 lb concrete block suspended from a crane was placed at the center of roof panels. Testing supervised by engineers from E & M Engineers and Surveyors. Panels which neither deflected excessively nor collapsed were considered safe. Roof areas above turbine room and high pressure boiler room/fan floor considered safe with the exception of a few panels in both areas and roof areas above the low pressure boiler area considered unsafe.
- No weekly progress meeting held this week.
- Monthly progress meeting held on-site on 13 November. OHM instructed by ARCO to demobilize from site while ARCO considers remediation options.

* * * * *

Attachment

Copy to: D. A. Christensen, P.E., ARCO
D. E. Grooms, ARCO
J. K. Kimura, ARCO
M. Hrywnak, COE
Dr. J. F. Beech, P.E., GeoSyntec Consultants
J. E. Brandes, GeoSyntec Consultants
J. G. Fox, P.G., GeoSyntec Consultants

SINCLAIR REFINERY, WELLSVILLE, NEW YORK

UNIT 2, SEPARATOR REMEDIATION

| ITEM | W/E 4 OCTOBER | | W/E 11 OCTOBER | | W/E 18 OCTOBER | |
|--|---------------|--------|----------------|---------|----------------|---------|
| | WEEK | TOTAL | WEEK | TOTAL | WEEK | TOTAL |
| Volume aqueous phase removed (gal.) | 49,500 | 49,500 | 0 | 49,500 | 32,500 | 82,000 |
| Volume aqueous phase treated (gal.) | 0 | 0 | 20,000 | 20,000 | 16,400 | 36,400 |
| Volume of aqueous phase to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume sludge treated (gal.) | 0 | 0 | 29,472 | 29,472 | 31,928 | 61,400 |
| Weight filter-cake off-site (tons) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate produced (gal.) | 0 | 0 | Unknown | Unknown | Unknown | Unknown |
| Volume filtrate treated (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water present (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water treated (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |

| ITEM | W/E 25 OCTOBER | | W/E 1 NOVEMBER | | W/E 8 NOVEMBER | |
|--|----------------|---------|----------------|-----------|-------------------|--------------------|
| | WEEK | TOTAL | WEEK | TOTAL | WEEK | TOTAL |
| Volume aqueous phase removed (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume aqueous phase treated (gal.) | 13,210 | 49,610 | 26,954 | 76,564 | 5,436 | 82,000 |
| Volume of aqueous phase to POTW (gal.) | 0 | 0 | 23,362 | 23,362 | 26,248 | 49,610 |
| Volume sludge treated (gal.) | 51,576 | 112,976 | 34,384 | 147,360 | 34,384 | 196,480 |
| Weight filter-cake off-site (tons) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate produced (gal.) | Unknown | Unknown | Unknown | 88,610 | Unknown | 140,999 |
| | | | | by 29 Oct | | by 6 Nov |
| Volume filtrate treated (gal.) | 0 | 0 | 0 | 0 | 8,276 | 8,276 |
| Volume filtrate to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water present (gal.) | 0 | 0 | 12623 | 12623 | 0 | 0 |
| Volume extraneous water treated (gal.) | 0 | 0 | 0 | 0 | 12623 | 12623 |
| Volume extraneous water to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |

49,120
JFB
16/mar/93

SINCLAIR REFINERY, WELLSVILLE, NEW YORK

UNIT 2, SEPARATOR REMEDIATION

| ITEM | W/E 15 NOVEMBER | |
|--|-----------------|-----------|
| | WEEK | TOTAL |
| Volume aqueous phase removed (gal.) | 0 | 82,000 |
| Volume aqueous phase treated (gal.) | 0 | 82,000 |
| Volume of aqueous phase to POTW (gal.) | 32,390 | 82,000 |
| Volume sludge treated (gal.) | 44,208 | 240,688 |
| Weight filter-cake off-site (tons) | 0 | 0 |
| Volume filtrate produced (gal.) | Unknown | 193,875 |
| | | by 15 Nov |
| Volume filtrate treated (gal.) | 25,451 | 33,727 |
| Volume filtrate to POTW (gal.) | 8,276 | 8,276 |
| Volume extraneous water present (gal.) | 0 | 0 |
| Volume extraneous water treated (gal.) | 0 | 12,623 |
| Volume extraneous water to POTW (gal.) | 12,623 | 12,623 |

WEEKLY FIELD REPORT

TO: Mr. Robert E. Ivy, ARCO

FROM: Jonathan E. Brandes, GeoSyntec Consultants JEB
Roger B. North, P.E., GeoSyntec Consultants RBN

DATE: 22 November 1992

SUBJECT: 16 to 22 November, Weekly Field Report
Sinclair Refinery Site Remediation
Wellsville, New York

The following key activities took place at the Sinclair Refinery Site, Wellsville, New York, during the week of 16 to 22 November 1992.

UNIT 1

- Water pumped from CELA to temporary holding pond in SLA.
- Grading of CELA subgrade continued on northwest slope of CELA. Grading completed on 21 November.
- Traffic cap plug near northwest corner of CELA placed on 20 November. This completes traffic cap plug.
- Gas vent stone imported on 19, 20 and 21 November and spread on CELA throughout the week. See table below for quantities.
- Primary geotextile (TS700) deployed on 17, 18, 20, and 21 November in north parts CELA. Secondary geotextile (TS1000) deployed on 20 and 21 November in northwest part of CELA. This completes deployment of secondary geotextile. See table below for quantities.
- Deployed gundseal and VLDPE on 19, 20, and 21 November.
- Deployed underliner at northwest end of CELA on 19, 20 November.

This completes installation of underliner. See table below for quantities.

- Geocomposite drainage layer deployed on 16, 17, 18, and 22 November from approximately gridline N470 to approximately gridline N560. See table below for quantities.
- Common fill placed on 16, 17, 19, and 20 November at south end of CELA. Common fill hauled by Baker's of Jericho Hill Inc. from Babbitt pit, Wellsville. See table below for quantities.

| Item | Quantity This Week | Cumulative Quantity |
|---|-----------------------|------------------------|
| Gas Vent Stone (tons) | 1,394 | 29,549 |
| CELA Geotextile (TS700) (ft ²) | 157,650 | 1,037,218 |
| CELA Geotextile (TS700) (m ²) | 14,646 | 96,358 |
| CELA Geotextile (TS1000) (ft ²) | 18,200 | 18,200 |
| CELA Geotextile (TS1000) (m ²) | 1,691 | 1,691 |
| VLDPE in Channel (ft ²) | 8,865 | 83,845 |
| VLDPE in Channel (m ²) | 824 | 7,792 |
| Gundseal in CELA (ft ²) | 84,490 | 366,192 |
| Gundseal in CELA (m ²) | 7,849 | 34,019 |
| VLDPE in CELA (ft ²) | 89,254 | 356,994 |
| VLDPE in CELA (m ²) | 8,295 | 33,178 |
| Geocomposite Layer (ft ²) | 79,800 | 171,000 |
| Geocomposite Layer (m ²) | 7,413 | 15,886 |
| Common Fill (tons) | 10,539 | 21,166 |

- Geomembrane destructive samples 18 to 21, and 23 taken on 16

November; results received on 17 November. All results satisfactory. Geomembrane destructive samples 22, and 24 to 30 taken on 21 November.

- 2 shelby tubes pushed in slurry wall at station 0+00 on 17 November and 2 shelby tubes pushed in traffic cap at station 28+00 on 20 November by GeoSyntec Consultants.
- Received data packages (11 volumes) from Law Environmental Inc. for Refinery Surface Soil Cleanup (RSSC) samples taken by Geo-Con.
- Received validation report from RMC Environmental Services Inc. validating Law Environmental data package.
- Submittals reviewed for:
 - Post excavation sampling results (28SA02, Addendum 2)
 - Post excavation sampling results (28SA02, Addendum 3)
 - Common fill borrow source and compliance tests Wayne gravel products (28QC04, Addendum 24)
- No weekly progress meeting held this week.

UNIT 2, SEPARATOR

- Added caustic to east 30,000 gal. modutank to raise pH to approximately 7 before sampling on 17 November. Sampled east 30,000 gal. modutank at 4 locations and made 1 composite sample. Represents fifth 30,000 gal. tankful of treated water tested.
- Cleaned west 30,000 gal. modutank on 17 November. Started treating filtrate from west 100,000 gal. modutank to west 30,000 gal. modutank on 18 November. Problems with the treatment plant developed on 19 November, stopping treatment of filtrate.
- Skimmed oil from top of east 100,000 gal. modutank and placed in 55 gal. drums on 19 November.
- Central Industries continued to pump and treat sludge. See table

below for quantities. Roll-off boxes filled with filter cake during week stored inside perimeter fence at Powerhouse.

- Continued steam cleaning debris in separator cells that have had sludge removed. Work being performed in level C protection.
- Continued to use vacuum "Guzzler" truck throughout week to remove material, such as rocks and small debris, from bottom of Separator cells which can neither be removed by the filter press pump nor steam cleaned in place. Free draining sludge decanted from vacuum truck into filter press mix container and debris placed in roll-off.
- Sand-blasting of Separator walls continued throughout week. Installed polyethylene around outside of Separator to prevent fugitive sand-blasting dust. Work being performed in level B. Used sand removed from Separator by vacuum truck and placed in roll-off box for off-site disposal.
- No weekly progress meeting held this week.

UNIT 2, POWERHOUSE

- Fence erection on east side of Powerhouse.
- OHM prepares to demobilize.
- No weekly progress meeting held this week.

* * * * *

Attachment

Copy to: D. A. Christensen, P.E., ARCO
D. E. Grooms, ARCO
J. K. Kimura, ARCO
M. Hrywnak, COE
Dr. J. F. Beech, P.E., GeoSyntec Consultants
J. G. Fox, P.G., GeoSyntec Consultants

SINCLAIR REFINERY, WELLSVILLE, NEW YORK

UNIT 2, SEPARATOR REMEDIATION

| ITEM | W/E 4 OCTOBER | | W/E 11 OCTOBER | | W/E 18 OCTOBER | |
|--|---------------|--------|----------------|---------|----------------|---------|
| | WEEK | TOTAL | WEEK | TOTAL | WEEK | TOTAL |
| Volume aqueous phase removed (gal.) | 49,500 | 49,500 | 0 | 49,500 | 32,500 | 82,000 |
| Volume aqueous phase treated (gal.) | 0 | 0 | 20,000 | 20,000 | 16,400 | 36,400 |
| Volume of aqueous phase to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume sludge treated (gal.) | 0 | 0 | 29,472 | 29,472 | 31,928 | 61,400 |
| Weight filter-cake off-site (tons) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate produced (gal.) | 0 | 0 | Unknown | Unknown | Unknown | Unknown |
| Volume filtrate treated (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water present (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water treated (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |

| ITEM | W/E 25 OCTOBER | | W/E 1 NOVEMBER | | W/E 8 NOVEMBER | |
|--|----------------|---------|----------------|-----------|-------------------|----------|
| | WEEK | TOTAL | WEEK | TOTAL | WEEK | TOTAL |
| Volume aqueous phase removed (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume aqueous phase treated (gal.) | 13,210 | 49,610 | 26,954 | 76,564 | 5,436 | 82,000 |
| Volume of aqueous phase to POTW (gal.) | 0 | 0 | 23,362 | 23,362 | 26,248 | 49,610 |
| Volume sludge treated (gal.) | 51,576 | 112,976 | 34,384 | 147,360 | 34,384 | 196,480 |
| Weight filter-cake off-site (tons) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate produced (gal.) | Unknown | Unknown | Unknown | 88,610 | Unknown | 140,999 |
| | | | | by 29 Oct | | by 6 Nov |
| Volume filtrate treated (gal.) | 0 | 0 | 0 | 0 | 8,276 | 8,276 |
| Volume filtrate to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water present (gal.) | 0 | 0 | 12623 | 12623 | 0 | 0 |
| Volume extraneous water treated (gal.) | 0 | 0 | 0 | 0 | 12623 | 12623 |
| Volume extraneous water to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |

49,120
JEB
16/mar/93

SINCLAIR REFINERY, WELLSVILLE, NEW YORK

UNIT 2, SEPARATOR REMEDIATION

| ITEM | W/E 15 WEEK | NOVEMBER TOTAL | W/E 22 WEEK | NOVEMBER TOTAL |
|--|----------------|-------------------|----------------|-------------------|
| Volume aqueous phase removed (gal.) | 0 | 82,000 | 0 | 82,000 |
| Volume aqueous phase treated (gal.) | 0 | 82,000 | 0 | 82,000 |
| Volume of aqueous phase to POTW (gal.) | 32,390 | 82,000 | 0 | 82,000 |
| Volume sludge treated (gal.) | 44,208 | 240,688 | 38,068 | 278,756 |
| Weight filter-cake off-site (tons) | 0 | 0 | 0 | 0 |
| Volume filtrate produced (gal.) | Unknown | 193,875 | 14,971 | 208,846 |
| | | by 15 Nov | | |
| Volume filtrate treated (gal.) | 25,451 | 33,727 | 19,795 | 53,522 |
| Volume filtrate to POTW (gal.) | 8,276 | 8,276 | 0 | 8,276 |
| Volume extraneous water present (gal.) | 0 | 0 | 0 | 0 |
| Volume extraneous water treated (gal.) | 0 | 12,623 | 0 | 12,623 |
| Volume extraneous water to POTW (gal.) | 12,623 | 12,623 | 0 | 12,623 |

WEEKLY FIELD REPORT

TO: Mr. Robert E. Ivy, ARCO

FROM: Jonathan E. Brandes, GeoSyntec Consultants *JEB*
Roger B. North, P.E., GeoSyntec Consultants *RBN*

DATE: 3 December 1992

SUBJECT: 23 to 29 November, Weekly Field Report
Sinclair Refinery Site Remediation
Wellsville, New York

The following key activities took place at the Sinclair Refinery Site, Wellsville, New York, during the week of 23 to 29 November 1992.

UNIT 1

- Water samples taken from temporary ground-water holding ponds in SLA area on 24 November to test against POTW discharge criteria.
- Gas vent stone imported on 23, 24 and 25 November and spread on northwest corner of CELA. Gas vent stone layer completed on 25 November. See table below and attachment for quantities.
- Deployed gundseal and 60-mil thick VLDPE geomembrane on CELA on 24 November; approximately placed to gridline N1100 on east of gridline E650, and to gridline N900 on west of gridline E650. See table below and attachment for quantities.
- Geocomposite drainage layer deployed on 23, and 24 November. See table below and attachment for quantities.
- Previously stockpiled common fill spread on 24 November. See table below and attachment for quantities.

| Item | Quantity This Week | Cumulative Quantity |
|---|-----------------------|------------------------|
| Gas Vent Stone (tons) | 1,060 | 30,095 |
| CELA Geotextile (TS700) (ft ²) | 0 | 1,037,218 |
| CELA Geotextile (TS700) (m ²) | 0 | 96,358 |
| CELA Geotextile (TS1000) (ft ²) | 0 | 18,200 |
| CELA Geotextile (TS1000) (m ²) | 0 | 1,691 |
| VLDPE in Channel (ft ²) | 0 | 83,845 |
| VLDPE in Channel (m ²) | 0 | 7,792 |
| Gundseal in CELA (ft ²) | 36,000 | 379,707 |
| Gundseal in CELA (m ²) | 3,346 | 35,289 |
| VLDPE in CELA (ft ²) | 36,960 | 393,954 |
| VLDPE in CELA (m ²) | 3,435 | 36,600 |
| Geocomposite Layer (ft ²) | 91,770 | 262,770 |
| Geocomposite Layer (m ²) | 8,529 | 24,421 |
| Common Fill (tons) | 0 | 21,166 |

- Boot details around pipe penetrations through CELA cap continued.
- Received results for geomembrane destructive samples 22, and 24 to 30 on 25 November. All results satisfactory.
- Received, on 23 November, RMC Environmental Services validation report of Law Environmental analytical results for Refinery surface soil samples from Areas A to G, obtained by Geo-Con in September. Conformational Sampling Program report sent to EPA and NYDEC on 23 November.
- No weekly progress meeting held this week.

UNIT 2, SEPARATOR

- Filter treatment plant fixed on 23 November. Treatment of filtrate from west 100,000 gal. modutank to west 30,000 gal. modutank resumed on 23 November. Completed filling west 30,000 gal. modutank on 24 November and took 1 composite sampled on 24 November. Represents sixth 30,000 gal. tankful of treated water tested. See attached table for quantities.
- Skimmed oil from top of east 100,000 gal. modutank and placed in 55 gal. drums on 23 and 24 November.
- Central Industries completed sludge treatment on 23 November. Roll-off boxes filled with filter cake during week stored inside perimeter fence at powerhouse. See table below for quantities.
- Central Industries started decontaminating and demobilizing filter press on 23 November.
- Continued steam cleaning debris in separator cells that have had sludge removed. Work being performed in level C protection.
- Sand-blasting of Separator walls and floors continued. Work being performed in level B. Used sand removed from Separator by vacuum truck and placed in roll-off box for off-site disposal.
- Vacuum "Guzzler" truck used to remove from separator: (i) material, such as sludge covered rocks and small debris, which could neither be removed by filter press pump nor steam cleaned in place; and (ii) sand blasting waste. Free draining sludge decanted from vacuum truck into filter press mix container. Sludge covered rocks and small debris placed in 1 roll-off and sand blasting waste placed in 1 roll-off.
- No weekly progress meeting held this week.

23 to 29 November 1992, Weekly Field Report
3 December 1992
Page 4

UNIT 2, POWERHOUSE

- Fence erection on east side of powerhouse completed.
- OHM completes demobilization.
- No weekly progress meeting held this week.

* * * * *

Attachment

Copy to: D. A. Christensen, P.E., ARCO
D. E. Grooms, ARCO
J. K. Kimura, ARCO
M. Hrywnak, COE
L. B. Macdonald, Morrison Knudsen Corporation
Dr. J. F. Beech, P.E., GeoSyntec Consultants
J. G. Fox, P.G., GeoSyntec Consultants
A. S. Kositsky, GeoSyntec Consultants

MATERIALS SUMMARY TABLE
CENTRAL ELEVATED LANDFILL AREA (CELA)
SINCLAIR REFINERY SITE
WELLSVILLE, NEW YORK

| DATE | GEOTEXTILE TS700 | | | | GEOTEXTILE TS1000 | | | | CHANNEL VLDPE | | | | CHANNEL GUNSEAL | | CELA GUNSEAL | |
|--------|------------------|--------|----------|---------|-------------------|-------|----------|-------|---------------|-------|----------|--------|-----------------|-------|--------------|-------|
| | (Linear ft) | | (sq. ft) | | (Linear ft) | | (sq. ft) | | (Linear ft) | | (sq. ft) | | (sq. ft) | | (sq. ft) | |
| | Day | Total | Day | Total | Day | Total | Day | Total | Day | Total | Day | Total | Day | Total | Day | Total |
| 08-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| 09-Sep | | 0 | | 0 | | 0 | | 0 | 145 | 145 | 3,190 | 3,190 | 1,428 | 1,428 | | 0 |
| 10-Sep | | 0 | | 0 | | 0 | | 0 | 128 | 273 | 2,816 | 6,006 | | 1,428 | | 0 |
| 11-Sep | | 0 | | 0 | | 0 | | 0 | | 273 | | 6,006 | | 1,428 | | 0 |
| 12-Sep | | 0 | | 0 | | 0 | | 0 | 416 | 689 | 9,152 | 15,158 | | 1,428 | | 0 |
| 13-Sep | | 0 | | 0 | | 0 | | 0 | | 689 | | 15,158 | | 1,428 | | 0 |
| 14-Sep | | 0 | | 0 | | 0 | | 0 | 96 | 785 | 2,112 | 17,270 | | 1,428 | | 0 |
| 15-Sep | | 0 | | 0 | | 0 | | 0 | 224 | 1,009 | 4,928 | 22,198 | 1,920 | 3,348 | | 0 |
| 16-Sep | | 0 | | 0 | | 0 | | 0 | | 1,009 | | 22,198 | | 3,348 | | 0 |
| 17-Sep | | 0 | | 0 | | 0 | | 0 | 119 | 1,128 | 2,982 | 25,180 | 900 | 4,248 | | 0 |
| 18-Sep | | 0 | | 0 | | 0 | | 0 | 242 | 1,370 | 5,450 | 30,630 | 1,584 | 5,832 | | 0 |
| 19-Sep | | 0 | | 0 | | 0 | | 0 | | 1,370 | | 30,630 | | 5,832 | | 0 |
| 20-Sep | | 0 | | 0 | | 0 | | 0 | | 1,370 | | 30,630 | | 5,832 | | 0 |
| 21-Sep | | 0 | | 0 | | 0 | | 0 | | 1,370 | | 30,630 | | 5,832 | | 0 |
| 22-Sep | | 0 | | 0 | | 0 | | 0 | | 1,370 | | 30,630 | | 5,832 | | 0 |
| 23-Sep | | 0 | | 0 | | 0 | | 0 | | 1,370 | | 30,630 | | 5,832 | | 0 |
| 24-Sep | | 0 | | 0 | | 0 | | 0 | | 1,370 | | 30,630 | | 5,832 | | 0 |
| 25-Sep | | 0 | 18,000 | 18,000 | | 0 | | 0 | | 1,370 | | 30,630 | | 5,832 | | 0 |
| 26-Sep | | 0 | | 18,000 | | 0 | | 0 | | 1,370 | | 30,630 | | 5,832 | | 0 |
| 27-Sep | | 0 | | 18,000 | | 0 | | 0 | | 1,370 | | 30,630 | | 5,832 | | 0 |
| 28-Sep | | 0 | 20,700 | 38,700 | | 0 | | 0 | | 1,370 | | 30,630 | | 5,832 | | 0 |
| 29-Sep | 3,900 | 3,900 | | 38,700 | | 0 | | 0 | 210 | 1,580 | 4,620 | 35,250 | | 5,832 | | 0 |
| 30-Sep | | 3,900 | 26,919 | 65,619 | | 0 | | 0 | | 1,580 | | 35,250 | | 5,832 | | 0 |
| 01-Oct | 2,520 | 6,420 | 37,800 | 103,419 | | 0 | | 0 | | 1,580 | | 35,250 | | 5,832 | | 0 |
| 02-Oct | 3,600 | 10,020 | 54,000 | 157,419 | | 0 | | 0 | | 1,580 | | 35,250 | | 5,832 | | 0 |
| 03-Oct | 720 | 10,740 | 10,800 | 168,219 | | 0 | | 0 | 350 | 1,930 | 7,700 | 42,950 | 3,961 | 9,793 | | 0 |
| 04-Oct | | 10,740 | | 168,219 | | 0 | | 0 | | 1,930 | | 42,950 | | 9,793 | | 0 |
| 05-Oct | 1,080 | 11,820 | 16,200 | 184,419 | | 0 | | 0 | | 1,930 | | 42,950 | | 9,793 | | 0 |
| 06-Oct | 2,899 | 14,719 | 43,485 | 227,904 | | 0 | | 0 | | 1,930 | | 42,950 | | 9,793 | | 0 |
| 07-Oct | 1,798 | 16,517 | 26,970 | 254,874 | | 0 | | 0 | | 1,930 | | 42,950 | | 9,793 | | 0 |

MATERIALS SUMMARY TABLE
CENTRAL ELEVATED LANDFILL AREA (CELA)
SINCLAIR REFINERY SITE
WELLSVILLE, NEW YORK

| DATE | GEOTEXTILE TS700 | | | | GEOTEXTILE TS1000 | | | | CHANNEL VLDPE | | | | CHANNEL GUNSEAL | | CELA GUNDSEAL | |
|--------|------------------|--------|----------|---------|-------------------|-------|----------|-------|---------------|-------|----------|--------|-----------------|--------|---------------|---------|
| | (Linear ft) | | (sq. ft) | | (Linear ft) | | (sq. ft) | | (Linear ft) | | (sq. ft) | | (sq. ft) | | (sq. ft) | |
| | Day | Total | Day | Total | Day | Total | Day | Total | Day | Total | Day | Total | Day | Total | Day | Total |
| 08-Oct | | 16,517 | | 254,874 | | 0 | | 0 | 213 | 2,143 | 8,690 | 51,640 | 4,888 | 14,681 | | 0 |
| 09-Oct | | 16,517 | | 254,874 | | 0 | | 0 | | 2,143 | | 51,640 | | 14,681 | | 0 |
| 10-Oct | 3,132 | 19,649 | 46,980 | 301,854 | | 0 | | 0 | | 2,143 | | 51,640 | | 14,681 | | 0 |
| 11-Oct | | 19,649 | | 301,854 | | 0 | | 0 | | 2,143 | | 51,640 | | 14,681 | | 0 |
| 12-Oct | 1,349 | 20,998 | 20,235 | 322,089 | | 0 | | 0 | | 2,143 | | 51,640 | | 14,681 | | 0 |
| 13-Oct | | 20,998 | | 322,089 | | 0 | | 0 | | 2,143 | | 51,640 | | 14,681 | | 0 |
| 14-Oct | 2,854 | 23,852 | 42,810 | 364,899 | | 0 | | 0 | | 2,143 | | 51,640 | | 14,681 | | 0 |
| 15-Oct | | 23,852 | | 364,899 | | 0 | | 0 | 200 | 2,343 | 4,400 | 56,040 | 2,400 | 17,081 | | 0 |
| 16-Oct | 1,700 | 25,552 | 25,500 | 390,399 | | 0 | | 0 | | 2,343 | | 56,040 | | 17,081 | | 0 |
| 17-Oct | 4,361 | 29,913 | 65,417 | 455,816 | | 0 | | 0 | | 2,343 | | 56,040 | | 17,081 | | 0 |
| 18-Oct | | 29,913 | | 455,816 | | 0 | | 0 | | 2,343 | | 56,040 | | 17,081 | | 0 |
| 19-Oct | 1,556 | 31,469 | 23,340 | 479,156 | | 0 | | 0 | | 2,343 | | 56,040 | | 17,081 | | 0 |
| 20-Oct | 100 | 31,569 | 1,500 | 480,656 | | 0 | | 0 | | 2,343 | | 56,040 | | 17,081 | 7,542 | 7,542 |
| 21-Oct | | 31,569 | | 480,656 | | 0 | | 0 | | 2,343 | | 56,040 | | 17,081 | | 7,542 |
| 22-Oct | | 31,569 | | 480,656 | | 0 | | 0 | | 2,343 | | 56,040 | | 17,081 | 33,000 | 40,542 |
| 23-Oct | | 31,569 | | 480,656 | | 0 | | 0 | | 2,343 | | 56,040 | | 17,081 | 30,000 | 70,542 |
| 24-Oct | 900 | 32,469 | 13,500 | 494,156 | | 0 | | 0 | | 2,343 | | 56,040 | | 17,081 | 7,500 | 78,042 |
| 25-Oct | | 32,469 | | 494,156 | | 0 | | 0 | | 2,343 | | 56,040 | | 17,081 | | 78,042 |
| 26-Oct | 927 | 33,396 | 13,905 | 508,061 | | 0 | | 0 | | 2,343 | | 56,040 | | 17,081 | 19,035 | 97,077 |
| 27-Oct | 1,337 | 34,733 | 20,057 | 528,118 | | 0 | | 0 | | 2,343 | 4,400 | 60,440 | 3,000 | 20,081 | 3,000 | 100,077 |
| 28-Oct | 615 | 35,348 | 9,225 | 537,343 | | 0 | | 0 | | 2,343 | | 60,440 | | 20,081 | 45,000 | 145,077 |
| 29-Oct | 5,521 | 40,869 | 77,420 | 614,763 | | 0 | | 0 | 200 | 2,543 | 4,400 | 64,840 | 4,000 | 24,081 | | 145,077 |
| 30-Oct | 2,157 | 43,026 | 32,355 | 647,118 | | 0 | | 0 | 179 | 2,722 | 3,940 | 68,780 | 2,285 | 26,366 | 15,000 | 160,077 |
| 31-Oct | 300 | 43,326 | 4,500 | 651,618 | | 0 | | 0 | 182 | 2,904 | 4,000 | 72,780 | 1,000 | 27,366 | 8,725 | 168,802 |
| 01-Nov | | 43,326 | | 651,618 | | 0 | | 0 | 100 | 3,004 | 2,200 | 74,980 | | 27,366 | | 168,802 |
| 02-Nov | | 43,326 | | 651,618 | | 0 | | 0 | | 3,004 | | 74,980 | | 27,366 | | 168,802 |
| 03-Nov | | 43,326 | | 651,618 | | 0 | | 0 | | 3,004 | | 74,980 | | 27,366 | 33,000 | 201,802 |
| 04-Nov | 1,200 | 44,526 | 18,000 | 669,618 | | 0 | | 0 | | 3,004 | | 74,980 | | 27,366 | 16,980 | 218,782 |
| 05-Nov | 408 | 44,934 | 6,120 | 675,738 | | 0 | | 0 | | 3,004 | | 74,980 | | 27,366 | 13,695 | 232,477 |
| 06-Nov | 4,267 | 49,201 | 64,000 | 739,738 | | 0 | | 0 | | 3,004 | | 74,980 | | 27,366 | | 232,477 |

MATERIALS SUMMARY TABLE
CENTRAL ELEVATED LANDFILL AREA (CELA)
SINCLAIR REFINERY SITE
WELLSVILLE, NEW YORK

| DATE | GEOTEXTILE TS700 | | | | GEOTEXTILE TS1000 | | | | CHANNEL VLDPE | | | | CHANNEL GUNSEAL | | CELA GUNDSEAL | |
|--------|------------------|--------|----------|-----------|-------------------|-------|----------|--------|---------------|-------|----------|--------|-----------------|--------|---------------|---------|
| | (Linear ft) | | (sq. ft) | | (Linear ft) | | (sq. ft) | | (Linear ft) | | (sq. ft) | | (sq. ft) | | (sq. ft) | |
| | Day | Total | Day | Total | Day | Total | Day | Total | Day | Total | Day | Total | Day | Total | Day | Total |
| 07-Nov | 1,650 | 50,851 | 24,750 | 764,488 | | 0 | | 0 | | 3,004 | | 74,980 | | 27,366 | | 232,477 |
| 08-Nov | | 50,851 | | 764,488 | | 0 | | 0 | | 3,004 | | 74,980 | 10,500 | 37,866 | | 232,477 |
| 09-Nov | | 50,851 | | 764,488 | | 0 | | 0 | | 3,004 | | 74,980 | | 37,866 | 25,740 | 258,217 |
| 10-Nov | | 50,851 | | 764,488 | | 0 | | 0 | | 3,004 | | 74,980 | | 37,866 | 1,500 | 259,717 |
| 11-Nov | 1,012 | 51,863 | 15,180 | 779,668 | | 0 | | 0 | | 3,004 | | 74,980 | | 37,866 | | 259,717 |
| 12-Nov | | 51,863 | | 779,668 | | 0 | | 0 | | 3,004 | | 74,980 | | 37,866 | | 259,717 |
| 13-Nov | | 51,863 | | 779,668 | | 0 | | 0 | | 3,004 | | 74,980 | | 37,866 | | 259,717 |
| 14-Nov | | 51,863 | | 779,668 | | 0 | | 0 | | 3,004 | | 74,980 | 2,200 | 40,066 | | 259,717 |
| 15-Nov | 6,660 | 58,523 | 99,900 | 879,568 | | 0 | | 0 | | 3,004 | | 74,980 | | 40,066 | | 259,717 |
| 16-Nov | | 58,523 | | 879,568 | | 0 | | 0 | | 3,004 | | 74,980 | | 40,066 | | 259,717 |
| 17-Nov | 2,200 | 60,723 | 33,000 | 912,568 | | 0 | | 0 | | 3,004 | | 74,980 | | 40,066 | | 259,717 |
| 18-Nov | 307 | 61,030 | 3,600 | 916,168 | | 0 | | 0 | | 3,004 | | 74,980 | | 40,066 | 900 | 260,617 |
| 19-Nov | | 61,030 | | 916,168 | | 0 | | 0 | 178 | 3,182 | 3,805 | 78,785 | | 40,066 | 41,090 | 301,707 |
| 20-Nov | 720 | 61,750 | 10,800 | 926,968 | 200 | 200 | 3,000 | 3,000 | 230 | 3,412 | 5,060 | 83,845 | 500 | 40,566 | 15,000 | 316,707 |
| 21-Nov | 7,350 | 69,100 | 110,250 | 1,037,218 | 1,013 | 1,213 | 15,200 | 18,200 | | | | | | | 9,000 | 325,707 |
| 22-Nov | | 69,100 | | 1,037,218 | | 1,213 | | 18,200 | | | | | | | 18,000 | 343,707 |
| 23-Nov | | 69,100 | | 1,037,218 | | 1,213 | | 18,200 | | | | | | | | 343,707 |
| 24-Nov | | 69,100 | | 1,037,218 | | 1,213 | | 18,200 | | | | | | | 36,000 | 379,707 |
| 25-Nov | | 69,100 | | 1,037,218 | | 1,213 | | 18,200 | | | | | | | | 379,707 |
| 26-Nov | | 69,100 | | 1,037,218 | | 1,213 | | 18,200 | | | | | | | | 379,707 |
| 27-Nov | | 69,100 | | 1,037,218 | | 1,213 | | 18,200 | | | | | | | | 379,707 |
| 28-Nov | | 69,100 | | 1,037,218 | | 1,213 | | 18,200 | | | | | | | | 379,707 |
| 29-Nov | | 69,100 | | 1,037,218 | | 1,213 | | 18,200 | | | | | | | | 379,707 |
| 30-Nov | | 69,100 | | 1,037,218 | | 1,213 | | 18,200 | | | | | | | 39,000 | 418,707 |

MATERIALS SUMMARY TABLE
CENTRAL ELEVATED LANDFILL AREA (CELA)
SINCLAIR REFINERY SITE
WELLSVILLE, NEW YORK

| DATE | CELA VLDPE | | | | CELA GEOCOMPOSITE | | | | COMMON FILL | | GAS VENT STON | |
|--------|-------------|-------|----------|-------|-------------------|-------|----------|-------|-------------|-------|---------------|-------|
| | (Linear ft) | | (sq. ft) | | (Linear ft) | | (sq. ft) | | (Tons) | | (Tons) | |
| | Day | Total | Day | Total | Day | Total | Day | Total | Day | Total | Day | Total |
| 28-Jul | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| 29-Jul | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| 30-Jul | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| 31-Jul | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| 01-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| 02-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| 03-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| 04-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| 05-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| 06-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | 670 | 670 |
| 07-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | 971 | 1,641 |
| 08-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | | 1,641 |
| 09-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | | 1,641 |
| 10-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | 628 | 2,269 |
| 11-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | 441 | 2,710 |
| 12-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | 152 | 2,862 |
| 13-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | | 2,862 |
| 14-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | | 2,862 |
| 15-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | | 2,862 |
| 16-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | | 2,862 |
| 17-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | | 2,862 |
| 18-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | 703 | 3,564 |
| 19-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | 524 | 4,088 |
| 20-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | 369 | 4,458 |
| 21-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | 556 | 5,013 |
| 22-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,013 |
| 23-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,013 |
| 24-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | 402 | 5,415 |
| 25-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,415 |
| 26-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,415 |

MATERIALS SUMMARY TABLE
CENTRAL ELEVATED LANDFILL AREA (CELA)
SINCLAIR REFINERY SITE
WELLSVILLE, NEW YORK

| DATE | CELA VLDPE | | | | CELA GEOCOMPOSITE | | | | COMMON FILL | | GAS VENT STON | |
|--------|-------------|-------|----------|-------|-------------------|-------|----------|-------|-------------|-------|---------------|-------|
| | (Linear ft) | | (sq. ft) | | (Linear ft) | | (sq. ft) | | (Tons) | | (Tons) | |
| | Day | Total | Day | Total | Day | Total | Day | Total | Day | Total | Day | Total |
| 27-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,415 |
| 28-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,415 |
| 29-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,415 |
| 30-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,415 |
| 31-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,415 |
| 01-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,415 |
| 02-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,415 |
| 03-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,415 |
| 04-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,415 |
| 05-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,415 |
| 06-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,415 |
| 07-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,415 |
| 08-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | 121 | 5,536 |
| 09-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,536 |
| 10-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,536 |
| 11-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,536 |
| 12-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,536 |
| 13-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,536 |
| 14-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,536 |
| 15-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,536 |
| 16-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,536 |
| 17-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,536 |
| 18-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,536 |
| 19-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,536 |
| 20-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,536 |
| 21-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,536 |
| 22-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,536 |
| 23-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,536 |
| 24-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,536 |
| 25-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,536 |

MATERIALS SUMMARY TABLE
CENTRAL ELEVATED LANDFILL AREA (CELA)
SINCLAIR REFINERY SITE
WELLSVILLE, NEW YORK

| DATE | CELA VLDPE | | | | CELA GEOCOMPOSITE | | | | COMMON FILL | | GAS VENT STON | |
|--------|-------------|-------|----------|--------|-------------------|-------|----------|-------|-------------|-------|---------------|--------|
| | (Linear ft) | | (sq. ft) | | (Linear ft) | | (sq. ft) | | (Tons) | | (Tons) | |
| | Day | Total | Day | Total | Day | Total | Day | Total | Day | Total | Day | Total |
| 26-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,536 |
| 27-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,536 |
| 28-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,536 |
| 29-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,536 |
| 30-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | 457 | 5,992 |
| 01-Oct | | 0 | | 0 | | 0 | | 0 | | 0 | 709 | 6,701 |
| 02-Oct | | 0 | | 0 | | 0 | | 0 | | 0 | 622 | 7,323 |
| 03-Oct | | 0 | | 0 | | 0 | | 0 | | 0 | 856 | 8,178 |
| 04-Oct | | 0 | | 0 | | 0 | | 0 | | 0 | | 8,178 |
| 05-Oct | | 0 | | 0 | | 0 | | 0 | | 0 | 784 | 8,962 |
| 06-Oct | | 0 | | 0 | | 0 | | 0 | | 0 | 809 | 9,771 |
| 07-Oct | | 0 | | 0 | | 0 | | 0 | | 0 | 871 | 10,642 |
| 08-Oct | | 0 | | 0 | | 0 | | 0 | | 0 | 607 | 11,249 |
| 09-Oct | | 0 | | 0 | | 0 | | 0 | | 0 | 1,154 | 12,403 |
| 10-Oct | | 0 | | 0 | | 0 | | 0 | | 0 | 928 | 13,331 |
| 11-Oct | | 0 | | 0 | | 0 | | 0 | | 0 | | 13,331 |
| 12-Oct | | 0 | | 0 | | 0 | | 0 | | 0 | 1,197 | 14,527 |
| 13-Oct | | 0 | | 0 | | 0 | | 0 | | 0 | 1,434 | 15,961 |
| 14-Oct | | 0 | | 0 | | 0 | | 0 | | 0 | 911 | 16,872 |
| 15-Oct | | 0 | | 0 | | 0 | | 0 | | 0 | 934 | 17,805 |
| 16-Oct | | 0 | | 0 | | 0 | | 0 | | 0 | 1,328 | 19,133 |
| 17-Oct | | 0 | | 0 | | 0 | | 0 | | 0 | 738 | 19,871 |
| 18-Oct | | 0 | | 0 | | 0 | | 0 | | 0 | | 19,871 |
| 19-Oct | | 0 | | 0 | | 0 | | 0 | | 0 | 2,025 | 21,896 |
| 20-Oct | 431 | 431 | 9,482 | 9,482 | | 0 | | 0 | | 0 | 1,621 | 23,516 |
| 21-Oct | | 431 | | 9,482 | | 0 | | 0 | | 0 | 1,546 | 25,062 |
| 22-Oct | 1,680 | 2,111 | 36,960 | 46,442 | | 0 | | 0 | | 0 | | 25,062 |
| 23-Oct | 1,396 | 3,507 | 30,712 | 77,154 | | 0 | | 0 | | 0 | | 25,062 |
| 24-Oct | 300 | 3,807 | 7,040 | 84,194 | | 0 | | 0 | | 0 | | 25,062 |
| 25-Oct | | 3,807 | | 84,194 | | 0 | | 0 | | 0 | | 25,062 |

MATERIALS SUMMARY TABLE
CENTRAL ELEVATED LANDFILL AREA (CELA)
SINCLAIR REFINERY SITE
WELLSVILLE, NEW YORK

| DATE | CELA VLDPE | | | | CELA GEOCOMPOSITE | | | | COMMON FILL | | GAS VENT STON | |
|--------|-------------|--------|----------|---------|-------------------|--------|----------|---------|-------------|--------|---------------|--------|
| | (Linear ft) | | (sq. ft) | | (Linear ft) | | (sq. ft) | | (Tons) | | (Tons) | |
| | Day | Total | Day | Total | Day | Total | Day | Total | Day | Total | Day | Total |
| 26-Oct | 1,097 | 4,904 | 24,134 | 108,328 | | 0 | | 0 | | 0 | | 25,062 |
| 27-Oct | 200 | 5,104 | | 108,328 | | 0 | | 0 | | 0 | | 25,062 |
| 28-Oct | 2,089 | 7,193 | 45,958 | 154,286 | | 0 | | 0 | | 0 | | 25,062 |
| 29-Oct | 374 | 7,567 | 8,228 | 162,514 | | 0 | | 0 | | 0 | | 25,062 |
| 30-Oct | 494 | 8,061 | 10,868 | 173,382 | | 0 | | 0 | | 0 | 544 | 25,606 |
| 31-Oct | 558 | 8,619 | 12,276 | 185,658 | | 0 | | 0 | | 0 | 577 | 26,183 |
| 01-Nov | | 8,619 | | 185,658 | | 0 | | 0 | | 0 | | 26,183 |
| 02-Nov | | 8,619 | | 185,658 | | 0 | | 0 | | 0 | 681 | 26,863 |
| 03-Nov | 1,752 | 10,371 | 38,544 | 224,202 | | 0 | | 0 | | 0 | | 26,863 |
| 04-Nov | 608 | 10,979 | 13,376 | 237,578 | | 0 | | 0 | | 0 | | 26,863 |
| 05-Nov | 596 | 11,575 | 13,112 | 250,690 | | 0 | | 0 | | 0 | | 26,863 |
| 06-Nov | | 11,575 | | 250,690 | | 0 | | 0 | | 0 | | 26,863 |
| 07-Nov | | 11,575 | | 250,690 | | 0 | | 0 | | 0 | | 26,863 |
| 08-Nov | | 11,575 | | 250,690 | | 0 | | 0 | | 0 | | 26,863 |
| 09-Nov | 651 | 12,226 | 14,322 | 265,012 | | 0 | | 0 | | 0 | | 26,863 |
| 10-Nov | 124 | 12,350 | 2,728 | 267,740 | 1,810 | 1,810 | 11,400 | 11,400 | | 0 | 617 | 27,481 |
| 11-Nov | | 12,350 | | 267,740 | 7,510 | 9,320 | 47,310 | 58,710 | 304 | 304 | | 27,481 |
| 12-Nov | | 12,350 | | 267,740 | | 9,320 | | 58,710 | | 304 | 584 | 28,064 |
| 13-Nov | | 12,350 | | 267,740 | 1,357 | 10,677 | 8,550 | 67,260 | 3,986 | 4,290 | 91 | 28,155 |
| 14-Nov | | 12,350 | | 267,740 | 3,619 | 14,296 | 22,800 | 90,060 | 4,167 | 8,457 | | 28,155 |
| 15-Nov | | 12,350 | | 267,740 | 181 | 14,477 | 1,140 | 91,200 | 2,170 | 10,627 | | 28,155 |
| 16-Nov | | 12,350 | | 267,740 | 3,619 | 18,096 | 22,800 | 114,000 | 2,653 | 13,280 | | 28,155 |
| 17-Nov | | 12,350 | | 267,740 | 4,705 | 22,801 | 29,640 | 143,640 | 904 | 14,184 | | 28,155 |
| 18-Nov | | 12,350 | | 267,740 | 1,719 | 24,520 | 10,830 | 154,470 | | 14,184 | | 28,155 |
| 19-Nov | 2,132 | 14,482 | 43,054 | 310,794 | | 24,520 | | 154,470 | 3,406 | 17,591 | 515 | 28,670 |
| 20-Nov | 840 | 15,322 | 18,480 | 329,274 | | 24,520 | | 154,470 | 3,575 | 21,166 | 364 | 29,034 |
| 21-Nov | 420 | 15,742 | 9,240 | 338,514 | | 24,520 | | 154,470 | | 21,166 | 243 | 29,277 |
| 22-Nov | 840 | 16,582 | 18,480 | 356,994 | 2,624 | 27,144 | 16,530 | 171,000 | | 21,166 | | 29,549 |
| 23-Nov | | 16,582 | | 356,994 | 6,786 | 33,930 | 42,750 | 213,750 | | 21,166 | 272 | 29,822 |
| 24-Nov | 1,680 | 18,262 | 36,960 | 393,954 | 4,705 | 38,635 | 29,640 | 243,390 | | 21,166 | 273 | 30,095 |

MATERIALS SUMMARY TABLE
CENTRAL ELEVATED LANDFILL AREA (CELA)
SINCLAIR REFINERY SITE
WELLSVILLE, NEW YORK

| DATE | CELA VLDPE | | | | CELA GEOCOMPOSITE | | | | COMMON FILL | | GAS VENT STON | |
|--------|-------------|--------|----------|---------|-------------------|--------|----------|---------|-------------|--------|---------------|--------|
| | (Linear ft) | | (sq. ft) | | (Linear ft) | | (sq. ft) | | (Tons) | | (Tons) | |
| | Day | Total | Day | Total | Day | Total | Day | Total | Day | Total | Day | Total |
| 25-Nov | | 18,262 | | 393,954 | | 38,635 | 19,380 | 262,770 | | 21,166 | 273 | 30,095 |
| 26-Nov | | 18,262 | | 393,954 | | 38,635 | | 262,770 | | 21,166 | | 30,095 |
| 27-Nov | | 18,262 | | 393,954 | | 38,635 | | 262,770 | | 21,166 | | 30,095 |
| 28-Nov | | 18,262 | | 393,954 | | 38,635 | | 262,770 | | 21,166 | | 30,095 |
| 29-Nov | | 18,262 | | 393,954 | | 38,635 | | 262,770 | | 21,166 | | 30,095 |
| 30-Nov | 1,680 | 19,942 | 36,960 | 430,914 | 2,714 | 41,349 | 17,100 | 279,870 | 2,237 | 23,403 | | 30,095 |

SINCLAIR REFINERY, WELLSVILLE, NEW YORK

UNIT 2, SEPARATOR REMEDIATION

| ITEM | W/E 4 OCTOBER | | W/E 11 OCTOBER | | W/E 18 OCTOBER | |
|--|---------------|--------|----------------|---------|----------------|---------|
| | WEEK | TOTAL | WEEK | TOTAL | WEEK | TOTAL |
| Volume aqueous phase removed (gal.) | 49,500 | 49,500 | 0 | 49,500 | 32,500 | 82,000 |
| Volume aqueous phase treated (gal.) | 0 | 0 | 20,000 | 20,000 | 16,400 | 36,400 |
| Volume of aqueous phase to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume sludge treated (gal.) | 0 | 0 | 29,472 | 29,472 | 31,928 | 61,400 |
| Weight filter-cake off-site (tons) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate produced (gal.) | 0 | 0 | Unknown | Unknown | Unknown | Unknown |
| Volume filtrate treated (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water present (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water treated (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |

| ITEM | W/E 25 OCTOBER | | W/E 1 NOVEMBER | | W/E 8 NOVEMBER | |
|--|----------------|---------|----------------|---------------------|----------------|---------------------|
| | WEEK | TOTAL | WEEK | TOTAL | WEEK | TOTAL |
| Volume aqueous phase removed (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume aqueous phase treated (gal.) | 13,210 | 49,610 | 26,954 | 76,564 | 5,436 | 82,000 |
| Volume of aqueous phase to POTW (gal.) | 0 | 0 | 23,362 | 23,362 | 26,248 | 49,610 |
| Volume sludge treated (gal.) | 51,576 | 112,976 | 34,384 | 147,360 | 49,120 | 196,480 |
| Weight filter-cake off-site (tons) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate produced (gal.) | Unknown | Unknown | Unknown | 88,610 by 29 Oct | Unknown | 140,999 by 6 Nov |
| Volume filtrate treated (gal.) | 0 | 0 | 0 | 0 | 8,276 | 8,276 |
| Volume filtrate to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water present (gal.) | 0 | 0 | 12,623 | 12,623 | 0 | 0 |
| Volume extraneous water treated (gal.) | 0 | 0 | 0 | 0 | 12,623 | 12,623 |
| Volume extraneous water to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |

SINCLAIR REFINERY, WELLSVILLE, NEW YORK

UNIT 2, SEPARATOR REMEDIATION

| ITEM | W/E 15 WEEK | NOVEMBER TOTAL | W/E 22 WEEK | NOVEMBER TOTAL | W/E 29 WEEK | NOVEMBER TOTAL |
|--|----------------|-------------------|----------------|-------------------|----------------|-------------------|
| Volume aqueous phase removed (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume aqueous phase treated (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume of aqueous phase to POTW (gal.) | 32,390 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume sludge treated (gal.) | 41,752 | 238,232 | 38,068 | 276,300 | 2,456 | 278,756 |
| Weight filter-cake off-site (tons) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate produced (gal.) | Unknown | 193,875 | 14,971 | 208,846 | 14,971 | 223,817 |
| | | by 15 Nov | | | | |
| Volume filtrate treated (gal.) | 25,451 | 33,727 | 19,795 | 53,522 | 5,656 | 59,178 |
| Volume filtrate to POTW (gal.) | 8,276 | 8,276 | 0 | 8,276 | 0 | 8,276 |
| Volume extraneous water present (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water treated (gal.) | 0 | 12,623 | 0 | 12,623 | 0 | 12,623 |
| Volume extraneous water to POTW (gal.) | 12,623 | 12,623 | 0 | 12,623 | 0 | 12,623 |

WEEKLY FIELD REPORT

TO: Mr. Robert E. Ivy, ARCO

FROM: Jonathan E. Brandes, GeoSyntec Consultants
Roger B. North, P.E., GeoSyntec Consultants

DATE: 8 December 1992

SUBJECT: 30 November to 6 December, Weekly Field Report
Sinclair Refinery Site Remediation
Wellsville, New York

The following key activities took place at the Sinclair Refinery Site, Wellsville, New York, during the week of 30 November to 6 December, 1992:

UNIT 1

- Deployed primary geotextile, TS700 on 1 December and TS1000 from 1 to 4 December, at north end CELA. This completes the geotextile layer over CELA. See attached figure and table below for quantities.
- Deployed gundseal and VLDPE at north end CELA from 30 November to 4 December. This completes the primary gundseal and VLDPE layers over CELA except for channel area. See attached figure and table below for quantities.
- Geocomposite drainage layer deployed from 30 November to 4 December to gridline N1050 (on east side of CELA). See attached figure and table below for quantities.
- Common fill imported from 30 November to 4 December and spread to approximately gridline N1050 (on east side of CELA). See attached figure and table below for quantities.

| Item | Quantity This Week | Cumulative Quantity |
|---|------------------------|------------------------|
| Gas Vent Stone (tons) | 0 (Completed) | 30,095 |
| CELA Geotextile (TS700) (ft ²) | 0 (Completed) | 1,037,218 |
| CELA Geotextile (TS700) (m ²) | 0 (Completed) | 96,358 |
| CELA Geotextile (TS1000) (ft ²) | 82,500 (Completed) | 100,700 |
| CELA Geotextile (TS1000) (m ²) | 7,667 (Completed) | 9,359 |
| VLDPE in Channel (ft ²) | 0 | 83,845 |
| VLDPE in Channel (m ²) | 0 | 7,792 |
| Gundseal in CELA (ft ²) | 142,800 (Completed) | 522,507 |
| Gundseal in CELA (m ²) | 13,271 (Completed) | 48,560 |
| VLDPE in CELA (ft ²) | 141,322 (Completed) | 535,276 |
| VLDPE in CELA (m ²) | 13,134 (Completed) | 49,747 |
| Geocomposite Layer (ft ²) | 109,440 | 372,210 |
| Geocomposite Layer (m ²) | 10,171 | 34,592 |
| Common Fill (tons) | 14,303 | 35,469 |

- VLDPE geomembrane destructive samples 31 to 38 taken on 30 November, samples 39 to 43 taken on 1 December, sample 44 taken on 2 December and samples 45 to 53 taken on 4 December.
- Received results for VLDPE geomembrane destructive samples 31 to 38 on 2 December and samples 39 to 43 on 3 December. All results

satisfactory.

- Received results for geotextile destructive samples 14 to 19 on 1 December and samples 20 to 25 on 3 December. All results satisfactory.
- Construction of boots around pipe penetrations continued.
- Pumping of water from the north temporary holding pond in SLA to the sanitary sewer, which leads directly to the POTW, started on 5 December. Maximum pumping rate permitted by POTW is 35 gpm.
- Attempt made to dewater sand layer component of east CELA perimeter channel on 2 December, but not completed. Sumps excavated alongside perforated pipe and pumped. However, pump only operational intermittently and the task was not completed. Sand layer partially covered by polythene.
- Received data package (11 volumes) from Law Environmental Inc. for Refinery Surface Soil Cleanup (RSSC) samples taken by GeoSyntec Consultants. Copy of data package also sent to RMC Environmental Services for validation.
- No weekly progress meeting held this week.

UNIT 2, SEPARATOR

- Received treated filtrate analytical results from east 30,000 gal. modutank on 1 December, and from west 30,000 gal. modutank on 4 December; represents fifth and sixth tankfuls of treated filtrate acceptable for discharge to POTW.
- Discharged, into POTW sanitary sewer line, treated filtrate from east 30,000 gal. modutank on 1 December and treated filtrate from west 30,000 gal. modutank on 4 December. See attached table for quantities.
- 24 hour treatment of filtrate into east 30,000 gal. modutank started on 1 December; completed and sampled on 4 December.

Represents seventh 30,000 gal. tankful of treated water tested. 24 hour treatment of filtrate into west 30,000 gal. modutank started on 4 December. See attached table for quantities.

- Continued steam cleaning debris in separator cells that have had sludge removed. Work being performed in level C protection.
- Used vacuum "Guzzler" truck on 2, 3, and 4 December to remove sludge covered material, such as rocks and small debris, from bottom of Separator cells which can neither be removed by the filter press pump nor steam cleaned in place. Free draining liquid decanted from vacuum truck and added to filtrate in modutank; sludge and sludge covered debris placed in roll-off.
- Sand-blasting of Separator walls and floors continued throughout week. Six cells completed by 29 November. Work being performed in level B. Used sand removed from Separator by vacuum truck and mixed with sludge covered debris in two roll-off boxes for off-site disposal.
- Second sand-blasting unit mobilized to site on 4 December.
- No weekly progress meeting held this week.

UNIT 2, POWERHOUSE

- No activity.

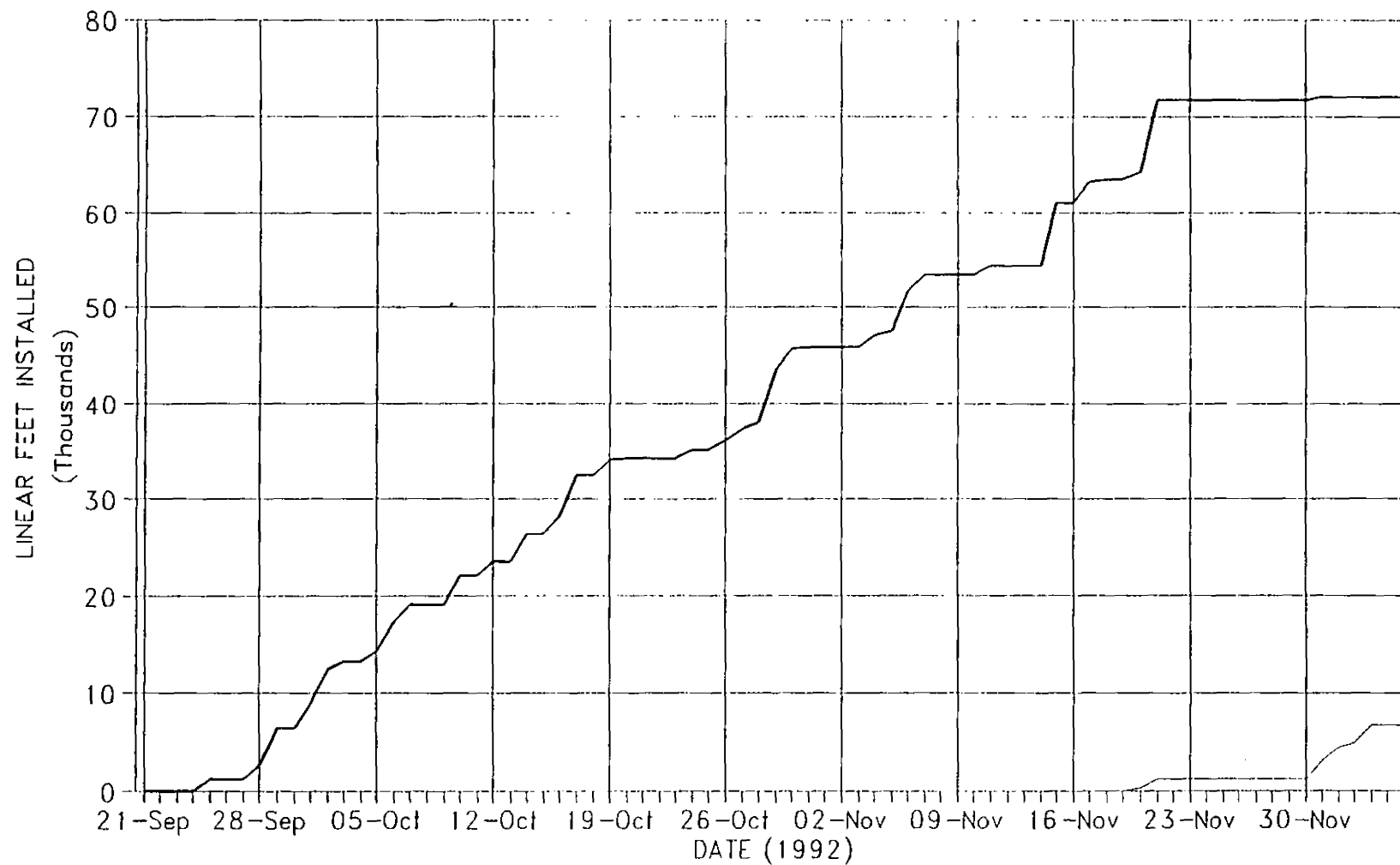
* * * * *

Attachment

Copy to: D. A. Christensen, P.E., ARCO
D. E. Grooms, ARCO
J. K. Kimura, ARCO
M. Hrywnak, COE
Dr. J. F. Beech, P.E., GeoSyntec Consultants
J. G. Fox, P.G., GeoSyntec Consultants

SINCLAIR REFINERY CELA CAP

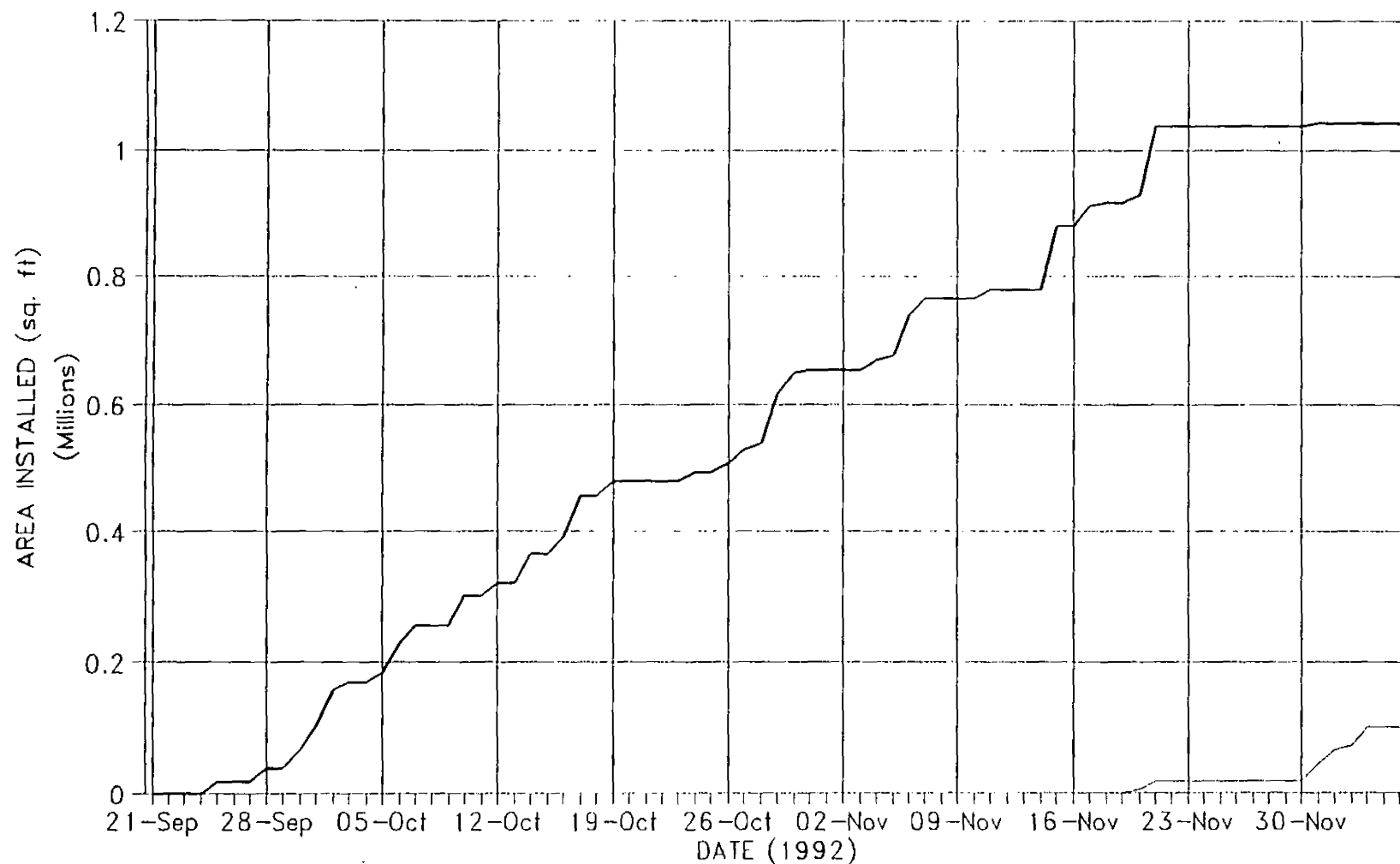
LINEAR FEET OF GEOTEXTILE INSTALLED



— TS700 POLYFELT — TS1000 POLYFELT

SINCLAIR REFINERY CELA CAP

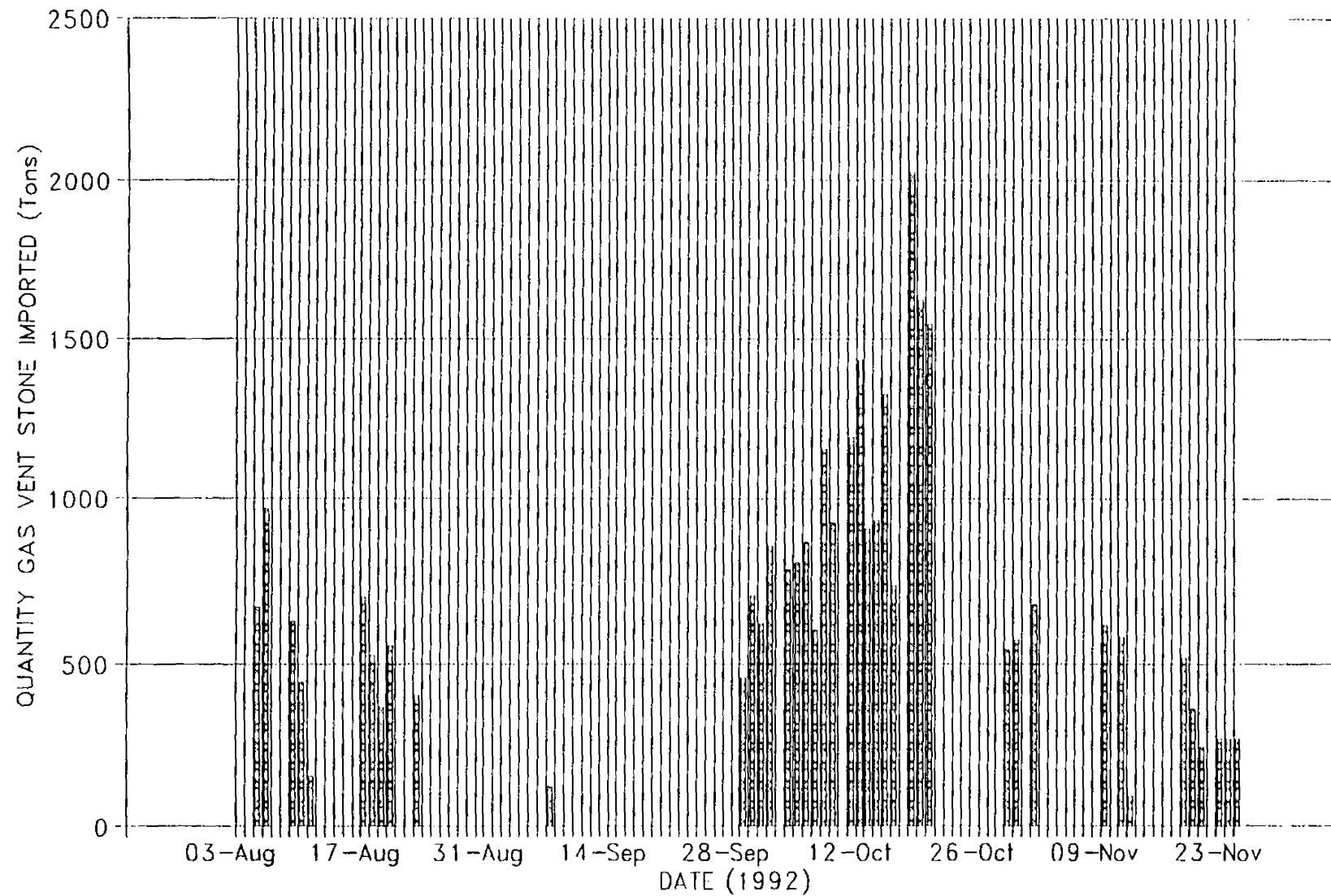
AREA OF GEOTEXTILE INSTALLED



— TS700 POLYFELT — TS1000 POLYFELT

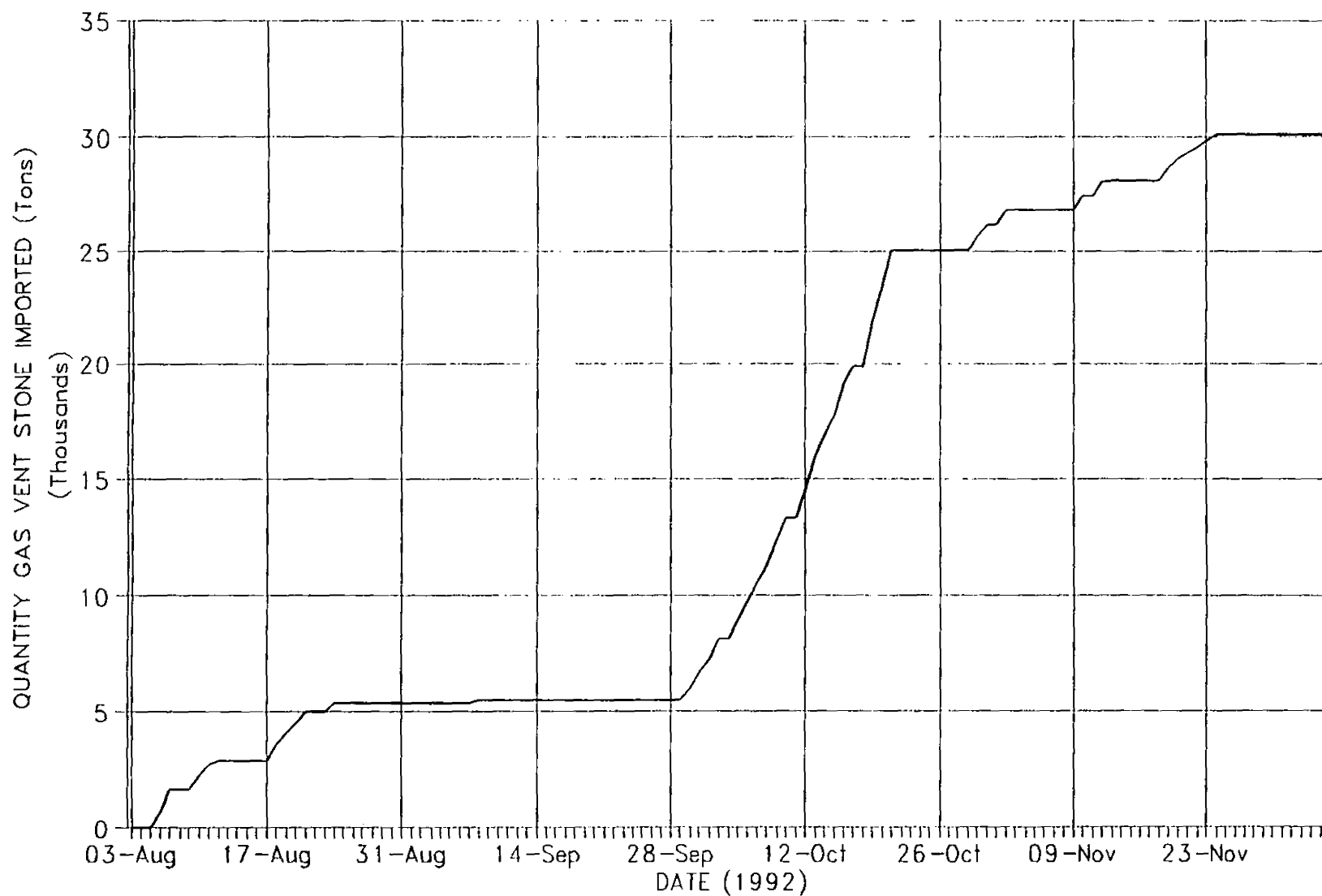
SINCLAIR REFINERY CELA CAP

DAILY QUANTITY GAS VENT STONE IMPORTED



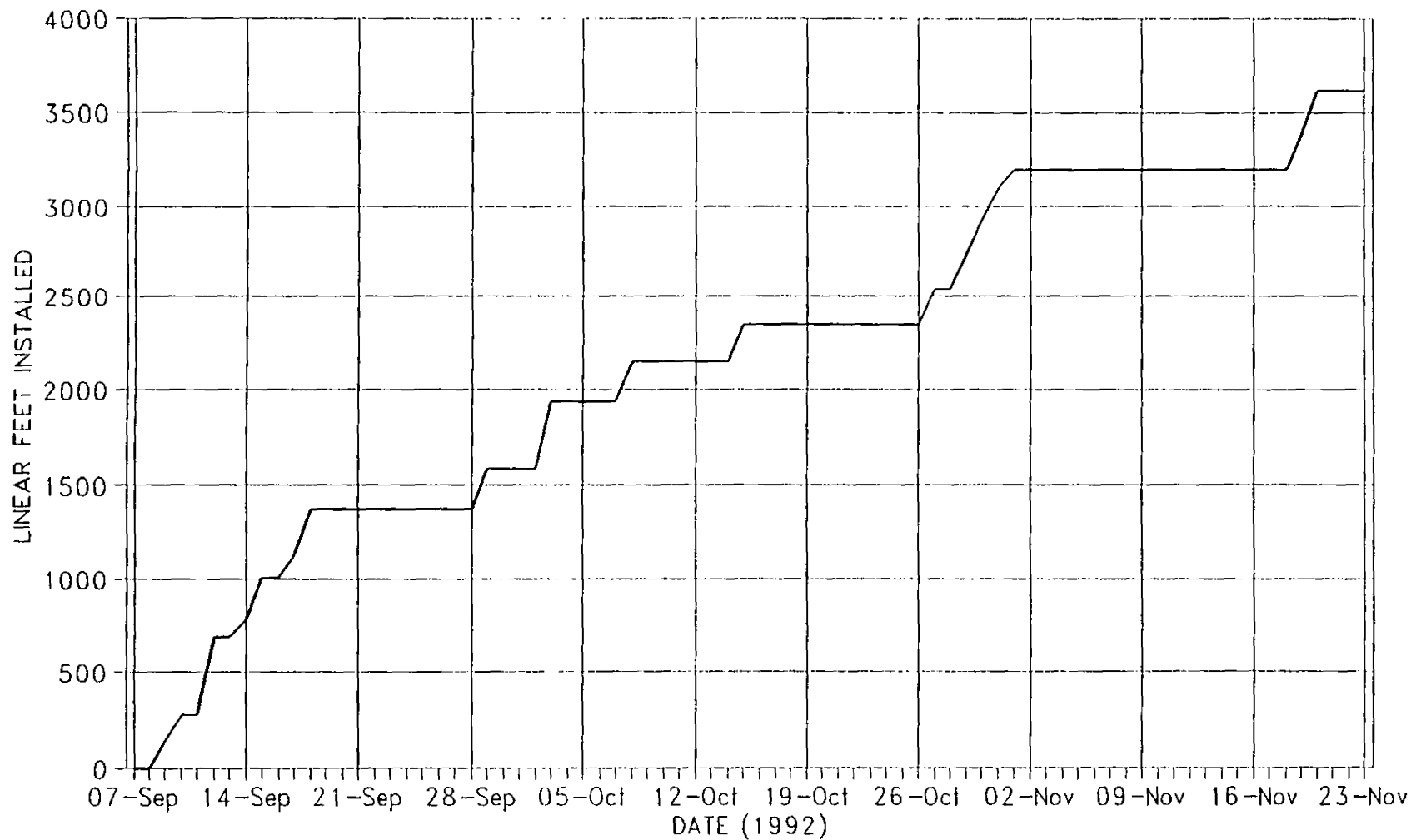
SINCLAIR REFINERY CELA CAP

TOTAL QUANTITY GAS VENT STONE IMPORTED



SINCLAIR REFINERY CELA CAP

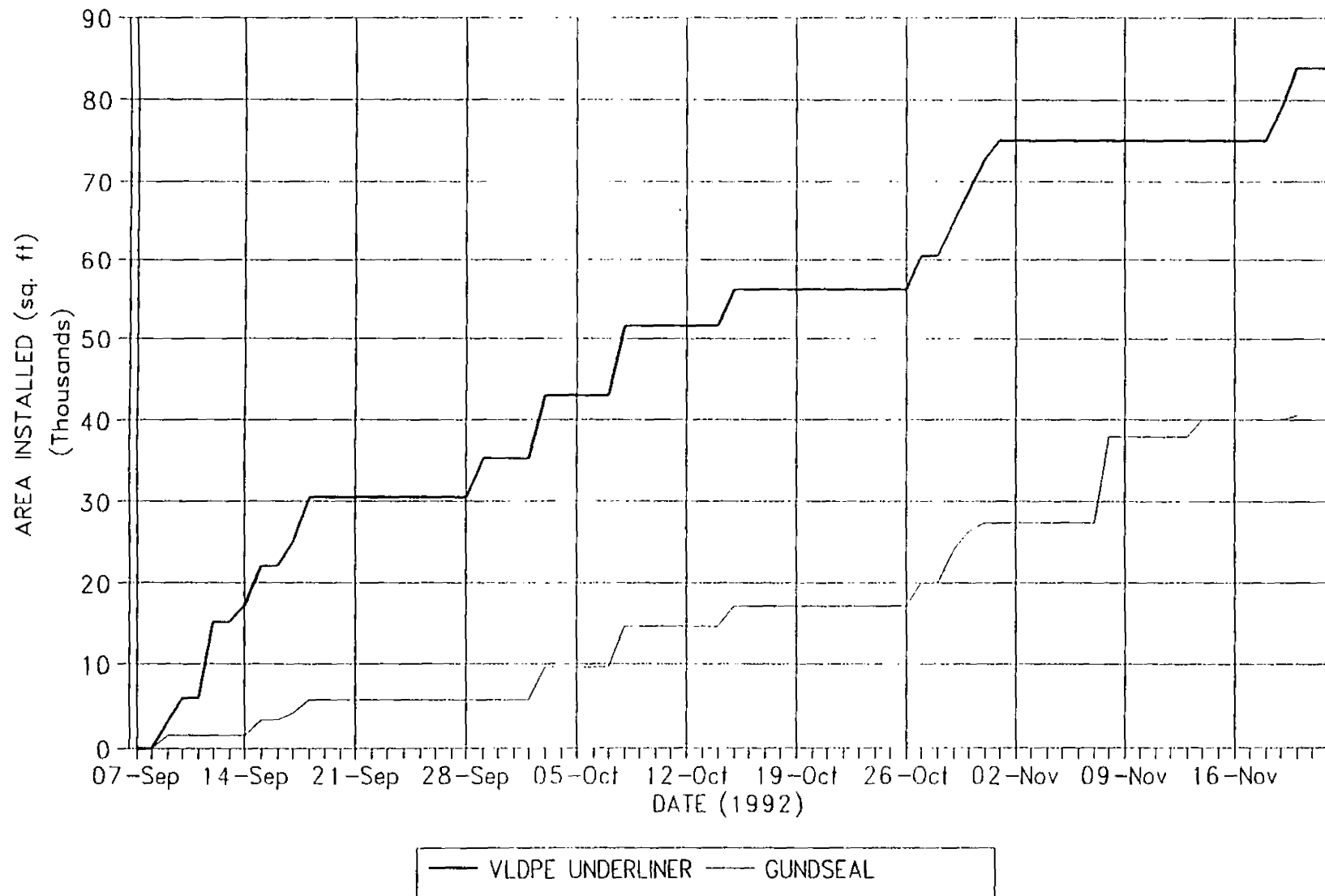
LINEAR FT OF VLDPE UNDERLINER INSTALLED



— VLDPE UNDERLINER

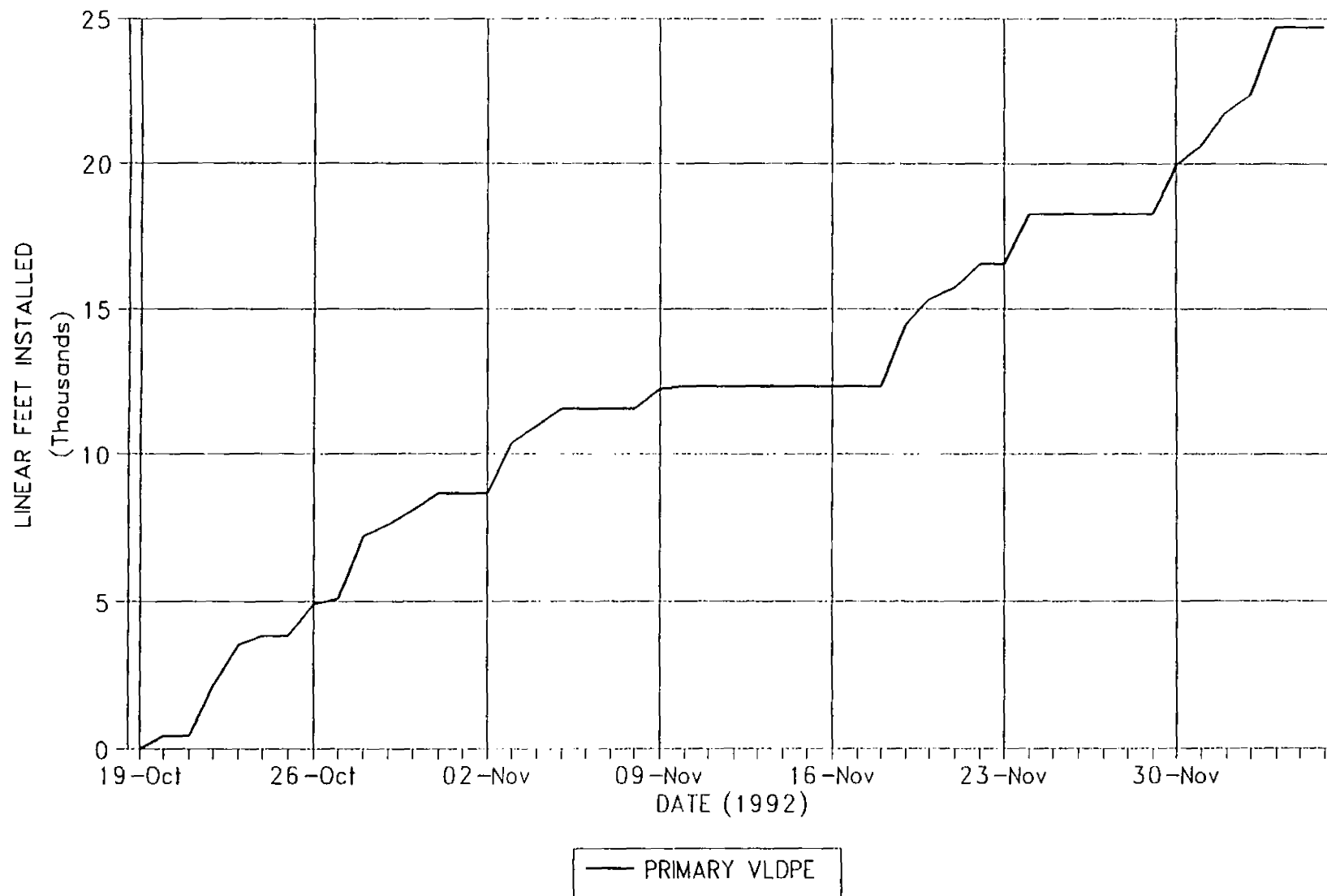
SINCLAIR REFINERY CELA CAP

AREA OF UNDERLINER MATERIALS INSTALLED



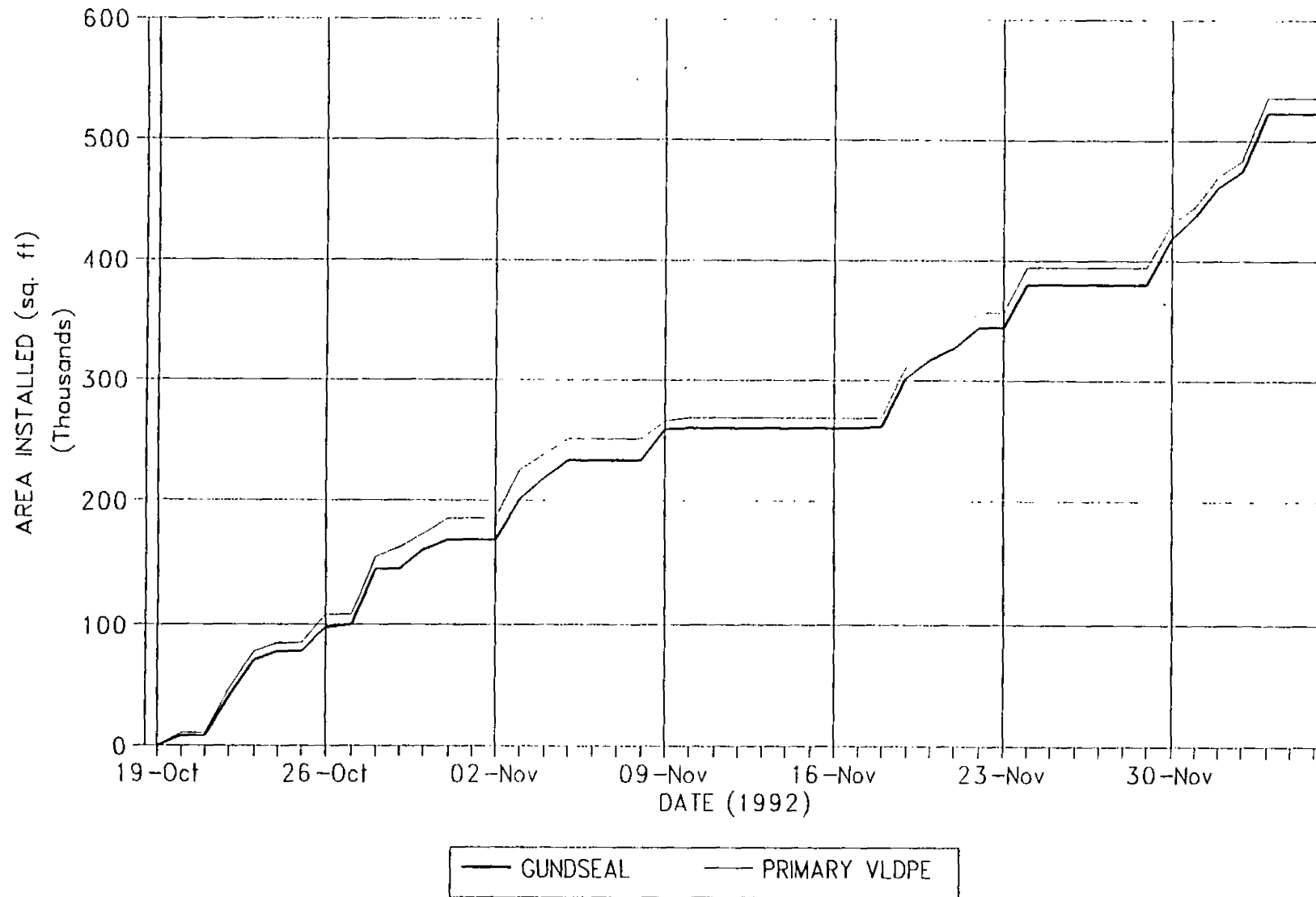
SINCLAIR REFINERY CELA CAP

LINEAR FT OF PRIMARY VLDPE INSTALLED



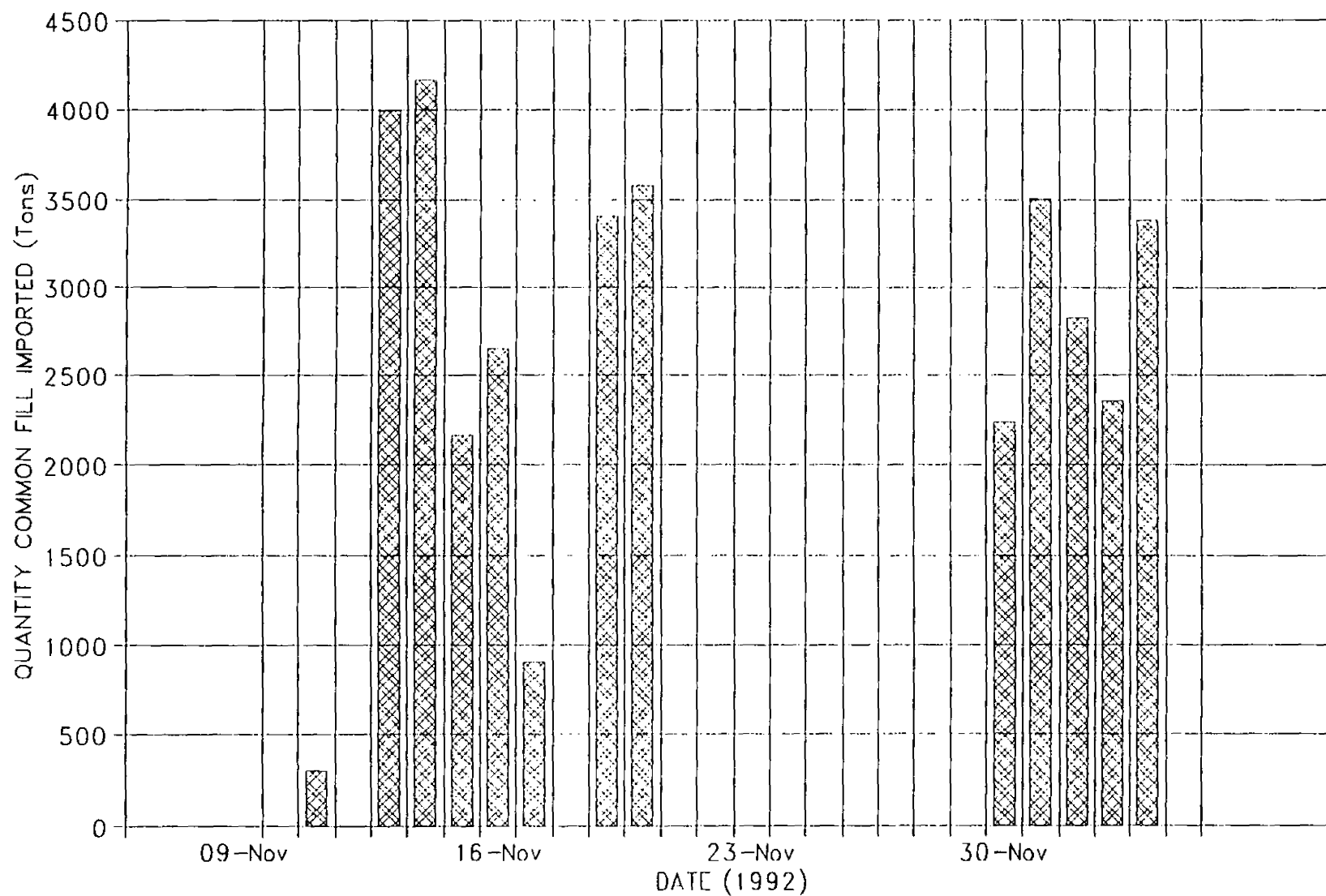
SINCLAIR REFINERY CELA CAP

AREAS OF MATERIALS INSTALLED



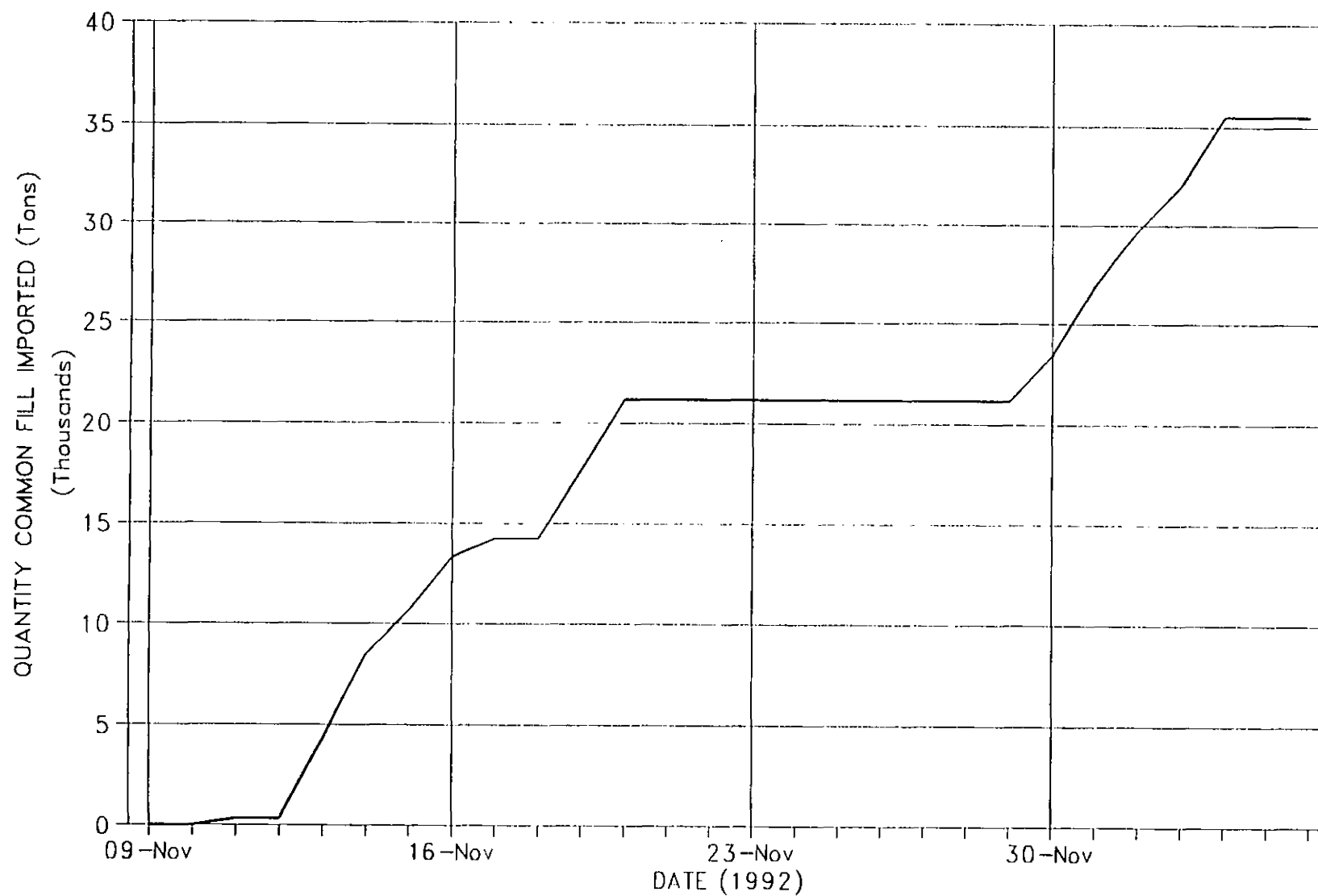
SINCLAIR REFINERY CELA CAP

DAILY QUANTITY COMMON FILL IMPORTED



SINCLAIR REFINERY CELA CAP

TOTAL QUANTITY COMMON FILL IMPORTED



SINCLAIR REFINERY, WELLSVILLE, NEW YORK

UNIT 2, SEPARATOR REMEDIATION

| ITEM | W/E 4 OCTOBER WEEK | TOTAL | W/E 11 OCTOBER WEEK | TOTAL | W/E 18 OCTOBER WEEK | TOTAL |
|--|-----------------------|--------|------------------------|---------|------------------------|---------|
| Volume aqueous phase removed (gal.) | 49,500 | 49,500 | 0 | 49,500 | 32,500 | 82,000 |
| Volume aqueous phase treated (gal.) | 0 | 0 | 20,000 | 20,000 | 16,400 | 36,400 |
| Volume of aqueous phase to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume sludge treated (gal.) | 0 | 0 | 29,472 | 29,472 | 31,928 | 61,400 |
| Weight filter-cake off-site (tons) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate produced (gal.) | 0 | 0 | Unknown | Unknown | Unknown | Unknown |
| Volume filtrate treated (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water present (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water treated (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |

| ITEM | W/E 25 OCTOBER WEEK | TOTAL | W/E 1 NOVEMBER WEEK | TOTAL | W/E 8 NOVEMBER WEEK | TOTAL |
|--|------------------------|---------|------------------------|---------------------|------------------------|---------------------|
| Volume aqueous phase removed (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume aqueous phase treated (gal.) | 13,210 | 49,610 | 26,954 | 76,564 | 5,436 | 82,000 |
| Volume of aqueous phase to POTW (gal.) | 0 | 0 | 23,362 | 23,362 | 26,248 | 49,610 |
| Volume sludge treated (gal.) | 51,576 | 112,976 | 34,384 | 147,360 | 49,120 | 196,480 |
| Weight filter-cake off-site (tons) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate produced (gal.) | Unknown | Unknown | Unknown | 88,610 by 29 Oct | Unknown | 140,999 by 6 Nov |
| Volume filtrate treated (gal.) | 0 | 0 | 0 | 0 | 8,276 | 8,276 |
| Volume filtrate to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water present (gal.) | 0 | 0 | 12,623 | 12,623 | 0 | 0 |
| Volume extraneous water treated (gal.) | 0 | 0 | 0 | 0 | 12,623 | 12,623 |
| Volume extraneous water to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |

SINCLAIR REFINERY, WELLSVILLE, NEW YORK

UNIT 2, SEPARATOR REMEDIATION

| ITEM | W/E 15 WEEK | NOVEMBER TOTAL | W/E 22 WEEK | NOVEMBER TOTAL | W/E 29 WEEK | NOVEMBER TOTAL |
|--|----------------|-------------------|----------------|-------------------|----------------|-------------------|
| Volume aqueous phase removed (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume aqueous phase treated (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume of aqueous phase to POTW (gal.) | 32,390 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume sludge treated (gal.) | 41,752 | 238,232 | 38,068 | 276,300 | 5,912 | 282,212 |
| Weight filter-cake off-site (tons) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate produced (gal.) | Unknown | 193,875 | 14,971 | 208,846 | 14,971 | 223,817 |
| | | by 15 Nov | | | | |
| Volume filtrate treated (gal.) | 25,451 | 33,727 | 19,795 | 53,522 | 5,656 | 59,178 |
| Volume filtrate to POTW (gal.) | 8,276 | 8,276 | 0 | 8,276 | 0 | 8,276 |
| Volume extraneous water present (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water treated (gal.) | 0 | 12,623 | 0 | 12,623 | 0 | 12,623 |
| Volume extraneous water to POTW (gal.) | 12,623 | 12,623 | 0 | 12,623 | 0 | 12,623 |

| ITEM | W/E 6 WEEK | DECEMBER TOTAL |
|--|---------------|-------------------|
| Volume aqueous phase removed (gal.) | 0 | 82,000 |
| Volume aqueous phase treated (gal.) | 0 | 82,000 |
| Volume of aqueous phase to POTW (gal.) | 0 | 82,000 |
| Volume sludge treated (gal.) | 0 | 282,212 |
| Weight filter-cake off-site (tons) | 0 | 0 |
| Volume filtrate produced (gal.) | 2,579 | 226,396 |
| Volume filtrate treated (gal.) | 53,023 | 112,201 |
| Volume filtrate to POTW (gal.) | 50,902 | 59,178 |
| Volume extraneous water present (gal.) | 0 | 0 |
| Volume extraneous water treated (gal.) | 0 | 12,623 |
| Volume extraneous water to POTW (gal.) | 0 | 12,623 |

WEEKLY FIELD REPORT

TO: Mr. Robert E. Ivy, ARCO

FROM: Jonathan E. Brandes, GeoSyntec Consultants *JEB*
Roger B. North, P.E., GeoSyntec Consultants *RBN*

DATE: 18 December 1992

SUBJECT: 7 to 13 December, Weekly Field Report
Sinclair Refinery Site Remediation
Wellsville, New York

The following key activities took place at the Sinclair Refinery Site, Wellsville, New York, during the week of 7 to 13 December, 1992:

UNIT 1

- Geocomposite drainage layer deployed from 8 to 10 December on north and west sides of CELA. See table below for quantities.
- Common fill imported from 7 to 9 December, spread and stock plied at north end of CELA. See table below for quantities.

| Item | Quantity This Week | Cumulative Quantity |
|---|-----------------------|------------------------|
| Gas Vent Stone (tons) | 0 (Completed) | 30,095 |
| CELA Geotextile (TS700) (ft ²) | 0 (Completed) | 1,037,218 |
| CELA Geotextile (TS700) (m ²) | 0 (Completed) | 96,358 |
| CELA Geotextile (TS1000) (ft ²) | 0 (Completed) | 100,700 |

| Item | Quantity This Week | Cumulative Quantity |
|--|-----------------------|------------------------|
| CELA Geotextile (TS1000) (m ²) | 0 (Completed) | 9,359 |
| VLDPE in Channel (ft ²) | 0 | 83,845 |
| VLDPE in Channel (m ²) | 0 | 7,792 |
| Gundseal in CELA (ft ²) | 0 | 522,507 |
| Gundseal in CELA (m ²) | 0 | 48,560 |
| VLDPE in CELA (ft ²) | 0 | 535,276 |
| VLDPE in CELA (m ²) | 0 | 49,747 |
| Geocomposite Layer (ft ²) | 46,740 | 418,950 |
| Geocomposite Layer (m ²) | 4,343 | 38,936 |
| Common Fill (tons) | 7,707 | 43,176 |

- VLDPE geomembrane destructive samples 54 to 74 taken throughout week.
- Received results for VLDPE geomembrane destructive samples 44 to 53 on 9 December and samples 72 to 74 on 10 December. All results satisfactory.
- VLDPE geomembrane repair work continued throughout week.
- Construction of boots around pipe penetrations continued.
- Pumping of water from the north temporary holding pond in SLA to the sanitary sewer, which leads directly to the POTW, continued throughout week. Maximum pumping rate permitted by POTW is 35 gpm.

- Heavy snow fall on 10, 11, and 12 December, no site activities from 11 to 13 December.
- Soil sample taken from west dike for pH analysis as part of Partial River Channelization O&M Plan annual inspection on 8 December. Samples sent to Law Environmental, Inc., Pensacola, for analysis.
- Submittals reviewed for:
 - Shop drawing of cap layout (28WP04 addendum 1)
 - Gas vent stone source compliance tests (28QC04 addendum 25)
 - Contractor QC management plan VLDPE testing lab (28QC01 add. 1)
- No weekly progress meeting held this week.
- Monthly meeting held on 11 December.

UNIT 2, SEPARATOR

- Sampled filtercake from 29 roll-off boxes and sludge covered sand and debris from 3 roll-off boxes on 10 December. Samples sent to Law Environmental, Inc., Pensacola, for analysis.
- 24 hour treatment of filtrate into west 30,000 gal. modutank completed and sampled on 7 December. Represents eighth 30,000 gal. tankful of treated water tested. See attached table for quantities.
- Sand-blasting of Separator walls and floors continued throughout week using two sandblasters. Work being performed in level B. Sand removed from Separator by vacuum truck and mixed with sludge covered debris in two roll-off boxes for off-site disposal.
- Second concrete chip sample taken from south wall of west cell of north train of Separator on 8 December. Sample sent to General

Testing Corporation, Rochester, for analysis.

- Continued steam cleaning debris in separator cells that have had sludge removed.
- No weekly progress meeting held this week.
- Monthly meeting held on 10 December.

UNIT 2, POWERHOUSE

- No activity.

* * * * *

Attachment

Copy to: D. A. Christensen, P.E., ARCO
D. E. Grooms, ARCO
J. K. Kimura, ARCO
M. Hrywnak, COE
Dr. J. F. Beech, P.E., GeoSyntec Consultants
Lynn B. Macdonald, Morrison Knudsen Corporation

SINCLAIR REFINERY, WELLSVILLE, NEW YORK

UNIT 2, SEPARATOR REMEDIATION

| ITEM | W/E 4 OCTOBER WEEK | TOTAL | W/E 11 OCTOBER WEEK | TOTAL | W/E 18 OCTOBER WEEK | TOTAL |
|--|-----------------------|--------|------------------------|---------|------------------------|---------|
| Volume aqueous phase removed (gal.) | 49,500 | 49,500 | 0 | 49,500 | 32,500 | 82,000 |
| Volume aqueous phase treated (gal.) | 0 | 0 | 20,000 | 20,000 | 16,400 | 36,400 |
| Volume of aqueous phase to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume sludge treated (gal.) | 0 | 0 | 29,472 | 29,472 | 31,928 | 61,400 |
| Weight filter-cake off-site (tons) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate produced (gal.) | 0 | 0 | Unknown | Unknown | Unknown | Unknown |
| Volume filtrate treated (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water present (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water treated (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |

| ITEM | W/E 25 OCTOBER WEEK | TOTAL | W/E 1 NOVEMBER WEEK | TOTAL | W/E 8 NOVEMBER WEEK | TOTAL |
|--|------------------------|---------|------------------------|---------------------|------------------------|---------------------|
| Volume aqueous phase removed (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume aqueous phase treated (gal.) | 13,210 | 49,610 | 26,954 | 76,564 | 5,436 | 82,000 |
| Volume of aqueous phase to POTW (gal.) | 0 | 0 | 23,362 | 23,362 | 26,248 | 49,610 |
| Volume sludge treated (gal.) | 51,576 | 112,976 | 34,384 | 147,360 | 49,120 | 196,480 |
| Weight filter-cake off-site (tons) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate produced (gal.) | Unknown | Unknown | Unknown | 88,610 by 29 Oct | Unknown | 140,999 by 6 Nov |
| Volume filtrate treated (gal.) | 0 | 0 | 0 | 0 | 8,276 | 8,276 |
| Volume filtrate to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water present (gal.) | 0 | 0 | 12,623 | 12,623 | 0 | 0 |
| Volume extraneous water treated (gal.) | 0 | 0 | 0 | 0 | 12,623 | 12,623 |
| Volume extraneous water to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |

SINCLAIR REFINERY, WELLSVILLE, NEW YORK

UNIT 2, SEPARATOR REMEDIATION

| ITEM | W/E 15 WEEK | NOVEMBER TOTAL | W/E 22 WEEK | NOVEMBER TOTAL | W/E 29 WEEK | NOVEMBER TOTAL |
|--|----------------|-------------------|----------------|-------------------|----------------|-------------------|
| Volume aqueous phase removed (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume aqueous phase treated (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume of aqueous phase to POTW (gal.) | 32,390 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume sludge treated (gal.) | 41,752 | 238,232 | 38,068 | 276,300 | 5,912 | 282,212 |
| Weight filter-cake off-site (tons) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate produced (gal.) | Unknown | 193,875 | 14,971 | 208,846 | 14,971 | 223,817 |
| | | by 15 Nov | | | | |
| Volume filtrate treated (gal.) | 25,451 | 33,727 | 19,795 | 53,522 | 5,656 | 59,178 |
| Volume filtrate to POTW (gal.) | 8,276 | 8,276 | 0 | 8,276 | 0 | 8,276 |
| Volume extraneous water present (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water treated (gal.) | 0 | 12,623 | 0 | 12,623 | 0 | 12,623 |
| Volume extraneous water to POTW (gal.) | 12,623 | 12,623 | 0 | 12,623 | 0 | 12,623 |

| ITEM | W/E 6 WEEK | DECEMBER TOTAL | W/E 13 WEEK | DECEMBER TOTAL |
|--|---------------|-------------------|----------------|-------------------|
| Volume aqueous phase removed (gal.) | 0 | 82,000 | 0 | 82,000 |
| Volume aqueous phase treated (gal.) | 0 | 82,000 | 0 | 82,000 |
| Volume of aqueous phase to POTW (gal.) | 0 | 82,000 | 0 | 82,000 |
| Volume sludge treated (gal.) | 0 | 282,212 | 0 | 282,212 |
| Weight filter-cake off-site (tons) | 0 | 0 | 0 | 0 |
| Volume filtrate produced (gal.) | 2,579 | 226,396 | 7,445 | 233,841 |
| Volume filtrate treated (gal.) | 53,023 | 112,201 | 0 | 112,201 |
| Volume filtrate to POTW (gal.) | 50,902 | 59,178 | 0 | 59,178 |
| Volume extraneous water present (gal.) | 0 | 0 | 0 | 0 |
| Volume extraneous water treated (gal.) | 0 | 12,623 | 0 | 12,623 |
| Volume extraneous water to POTW (gal.) | 0 | 12,623 | 0 | 12,623 |

WEEKLY FIELD REPORT

TO: Mr. Robert E. Ivy, ARCO

FROM: Jonathan E. Brandes, GeoSyntec Consultants JEB

DATE: 5 January 1993

SUBJECT: 14 to 20 December, Weekly Field Report
Sinclair Refinery Site Remediation
Wellsville, New York

The following key activities took place at the Sinclair Refinery Site, Wellsville, New York, during the week of 14 to 20 December, 1992:

UNIT 1

- Geocomposite drainage layer deployed from 14 to 18 December after snow removed from VLDPE. See table below for quantities.
- Stock piled common fill spread on CELA from 15 to 19 December. See table below for quantities.

| Item | Quantity This Week | Cumulative Quantity |
|---|-----------------------|------------------------|
| Gas Vent Stone (tons) | 0 (Completed) | 30,095 |
| CELA Geotextile (TS700) (ft ²) | 0 (Completed) | 1,037,218 |
| CELA Geotextile (TS700) (m ²) | 0 (Completed) | 96,358 |
| CELA Geotextile (TS1000) (ft ²) | 0 (Completed) | 100,700 |
| CELA Geotextile (TS1000) (m ²) | 0 (Completed) | 9,359 |

| Item | Quantity This Week | Cumulative Quantity |
|---------------------------------------|-----------------------|------------------------|
| VLDPE in Channel (ft ²) | 0 | 83,845 |
| VLDPE in Channel (m ²) | 0 | 7,792 |
| Gundseal in CELA (ft ²) | 1,625 | 524,132 |
| Gundseal in CELA (m ²) | 151 | 48,711 |
| VLDPE in CELA (ft ²) | 1,375 | 536,651 |
| VLDPE in CELA (m ²) | 128 | 49,875 |
| Geocomposite Layer (ft ²) | 96,330 | 515,280 |
| Geocomposite Layer (m ²) | 8,953 | 47,888 |
| Common Fill (tons) | 0 | 43,176 |

- VLDPE geomembrane and gundseal deployed at northeast end of CELA on 19 December. See table above for quantities.
- Received results for VLDPE geomembrane destructive samples 54 to 71 on 14 December. All results satisfactory.
- VLDPE geomembrane repair work continued on 14 and 18 December.
- Construction of boot around power pole started on 19 December.
- Development of monitoring wells restarted on 15 December and completed on 17 December.
- Development of Piezometers started on 17 December and completed on 18 December. P-6 was not developed because it contains free product.

- Installed silt and sediment control structures at north end culvert inlet and outlet, and at end of valleys on CELA from 15 to 18 December.
- Removed dike in front of north end culvert to allow runoff to flow off-site on 16 December.
- Severson's vacuum truck mobilized to assist in snow removal from VLDPE on 15 December.
- Pumping of water from the north temporary holding pond in SLA to the sanitary sewer, which leads directly to the POTW, continued throughout week. Maximum pumping rate permitted by POTW is 35 gpm.
- Fence materials delivered to site on 15 December.
- Submittals reviewed for:
 - Winter shut down plan (28SD01)
 - Submittal register (28SR01 addendum 5)
 - Certificates of compliance 60 mil VLDPE (28QC04 addendum 26)
- No weekly progress meeting held this week.

UNIT 2, SEPARATOR

- Received treated filtrate analytical results from east and west 30,000 gal. Modutanks on 14 December, Represents Seventh and eighth tankfuls of treated water acceptable for discharge to POTW.
- Discharged, into POTW sanitary sewer line, treated filtrate from east and west 30,000 gal. Modutanks on 14 December. See attached table for quantities.

- 24 hour treatment of filtrate into east 30,000 gal. Modutank started on 14 December, completed and sampled on 16 December. Represents ninth 30,000 gal. tankful of treated water sampled. See attached table for quantities.
- 24 hour treatment of filtrate into west 30,000 gal. Modutank started on 16 December, completed and sampled on 18 December. Represents tenth 30,000 gal. tankful of treated water sampled. See attached table for quantities.
- Sand-blasting of Separator walls and floors continued throughout week using two sandblasters. Work being performed in level B. Sand removed from Separator by vacuum truck and placed in roll-off boxes for off-site disposal.
- Third concrete chip sample taken from west wall of west cell of south train of Separator on 14 December. Sample sent to General Testing Corporation, Rochester, for analysis.
- No weekly progress meeting held this week.

UNIT 2, POWERHOUSE

- No activity.

* * * * *

Attachment

Copy to: D. A. Christensen, P.E., ARCO
D. E. Grooms, ARCO
J. K. Kimura, ARCO
M. Hrywnak, COE
Dr. J. F. Beech, P.E., GeoSyntec Consultants
Lynn B. Macdonald, Morrison Knudsen Corporation

SINCLAIR REFINERY, WELLSVILLE, NEW YORK

UNIT 2, SEPARATOR REMEDIATION

| ITEM | W/E 4 OCTOBER WEEK | TOTAL | W/E 11 OCTOBER WEEK | TOTAL | W/E 18 OCTOBER WEEK | TOTAL |
|--|-----------------------|--------|------------------------|---------|------------------------|---------|
| Volume aqueous phase removed (gal.) | 49,500 | 49,500 | 0 | 49,500 | 32,500 | 82,000 |
| Volume aqueous phase treated (gal.) | 0 | 0 | 20,000 | 20,000 | 16,400 | 36,400 |
| Volume of aqueous phase to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume sludge treated (gal.) | 0 | 0 | 29,472 | 29,472 | 31,928 | 61,400 |
| Weight filter-cake off-site (tons) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate produced (gal.) | 0 | 0 | Unknown | Unknown | Unknown | Unknown |
| Volume filtrate treated (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water present (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water treated (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |

| ITEM | W/E 25 OCTOBER WEEK | TOTAL | W/E 1 NOVEMBER WEEK | TOTAL | W/E 8 NOVEMBER WEEK | TOTAL |
|--|------------------------|---------|------------------------|---------------------|------------------------|---------------------|
| Volume aqueous phase removed (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume aqueous phase treated (gal.) | 13,210 | 49,610 | 26,954 | 76,564 | 5,436 | 82,000 |
| Volume of aqueous phase to POTW (gal.) | 0 | 0 | 23,362 | 23,362 | 26,248 | 49,610 |
| Volume sludge treated (gal.) | 51,576 | 112,976 | 34,384 | 147,360 | 49,120 | 196,480 |
| Weight filter-cake off-site (tons) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate produced (gal.) | Unknown | Unknown | Unknown | 88,610 by 29 Oct | Unknown | 140,999 by 6 Nov |
| Volume filtrate treated (gal.) | 0 | 0 | 0 | 0 | 8,276 | 8,276 |
| Volume filtrate to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water present (gal.) | 0 | 0 | 12,623 | 12,623 | 0 | 0 |
| Volume extraneous water treated (gal.) | 0 | 0 | 0 | 0 | 12,623 | 12,623 |
| Volume extraneous water to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |

SINCLAIR REFINERY, WELLSVILLE, NEW YORK

UNIT 2, SEPARATOR REMEDIATION

| ITEM | W/E 15 WEEK | NOVEMBER TOTAL | W/E 22 WEEK | NOVEMBER TOTAL | W/E 29 WEEK | NOVEMBER TOTAL |
|--|----------------|-------------------|----------------|-------------------|----------------|-------------------|
| Volume aqueous phase removed (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume aqueous phase treated (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume of aqueous phase to POTW (gal.) | 32,390 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume sludge treated (gal.) | 41,752 | 238,232 | 38,068 | 276,300 | 5,912 | 282,212 |
| Weight filter-cake off-site (tons) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate produced (gal.) | Unknown | 193,875 | 14,971 | 208,846 | 14,971 | 223,817 |
| | | by 15 Nov | | | | |
| Volume filtrate treated (gal.) | 25,451 | 33,727 | 19,795 | 53,522 | 5,656 | 59,178 |
| Volume filtrate to POTW (gal.) | 8,276 | 8,276 | 0 | 8,276 | 0 | 8,276 |
| Volume extraneous water present (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water treated (gal.) | 0 | 12,623 | 0 | 12,623 | 0 | 12,623 |
| Volume extraneous water to POTW (gal.) | 12,623 | 12,623 | 0 | 12,623 | 0 | 12,623 |

| ITEM | W/E 6 WEEK | DECEMBER TOTAL | W/E 13 WEEK | DECEMBER TOTAL | W/E 20 WEEK | DECEMBER TOTAL |
|--|---------------|-------------------|----------------|-------------------|----------------|-------------------|
| Volume aqueous phase removed (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume aqueous phase treated (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume of aqueous phase to POTW (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume sludge treated (gal.) | 0 | 282,212 | 0 | 282,212 | 0 | 282,212 |
| Weight filter-cake off-site (tons) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate produced (gal.) | 2,579 | 226,396 | 7,445 | 233,841 | 0 | 233,841 |
| Volume filtrate treated (gal.) | 53,023 | 112,201 | 0 | 112,201 | 50,902 | 163,103 |
| Volume filtrate to POTW (gal.) | 50,902 | 59,178 | 0 | 59,178 | 53,023 | 112,201 |
| Volume extraneous water present (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water treated (gal.) | 0 | 12,623 | 0 | 12,623 | 0 | 12,623 |
| Volume extraneous water to POTW (gal.) | 0 | 12,623 | 0 | 12,623 | 0 | 12,623 |

WEEKLY FIELD REPORT

TO: Mr. Robert E. Ivy, ARCO

FROM: Roger B. North, P.E., GeoSyntec Consultants RBN
Jonathan E. Brandes, GeoSyntec Consultants JEB

DATE: 7 January 1993

SUBJECT: 21 to 27 December, Weekly Field Report
Sinclair Refinery Site Remediation
Wellsville, New York

The following key activities took place at the Sinclair Refinery Site, Wellsville, New York, during the week of 21 to 27 December, 1992:

UNIT 1

- Geocomposite drainage layer deployed on 21 December after snow removed from VLDPE. See table below for quantities.
- Common fill imported and spread on CELA on 21 and 22 December. See table below for quantities.

| Item | Quantity This Week | Cumulative Quantity |
|---|-----------------------|------------------------|
| Gas Vent Stone (tons) | 0 (Completed) | 30,095 |
| CELA Geotextile (TS700) (ft ²) | 0 (Completed) | 1,042,618 |
| CELA Geotextile (TS700) (m ²) | 0 (Completed) | 96,898 |
| CELA Geotextile (TS1000) (ft ²) | 0 | 100,700 |
| CELA Geotextile (TS1000) (m ²) | 0 | 9,359 |

| Item | Quantity This Week | Cumulative Quantity |
|---------------------------------------|-----------------------|------------------------|
| VLDPE in Channel (ft ²) | 0 | 83,845 |
| VLDPE in Channel (m ²) | 0 | 7,792 |
| Gundseal in CELA (ft ²) | 0 | 524,132 |
| Gundseal in CELA (m ²) | 0 | 48,711 |
| VLDPE in CELA (ft ²) | 0 | 536,651 |
| VLDPE in CELA (m ²) | 0 | 49,875 |
| Geocomposite Layer (ft ²) | 2,850 | 518,130 |
| Geocomposite Layer (m ²) | 265 | 48,153 |
| Common Fill (tons) | 2,527 | 45,703 |

- Construction of VLDPE boot around power pole completed on 21 December. Installation of geocomposite portion around boot not completed.
- Installed additional silt and sediment control structures in drainage channel at north end of CELA on 21 December.
- Prepared 25 temporary settlement monitoring points at proposed permanent settlement plate locations on 21 December. Elevations of temporary settlement monitoring points surveyed on 22 December.
- Due to frozen discharge line, no water was pumped from the temporary holding ponds in SLA to the sanitary sewer, which leads directly to the POTW, until 23 December. Intermittent pumping for rest of week due to refreezing of discharge line.

- Sump in south drainage channel removed and VLDPE repaired on 21 December. Geo-Con did not pump water from sand layer before repairing VLDPE.
- To reduce potential for sloughing, slope on CELA side of west dike covered with plastic, between approximately west dike stations 5+00 and 10+00, on 22 and 23 December.
- GeoSyntec Consultants collected soil samples from 4 locations at refinery area D (Otis Eastern) on 21 December and 8 locations at refinery area C (Powerhouse) on 22 December. Samples sent to Law Environmental, Pensacola, Florida, to determine arsenic concentrations.
- No site activity from 24 to 27 December, except pumping water from holding ponds to POTW.
- No weekly progress meeting held this week.

UNIT 2, SEPARATOR

- Received treated filtrate analytical results from east 30,000 gal. Modutank on 23 December. Represents ninth tankful of treated water acceptable for discharge to POTW.
- Discharged treated filtrate from east 30,000 gal. Modutank into POTW sanitary sewer line on 23 December. See attached table for quantities.
- Sand-blasting of Separator walls and floors continued through 23 December using two sandblasters. Work being performed in level B. Sand removed from Separator by vacuum truck and placed in roll-off boxes for off-site disposal.
- ARCO and GeoSyntec Consultants conducted a preliminary Separator

21 to 27 December 1992, Weekly Field Report
7 January 1993
Page 4

walk through on 22 December.

- Partial decontamination of west 100,000 gal Modutank performed between 21 and 23 December.
- No site activity from 24 to 27 December.
- No weekly progress meeting held this week.

UNIT 2, POWERHOUSE

- No activity.

* * * * *

Attachment

Copy to: D. A. Christensen, P.E., ARCO
D. E. Grooms, ARCO
J. K. Kimura, ARCO
M. Hrywnak, COE
Dr. J. F. Beech, P.E., GeoSyntec Consultants
Lynn B. Macdonald, Morrison Knudsen Corporation

SINCLAIR REFINERY, WELLSVILLE, NEW YORK

UNIT 2, SEPARATOR REMEDIATION

| ITEM | W/E 4 OCTOBER WEEK | TOTAL | W/E 11 OCTOBER WEEK | TOTAL | W/E 18 OCTOBER WEEK | TOTAL |
|--|-----------------------|--------|------------------------|---------|------------------------|---------|
| Volume aqueous phase removed (gal.) | 49,500 | 49,500 | 0 | 49,500 | 32,500 | 82,000 |
| Volume aqueous phase treated (gal.) | 0 | 0 | 20,000 | 20,000 | 16,400 | 36,400 |
| Volume of aqueous phase to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume sludge treated (gal.) | 0 | 0 | 29,472 | 29,472 | 31,928 | 61,400 |
| Weight filter-cake off-site (tons) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate produced (gal.) | 0 | 0 | Unknown | Unknown | Unknown | Unknown |
| Volume filtrate treated (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water present (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water treated (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |

| ITEM | W/E 25 OCTOBER WEEK | TOTAL | W/E 1 NOVEMBER WEEK | TOTAL | W/E 8 NOVEMBER WEEK | TOTAL |
|--|------------------------|---------|------------------------|---------------------|------------------------|---------------------|
| Volume aqueous phase removed (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume aqueous phase treated (gal.) | 13,210 | 49,610 | 26,954 | 76,564 | 5,436 | 82,000 |
| Volume of aqueous phase to POTW (gal.) | 0 | 0 | 23,362 | 23,362 | 26,248 | 49,610 |
| Volume sludge treated (gal.) | 51,576 | 112,976 | 34,384 | 147,360 | 49,120 | 196,480 |
| Weight filter-cake off-site (tons) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate produced (gal.) | Unknown | Unknown | Unknown | 88,610 by 29 Oct | Unknown | 140,999 by 6 Nov |
| Volume filtrate treated (gal.) | 0 | 0 | 0 | 0 | 8,276 | 8,276 |
| Volume filtrate to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water present (gal.) | 0 | 0 | 12,623 | 12,623 | 0 | 0 |
| Volume extraneous water treated (gal.) | 0 | 0 | 0 | 0 | 12,623 | 12,623 |
| Volume extraneous water to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |

GQ3201/SEP.WK1

SINCLAIR REFINERY, WELLSVILLE, NEW YORK

UNIT 2, SEPARATOR REMEDIATION

| ITEM | W/E 15 WEEK | NOVEMBER TOTAL | W/E 22 WEEK | NOVEMBER TOTAL | W/E 29 WEEK | NOVEMBER TOTAL |
|--|----------------|-------------------|----------------|-------------------|----------------|-------------------|
| Volume aqueous phase removed (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume aqueous phase treated (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume of aqueous phase to POTW (gal.) | 32,390 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume sludge treated (gal.) | 41,752 | 238,232 | 38,068 | 276,300 | 5,912 | 282,212 |
| Weight filter-cake off-site (tons) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate produced (gal.) | Unknown | 193,875 | 14,971 | 208,846 | 14,971 | 223,817 |
| | | by 15 Nov | | | | |
| Volume filtrate treated (gal.) | 25,451 | 33,727 | 19,795 | 53,522 | 5,656 | 59,178 |
| Volume filtrate to POTW (gal.) | 8,276 | 8,276 | 0 | 8,276 | 0 | 8,276 |
| Volume extraneous water present (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water treated (gal.) | 0 | 12,623 | 0 | 12,623 | 0 | 12,623 |
| Volume extraneous water to POTW (gal.) | 12,623 | 12,623 | 0 | 12,623 | 0 | 12,623 |

| ITEM | W/E 6 WEEK | DECEMBER TOTAL | W/E 13 WEEK | DECEMBER TOTAL | W/E 20 WEEK | DECEMBER TOTAL |
|--|---------------|-------------------|----------------|-------------------|----------------|-------------------|
| Volume aqueous phase removed (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume aqueous phase treated (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume of aqueous phase to POTW (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume sludge treated (gal.) | 0 | 282,212 | 0 | 282,212 | 0 | 282,212 |
| Weight filter-cake off-site (tons) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate produced (gal.) | 2,579 | 226,396 | 7,445 | 233,841 | 0 | 233,841 |
| Volume filtrate treated (gal.) | 53,023 | 112,201 | 0 | 112,201 | 50,902 | 163,103 |
| Volume filtrate to POTW (gal.) | 50,902 | 59,178 | 0 | 59,178 | 53,023 | 112,201 |
| Volume extraneous water present (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water treated (gal.) | 0 | 12,623 | 0 | 12,623 | 0 | 12,623 |
| Volume extraneous water to POTW (gal.) | 0 | 12,623 | 0 | 12,623 | 0 | 12,623 |

SINCLAIR REFINERY, WELLSVILLE, NEW YORK

UNIT 2, SEPARATOR REMEDIATION

| ITEM | W/E 27 WEEK | DECEMBER TOTAL | |
|--|----------------|--------------------|-----------|
| Volume aqueous phase removed (gal.) | 0 | 82,000 | |
| Volume aqueous phase treated (gal.) | 0 | 82,000 | |
| Volume of aqueous phase to POTW (gal.) | 0 | 82,000 | |
| Volume sludge treated (gal.) | 0 | 282,212 | |
| Weight filter-cake off-site (tons) | 0 | 0 | |
| Volume filtrate produced (gal.) | 0 | 233,841 | |
| Volume filtrate treated (gal.) | 0 | 163,103 | |
| Volume filtrate to POTW (gal.) | 25,451 | 112,201 | 137,652 |
| Volume extraneous water present (gal.) | 0 | 0 | JEB |
| Volume extraneous water treated (gal.) | 0 | 12,623 | |
| Volume extraneous water to POTW (gal.) | 0 | 12,623 | 16/mar/93 |

WEEKLY FIELD REPORT

TO: Mr. Robert E. Ivy, ARCO

FROM: Roger B. North, P.E., GeoSyntec Consultants *RBN*
Jonathan E. Brandes, GeoSyntec Consultants *JB*

DATE: 8 January 1993

SUBJECT: 28 December 1992 to 3 January 1993, Weekly Field Report
Sinclair Refinery Site Remediation
Wellsville, New York

The following key activities took place at the Sinclair Refinery Site, Wellsville, New York, during the week of 28 December 1992 to 3 January 1993:

UNIT 1

- New discharge line installed between holding ponds in SLA and sanitary sewer manhole to northwest of CELA on 30 December. Water pumped from temporary holding ponds to sanitary sewer from 30 December for rest of week.
- Fence materials delivered to site on 29 December, and stockpiled in staging area.
- No site activity from 31 December to 3 January, except pumping water from holding ponds to POTW.
- No weekly progress meeting held this week.

UNIT 2, SEPARATOR

- 6 roll-off boxes containing filter cake transported on 28

December to LWD Inc., Culvert City, Kentucky, for incineration by Buffalo Fuel Corporation. See attached table for quantities.

- 5 roll-off boxes containing filter cake transported on 30 December to LWD for incineration by Buffalo Fuel Corporation. See attached table for quantities.
- Received treated filtrate analytical results from west 30,000 gal. Modutank on 28 December. Represents tenth tankful of treated water acceptable for discharge to POTW.
- Discharged treated filtrate from west 30,000 gal. Modutank into POTW sanitary sewer line on 29 December. See attached table for quantities.
- 24 hour treatment of filtrate into east 30,000 gal. Modutank performed between 28 and 30 December.
- Re-sandblasting of Separator walls and floors continued intermittently through 30 December. Work being performed in level B. Sand removed from Separator by vacuum truck and placed in roll-off boxes for off-site disposal.
- Received total petroleum hydrocarbons (TPH) analytical results on 29 December of 19,400 ppm and 51,400 ppm for concrete chip samples 1 and 2 respectively.
- Fourth concrete chip sample collected on 29 December from wall of Separator immediately above location of chip sample 1.
- Partial demobilization of west 100,000 gal. Modutank performed between 28 and 30 December. Decontamination Completed on 30 December.
- No site activity from 31 December to 3 January.

28 December 1992 to 3 January 1993, Weekly Field Report
8 January 1993
Page 3

- No weekly progress meeting held this week.

UNIT 2, POWERHOUSE

- No activity.

* * * * *

Attachment

Copy to: D. A. Christensen, P.E., ARCO
D. E. Grooms, ARCO
J. K. Kimura, ARCO
M. Hrywnak, COE
Dr. J. F. Beech, P.E., GeoSyntec Consultants
L. B. Macdonald, Morrison Knudsen Corporation

SINCLAIR REFINERY, WELLSVILLE, NEW YORK

UNIT 2, SEPARATOR REMEDIATION

| ITEM | W/E 4 OCTOBER WEEK | TOTAL | W/E 11 OCTOBER WEEK | TOTAL | W/E 18 OCTOBER WEEK | TOTAL |
|--|-----------------------|--------|------------------------|---------|------------------------|---------|
| Volume aqueous phase removed (gal.) | 49,500 | 49,500 | 0 | 49,500 | 32,500 | 82,000 |
| Volume aqueous phase treated (gal.) | 0 | 0 | 20,000 | 20,000 | 16,400 | 36,400 |
| Volume of aqueous phase to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume sludge treated (gal.) | 0 | 0 | 29,472 | 29,472 | 31,928 | 61,400 |
| Weight filter-cake off-site (tons) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate produced (gal.) | 0 | 0 | Unknown | Unknown | Unknown | Unknown |
| Volume filtrate treated (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water present (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water treated (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |

| ITEM | W/E 25 OCTOBER WEEK | TOTAL | W/E 1 NOVEMBER WEEK | TOTAL | W/E 8 NOVEMBER WEEK | TOTAL |
|--|------------------------|---------|------------------------|---------------------|------------------------|---------------------|
| Volume aqueous phase removed (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume aqueous phase treated (gal.) | 13,210 | 49,610 | 26,954 | 76,564 | 5,436 | 82,000 |
| Volume of aqueous phase to POTW (gal.) | 0 | 0 | 23,362 | 23,362 | 26,248 | 49,610 |
| Volume sludge treated (gal.) | 51,576 | 112,976 | 34,384 | 147,360 | 49,120 | 196,480 |
| Weight filter-cake off-site (tons) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate produced (gal.) | Unknown | Unknown | Unknown | 88,610 by 29 Oct | Unknown | 140,999 by 6 Nov |
| Volume filtrate treated (gal.) | 0 | 0 | 0 | 0 | 8,276 | 8,276 |
| Volume filtrate to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water present (gal.) | 0 | 0 | 12,623 | 12,623 | 0 | 0 |
| Volume extraneous water treated (gal.) | 0 | 0 | 0 | 0 | 12,623 | 12,623 |
| Volume extraneous water to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |

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SINCLAIR REFINERY, WELLSVILLE, NEW YORK

UNIT 2, SEPARATOR REMEDIATION

| ITEM | W/E 15 WEEK | NOVEMBER TOTAL | W/E 22 WEEK | NOVEMBER TOTAL | W/E 29 WEEK | NOVEMBER TOTAL |
|--|----------------|-------------------|----------------|-------------------|----------------|-------------------|
| Volume aqueous phase removed (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume aqueous phase treated (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume of aqueous phase to POTW (gal.) | 32,390 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume sludge treated (gal.) | 41,752 | 238,232 | 38,068 | 276,300 | 5,912 | 282,212 |
| Weight filter-cake off-site (tons) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate produced (gal.) | Unknown | 193,875 | 14,971 | 208,846 | 14,971 | 223,817 |
| | | by 15 Nov | | | | |
| Volume filtrate treated (gal.) | 25,451 | 33,727 | 19,795 | 53,522 | 5,656 | 59,178 |
| Volume filtrate to POTW (gal.) | 8,276 | 8,276 | 0 | 8,276 | 0 | 8,276 |
| Volume extraneous water present (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water treated (gal.) | 0 | 12,623 | 0 | 12,623 | 0 | 12,623 |
| Volume extraneous water to POTW (gal.) | 12,623 | 12,623 | 0 | 12,623 | 0 | 12,623 |

| ITEM | W/E 6 WEEK | DECEMBER TOTAL | W/E 13 WEEK | DECEMBER TOTAL | W/E 20 WEEK | DECEMBER TOTAL |
|--|---------------|-------------------|----------------|-------------------|----------------|-------------------|
| Volume aqueous phase removed (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume aqueous phase treated (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume of aqueous phase to POTW (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume sludge treated (gal.) | 0 | 282,212 | 0 | 282,212 | 0 | 282,212 |
| Weight filter-cake off-site (tons) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate produced (gal.) | 2,579 | 226,396 | 7,445 | 233,841 | 0 | 233,841 |
| Volume filtrate treated (gal.) | 53,023 | 112,201 | 0 | 112,201 | 50,902 | 163,103 |
| Volume filtrate to POTW (gal.) | 50,902 | 59,178 | 0 | 59,178 | 53,023 | 112,201 |
| Volume extraneous water present (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water treated (gal.) | 0 | 12,623 | 0 | 12,623 | 0 | 12,623 |
| Volume extraneous water to POTW (gal.) | 0 | 12,623 | 0 | 12,623 | 0 | 12,623 |

SINCLAIR REFINERY, WELLSVILLE, NEW YORK

UNIT 2, SEPARATOR REMEDIATION

| ITEM | W/E 27 WEEK | DECEMBER TOTAL | W/E 3 WEEK | JANUARY TOTAL | |
|--|----------------|--------------------|---------------|--------------------|-----------|
| Volume aqueous phase removed (gal.) | 0 | 82,000 | 0 | 82,000 | |
| Volume aqueous phase treated (gal.) | 0 | 82,000 | 0 | 82,000 | |
| Volume of aqueous phase to POTW (gal.) | 0 | 82,000 | 0 | 82,000 | |
| Volume sludge treated (gal.) | 0 | 282,212 | 0 | 282,212 | |
| Weight filter-cake off-site (tons) | 0 | 0 | 163 | 163 | |
| Volume filtrate produced (gal.) | 0 | 233,841 | 0 | 233,841 | |
| Volume filtrate treated (gal.) | 0 | 163,103 | 16,897 | 180,000 | |
| Volume filtrate to POTW (gal.) | 25,451 | 112,201 | 25,451 | 112,201 | 163,103 |
| Volume extraneous water present (gal.) | unknown | unknown | unknown | unknown | JEB |
| Volume extraneous water treated (gal.) | 0 | 12,623 | 0 | 12,623 | |
| Volume extraneous water to POTW (gal.) | 0 | 12,623 | 0 | 12,623 | 16/Mar/93 |
| | | 137,652 | | | |
| | | JEB | | | |
| | | 16/Mar/93 | | | |

WEEKLY FIELD REPORT

TO: Mr. Robert E. Ivy, ARCO

FROM: Roger B. North, P.E., GeoSyntec Consultants *RB*
Jonathan E. Brandes, GeoSyntec Consultants *JEB*

DATE: 14 January 1993

SUBJECT: 4 to 10 January 1993, Weekly Field Report
Sinclair Refinery Site Remediation
Wellsville, New York

The following key activities took place at the Sinclair Refinery Site, Wellsville, New York, during the week of 4 to 10 January 1993:

UNIT 1

- Water pumped from temporary holding ponds in SLA to sanitary sewer, which leads directly to POTW, through 6 January. Remaining water frozen in holding ponds, and unable to be pumped. Geo-Con proposes to leave this water until remobilizing to site.
- ARCO and GeoSyntec Consultants conducted a preliminary CELA walk through on 7 January, and discussed punch list items with Geo-Con on 8 January.
- Geo-Con continued with activities relating to winter shut down and punch list items requiring immediate attention.
- No weekly progress meeting held this week.

UNIT 2, SEPARATOR

- 3 roll-off boxes containing filtercake transported on 4 January

to LWD Inc., Culvert City, Kentucky, for incineration by Buffalo Fuel Corporation. See attached table for quantities.

- 3 roll-off boxes containing filtercake transported on 5 January to LWD for incineration by Buffalo Fuel Corporation. See attached table for quantities.
- 3 roll-off boxes containing filtercake transported on 8 January to LWD for incineration by Buffalo Fuel Corporation. See attached table for quantities.
- 2 roll-off boxes containing sand and residuals from sandblasting sampled on 4 January. Samples sent to Law Environmental Inc., Pensacola, Florida, for K051 analysis.
- Completed treatment of filtrate into east 30,000 gal. Modutank and sampled on 4 January. Represents eleventh tankful of treated water sampled. See attached table for quantities.
- 24-hour treatment of filtrate into west 30,000 gal. Modutank started on 4 January; completed and sampled on 7 January. Represents twelfth tankful of treated water sampled. See attached table for quantities.
- Selective re-sandblasting of Separator walls and floors performed on 5 January. Work performed in level B. Sand removed from Separator by vacuum truck and placed in roll-off boxes for off-site disposal.
- Fifth concrete chip sample collected on 5 January from wall of Separator immediately to side of chip sample 2.
- Received total petroleum hydrocarbons (TPH) analytical results on 6 January of 30,500 ppm, 21,300 ppm, and 12,600 ppm for concrete chip samples 3, 3 Dup and 4, respectively.

4 to 10 January 1993, Weekly Field Report
14 January 1993
Page 3

- Received TPH analytical result on 7 January of 6,860 ppm for concrete chip sample 5.
- Installed 15-in. diameter CMP from ditch on south side of Current Controls building to manhole 3 of Separator bypass line on 6 January.
- No weekly progress meeting held this week.

UNIT 2, POWERHOUSE

- No activity.

* * * * *

Attachment

Copy to: D. A. Christensen, P.E., ARCO
D. E. Grooms, ARCO
J. K. Kimura, ARCO
M. Hrywnak, COE
Dr. J. F. Beech, P.E., GeoSyntec Consultants
L. B. Macdonald, Morrison Knudsen Corporation

SINCLAIR REFINERY, WELLSVILLE, NEW YORK

UNIT 2, SEPARATOR REMEDIATION

| ITEM | W/E 4 OCTOBER | | W/E 11 OCTOBER | | W/E 18 OCTOBER | |
|--|---------------|--------|----------------|---------|----------------|---------|
| | WEEK | TOTAL | WEEK | TOTAL | WEEK | TOTAL |
| Volume aqueous phase removed (gal.) | 49,500 | 49,500 | 0 | 49,500 | 32,500 | 82,000 |
| Volume aqueous phase treated (gal.) | 0 | 0 | 20,000 | 20,000 | 16,400 | 36,400 |
| Volume of aqueous phase to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume sludge treated (gal.) | 0 | 0 | 29,472 | 29,472 | 31,928 | 61,400 |
| Weight filter-cake off-site (tons) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate produced (gal.) | 0 | 0 | Unknown | Unknown | Unknown | Unknown |
| Volume filtrate treated (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water present (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water treated (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |

| ITEM | W/E 25 OCTOBER | | W/E 1 NOVEMBER | | W/E 8 NOVEMBER | |
|--|----------------|---------|----------------|---------------------|----------------|---------------------|
| | WEEK | TOTAL | WEEK | TOTAL | WEEK | TOTAL |
| Volume aqueous phase removed (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume aqueous phase treated (gal.) | 13,210 | 49,610 | 26,954 | 76,564 | 5,436 | 82,000 |
| Volume of aqueous phase to POTW (gal.) | 0 | 0 | 23,362 | 23,362 | 26,248 | 49,610 |
| Volume sludge treated (gal.) | 51,576 | 112,976 | 34,384 | 147,360 | 49,120 | 196,480 |
| Weight filter-cake off-site (tons) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate produced (gal.) | Unknown | Unknown | Unknown | 88,610 by 29 Oct | Unknown | 140,999 by 6 Nov |
| Volume filtrate treated (gal.) | 0 | 0 | 0 | 0 | 8,276 | 8,276 |
| Volume filtrate to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water present (gal.) | 0 | 0 | 12,623 | 12,623 | 0 | 0 |
| Volume extraneous water treated (gal.) | 0 | 0 | 0 | 0 | 12,623 | 12,623 |
| Volume extraneous water to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| :: | | | | | | |

SINCLAIR REFINERY, WELLSVILLE, NEW YORK

UNIT 2, SEPARATOR REMEDIATION

| ITEM | W/E 15 WEEK | NOVEMBER TOTAL | W/E 22 WEEK | NOVEMBER TOTAL | W/E 29 WEEK | NOVEMBER TOTAL |
|--|----------------|-------------------|----------------|-------------------|----------------|-------------------|
| Volume aqueous phase removed (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume aqueous phase treated (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume of aqueous phase to POTW (gal.) | 32,390 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume sludge treated (gal.) | 41,752 | 238,232 | 38,068 | 276,300 | 5,912 | 282,212 |
| Weight filter-cake off-site (tons) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate produced (gal.) | Unknown | 193,875 | 14,971 | 208,846 | 14,971 | 223,817 |
| | | by 15 Nov | | | | |
| Volume filtrate treated (gal.) | 25,451 | 33,727 | 19,795 | 53,522 | 5,656 | 59,178 |
| Volume filtrate to POTW (gal.) | 8,276 | 8,276 | 0 | 8,276 | 0 | 8,276 |
| Volume extraneous water present (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water treated (gal.) | 0 | 12,623 | 0 | 12,623 | 0 | 12,623 |
| Volume extraneous water to POTW (gal.) | 12,623 | 12,623 | 0 | 12,623 | 0 | 12,623 |

| ITEM | W/E 6 WEEK | DECEMBER TOTAL | W/E 13 WEEK | DECEMBER TOTAL | W/E 20 WEEK | DECEMBER TOTAL |
|--|---------------|-------------------|----------------|-------------------|----------------|-------------------|
| Volume aqueous phase removed (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume aqueous phase treated (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume of aqueous phase to POTW (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume sludge treated (gal.) | 0 | 282,212 | 0 | 282,212 | 0 | 282,212 |
| Weight filter-cake off-site (tons) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate produced (gal.) | 2,579 | 226,396 | 7,445 | 233,841 | 0 | 233,841 |
| Volume filtrate treated (gal.) | 53,023 | 112,201 | 0 | 112,201 | 50,902 | 163,103 |
| Volume filtrate to POTW (gal.) | 50,902 | 59,178 | 0 | 59,178 | 53,023 | 112,201 |
| Volume extraneous water present (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water treated (gal.) | 0 | 12,623 | 0 | 12,623 | 0 | 12,623 |
| Volume extraneous water to POTW (gal.) | 0 | 12,623 | 0 | 12,623 | 0 | 12,623 |

SINCLAIR REFINERY, WELLSVILLE, NEW YORK

GQ3201/SEP.WK1

SINCLAIR REFINERY, WELLSVILLE, NEW YORK

UNIT 2, SEPARATOR REMEDIATION

| ITEM | W/E 27 WEEK | DECEMBER TOTAL | W/E 3 WEEK | JANUARY TOTAL | W/E 10 WEEK | JANUARY TOTAL | |
|--|----------------|--------------------|---------------|--------------------|----------------|--------------------|-----------|
| Volume aqueous phase removed (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 | |
| Volume aqueous phase treated (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 | |
| Volume of aqueous phase to POTW (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 | |
| Volume sludge treated (gal.) | 0 | 282,212 | 0 | 282,212 | 0 | 282,212 | |
| Weight filter-cake off-site (tons) | 0 | 0 | 163 | 163 | 128 | 291 | |
| Volume filtrate produced (gal.) | 0 | 233,841 | 0 | 233,841 | 0 | 233,841 | |
| Volume filtrate treated (gal.) | 0 | 163,103 | 16,897 | 180,000 | 34,005 | 214,005 | |
| Volume filtrate to POTW (gal.) | 25,451 | 112,201 | 25,451 | 112,201 | 0 | 112,201 | 163,103 |
| Volume extraneous water present (gal.) | unknown | unknown | unknown | unknown | unknown | unknown | JEB |
| Volume extraneous water treated (gal.) | 0 | 12,623 | 0 | 12,623 | 0 | 12,623 | |
| Volume extraneous water to POTW (gal.) | 0 | 12,623 | 0 | 12,623 | 0 | 12,623 | 16/Mar/93 |

137,652
 JEB
 16/Mar/93

163,103
 JEB
 16/Mar/93

WEEKLY FIELD REPORT

TO: Mr. Robert E. Ivy, ARCO

FROM: Roger B. North, P.E., GeoSyntec Consultants
Jonathan E. Brandes, GeoSyntec Consultants

DATE: 26 January 1993

SUBJECT: 11 to 17 January 1993, Weekly Field Report
Sinclair Refinery Site Remediation
Wellsville, New York

The following key activities took place at the Sinclair Refinery Site, Wellsville, New York, during the week of 11 to 17 January 1993:

UNIT 1

- GeoSyntec Consultants collected CELA run-off water samples from 42-in. CMP culvert at north end of CELA on 13 January. Samples sent to Law Environmental Inc., Kennesaw, Georgia, for analysis.
- Geo-Con and GeoSyntec Consultants cut 4 geocomposite samples from exposed deployed geocomposite. The geotextile component will be strength and property tested by GeoSyntec Consultants' Materials Testing Laboratory, Boca Raton, Florida. Geo-Con is required to take adjacent samples when work resumes to determine whether exposure has resulted in degradation of the geotextile.
- Fence materials moved from staging area to west side of SLA on 11 January.
- Geo-Con continued with activities relating to winter shut down and punch list items requiring immediate attention. Geo-Con site staff depart site on 13 January.
- Buffalo Crushed Stone, Inc. delivered one truckload of proposed riprap to site from its Wherle Road, Buffalo, quarry on 11 January. The riprap appeared to contain excessive fines, which was noted to Geo-Con.
- GeoSyntec Consultants visited the Buffalo Crushed Stone quarry on Wherle Road, Buffalo, on 15 January to observe proposed riprap

source. Material is a cherty limestone. Material visible in stockpiles generally appeared suitable; however, there was evidence of fines in places, correlating the observation made regarding the material delivered to site.

- No weekly progress meeting held this week.

UNIT 2, SEPARATOR

- Temporary roof over Separator dismantled between 11 and 13 January.
- Pipes, valves, and pumps removed from Separator between 11 and 12 January.
- Pumphouse and pumphouse foundation demolished between 11 and 14 January.
- Track-hoe with hydraulic ram attachment (hoe ram) delivered to site on 14 January. Used to: demolish pumphouse foundation; demolish separator walls; make holes in separator floor; break up pieces of concrete debris; and spread debris around in cells during gravel backfilling of separator.
- Holes made in floor of Separator cells between 13 and 15 January using rock drill on 13 January and hoe ram on 14 and 15 January. Typically two to three holes were made in each cell.
- Separator walls demolished 2 feet below grade between 13 and 15 January, initially using bulldozer and subsequently using hoe ram.
- Backfilling of pumphouse and Separator cells with gravel started on 13 January and continued throughout week.
- 2 roll-off boxes containing filtercake transported on 14 January to LWD Inc., Culvert City, Kentucky, for incineration by Buffalo Fuel Corporation. See attached table for quantities.
- Received treated filtrate analytical results from east 30,000 gal. Modutank on 11 January. Represents eleventh tankful of treated water acceptable for discharge to POTW.

- Discharged treated filtrate from east 30,000 gal. Modutank into POTW sanitary sewer line on 11 January. See attached table for quantities.
- 24-hour treatment of filtrate into east 30,000 gal. Modutank started on 11 January; completed and sampled on 14 January. Represents thirteenth tankful of treated water sampled. See attached table for quantities.
- Received treated filtrate analytical results from west 30,000 gal. Modutank on 14 January. Represents twelfth tankful of treated water acceptable for discharge to POTW.
- Discharged treated filtrate from west 30,000 gal. Modutank into POTW sanitary sewer line on 14 January. See attached table for quantities.
- Installed cover over 100,000 gal. Modutank on 15 January to begin final treatment of bottom ice and residuals.
- No weekly progress meeting held this week.

UNIT 2, POWERHOUSE

- No activity.

* * * * *

Attachment

Copy to: D. A. Christensen, P.E., ARCO
D. E. Grooms, ARCO
J. K. Kimura, ARCO
Dr. J. F. Beech, P.E., GeoSyntec Consultants

SINCLAIR REFINERY, WELLSVILLE, NEW YORK

UNIT 2, SEPARATOR REMEDIATION

| ITEM | W/E 4 OCTOBER WEEK | TOTAL | W/E 11 OCTOBER WEEK | TOTAL | W/E 18 OCTOBER WEEK | TOTAL |
|--|-----------------------|--------|------------------------|---------|------------------------|---------|
| Volume aqueous phase removed (gal.) | 49,500 | 49,500 | 0 | 49,500 | 32,500 | 82,000 |
| Volume aqueous phase treated (gal.) | 0 | 0 | 20,000 | 20,000 | 16,400 | 36,400 |
| Volume of aqueous phase to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume sludge treated (gal.) | 0 | 0 | 29,472 | 29,472 | 31,928 | 61,400 |
| Weight filter-cake off-site (tons) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate produced (gal.) | 0 | 0 | Unknown | Unknown | Unknown | Unknown |
| Volume filtrate treated (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water present (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water treated (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |

| ITEM | W/E 25 OCTOBER WEEK | TOTAL | W/E 1 NOVEMBER WEEK | TOTAL | W/E 8 NOVEMBER WEEK | TOTAL |
|--|------------------------|---------|------------------------|---------------------|------------------------|---------------------|
| Volume aqueous phase removed (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume aqueous phase treated (gal.) | 13,210 | 49,610 | 26,954 | 76,564 | 5,436 | 82,000 |
| Volume of aqueous phase to POTW (gal.) | 0 | 0 | 23,362 | 23,362 | 26,248 | 49,610 |
| Volume sludge treated (gal.) | 51,576 | 112,976 | 34,384 | 147,360 | 49,120 | 196,480 |
| Weight filter-cake off-site (tons) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate produced (gal.) | Unknown | Unknown | Unknown | 88,610 by 29 Oct | Unknown | 140,999 by 6 Nov |
| Volume filtrate treated (gal.) | 0 | 0 | 0 | 0 | 8,276 | 8,276 |
| Volume filtrate to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water present (gal.) | 0 | 0 | 12,623 | 12,623 | 0 | 0 |
| Volume extraneous water treated (gal.) | 0 | 0 | 0 | 0 | 12,623 | 12,623 |
| Volume extraneous water to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |

SINCLAIR REFINERY, WELLSVILLE, NEW YORK

UNIT 2, SEPARATOR REMEDIATION

| ITEM | W/E 15 WEEK | NOVEMBER TOTAL | W/E 22 WEEK | NOVEMBER TOTAL | W/E 29 WEEK | NOVEMBER TOTAL |
|--|----------------|----------------------|----------------|-------------------|----------------|-------------------|
| Volume aqueous phase removed (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume aqueous phase treated (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume of aqueous phase to POTW (gal.) | 32,390 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume sludge treated (gal.) | 41,752 | 238,232 | 38,068 | 276,300 | 5,912 | 282,212 |
| Weight filter-cake off-site (tons) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate produced (gal.) | Unknown | 193,875 by 15 Nov | 14,971 | 208,846 | 14,971 | 223,817 |
| Volume filtrate treated (gal.) | 25,451 | 33,727 | 19,795 | 53,522 | 5,656 | 59,178 |
| Volume filtrate to POTW (gal.) | 8,276 | 8,276 | 0 | 8,276 | 0 | 8,276 |
| Volume extraneous water present (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water treated (gal.) | 0 | 12,623 | 0 | 12,623 | 0 | 12,623 |
| Volume extraneous water to POTW (gal.) | 12,623 | 12,623 | 0 | 12,623 | 0 | 12,623 |

| ITEM | W/E 6 WEEK | DECEMBER TOTAL | W/E 13 WEEK | DECEMBER TOTAL | W/E 20 WEEK | DECEMBER TOTAL |
|--|---------------|-------------------|----------------|-------------------|----------------|-------------------|
| Volume aqueous phase removed (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume aqueous phase treated (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume of aqueous phase to POTW (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume sludge treated (gal.) | 0 | 282,212 | 0 | 282,212 | 0 | 282,212 |
| Weight filter-cake off-site (tons) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate produced (gal.) | 2,579 | 226,396 | 7,445 | 233,841 | 0 | 233,841 |
| Volume filtrate treated (gal.) | 53,023 | 112,201 | 0 | 112,201 | 50,902 | 163,103 |
| Volume filtrate to POTW (gal.) | 50,902 | 59,178 | 0 | 59,178 | 53,023 | 112,201 |
| Volume extraneous water present (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water treated (gal.) | 0 | 12,623 | 0 | 12,623 | 0 | 12,623 |
| Volume extraneous water to POTW (gal.) | 0 | 12,623 | 0 | 12,623 | 0 | 12,623 |

SINCLAIR REFINERY, WELLSVILLE, NEW YORK

UNIT 2, SEPARATOR REMEDIATION

| ITEM | W/E 27 WEEK | DECEMBER TOTAL | W/E 3 WEEK | JANUARY TOTAL | W/E 10 WEEK | JANUARY TOTAL |
|--|----------------|-------------------|---------------|------------------|----------------|------------------|
| Volume aqueous phase removed (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume aqueous phase treated (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume of aqueous phase to POTW (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume sludge treated (gal.) | 0 | 282,212 | 0 | 282,212 | 0 | 282,212 |
| Weight filter-cake off-site (tons) | 0 | 0 | 163 | 163 | 128 | 291 |
| Volume filtrate produced (gal.) | 0 | 233,841 | 0 | 233,841 | 0 | 233,841 |
| Volume filtrate treated (gal.) | 0 | 163,103 | 16,897 | 180,000 | 34,005 | 214,005 |
| Volume filtrate to POTW (gal.) | 25,451 | 137,652 | 25,451 | 163,103 | 0 | 163,103 |
| Volume extraneous water present (gal.) | unknown | unknown | unknown | unknown | unknown | unknown |
| Volume extraneous water treated (gal.) | 0 | 12,623 | 0 | 12,623 | 0 | 12,623 |
| Volume extraneous water to POTW (gal.) | 0 | 12,623 | 0 | 12,623 | 0 | 12,623 |

| ITEM | W/E 17 WEEK | JANUARY TOTAL |
|--|----------------|------------------|
| Volume aqueous phase removed (gal.) | 0 | 82,000 |
| Volume aqueous phase treated (gal.) | 0 | 82,000 |
| Volume of aqueous phase to POTW (gal.) | 0 | 82,000 |
| Volume sludge treated (gal.) | 0 | 282,212 |
| Weight filter-cake off-site (tons) | 31 | 322 |
| Volume filtrate produced (gal.) | 0 | 233,841 |
| Volume filtrate treated (gal.) | 19,836 | 233,841 |
| Volume filtrate to POTW (gal.) | 50,902 | 214,005 |
| Volume extraneous water present (gal.) | unknown | unknown |
| Volume extraneous water treated (gal.) | 5,615 | 18,238 |
| Volume extraneous water to POTW (gal.) | 0 | 12,623 |

WEEKLY FIELD REPORT

TO: Mr. Robert E. Ivy, ARCO

FROM: Roger B. North, P.E., GeoSyntec Consultants *RBN*
Jonathan E. Brandes, GeoSyntec Consultants *JEB*

DATE: 27 January 1993

SUBJECT: 18 to 24 January 1993, Weekly Field Report
Sinclair Refinery Site Remediation
Wellsville, New York

The following key activities took place at the Sinclair Refinery Site, Wellsville, New York, during the week of 18 to 24 January 1993:

UNIT 1

- EPA/DEC walk through of CELA and Separator on 20 January. M. Negrelli and L. DiGaurdia (EPA), J. Drumm (NYDEC) and M. Hrywnak (COE) in attendance. B. Powers and C. Bailey (Geo-Con) also travelled to site for the day to be present at the meeting.
- GeoSyntec Consultants collected soil samples from 1 location at Refinery Area A (Current Controls), 12 locations at Refinery Area C (powerhouse) and 5 locations at Refinery Area D (Otis Eastern) on 18 and 19 January. Samples sent to Law Environmental, Pensacola, Florida, to determine arsenic concentrations.
- GeoSyntec Consultants and On-Site Health and Safety performed operation and maintenance activities associated with CELA monitoring wells and piezometers on 20, 21 and 22 January. Piezometer P-6 could not be accessed due to a temporary protective drum which Geo-Con had set over the riser casing and embedded in soil. Water samples taken from monitoring wells MWR-1 to MWR-11 and piezometers P-3 and P-5. Samples sent to Alfred Technical & Analytical Laboratory, Alfred, New York, for

analysis. Other parameters measured on-site as part of activities.

- Submittals reviewed for:
 - Winter shut down plan (28SD01, Rev. 1);
 - Certificates of compliance, fences and gates (28SF03, Addendum 1);
 - Borrow source and compliance tests, common fill (28QC04, Addendum 27);
 - Certificates of compliance, TS1000 geotextile (28QC04, Addendum 28);
 - Borrow source and compliance tests, riprap (28QC04, Addendum 29); and
 - Borrow source and compliance tests, riprap (28QC04, Addendum 30).
- No weekly progress meeting held this week.

UNIT 2, SEPARATOR

- Backfilling of Separator cells and pumphouse with gravel continued and completed on 20 January.
- Moved nine roll-off boxes from Separator to powerhouse enclosure on 21 January.
- Received treated filtrate analytical results from east 30,000 gal. Modutank on 22 January. Represents thirteenth tankful of treated water acceptable for discharge to POTW.
- Discharged treated filtrate from east 30,000 gal. Modutank into POTW sanitary sewer line on 22 January. See attached table for quantities.
- Started using heaters to melt ice in 100,000 gal Modutank and pumped aqueous material into west 30,000 gal Modutank. Mixture

of sludge and ice remained in 100,000 gal Modutank at end week.

- Removed fence from west half of site and reestablished two lane road to SUNY on 22 January. Temporary fencing set around manholes 1 and 2.
- No weekly progress meeting held this week.

UNIT 2, POWERHOUSE

- No activity.

* * * * *

Attachment

Copy to: D. A. Christensen, P.E., ARCO
D. E. Grooms, ARCO
J. K. Kimura, ARCO
Dr. J. F. Beech, P.E., GeoSyntec Consultants

SINCLAIR REFINERY, WELLSVILLE, NEW YORK

UNIT 2, SEPARATOR REMEDIATION

| ITEM | W/E 4 OCTOBER WEEK | TOTAL | W/E 11 OCTOBER WEEK | TOTAL | W/E 18 OCTOBER WEEK | TOTAL |
|--|-----------------------|--------|------------------------|---------|------------------------|---------|
| Volume aqueous phase removed (gal.) | 49,500 | 49,500 | 0 | 49,500 | 32,500 | 82,000 |
| Volume aqueous phase treated (gal.) | 0 | 0 | 20,000 | 20,000 | 16,400 | 36,400 |
| Volume of aqueous phase to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume sludge treated (gal.) | 0 | 0 | 29,472 | 29,472 | 31,928 | 61,400 |
| Weight filter-cake off-site (tons) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate produced (gal.) | 0 | 0 | Unknown | Unknown | Unknown | Unknown |
| Volume filtrate treated (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water present (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water treated (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |

| ITEM | W/E 25 OCTOBER WEEK | TOTAL | W/E 1 NOVEMBER WEEK | TOTAL | W/E 8 NOVEMBER WEEK | TOTAL |
|--|------------------------|---------|------------------------|---------------------|------------------------|---------------------|
| Volume aqueous phase removed (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume aqueous phase treated (gal.) | 13,210 | 49,610 | 26,954 | 76,564 | 5,436 | 82,000 |
| Volume of aqueous phase to POTW (gal.) | 0 | 0 | 23,362 | 23,362 | 26,248 | 49,610 |
| Volume sludge treated (gal.) | 51,576 | 112,976 | 34,384 | 147,360 | 49,120 | 196,480 |
| Weight filter-cake off-site (tons) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate produced (gal.) | Unknown | Unknown | Unknown | 88,610 by 29 Oct | Unknown | 140,999 by 6 Nov |
| Volume filtrate treated (gal.) | 0 | 0 | 0 | 0 | 8,276 | 8,276 |
| Volume filtrate to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water present (gal.) | 0 | 0 | 12,623 | 12,623 | 0 | 0 |
| Volume extraneous water treated (gal.) | 0 | 0 | 0 | 0 | 12,623 | 12,623 |
| Volume extraneous water to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |

SINCLAIR REFINERY, WELLSVILLE, NEW YORK

UNIT 2, SEPARATOR REMEDIATION

| ITEM | W/E 15 WEEK | NOVEMBER TOTAL | W/E 22 WEEK | NOVEMBER TOTAL | W/E 29 WEEK | NOVEMBER TOTAL |
|--|----------------|-------------------|----------------|-------------------|----------------|-------------------|
| Volume aqueous phase removed (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume aqueous phase treated (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume of aqueous phase to POTW (gal.) | 32,390 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume sludge treated (gal.) | 41,752 | 238,232 | 38,068 | 276,300 | 5,912 | 282,212 |
| Weight filter-cake off-site (tons) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate produced (gal.) | Unknown | 193,875 | 14,971 | 208,846 | 14,971 | 223,817 |
| | | by 15 Nov | | | | |
| Volume filtrate treated (gal.) | 25,451 | 33,727 | 19,795 | 53,522 | 5,656 | 59,178 |
| Volume filtrate to POTW (gal.) | 8,276 | 8,276 | 0 | 8,276 | 0 | 8,276 |
| Volume extraneous water present (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water treated (gal.) | 0 | 12,623 | 0 | 12,623 | 0 | 12,623 |
| Volume extraneous water to POTW (gal.) | 12,623 | 12,623 | 0 | 12,623 | 0 | 12,623 |

| ITEM | W/E 6 WEEK | DECEMBER TOTAL | W/E 13 WEEK | DECEMBER TOTAL | W/E 20 WEEK | DECEMBER TOTAL |
|--|---------------|-------------------|----------------|-------------------|----------------|-------------------|
| Volume aqueous phase removed (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume aqueous phase treated (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume of aqueous phase to POTW (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume sludge treated (gal.) | 0 | 282,212 | 0 | 282,212 | 0 | 282,212 |
| Weight filter-cake off-site (tons) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate produced (gal.) | 2,579 | 226,396 | 7,445 | 233,841 | 0 | 233,841 |
| Volume filtrate treated (gal.) | 53,023 | 112,201 | 0 | 112,201 | 50,902 | 163,103 |
| Volume filtrate to POTW (gal.) | 50,902 | 59,178 | 0 | 59,178 | 53,023 | 112,201 |
| Volume extraneous water present (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water treated (gal.) | 0 | 12,623 | 0 | 12,623 | 0 | 12,623 |
| Volume extraneous water to POTW (gal.) | 0 | 12,623 | 0 | 12,623 | 0 | 12,623 |

SINCLAIR REFINERY, WELLSVILLE, NEW YORK

UNIT 2, SEPARATOR REMEDIATION

| ITEM | W/E 27 WEEK | DECEMBER TOTAL | W/E 3 WEEK | JANUARY TOTAL | W/E 10 WEEK | JANUARY TOTAL |
|--|----------------|-------------------|---------------|------------------|----------------|------------------|
| Volume aqueous phase removed (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume aqueous phase treated (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume of aqueous phase to POTW (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume sludge treated (gal.) | 0 | 282,212 | 0 | 282,212 | 0 | 282,212 |
| Weight filter-cake off-site (tons) | 0 | 0 | 163 | 163 | 128 | 291 |
| Volume filtrate produced (gal.) | 0 | 233,841 | 0 | 233,841 | 0 | 233,841 |
| Volume filtrate treated (gal.) | 0 | 163,103 | 16,897 | 180,000 | 34,005 | 214,005 |
| Volume filtrate to POTW (gal.) | 25,451 | 137,652 | 25,451 | 163,103 | 0 | 163,103 |
| Volume extraneous water present (gal.) | unknown | unknown | unknown | unknown | unknown | unknown |
| Volume extraneous water treated (gal.) | 0 | 12,623 | 0 | 12,623 | 0 | 12,623 |
| Volume extraneous water to POTW (gal.) | 0 | 12,623 | 0 | 12,623 | 0 | 12,623 |

| ITEM | W/E 17 WEEK | JANUARY TOTAL | W/E 24 WEEK | JANUARY TOTAL |
|--|----------------|------------------|----------------|------------------|
| Volume aqueous phase removed (gal.) | 0 | 82,000 | 0 | 82,000 |
| Volume aqueous phase treated (gal.) | 0 | 82,000 | 0 | 82,000 |
| Volume of aqueous phase to POTW (gal.) | 0 | 82,000 | 0 | 82,000 |
| Volume sludge treated (gal.) | 0 | 282,212 | 0 | 282,212 |
| Weight filter-cake off-site (tons) | 31 | 322 | 0 | 322 |
| Volume filtrate produced (gal.) | 0 | 233,841 | 0 | 233,841 |
| Volume filtrate treated (gal.) | 19,836 | 233,841 | 0 | 233,841 |
| Volume filtrate to POTW (gal.) | 50,902 | 214,005 | 19,836 | 233,841 |
| Volume extraneous water present (gal.) | unknown | unknown | unknown | unknown |
| Volume extraneous water treated (gal.) | 5,615 | 18,238 | 0 | 18,238 |
| Volume extraneous water to POTW (gal.) | 0 | 12,623 | 5,615 | 18,238 |

WEEKLY FIELD REPORT

TO: Mr. Robert E. Ivy, ARCO

FROM: Roger B. North, P.E., GeoSyntec Consultants RB
Jonathan E. Brandes, GeoSyntec Consultants JEB

DATE: 6 February 1993

SUBJECT: 25 to 31 January 1993, Weekly Field Report
Sinclair Refinery Site Remediation
Wellsville, New York

The following key activities took place at the Sinclair Refinery Site, Wellsville, New York, during the week of 25 to 31 January 1993:

UNIT 1

- Approximately 1,533 tons of riprap delivered from Buffalo Crushed Stone's Wherle Road, Buffalo, quarry between 25 and 29 January; material stockpiled in staging area.
- GeoSyntec Consultants received refinery surface soil analytical results from Law Environmental, Inc. on 27 and 30 January for samples collected on 18 and 19 January from Areas A (Current Controls), C (powerhouse) and E (Otis Eastern). Data indicates some locations with arsenic concentrations above 25 ppm.

UNIT 2, SEPARATOR

- ARCO trailer demobilized on 25 January.
- General site cleanup and demobilization activities continued.
- One roll-off box delivered to site on 27 January. This roll-off box will receive sludge from bottom of 100,000 gal. Modutank
- Two roll-off boxes moved from Separator to powerhouse enclosure on 27 January.
- Decontaminated east 30,000 gal. Modutank on 25 and 26 January and started dismantling tank on 27 January.

- Continued using heaters to melt ice in 100,000 gal. Modutank. Aqueous material pumped into west 30,000 gal. Modutank. Completed separation and transfer of aqueous material on 27 January. Sludge removed from bottom of 100,000 gal. Modutank with vacuum truck on 27, 28 and 29 January.
- Started treating aqueous material in west 30,000 gal. Modutank on 27 January. Tank covered and heater placed inside tank to melt ice on 28 January. Treated water discharged at a rate of approximately 4 gal/min into manhole 4 of Separator by-pass system, which leads directly to Genesee River, instead of into manhole leading to POTW. Treatment and discharge into manhole 4 continued for approximately 20 hours until GeoSyntec Consultants alerted Severson to error on 28 January. Severson estimated that approximately 4,250 gals. of untested water was discharged into Genesee River. Severson corrected discharge error immediately and took a water sample for analysis to compare treated water with Genesee River discharge requirements. Treatment and discharge to POTW continued on 28 and 29 January. See attached table for quantities.
- Twenty-nine 55-gal. drums containing oil, skimmed from top of east 100,000 gal. Modutank, transported by Hazmat Trucking to LWD Inc., Culvert City, Kentucky, for incineration.

UNIT 2, POWERHOUSE

- No activity.

* * * * *

Attachment

Copy to: D. A. Christensen, P.E., ARCO
D. E. Grooms, ARCO
J. K. Kimura, ARCO
Dr. J. F. Beech, P.E., GeoSyntec Consultants

SINCLAIR REFINERY, WELLSVILLE, NEW YORK

UNIT 2, SEPARATOR REMEDIATION

| ITEM | W/E 4 OCTOBER WEEK | TOTAL | W/E 11 OCTOBER WEEK | TOTAL | W/E 18 OCTOBER WEEK | TOTAL |
|--|-----------------------|--------|------------------------|---------|------------------------|---------|
| Volume aqueous phase removed (gal.) | 49,500 | 49,500 | 0 | 49,500 | 32,500 | 82,000 |
| Volume aqueous phase treated (gal.) | 0 | 0 | 20,000 | 20,000 | 16,400 | 36,400 |
| Volume of aqueous phase to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume sludge treated (gal.) | 0 | 0 | 29,472 | 29,472 | 31,928 | 61,400 |
| Weight filter-cake off-site (tons) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate produced (gal.) | 0 | 0 | Unknown | Unknown | Unknown | Unknown |
| Volume filtrate treated (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water present (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water treated (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |

| ITEM | W/E 25 OCTOBER WEEK | TOTAL | W/E 1 NOVEMBER WEEK | TOTAL | W/E 8 NOVEMBER WEEK | TOTAL |
|--|------------------------|---------|------------------------|---------------------|------------------------|---------------------|
| Volume aqueous phase removed (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume aqueous phase treated (gal.) | 13,210 | 49,610 | 26,954 | 76,564 | 5,436 | 82,000 |
| Volume of aqueous phase to POTW (gal.) | 0 | 0 | 23,362 | 23,362 | 26,248 | 49,610 |
| Volume sludge treated (gal.) | 51,576 | 112,976 | 34,384 | 147,360 | 49,120 | 196,480 |
| Weight filter-cake off-site (tons) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate produced (gal.) | Unknown | Unknown | Unknown | 88,610 by 29 Oct | Unknown | 140,999 by 6 Nov |
| Volume filtrate treated (gal.) | 0 | 0 | 0 | 0 | 8,276 | 8,276 |
| Volume filtrate to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water present (gal.) | 0 | 0 | 12,623 | 12,623 | 0 | 0 |
| Volume extraneous water treated (gal.) | 0 | 0 | 0 | 0 | 12,623 | 12,623 |
| Volume extraneous water to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |

SINCLAIR REFINERY, WELLSVILLE, NEW YORK

UNIT 2, SEPARATOR REMEDIATION

| ITEM | W/E 15 WEEK | NOVEMBER TOTAL | W/E 22 WEEK | NOVEMBER TOTAL | W/E 29 WEEK | NOVEMBER TOTAL |
|--|----------------|-------------------|----------------|-------------------|----------------|-------------------|
| Volume aqueous phase removed (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume aqueous phase treated (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume of aqueous phase to POTW (gal.) | 32,390 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume sludge treated (gal.) | 41,752 | 238,232 | 38,068 | 276,300 | 5,912 | 282,212 |
| Weight filter-cake off-site (tons) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate produced (gal.) | Unknown | 193,875 | 14,971 | 208,846 | 14,971 | 223,817 |
| | | by 15 Nov | | | | |
| Volume filtrate treated (gal.) | 25,451 | 33,727 | 19,795 | 53,522 | 5,656 | 59,178 |
| Volume filtrate to POTW (gal.) | 8,276 | 8,276 | 0 | 8,276 | 0 | 8,276 |
| Volume extraneous water present (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water treated (gal.) | 0 | 12,623 | 0 | 12,623 | 0 | 12,623 |
| Volume extraneous water to POTW (gal.) | 12,623 | 12,623 | 0 | 12,623 | 0 | 12,623 |

| ITEM | W/E 6 WEEK | DECEMBER TOTAL | W/E 13 WEEK | DECEMBER TOTAL | W/E 20 WEEK | DECEMBER TOTAL |
|--|---------------|-------------------|----------------|-------------------|----------------|-------------------|
| Volume aqueous phase removed (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume aqueous phase treated (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume of aqueous phase to POTW (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume sludge treated (gal.) | 0 | 282,212 | 0 | 282,212 | 0 | 282,212 |
| Weight filter-cake off-site (tons) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate produced (gal.) | 2,579 | 226,396 | 7,445 | 233,841 | 0 | 233,841 |
| Volume filtrate treated (gal.) | 53,023 | 112,201 | 0 | 112,201 | 50,902 | 163,103 |
| Volume filtrate to POTW (gal.) | 50,902 | 59,178 | 0 | 59,178 | 53,023 | 112,201 |
| Volume extraneous water present (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water treated (gal.) | 0 | 12,623 | 0 | 12,623 | 0 | 12,623 |
| Volume extraneous water to POTW (gal.) | 0 | 12,623 | 0 | 12,623 | 0 | 12,623 |

SINCLAIR REFINERY, WELLSVILLE, NEW YORK

UNIT 2, SEPARATOR REMEDIATION

| ITEM | W/E 27 WEEK | DECEMBER TOTAL | W/E 3 WEEK | JANUARY TOTAL | W/E 10 WEEK | JANUARY TOTAL |
|--|----------------|-------------------|---------------|------------------|----------------|------------------|
| Volume aqueous phase removed (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume aqueous phase treated (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume of aqueous phase to POTW (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume sludge treated (gal.) | 0 | 282,212 | 0 | 282,212 | 0 | 282,212 |
| Weight filter-cake off-site (tons) | 0 | 0 | 163 | 163 | 128 | 291 |
| Volume filtrate produced (gal.) | 0 | 233,841 | 0 | 233,841 | 0 | 233,841 |
| Volume filtrate treated (gal.) | 0 | 163,103 | 16,897 | 180,000 | 34,005 | 214,005 |
| Volume filtrate to POTW (gal.) | 25,451 | 137,652 | 25,451 | 163,103 | 0 | 163,103 |
| Volume extraneous water present (gal.) | unknown | unknown | unknown | unknown | unknown | unknown |
| Volume extraneous water treated (gal.) | 0 | 12,623 | 0 | 12,623 | 0 | 12,623 |
| Volume extraneous water to POTW (gal.) | 0 | 12,623 | 0 | 12,623 | 0 | 12,623 |

| ITEM | W/E 17 WEEK | JANUARY TOTAL | W/E 24 WEEK | JANUARY TOTAL | W/E 31 WEEK | JANUARY TOTAL |
|---|----------------|------------------|----------------|------------------|----------------|------------------|
| Volume aqueous phase removed (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume aqueous phase treated (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume of aqueous phase to POTW (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume sludge treated (gal.) | 0 | 282,212 | 0 | 282,212 | 0 | 282,212 |
| Weight filter-cake off-site (tons) | 31 | 322 | 0 | 322 | 0 | 322 |
| Volume filtrate produced (gal.) | 0 | 233,841 | 0 | 233,841 | 0 | 233,841 |
| Volume filtrate treated (gal.) | 19,836 | 233,841 | 0 | 233,841 | 0 | 233,841 |
| Volume filtrate to POTW (gal.) | 50,902 | 214,005 | 19,836 | 233,841 | 0 | 233,841 |
| Volume extraneous water present (gal.) | unknown | unknown | unknown | unknown | unknown | 27,076 |
| Volume extraneous water treated (gal.) | 5,615 | 18,238 | 0 | 18,238 | 8,838 | 27,076 |
| Volume extraneous water to POTW (gal.) | 0 | 12,623 | 5,615 | 18,238 | 4,596 | 22,834 |
| Volume extraneous water to river (gal.) | 0 | 0 | 0 | 0 | 4,242 | 4,242 |

WEEKLY FIELD REPORT

TO: Mr. Robert E. Ivy, ARCO

FROM: Roger B. North, P.E., GeoSyntec Consultants *RBN*
Jonathan E. Brandes, GeoSyntec Consultants *JEB*

DATE: 3 March 1993

SUBJECT: 22 to 28 February 1993, Weekly Field Report
Sinclair Refinery Site Remediation
Wellsville, New York

The following key activities took place at the Sinclair Refinery Site, Wellsville, New York, during the week of 22 to 28 February 1993:

UNIT 1

- GeoSyntec Consultants received 9 refinery surface soil analytical results from Law Environmental, Inc. on 25 February for samples collected on 11 February from area C (powerhouse). Data indicates 3 locations with arsenic concentrations above 25 ppm.

UNIT 2, SEPARATOR

- Severson demobilized contractor's trailer on 25 February.

UNIT 2, POWERHOUSE

- Bakers of Jerrico Hill excavated material from opening at bottom of stack on 26 February.

* * * * *

Copy to: D. A. Christensen, P.E., ARCO
D. E. Grooms, ARCO
J. K. Kimura, ARCO
Dr. J. F. Beech, P.E., GeoSyntec Consultants

WEEKLY FIELD REPORT

TO: Mr. Robert E. Ivy, ARCO

FROM: Roger B. North, P.E., GeoSyntec Consultants *RBN*
Jonathan E. Brandes, GeoSyntec Consultants *JEB*

DATE: 4 March 1993

SUBJECT: 1 to 7 February 1993, Weekly Field Report
Sinclair Refinery Site Remediation
Wellsville, New York

The following key activities took place at the Sinclair Refinery Site, Wellsville, New York, during the week of 1 to 7 February 1993:

UNIT 1

- Approximately 1,272 tons of riprap delivered from Buffalo Crushed Stone's Wherle Road, Buffalo, quarry between 2 and 5 February for a total of 2835 tons; material stockpiled in staging area.
- GeoSyntec Consultants received 3 refinery surface soil analytical results from Law Environmental, Inc. on 5 February for samples collected on 18 January from area C (powerhouse). Data indicates arsenic concentrations below 25 ppm.
- Refinery surface soil conformational samples collected by GeoSyntec Consultants in refinery areas A (Current Controls), 3 samples, and C (powerhouse), 13 samples, on 4 and 5 February. Samples sent to Law Environmental Inc., Pensacola, Florida, to determine lead and/or arsenic concentrations.

UNIT 2, SEPARATOR

- General site cleanup and demobilization activities continued throughout week.
- Completed dismantling east 30,000 gal. Modutank on 1 February.
- Decontaminated and dismantled west 100,000 gal. Modutank between 1 and 3 February.

- Continued treatment of liquid phase in west 30,000 gal. Modutank on 1 February; completed on 3 February. This completed the treatment of all liquid phase material (aqueous phase, filtrate, and miscellaneous water).
- Removal of residual sludge from west 30,000 gal. Modutank to vacuum truck completed on 2 February.
- Decontaminated and dismantled west 30,000 gal. Modutank on 3 and 4 February. This completes dismantling of all Modutanks.
- Residual sludge that was removed from 100,000 gal. Modutank (week ending 31 January) and west 30,000 gal. Modutank and stored in vacuum truck was stabilized with lime and placed in roll-off boxes 268 and 527 from 1 to 4 February.
- Residual sludge in roll-off boxes 268 and 527 sampled on 4 February. Samples sent to Law Environmental Inc., Pensacola, Florida, for K051 analysis.
- Removed decontamination pad and associated materials on 5 February.

UNIT 2, POWERHOUSE

- No activity.

* * * * *

Copy to: D. A. Christensen, P.E., ARCO
D. E. Grooms, ARCO
J. K. Kimura, ARCO
Dr. J. F. Beech, P.E., GeoSyntec Consultants

WEEKLY FIELD REPORT

TO: Mr. Robert E. Ivy, ARCO

FROM: Roger B. North, P.E., GeoSyntec Consultants *RB*
Jonathan E. Brandes, GeoSyntec Consultants *SEB*

DATE: 4 March 1993

SUBJECT: 8 to 14 February 1993, Weekly Field Report
Sinclair Refinery Site Remediation
Wellsville, New York

The following key activities took place at the Sinclair Refinery Site, Wellsville, New York, during the week of 8 to 14 February 1993:

UNIT 1

- Approximately 1,507 tons of riprap delivered from Buffalo Crushed Stone's Wherle Road, Buffalo, quarry between 8 and 12 February for a total of 4,342 tons; material stockpiled in staging area.
- GeoSyntec Consultants received 16 refinery surface soil analytical results from Law Environmental, Inc. on 10 February for samples collected on 5 February from areas A (Current Controls) and C (powerhouse). Data indicates 1 location in area A and 6 locations in area C with arsenic concentrations above 25 ppm.
- Additional surface soil conformational sampling performed by GeoSyntec Consultants in refinery area C (powerhouse), 9 samples, on 11 February. Samples sent to Law Environmental Inc., Pensacola, Florida, to determine arsenic concentrations.
- C. Bailey on-site on 12 February to determine unit weight of riprap delivered to site.

UNIT 2, SEPARATOR

- General site cleanup and demobilization activities continued throughout week.
- Moved three roll-off boxes containing sludge to powerhouse

enclosure on 8 February. All 14 remaining roll-off boxes are now in powerhouse enclosure.

- Demobilized water treatment plant and site fuel tank on 8 February.
- Completed removal of perimeter fencing on 9 February.
- Continued final site grading between 8 and 11 February. An additional 100 tons of gravel was placed around manholes 3 and 4. Topographic survey conducted on 11 February.
- Final inspection held on 11 February. No EPA or DEC representatives present.
- Sampled filtercake in 10 roll-off boxes on 11 February. Samples sent to General Testing Corporation, Rochester, New York, for K051 analysis.
- Cleaned and painted 10 steel pipe sections approximately 8-ft long and 8-in. diameter on 11 and 12 February. Pipe sections to be used around manholes 1, 2 and existing manhole to protect the manholes from vehicular traffic.
- Demobilized shower trailer on 11 February.

UNIT 2, POWERHOUSE

- Geo-Con removed spoil heap from base of stack on 10 February to uncover small opening at bottom of stack.

* * * * *

Copy to: D. A. Christensen, P.E., ARCO
D. E. Grooms, ARCO
J. K. Kimura, ARCO
Dr. J. F. Beech, P.E., GeoSyntec Consultants

WEEKLY FIELD REPORT

TO: Mr. Robert E. Ivy, ARCO

FROM: Roger B. North, P.E., GeoSyntec Consultants *RBN*
Jonathan E. Brandes, GeoSyntec Consultants *JEB*

DATE: 4 March 1993

SUBJECT: 15 to 21 February 1993, Weekly Field Report
Sinclair Refinery Site Remediation
Wellsville, New York

The key activities that took place at the Sinclair Refinery Site, Wellsville, New York, during the week of 15 to 21 February 1993 are listed below. GeoSyntec Consultants was not present at the site this week.

UNIT 1

- Approximately 618 tons of riprap delivered from Buffalo Crushed Stone's Wherle Road, Buffalo, quarry between 15 and 17 February for a total of 4,960 tons; material stockpiled in staging area.
- Geo-Con removed HDPE pipe and front-end loader from site on 19 February.

UNIT 2, SEPARATOR

- Installed 4 bollards around manhole 1, and 6 bollards around manhole 2 and existing catch basin NCB-2 on 15 and 16 February to protect the manholes from vehicular traffic. Each bollard consists of the 8-ft (2.4-m) long pipe sections, that were painted during the week ending 14 February, inserted 4-ft (1.2-m) into the ground with 4000 psi concrete and filled internally with 4000 psi concrete.
- General site cleanup and demobilization activities continued on 15 and 16 February.
- Demobilized D-65 Komatsu bulldozer and tool trailer on 15 February.
- Severson completed demobilization on 16 February except for

15 to 21 February 1993, Weekly Field Report
4 March 1993
Page 2

contractor trailer and International utility loader.

- Received KO51 analytical results for roll-off sample numbers 35 and 36 during week.

UNIT 2, POWERHOUSE

- No activity.

* * * * *

Copy to: D. A. Christensen, P.E., ARCO
D. E. Grooms, ARCO
J. K. Kimura, ARCO
Dr. J. F. Beech, P.E., GeoSyntec Consultants

WEEKLY FIELD REPORT

TO: Mr. Robert E. Ivy, ARCO

FROM: Roger B. North, P.E., GeoSyntec Consultants RBN
Jonathan E. Brandes, GeoSyntec Consultants JEER

DATE: 9 March 1993

SUBJECT: 1 to 7 March 1993, Weekly Field Report
Sinclair Refinery Site Remediation
Wellsville, New York

The following key activities took place at the Sinclair Refinery Site, Wellsville, New York, during the week of 1 to 7 March 1993:

UNIT 1

- Additional surface soil conformational sampling performed by GeoSyntec Consultants in refinery area C (powerhouse) on 3 March. Samples sent to Law Environmental, Inc., Pensacola, Florida to determine arsenic concentrations.

UNIT 2, SEPARATOR

- Six roll-off boxes containing filtercake transported on 3 March by Buffalo Fuel Corporation to LWD Inc., Culvert City, Kentucky for incineration.
- Two roll-off boxes containing sand and residuals and 1 roll-off box containing filtercake transported on March 5 by Buffalo Fuel Corporation to Chemical Waste Management RCRA Landfill, located at Model City, New York.

UNIT 2, POWERHOUSE

- John Murphy (AET) and Benito San Pedro, P.E. (Brad Associates) on-site on 1 March to start process of developing a demolition work plan. They collected samples from various areas including turbine room and smoke stack, but not inside main powerhouse area. Samples will be analyzed for the presence of asbestos.

* * * * *

Copy to: D. A. Christensen, P.E., ARCO
D. E. Grooms, ARCO
J. K. Kimura, ARCO
Dr. J. F. Beech, P.E., GeoSyntec Consultants

WEEKLY FIELD REPORT

TO: Mr. Robert E. Ivy, ARCO

FROM: Roger B. North, P.E., GeoSyntec Consultants *RB*
Jonathan E. Brandes, GeoSyntec Consultants *JEB*

DATE: 11 March 1993

SUBJECT: 8 to 14 March 1993, Weekly Field Report
Sinclair Refinery Site Remediation
Wellsville, New York

The key activities that took place at the Sinclair Refinery Site, Wellsville, New York, during the week of 8 to 14 March 1993 are listed below. ARCO and GeoSyntec Consultants temporarily demobilized from site during the week.

UNIT 1

- Second Refinery Surface Soil Cleanup submittal sent to EPA on 9 March.

UNIT 2, SEPARATOR

- Three roll-off boxes containing filtercake and two roll-off box containing residual sludge transported on March 8 by Buffalo Fuel Corporation to Chemical Waste Management RCRA Landfill, located at Model City, New York. Represents removal of last roll-off boxes.

UNIT 2, POWERHOUSE

- No activity.

* * * * *

Copy to: D. A. Christensen, P.E., ARCO
D. E. Grooms, ARCO
J. K. Kimura, ARCO
Dr. J. F. Beech, P.E., GeoSyntec Consultants

WEEKLY FIELD REPORT

TO: Mr. Robert E. Ivy, ARCO

FROM: Roger B. North, P.E., GeoSyntec Consultants
Jonathan E. Brandes, GeoSyntec Consultants

JEB

DATE: 19 May 1993

SUBJECT: 3 to 9 May 1993, Weekly Field Report
Sinclair Refinery Site Remediation
Wellsville, New York

The following key activities took place at the Sinclair Refinery Site, Wellsville, New York, during the week of 3 to 9 May 1993:

UNIT 1

- GeoSyntec Consultants and On-Site Health and Safety performed operation and maintenance activities associated with CELA monitoring wells and piezometers on 5, 6 and 7 May. Water samples taken from monitoring wells MWR-1 to MWR-11 and piezometers P-3 and P-5. Samples sent to Alfred Technical & Analytical Laboratory, Alfred, New York, for analysis. Other parameters measured on-site as part of activities.
- GeoSyntec Consultants collected additional surface soil confirmational samples from nine locations at Refinery Area C (powerhouse) on 4 May, two locations at Refinery Area B (end of swale) and two locations at Refinery Area C on 6 May, and eight locations at Refinery Area G (dike area) on 6 May. Samples sent to Law Environmental, Pensacola, Florida, to determine arsenic concentrations.
- Geo•Con continued pumping water from north temporary holding pond in SLA to sanitary sewer, which leads directly to POTW, until completed on 7 May.

3 to 9 March 1993, Weekly Field Report

19 May 1993

Page 2

- Geo•Con cleaned liner in north temporary holding pond between 4 and 7 May.
- Throughout the week Geo•Con determined the thickness of the common fill on the CELA cap at approximately 50 locations by hand excavating through common fill at approximately 25 locations and measuring through the 25 temporary settlement points.
- General site clean-up performed throughout week.

UNIT 2, SEPARATOR

- No activity.

UNIT 2, POWERHOUSE

- GeoSyntec Consultants continued preparation of Powerhouse Remediation Work Plan.

* * * * *

Copy to: D. A. Christensen, P.E., ARCO
D. E. Grooms, ARCO
J. K. Kimura, ARCO
M. Hrywnak, COE
L. B. Macdonald, Morrison Knudsen Corporation
Dr. J. F. Beech, P.E., GeoSyntec Consultants

WEEKLY FIELD REPORT

TO: Mr. Robert E. Ivy, ARCO

FROM: Roger B. North, P.E., GeoSyntec Consultants
Jonathan E. Brandes, GeoSyntec Consultants *SEB*

DATE: 24 May 1993

SUBJECT: 17 to 23 May 1993, Weekly Field Report
Sinclair Refinery Site Remediation
Wellsville, New York

The following key activities took place at the Sinclair Refinery Site, Wellsville, New York, during the week of 17 to 23 May 1993:

UNIT 1

- GeoSyntec Consultants collected additional surface soil confirmational samples from two locations in Refinery Area B (end of swale), 11 locations in Refinery Area C (powerhouse), and five locations in Refinery Area G (dike area) on 17 and 18 May. Samples sent to Law Environmental, Pensacola, Florida, to determine arsenic concentrations.
- Geo•Con removed liners and backfilled temporary holding ponds in SLA on 19 and 20 May.
- Geo•Con backfilled synthetics anchor trench on east and north sides of CELA and repaired slope on CELA side of west dike between 18 and 21 May.
- Geo•Con imported common fill, for anchor trench backfill and repair of west dike slope, between 18 and 21 May. See table below for quantities.
- Geo•Con started seeding slope on CELA side of west dike on 19 May.
- Geo•Con pressure washed underliner in west drainage channel on 20 and 21 May.

GQ3201/WE0087

17 to 23 May 1993, Weekly Field Report

24 May 1993

Page 2

- Geo•Con performed liner repair work in drainage channel on east, north, and west side of CELA throughout week.
- Geo•Con deployed primary Gundseal and VLDPE on east and north drainage channel on 19 May. See table below for quantities.
- Geo•Con deployed geocomposite on east and north drainage channel on 21 May. See table below for quantities.
- Geo•Con started excavating common fill from along the alignments of the rock chutes and swales on CELA cap on 21 May.
- Geo•Con mobilized Caterpillar D5H Dozer and Caterpillar EL240B track hoe on 17 May, and Gradall 660E on 21 May.
- General site clean up performed on 21 May.

| Item | Quantity This Week | Cumulative Quantity |
|---|-----------------------|------------------------|
| Gas Vent Stone (tons) | 0 (Completed) | 30,095 |
| CELA Geotextile (TS700) (ft ²) | 0 (Completed) | 1,042,618 |
| CELA Geotextile (TS700) (m ²) | 0 (Completed) | 96,898 |
| CELA Geotextile (TS1000) (ft ²) | 0 | 100,700 |
| CELA Geotextile (TS1000) (m ²) | 0 | 9,359 |
| Secondary VLDPE (ft ²) | 0 (Completed) | 83,845 |
| Secondary VLDPE (m ²) | 0 (Completed) | 7,792 |
| Secondary Gundseal (ft ²) | 0 (Completed) | 39,566 |
| Secondary Gundseal (m ²) | 0 (Completed) | 3,677 |

GQ3201/WE0087

| Item | Quantity This Week | Cumulative Quantity |
|---------------------------------------|-----------------------|------------------------|
| Primary Gundseal (ft ²) | 9,000 | 539,132 |
| Primary Gundseal (m ²) | 836 | 50,105 |
| Primary VLDPE (ft ²) | 12,320 | 557,771 |
| Primary VLDPE (m ²) | 1,145 | 51,837 |
| Geocomposite Layer (ft ²) | 6,600 | 524,730 |
| Geocomposite Layer (m ²) | 613 | 48,767 |
| Common Fill (tons) | 702 | 46,405 |

UNIT 2, SEPARATOR

- Lynch Paving and Contracting Inc., as a subcontractor to Severson, graded and compacted the footprint of the separator on 20 and 21 May.

UNIT 2, POWERHOUSE

- GeoSyntec Consultants continued preparation of Powerhouse Remediation Work Plan.

* * * * *

Copy to: D. A. Christensen, P.E., ARCO
D. E. Grooms, ARCO
J. K. Kimura, ARCO
M. Hrywnak, COE
L. B. Macdonald, Morrison Knudsen Corporation
Dr. J. F. Beech, P.E., GeoSyntec Consultants

GQ3201/WE0087

WEEKLY FIELD REPORT

TO: Mr. Robert E. Ivy, ARCO

FROM: Roger B. North, P.E., GeoSyntec Consultants
Jonathan E. Brandes, GeoSyntec Consultants *JEB*

DATE: 26 May 1993

SUBJECT: 10 to 16 May 1993, Weekly Field Report
Sinclair Refinery Site Remediation
Wellsville, New York

The following key activities took place at the Sinclair Refinery Site, Wellsville, New York, during the week of 10 to 16 May 1993:

UNIT 1

- Spring remobilization kick-off meeting for Unit 1 held on site on 11 May.
- Received results on 11 May from the geotextile component of the four geocomposite samples which were obtained on 29 April 1993 from locations immediately adjacent to the locations of the four samples collected on 13 January and tested on 28 January 1993. The results from the April samples have been compared to results from the January samples. The data indicates that no significant degradation of the geotextile occurred due to exposure between 13 January 1993 and 29 April 1993.
- GeoSyntec Consultants received preliminary results on 11 May for nine refinery area confirmational soil samples collected from refinery area C (powerhouse) on 4 May. Results indicate additional locations with arsenic concentrations above 25 ppm.
- GeoSyntec Consultants received preliminary results on 12 May for refinery area confirmational soil samples collected on 6 May from two locations in refinery area B (end of swale), two locations in refinery area C (powerhouse),

10 to 16 May 1993, Weekly Field Report

26 May 1993

Page 2

and seven locations in refinery area G (dike area). Results indicate some locations in all three areas with arsenic concentrations above 25 ppm.

- Geo•Con hand excavated liner anchor trench on east and north sides of CELA between 10 and 13 May.
- Geo•Con cut holes in perimeter drainage channel underliner on east and north sides of CELA and removed water from subgrade on 13 and 14 May.
- Geo•Con deployed primary Gundseal and VLDPE on east perimeter drainage channel on 14 May. See table below for quantities.
- Geo•Con mobilized Caterpillar IT18F loader on 13 May.

| Item | Quantity This Week | Cumulative Quantity |
|---|-----------------------|------------------------|
| Gas Vent Stone (tons) | 0 (Completed) | 30,095 |
| CELA Geotextile (TS700) (ft ²) | 0 (Completed) | 1,042,618 |
| CELA Geotextile (TS700) (m ²) | 0 (Completed) | 96,898 |
| CELA Geotextile (TS1000) (ft ²) | 0 | 100,700 |
| CELA Geotextile (TS1000) (m ²) | 0 | 9,359 |
| Secondary Gundseal (ft ²) | 0 (Completed) | 39,566 |
| Secondary Gundseal (m ²) | 0 (Completed) | 3,677 |
| Secondary VLDPE (ft ²) | 0 (Completed) | 83,845 |
| Secondary VLDPE (m ²) | 0 (Completed) | 7,792 |
| Primary Gundseal (ft ²) | 6,000 | 530,132 |

10 to 16 May 1993, Weekly Field Report
26 May 1993
Page 3

| Item | Quantity This Week | Cumulative Quantity |
|---------------------------------------|-----------------------|------------------------|
| Primary Gundseal (m ²) | 558 | 49,269 |
| Primary VLDPE (ft ²) | 8,800 | 545,451 |
| Primary VLDPE (m ²) | 818 | 50,692 |
| Geocomposite Layer (ft ²) | 0 | 518,130 |
| Geocomposite Layer (m ²) | 0 | 48,153 |
| Common Fill (tons) | 0 | 45,703 |

UNIT 2, SEPARATOR

- Chris Julin (Sevenson) on site on 13 May to discuss paving separator area.

UNIT 2, POWERHOUSE

- GeoSyntec Consultants continued preparation of Powerhouse Remediation Work Plan.

* * * * *

Copy to: D. A. Christensen, P.E., ARCO
D. E. Grooms, ARCO
J. K. Kimura, ARCO
M. Hrywnak, COE
L. B. Macdonald, Morrison Knudsen Corporation
Dr. J. F. Beech, P.E., GeoSyntec Consultants

GQ3201/WE0086

WEEKLY FIELD REPORT

TO: Mr. Robert E. Ivy, ARCO

FROM: Roger B. North, P.E., GeoSyntec Consultants
Jonathan E. Brandes, GeoSyntec Consultants

DATE: 2 June 1993

SUBJECT: 24 to 30 May 1993, Weekly Field Report
Sinclair Refinery Site Remediation
Wellsville, New York

RBN
JEB

The following key activities took place at the Sinclair Refinery Site, Wellsville, New York, during the week of 24 to 30 May 1993:

UNIT 1

- GeoSyntec Consultants received preliminary results on 24 May for refinery area confirmational soil samples collected on 17 and 18 May from two locations in Refinery Area B (end of swale), 11 locations in Refinery Area C (powerhouse), and five locations in Refinery Area G (dike area). Results indicate some locations in all three areas with arsenic concentrations above 25 ppm.
- GeoSyntec Consultants collected additional surface soil confirmational samples on 25 May from four locations in Refinery Area B (end of swale), and one location in Refinery Area G (dike area), and on 26 May from 12 locations in Refinery Area C (powerhouse). Samples sent to Law Environmental, Pensacola, Florida, to determine arsenic concentrations.
- Geo•Con continued excavating common fill from along the alignments of the rock chutes and swales on the CELA cap on 24 and 25 May, and completed excavation on 26 May.
- Geo•Con imported common fill on 27 May for anchor trench backfill and to repair the slope on the CELA side of the west dike and on 27 and 28 May for

GQ3201/WE0088

24 to 30 May 1993, Weekly Field Report

2 June 1993

Page 2

CELA cap. See table below for quantities.

- Geo•Con performed liner repair work in drainage channel on north, south, and west sides of CELA throughout week.
- Geo•Con deployed primary Gundseal on west drainage channel on 24 May and primary Gundseal and VLDPE on west and north drainage channel on 25 and 26 May. See table below for quantities.
- Geo•Con deployed geocomposite on west drainage channel on 27 May.
- Received satisfactory results from Murray Associates Inc., Pittsburgh, Pennsylvania, for VLDPE destructive samples DS-75 and DS-76 on 24 May.
- Geo•Con cut VLDPE destructive samples DS-77 and DS-78 on 26 May. Received satisfactory results from Murray Associates Inc., Pittsburgh, Pennsylvania, for these samples on 28 May.
- Geo•Con started excavating anchor trenches for geotextile TS1000 along sides of rock chutes and swales on 26 May and continued throughout week.
- Geo•Con deployed TS1000 geotextile in rock chutes and swales on CELA cap on 27 and 28 May. See table below for quantities.
- Geo•Con imported and stockpiled bedding stone in SLA on 27 and 28 May. See table below for quantities.
- Wood chip stock pile at northwest end of CELA loaded on trucks and dumped at various locations on CELA on 26 May. Wood chips will be mixed with topsoil and spread on CELA.
- Geo•Con mobilized Caterpillar 966F loader on 28 May.

GQ3201/WE0088

24 to 30 May 1993, Weekly Field Report

2 June 1993

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| Item | Quantity This Week | Cumulative Quantity |
|--|-----------------------|------------------------|
| Gas Vent Stone (tons) | 0 (Completed) | 30,095 |
| CELA Geotextile (TS700) (ft ²) | 0 (Completed) | 1,042,618 |
| CELA Geotextile (TS700) (m ²) | 0 (Completed) | 96,898 |
| CELA Geotextile (TS1000) (ft ²) | 0 (Completed) | 100,700 |
| CELA Geotextile (TS1000) (m ²) | 0 (Completed) | 9,359 |
| Channel Geotextile (TS1000) (ft ²) | 15,000 | 15,000 |
| Channel Geotextile(TS1000) (m ²) | 1,394 | 1,394 |
| Secondary VLDPE (ft ²) | 0 (Completed) | 83,845 |
| Secondary VLDPE (m ²) | 0 (Completed) | 7,792 |
| Secondary Gundseal (ft ²) | 0 (Completed) | 39,566 |
| Secondary Gundseal (m ²) | 0 (Completed) | 3,677 |
| Primary Gundseal (ft ²) | 24,000 (Completed) | 563,132 |
| Primary Gundseal (m ²) | 2,230 (Completed) | 52,336 |
| Primary VLDPE (ft ²) | 18,998 (Completed) | 576,769 |
| Primary VLDPE (m ²) | 1,766 (Completed) | 53,603 |
| Geocomposite Layer (ft ²) | 10,000 (Completed) | 534,730 |
| Geocomposite Layer (m ²) | 929 (Completed) | 49,696 |
| Bedding Stone (tons) | 541 | 541 |
| Common Fill (tons) | 1,620 | 48,025 |

GQ3201/WE0088

24 to 30 May 1993, Weekly Field Report
2 June 1993
Page 4

UNIT 2, SEPARATOR

- Lynch Paving and Contracting Inc., as a subcontractor to Severson, sprayed asphalt tack coat on the separator footprint on 27 May and started paving on 28 May.

UNIT 2, POWERHOUSE

- No activity.

* * * * *

Copy to: D. A. Christensen, P.E., ARCO
D. E. Grooms, ARCO
J. K. Kimura, ARCO
M. Hrywnak, COE
L. B. Macdonald, Morrison Knudsen Corporation
Dr. J. F. Beech, P.E., GeoSyntec Consultants

GQ3201/WE0088

WEEKLY FIELD REPORT

TO: Mr. Robert E. Ivy, ARCO

FROM: Roger B. North, P.E., GeoSyntec Consultants
Jonathan E. Brandes, GeoSyntec Consultants JEB

DATE: 9 June 1993

SUBJECT: 31 May to 6 June 1993, Weekly Field Report
Sinclair Refinery Site Remediation
Wellsville, New York

The following key activities took place at the Sinclair Refinery Site, Wellsville, New York, during the week of 31 May to 6 June 1993:

UNIT 1

- GeoSyntec Consultants received preliminary results on 2 June for refinery area confirmational soil samples collected on 25 and 26 May from 12 locations in Refinery Area C (powerhouse), and one location in Refinery Area G (dike area). Results indicate one location in Refinery Area C with arsenic concentrations above 25 ppm.
- GeoSyntec Consultants collected additional surface soil confirmational samples on 4 June from six locations in Refinery Area C (powerhouse). Samples sent to Law Environmental Inc., Pensacola, Florida, to determine arsenic concentrations.
- Geo•Con imported common fill on 1, 2, and 3 June for CELA cap and

GQ3201/WE0090

perimeter grading on west side of CELA. See table below for quantities.

- Geo•Con deployed TS1000 geotextile in rock chutes and swales on 1, 2, and 3 June and in perimeter drainage channel on 2, 3, and 4 June. See table below for quantities.
- Bedding stone was imported and stockpiled in SLA on 2, 3, and 4 June and placed in rock chutes and swales on CELA cap on 1, 2, and 3 June and in perimeter drainage channel starting on 2 June and continuing throughout week. See table below for quantities.
- Geo•Con placed rip-rap in rock chutes and swales on CELA cap on 1 and 2 June and in perimeter drainage channel starting on 3 June and continuing throughout week.
- Topsoil was imported on 3, 4, and 5 June, stockpiled at north end of CELA on 3 June and spread at south end of CELA on 4 and 5 June. See table below for quantities.
- Geo•Con placed permanent settlement plates on CELA cap on 1 and 2 June. Settlement plates will be surveyed at a later date.
- To prevent erosion, Geo•Con placed jute mat and seeded the CELA side of the west dike along the north and northeast sides of the CELA on 2 June.
- Empire Soils Investigations Inc. visited the site on 4 June to extend piezometer P-6 and pipe sleeve PS-5 at north end of CELA. Work was not completed.

| Item | Quantity This Week | Cumulative Quantity |
|--|-----------------------|------------------------|
| Gas Vent Stone (tons) | 0 (Completed) | 30,095 |
| CELA Geotextile (TS700) (ft ²) | 0 (Completed) | 1,042,618 |
| CELA Geotextile (TS700) (m ²) | 0 (Completed) | 96,898 |
| CELA Geotextile (TS1000) (ft ²) | 0 (Completed) | 100,700 |
| CELA Geotextile (TS1000) (m ²) | 0 (Completed) | 9,359 |
| Channel Geotextile (TS1000) (ft ²) | 69,000 | 84,000 |
| Channel Geotextile(TS1000) (m ²) | 6,413 | 7,807 |
| Secondary VLDPE (ft ²) | 0 (Completed) | 83,845 |
| Secondary VLDPE (m ²) | 0 (Completed) | 7,792 |
| Secondary Gundseal (ft ²) | 0 (Completed) | 39,566 |
| Secondary Gundseal (m ²) | 0 (Completed) | 3,677 |
| Primary Gundseal (ft ²) | 24,000 (Completed) | 563,132 |
| Primary Gundseal (m ²) | 2,230 (Completed) | 52,336 |
| Primary VLDPE (ft ²) | 18,998 (Completed) | 576,769 |
| Primary VLDPE (m ²) | 1,766 (Completed) | 53,603 |
| Geocomposite Layer (ft ²) | 10,000 (Completed) | 534,730 |
| Geocomposite Layer (m ²) | 929 (Completed) | 49,696 |
| Bedding Stone (tons) | 638 | 1,179 |
| Topsoil (tons) | 3,211 | 3,211 |
| Common Fill (tons) | 4,466 | 52,491 |

31 May to 6 June 1993, Weekly Field Report
9 June 1993
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UNIT 2, SEPARATOR

- Lynch Paving and Contracting Inc., as a subcontractor to Severson, continued paving separator footprint on 1 June and completed paving on 2 June. Sealer will be spread on asphalt at a later date.

UNIT 2, POWERHOUSE

- No activity.

* * * * *

Copy to: D. A. Christensen, P.E., ARCO
D. E. Grooms, ARCO
J. K. Kimura, ARCO
M. Hrywnak, COE
L. B. Macdonald, Morrison Knudsen Corporation
Dr. J. F. Beech, P.E., GeoSyntec Consultants

GQ3201/WE0090

WEEKLY FIELD REPORT

TO: Mr. Robert E. Ivy, ARCO

FROM: Roger B. North, P.E., GeoSyntec Consultants
Jonathan E. Brandes, GeoSyntec Consultants

DATE: 15 June 1993

SUBJECT: 7 to 13 June 1993, Weekly Field Report
Sinclair Refinery Site Remediation
Wellsville, New York

The following key activities took place at the Sinclair Refinery Site, Wellsville, New York, during the week of 7 to 13 June 1993:

UNIT 1

- GeoSyntec Consultants received preliminary results on 10 June for refinery area confirmational soil samples collected on 4 June from six locations in Refinery Area C (powerhouse). Results indicate two locations in Refinery Area C with arsenic concentrations slightly above 25ppm (28.6 and 25.3ppm).
- Geo•Con shaped dike side of northwest end of perimeter drainage channel and graded both sides of combining channel on 8 June.
- Geo•Con deployed TS1000 geotextile in combining channel and west end of north perimeter drainage channel on 10 June and at north end of culvert on 11 June. See table below for quantities.
- Bedding stone was imported and stockpiled in SLA on 7 June and placed in perimeter drainage channel on 7 and 8 June, and in combining channel on 10 June. See table below for quantity imported.

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7 to 13 June 1993, Weekly Field Report

15 June 1993

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- Geo•Con placed rip-rap in rock chutes and swales on CELA cap on 10 June, in perimeter drainage channel on 7, 8, 10, and 11 June and at north end of culvert on 11 June.
- Topsoil imported on and placed on CELA on 7, 8, 11, and 12 June and spread on east and north sides of CELA on 7, 8, 10, 11, and 12 June. See table below for quantities.
- Sunnydale Fencing, as a subcontractor to Geo•Con, drilled holes for fence posts on west dike on 10 and 11 June.
- Douglas C. Myers Professional Land Surveyors P. C. laid out property line for lot 86 along west perimeter drainage channel on 11 June. Property line closer to perimeter drainage channel than anticipated. Property line encroaches within limits of geosynthetics over distance of approximately 800ft (240m).
- Casing extensions for piezometer P-6 and pipe sleeve PS-5 taken to Stainless Steel Specialties, Wellsville, New York, for additional modifications on 8 June.
- Geo•Con performed general site clean up on 9 June. No other site work performed this day due to rain.

GQ3201/WE0091

7 to 13 June 1993, Weekly Field Report

15 June 1993

Page 3

| Item | Quantity This Week | Cumulative Quantity |
|--|-----------------------|------------------------|
| Gas Vent Stone (tons) | 0 (Completed) | 30,095 |
| CELA Geotextile (TS700) (ft ²) | 0 (Completed) | 1,042,618 |
| CELA Geotextile (TS700) (m ²) | 0 (Completed) | 96,898 |
| CELA Geotextile (TS1000) (ft ²) | 0 (Completed) | 100,700 |
| CELA Geotextile (TS1000) (m ²) | 0 (Completed) | 9,359 |
| Channel Geotextile (TS1000) (ft ²) | 9,000 | 93,000 |
| Channel Geotextile(TS1000) (m ²) | 836 | 8,643 |
| Secondary VLDPE (ft ²) | 0 (Completed) | 83,845 |
| Secondary VLDPE (m ²) | 0 (Completed) | 7,792 |
| Secondary Gundseal (ft ²) | 0 (Completed) | 39,566 |
| Secondary Gundseal (m ²) | 0 (Completed) | 3,677 |
| Primary Gundseal (ft ²) | 24,000 (Completed) | 563,132 |
| Primary Gundseal (m ²) | 2,230 (Completed) | 52,336 |
| Primary VLDPE (ft ²) | 18,998 (Completed) | 576,769 |
| Primary VLDPE (m ²) | 1,766 (Completed) | 53,603 |
| Geocomposite Layer (ft ²) | 10,000 (Completed) | 534,730 |
| Geocomposite Layer (m ²) | 929 (Completed) | 49,696 |
| Bedding Stone (tons) | 272 | 1,451 |
| Topsoil (tons) | 6,387 | 9,598 |
| Common Fill (tons) | 0 (Complete) | 52,491 |

GQ3201/WE0091

7 to 13 June 1993, Weekly Field Report
15 June 1993
Page 4

UNIT 2, SEPARATOR

- No Activity.

UNIT 2, POWERHOUSE

- No activity.

* * * * *

Copy to: D. A. Christensen, P.E., ARCO
D. E. Grooms, ARCO
J. K. Kimura, ARCO
M. Hrywnak, COE
L. B. Macdonald, Morrison Knudsen Corporation
Dr. J. F. Beech, P.E., GeoSyntec Consultants

GQ3201/WE0091

APPENDIX C

**GEOSYNTEC CONSULTANTS'
MONTHLY FIELD REPORTS**

MEMORANDUM

TO: Mr. Robert E. Ivy, ARCO

FROM: Roger B. North, P.E., GeoSyntec Consultants RB

DATE: 13 July 1992

SUBJECT: June 1992 Monthly Field Report
Sinclair Refinery Site Remediation
Wellsville, New York

The following main activities that were performed at the Sinclair Refinery Site, Wellsville, New York, during June 1992.

- Geo Con drilled two test borings along slurry wall alignment to confirm the depth of the clay layer and to obtain soil samples to check the soil-bentonite backfill mix design.
- Existing monitoring wells shown on drawing AR-12 grouted with exception of MW-12 and MW-17 which could not be located.
- Perimeter air monitoring initiated on Monday 22 June.
- Powerhouse walk through with asbestos inspector from AET on Wednesday 24 June.
- Prebid meeting for powerhouse remediation on Thursday 25 June.
- Prebid meeting for separator remediation on Thursday 25 June.
- Sedimentation basin constructed and storm water management initiated.
- Placement of traffic cap and working platform started at north end around sedimentation basin.

June 1992 Monthly Field Report
13 July 1992
Page 2

- Site cleared of trees and grubbing started.
- Partial mobilization of equipment and materials, including bentonite, for slurry wall construction.
- Agreed with EPA the locations at National Fuels to be soil sampled and tested for lead and arsenic; 21 locations identified.
- Approval testing of off-site fill and water started.

* * * * *

copy to: David E. Grooms, ARCO
Dr. J. F. Beech, P.E., GeoSyntec Consultants

MONTHLY FIELD REPORT

TO: Mr. Robert E. Ivy, ARCO

FROM: Roger B. North, P.E., GeoSyntec Consultants *RB*

DATE: 6 August 1992

SUBJECT: July 1992 Monthly Field Report
Sinclair Refinery Site Remediation
Wellsville, New York

The following main activities took place at the Sinclair Refinery Site, Wellsville, New York, during the month of July 1992.

- Slurry wall equipment mobilized to site and assembled. Slurry wall construction started on 9 July. Following summarizes progress to end July.

- Excavation from Station 3+00 to 0+00 (28+43) and 28+43 to 14+80.
- Depth of trench varied from 25 ft (7.6 m) (Station 19+00 to 18+00) to 43 ft (13.1) (Station 1+80 to 1+60).

| Quantity Excavated | July | Cumulative |
|---------------------------|--------|------------|
| Length (ft) | 1633 | 1633 |
| Length (m) | 497.9 | 497.9 |
| Length (%) | 65.8 | 65.8 |
| Area (ft ²) | 54,772 | 54,772 |
| Area (m ²) | 5,092 | 5,092 |
| Volume (yd ³) | 4,783 | 4,783 |
| Volume (m ³) | 3,660 | 3,660 |

- Placement of subgrade, traffic cap and working pad continued around slurry wall alignment.
- Stability analyses performed to analyze slurry wall in proximity to dike. Concluded stability could be maintained using a minimum slurry density of 85 pcf.
- Clearing and grubbing of the CELA area completed on 2 July.
- Clearing and grubbing of the refinery Area A, adjacent to Current Controls' building completed; Geo Con over-grubbed area.
- Clearing and grubbing around separator tanks performed on 16 July.
- Test pad removed from CELA.
- General grading of CELA cap underway.
- Stump grinding started on 14 July and completed on 20 July.
- Drum carcasses stockpiled within CELA. Drums from staging area to the north of the CELA transported to CELA between 15 and 17 July. (Three drums containing chemicals left in staging area for off-site disposal). All drums shredded between 21 and 24 July.
- Community Air Monitoring Plan developed.
- Liner removed from SLA material and shredded; completed on 24 July.
- GeoSyntec Consultants sampled soils around, but not within, refinery Areas A, B, E, F and G on 6 and 7 July. Samples tested by Law Environmental Inc., using ICP (inductively coupled plasma) at QA level 3. Three arsenic exceedences (>25 ppm) in Area A (adjacent to Current Controls' building). Area A enlarged to encompass the three locations.

July 1992 Monthly Field Report
6 August 1992
Page 3

- GeoSyntec Consultants sampled soils outside National Fuels office on 29 July. Laboratory analyses not completed in July.
- Textured 60 mil VLDPE geomembrane manufactured by Gundle Lining Systems Inc. starting on 22 July. GeoSyntec Consultants at Gundle plant for conformance sampling. Conformance test results indicate all samples meet specifications.
- Gundseal (low permeability geosynthetic) delivery started on 24 July.
- Geo Con reported that survey estimates indicate that cap capacity may be on order 22,000 yd³ less than required. Resurvey of CELA cap initiated on 25 July.

* * * * *

copy to: David E. Grooms, ARCO
Dr. J. F. Beech, P.E., GeoSyntec Consultants
Mike Hrywnak, COE

MONTHLY FIELD REPORT

TO: Mr. Robert E. Ivy, ARCO

FROM: Roger B. North, P.E., GeoSyntec Consultants *RBN*

DATE: 2 September 1992

SUBJECT: August 1992 Monthly Field Report
Sinclair Refinery Site Remediation
Wellsville, New York

The following main activities took place at the Sinclair Refinery Site, Wellsville, New York, during the month of August 1992.

UNIT 1

- Slurry wall construction until 10 August. Construction halted at Station 5+30; the section from Station 3+00 to 5+30 remains to be constructed. Trench completely filled with soil-bentonite backfill and the trench bentonite slurry pumped into a temporary above ground holding pond. Following summarizes progress to end August.

| Quantity Excavated | August | Cumulative |
|---------------------------|--------|------------|
| Length (ft) | 950 | 2583 |
| Length (m) | 289 | 787 |
| Length (%) | 25.2 | 91 |
| Area (ft ²) | 28,678 | 83,450 |
| Area (m ²) | 2,661 | 7,753 |
| Volume (yd ³) | 2,545 | 7,328 |
| Volume (m ³) | 1,943 | 5,603 |

- Subgrade, traffic cap and working pad completed around slurry wall alignment.
- GeoSyntec Consultants completed adjustment of CELA cap geometry to provide approximately 19,500 yd³ additional capacity.
- CELA grading being performed to adjusted cap geometry. Grading continues.
- Stabilization of low strength soils in the CELA started on 20 August, by mixing high early strength cement with waste material to a depth of approximately 3 ft. Approximately 6,500 yd³ completed by month's end. Stabilization continues.
- Refinery Areas A to G excavated, backfilled, seeded, fertilized and mulched. Confirmational sampling around the excavated areas started; to be completed in September. Excavated soil from Areas A to G placed in north end of CELA. Strength testing will be performed in September.
- Laboratory analyses of surface soil delineation samples from National Fuels' property completed. Results show arsenic and lead concentrations below action levels.
- Delivery of gas vent stone started on 6 August; stockpiled in staging area.
- Delivery of Gundseal (low permeability geosynthetic), geotextile (Polyfelt TS700 and TS1000), and 60-mil textured VLDPE geomembrane completed.
- Gas vent pipe delivered on 20 August; only fittings still outstanding.

August 1992 Monthly Field Report
2 September 1992
Page 3

UNIT 2

- Pre-mobilization meeting held on 14 August and pre-construction meeting held on 20 August.
- Severson started to establish site facilities.
- Surface debris cleared from site and stockpiled at east edge of site.

* * * * *

copy to: David E. Grooms, ARCO
Mike Hrywnak, COE
Dr. J. F. Beech, P.E., GeoSyntec Consultants

MONTHLY FIELD REPORT

TO: Mr. Robert E. Ivy, ARCO

FROM: Collin P. Sukow, GeoSyntec Consultants
Jonathan E. Brandes, GeoSyntec Consultants JEB

DATE: 1 October 1992

SUBJECT: September 1992 Monthly Field Report
Sinclair Refinery Site Remediation
Wellsville, New York

The following main activities took place at the Sinclair Refinery Site, Wellsville, New York, during the month of September 1992.

UNIT 1

- CELA grading continues to be performed to adjusted cap geometry.
- Stabilization of low strength soils in the CELA continues through the month of September, by mixing high early strength cement with waste material to a depth of approximately 3 ft. Approximately 13,400 yd³ of soil stabilized by month's end.
- Shelby tube samples taken from stabilized areas in CELA and tested for unconfined compressive strength.
- Conformation sampling around refinery areas A to G continued, and was completed on 17 September.
- Gas vent pipe fittings delivered on 11 September.
- Grading of CELA cap drainage channel started on 31 August at

station 27+80 and was completed to station 17+00 by 30 September.

- Placement of Gundseal and 60-mil thick VLDPE geomembrane started on 9 September and the underliner has been completed from station 27+80 to station 17+00 by 30 September. Panels U-1 to U-54 were placed on south and west sides of CELA. Approximately 37,948 ft² (3527 m²) of liner was placed entailing approximately 1691 linear ft (515 m) of seam.
- Installation of piezometers within CELA and monitoring well around perimeter of CELA started on 17 September; to be completed in October.
- 42 inch diameter corrugated metal pipe and flap valve for culvert at north end of CELA delivered on 1 September.
- 36 inch HDPE pipe placed around power pole in CELA on 19 September.
- Placement of 7 oz. Polyfelt geotextile started on 25 September. 60,900 ft² (5660 m²) of geotextile was deployed, entailing 3900 linear ft (1189 m) of seam by 30 September.
- Delivery of gas vent stone continued in September; stone stockpiled in staging area, and also placed directly in CELA.
- Placement of gas vent stone started on 25 September. Approximately 2,767 tons of stone was placed.

UNIT 2

- Site facilities (i.e. perimeter fencing, site trailers with utilities, and graveled entrance and support zone) established.

September 1992 Monthly Field Report
1 October 1992
Page 3

- 42 inch diameter reinforced concrete bypass pipe sections delivered on 4 and 11 September.
- Surface debris hauled from site to local landfill by LaForge K.S. Excavating Inc. on 12 September.
- Temporary bypass pumping started on 16 September and will continue until permanent bypass is complete.
- Concrete plugs placed in all inflow and outflow pipes of Separator.
- Two monitoring wells near Separator were decommissioned on 18 September as per Ebasco specifications.
- Modutanks delivered and assembled.
- TCLP analytical results for bypass composite samples received on 21 September.
- ARCO received EPA approval to proceed with Separator remediation on 28 September.
- Excavation for permanent bypass started on 29 September at proposed manhole 4. Excavated material being hauled to CELA. Village of Wellsville water line found during excavation for proposed manhole 4, area was backfilled. Manhole 4 was moved approximately 20 feet west to location of brick shed.
- Brick shed demolished and excavation for permanent bypass continued on 30 September.
- Construction of manhole 4 started on 30 September.
- Pumping of aqueous phase from Separator to Modutank started on 29 September; approximately 500,500 gal of liquid was pumped into

September 1992 Monthly Field Report
1 October 1992
Page 4

Modutank.

- Submittals for powerhouse remediation were received and reviewed in September.

* * * * *

copy to: David E. Grooms, ARCO
Mike Hrywnak, COE
Dr. J. F. Beech, P.E., GeoSyntec Consultants
Roger B. North, P.E., GeoSyntec Consultants

MONTHLY FIELD REPORT

TO: Mr. Robert E. Ivy, ARCO

FROM: Roger B. North, P.E., GeoSyntec Consultants *REN.*

DATE: 7 November 1992

SUBJECT: October 1992 Monthly Field Report
Sinclair Refinery Site Remediation
Wellsville, New York

The following main activities took place at the Sinclair Refinery Site, Wellsville, New York, during the month of October 1992.

UNIT 1

- Slurry wall construction resumed on 1 October at Station 5+30 and completed on 3 October at Station 2+70. Following table summarizes overall slurry wall quantities.

| Quantity Excavated | October | Cumulative |
|---------------------------|---------|------------|
| Length (ft) | 260 | 2843 |
| Length (m) | 79 | 867 |
| Length (%) | 9.1 | 100 |
| Area (ft ²) | 8,550 | 91,690 |
| Area (m ²) | 794 | 8,518 |
| Volume (yd ³) | 753 | 8,055 |
| Volume (m ³) | 576 | 6,158 |

- Soil-bentonite shelby tube samples obtained by Geo-Con and GeoSyntec Consultants. Results all indicated hydraulic conductivities less than 1×10^{-7} cm/sec.
- CELA grading continues; all but north end of CELA to final grade by end month.
- Stabilization of low strength soils in the CELA completed by 11 October. Approximately 13,746 yd³ of soil stabilized in total.
- Installation of monitoring wells and piezometers completed by Empire Soils Investigations Inc. Monitoring well MWR-11 developed; other monitoring wells and all piezometers yet to be developed.
- Delivery of gas vent stone continued throughout month and placed directly in CELA.
- Polyfelt TS700 geotextile and gas vent stone continued to be deployed throughout month. See table below for quantities.
- Placement of gas vent pipes started on 13 October.
- Placement of underliner Gundseal and 60-mil thick VLDPE geomembrane continued throughout month from approximately Station 17+00 to Station 2+50 around perimeter of CELA. See table below for quantities.
- Placement of Gundseal and 60-mil thick VLDPE geomembrane on CELA started on 20 October; placed from gridline N220 (south end of CELA) to gridline N770. See table below for quantities.

| Item | Cumulative Quantity |
|---------------------------------------|---------------------|
| Gas Vent Stone (tons) | 26,183 |
| Geotextile (TS700) (ft ²) | 649,899 |
| Geotextile (TS700) (m ²) | 60,378 |
| VLDPE in Channel (ft ²) | 66,088 |
| VLDPE in Channel (m ²) | 6,142 |
| Gundseal in CELA (ft ²) | 78,042 |
| Gundseal in CELA (m ²) | 7,250 |
| VLDPE in CELA (ft ²) | 83,754 |
| VLDPE in CELA (m ²) | 7,781 |

- Temporary ground-water holding pond constructed in SLA and lined with 60-mil HDPE on 20 October.
- Sedimentation pond at north end CELA removed on 21 October.
- 42 in. diameter CMP culvert and flap valve at north end CELA laid, backfilled and rip-rap placed between 13 and 19 October.
- Inspection of east and west dikes performed on 21 October for Operation and Maintenance Plan for Genesee River channel.
- RMC Environmental Services was unable to validate Ceimic Corporation laboratory test results on Geo-Con's conformational samples taken in August and September from Refinery Areas A to G.
- Retesting of Geo-Con's conformational samples started by Law

Environmental on 13 October, completed on 26 October. Indicated additional locations with arsenic concentrations above 25 ppm in Refinery Areas A, B, C, D and G.

- Additional conformational sampling performed in Areas A, B, C, D and G by GeoSyntec Consultants between 28 and 30 October. Samples sent to Law Environmental for analysis. Initial results from Area A indicate additional locations with arsenic concentrations above 25 ppm.

UNIT 2, SEPARATOR

- Construction of permanent by-pass around Separator completed. Included: manholes 1 to 4; 42 in. diameter concrete pipe (between manholes 2 and 3, and 3 and 4); 18 in. diameter pipe (between manholes 1 and 2); connections from existing lines; and backfilling.
- Hydrostatic tests performed with satisfactory results on the 42 in. and 18 in. diameter concrete by-pass pipes.
- Noco Energy Corp. removed 900 gal. of oil from Separator on 12 October.
- Removal of aqueous phase from Separator completed on 13 October. See attached table for quantities.
- Filter plant treatment of aqueous phase started on 8 October and continued throughout month. See attached table for quantities.
- Treated aqueous phase transported to POTW on 27 October. See attached table for quantities.
- Central Industries mobilized filter press on 6 October. Filter

press sludge treatment started on 8 October and continued throughout month. Filter cake deposited into roll-offs and filtrate discharged to 100,000 gal. modutank. See attached table for quantities.

- Steam cleaning of debris in Separator started on 20 October; work continues.

UNIT 2, POWERHOUSE

- Security fence erected.
- Visual inspections of powerhouse roof performed by Roy R. Pederson, P.E., E & M Engineers and Surveyors, for OHM on 14 October and by S. J. Guynes, ARCO, on 22 October.
- Samples of roofing materials, taken by Asbestos Control Management, Inc. on 26 October from powerhouse roof, shown to contain asbestos.

* * * * *

Attachment

Copy to: David E. Grooms, ARCO
Mike Hrywnak, COE
Dr. J. F. Beech, P.E., GeoSyntec Consultants
Jonathan E. Brandes, GeoSyntec Consultants
John G. Fox, GeoSyntec Consultants

SINCLAIR REFINERY, WELLSVILLE, NEW YORK

UNIT 2, SEPARATOR REMEDIATION

| ITEM | W/E 4 OCTOBER WEEK | TOTAL | W/E 11 OCTOBER WEEK | TOTAL | W/E 18 OCTOBER WEEK | TOTAL |
|--|-----------------------|--------|------------------------|---------|------------------------|---------|
| Volume aqueous phase removed (gal.) | 49,500 | 49,500 | 0 | 49,500 | 32,500 | 82,000 |
| Volume aqueous phase treated (gal.) | 0 | 0 | 20,000 | 20,000 | 16,400 | 36,400 |
| Volume of aqueous phase to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume sludge treated (gal.) | 0 | 0 | 29,472 | 29,472 | 31,928 | 61,400 |
| Weight filter-cake off-site (tons) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate produced (gal.) | 0 | 0 | Unknown | Unknown | Unknown | Unknown |
| Volume filtrate treated (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |

| ITEM | W/E 25 OCTOBER WEEK | TOTAL | W/E 1 NOVEMBER WEEK | TOTAL |
|--|------------------------|---------|------------------------|-----------|
| Volume aqueous phase removed (gal.) | 0 | 82,000 | 0 | 82,000 |
| Volume aqueous phase treated (gal.) | 13,210 | 49,610 | 26,954 | 76,564 |
| Volume of aqueous phase to POTW (gal.) | 0 | 0 | 23,362 | 23,362 |
| Volume sludge treated (gal.) | 51,576 | 112,976 | 34,384 | 147,360 |
| Weight filter-cake off-site (tons) | 0 | 0 | 0 | 0 |
| Volume filtrate produced (gal.) | Unknown | Unknown | Unknown | 88,610 |
| | | | | by 29 Oct |
| Volume filtrate treated (gal.) | 0 | 0 | 0 | 0 |
| Volume filtrate to POTW (gal.) | 0 | 0 | 0 | 0 |

MONTHLY FIELD REPORT

TO: Mr. Robert E. Ivy, ARCO

FROM: Roger B. North, P.E., GeoSyntec Consultants *RBN*

DATE: 5 December 1992

SUBJECT: November 1992 Monthly Field Report
Sinclair Refinery Site Remediation
Wellsville, New York

The following main activities took place at the Sinclair Refinery Site, Wellsville, New York, during the month of November 1992.

UNIT 1

- GeoSyntec Consultants obtained two shelby tube samples of soil-bentonite backfill from top slurry wall at Station 0+00 on 23 November. Results indicated hydraulic conductivities less than 1×10^{-7} cm/sec.
- GeoSyntec Consultants obtained two shelby tube samples of traffic cap backfill from slurry wall alignment at Station 28+00 on 23 November. Results indicated hydraulic conductivities less than 1×10^{-5} cm/sec.
- Geometry of cap changed in northwest portion of CELA. Elevation raised by 2 ft along edge channel.
- CELA grading continued and completed on 21 November.
- Delivery of gas vent stone continued, stone placed directly in CELA. Final delivery made on 25 November. Grading of gas vent stone completed on 25 November. See table below and attachment for quantities.
- Deployment of Polyfelt TS700 geotextile continued throughout month. Some TS1000 used in lieu of TS700 on 20 and 21 November

for secondary layer. See table below and attachment for quantities.

- Placement of gas vent pipes completed on 10 November.
- Underliner completed on 20 November with placement of Gundseal and 60-mil thick VLDPE geomembrane from approximately Station 2+50 to Station 27+50 around perimeter of CELA. See table below and attachment for quantities.
- Placement of Gundseal and 60-mil thick VLDPE geomembrane on CELA continued throughout month; approximately placed from gridline N770 to gridline N1165 (north end of site) on east of gridline E650, and to gridline N900 on west of gridline E650. See table below and attachment for quantities.
- Placement of geocomposite drainage layer over VLDPE geomembrane started on 10 November and continued throughout month. See table below and attachment for quantities.
- Common fill placement started on 11 November at south end CELA and continued throughout month. See table below and attachment for quantities.

| Item | November | Cumulative Quantity |
|---|----------|---------------------|
| Gas Vent Stone (tons) | 3,912 | 30,095 |
| CELA Geotextile (TS700) (ft ²) | 385,600 | 1,037,218 |
| CELA Geotextile (TS700) (m ²) | 35,823 | 96,358 |
| CELA Geotextile (TS1000) (ft ²) | 18,200 | 18,200 |
| CELA Geotextile (TS1000) (m ²) | 1,691 | 1,691 |
| VLDPE in Channel (ft ²) | 11,065 | 83,845 |
| VLDPE in Channel (m ²) | 1,028 | 7,792 |

| Item | November | Cumulative Quantity |
|---------------------------------------|----------|---------------------|
| Gundseal in CELA (ft ²) | 249,905 | 418,707 |
| Gundseal in CELA (m ²) | 23,217 | 38,899 |
| VLDPE in CELA (ft ²) | 245,256 | 430,914 |
| VLDPE in CELA (m ²) | 22,785 | 40,033 |
| Geocomposite Layer (ft ²) | 279,870 | 279,870 |
| Geocomposite Layer (m ²) | 26,001 | 26,001 |
| Common Fill (tons) | 23,403 | 23,403 |

- 4 in. diameter corrugated slotted PVC pipe installed in sand layer along alignment of perimeter channel on 6 and 7 November between Stations 7+50 and 18+00.
- Refinery surface soils excavated on 3, 4 and 5 November, from cells outside Areas A (Current Controls), C (powerhouse) and D (Otis Eastern) that conformational testing indicated had arsenic concentrations greater than 25 ppm. Excavated soils transported to CELA. Excavated locations backfilled. Excavation terminated when CELA considered to be at full capacity.
- First temporary ground-water holding pond filled to capacity on 3 November. Second temporary ground-water holding pond, lined with 60-mil HDPE, constructed in SLA area to south of first pond between 6 and 8 November. Pumping of water to second pond started on 8 November. Underliner preparation at northern end of CELA prevented between 3 and 8 November due to ponded water.
- Water samples taken from both temporary ground-water holding ponds on 24 November. Analyses indicated water may be discharged directly to POTW without treatment.

- RMC Environmental Services validated Law Environmental results of Refinery surface soil samples obtained by Geo-Con in September. Conformational Sampling Program report sent to EPA and NYDEC on 23 November.
- Additional conformational sampling performed by GeoSyntec Consultants in Areas A (Current Controls), B (end swale), C (powerhouse), D (Otis Eastern) and G (dike area) on 4, 5 and 10 November. Samples sent to Law Environmental for analysis. Results indicate additional locations with arsenic concentrations above 25 ppm.
- Three drums transported off-site on 5 November to Model City, New York, and West Carrollton, Ohio.

UNIT 2, SEPARATOR

- Mode of discharge of treated aqueous phase and filtrate to POTW changed from truck transport to direct discharge into sanitary sewer on 9 November.
- Filter plant treatment of aqueous phase completed on 4 November. Treated aqueous phase discharged to POTW on 9 and 13 November. See attached table for quantities.
- Filter plant treatment of filtrate started on 4 November and continued throughout month. Treated filtrate discharged to POTW on 13 November. See attached table for quantities.
- Central Industries completed filter press treatment of sludge on 23 November. Filter cake deposited into roll-offs (29 total) and filtrate discharged to 100,000 gal. modutank. See attached table for quantities.
- Steam cleaning of debris in Separator continued throughout month.
- Hydroblasting unit mobilized to site on 10 November; trial hydroblasting of separator walls performed on 11 November. Sand

blasting unit assembled on site on 12 November; trial sand blasting of separator walls performed on 12 and 13 November. Use of hydroblasting unit discontinued following trials.

- Sandblasting of separator walls continued throughout month. Approximately 7 cells (walls and floors) sandblasted.
- Vacuum "Guzzler" truck mobilized on 2 November and used throughout month to remove from separator: (i) material, such as sludge covered rocks and small debris, which could neither be removed by filter press pump nor steam cleaned in place; and (ii) sand blasting waste. Sludge covered rocks and small debris placed in 1 roll-off and sand blasting waste placed in 1 roll-off.
- Chip sample taken on 23 November from north wall of east cell of center separator train, approximately 2.5 ft above base of cell. EPA site representative informed on 20 November of intent to take sample; no EPA representative present to observe sampling. Chip sample sent to General Testing for total hydrocarbon analysis.

UNIT 2, POWERHOUSE

- Security fence erection completed on east side powerhouse.
- Load testing of powerhouse roof performed by OHM and E & M Engineers and Surveyors, between 11 and 13 November.
- OHM demobilized from site.

* * * * *

Attachment

Copy to: David A. Christensen, P.E., ARCO
David E. Grooms, ARCO
Jennifer K. Kimura, ARCO
Mike Hrywnak, COE

November 1992 Monthly Field Report
5 December 1992
Page 6

Lynn B. Macdonald, Morrison Knudsen Corporation
Dr. J. F. Beech, P.E., GeoSyntec Consultants
Jonathan E. Brandes, GeoSyntec Consultants
John G. Fox, GeoSyntec Consultants
Andrew S. Kositsky, GeoSyntec Consultants

MATERIALS SUMMARY TABLE
CENTRAL ELEVATED LANDFILL AREA (CELA)
SINCLAIR REFINERY SITE
WELLSVILLE, NEW YORK

| DATE | GEOTEXTILE TS700 | | | | GEOTEXTILE TS1000 | | | | CHANNEL VLDPE | | | | CHANNEL GUNSEAL | | CELA GUNDSEAL | |
|--------|------------------|--------|----------|---------|-------------------|-------|----------|-------|---------------|-------|----------|--------|-----------------|-------|---------------|-------|
| | (Linear ft) | | (sq. ft) | | (Linear ft) | | (sq. ft) | | (Linear ft) | | (sq. ft) | | (sq. ft) | | (sq. ft) | |
| | Day | Total | Day | Total | Day | Total | Day | Total | Day | Total | Day | Total | Day | Total | Day | Total |
| 08-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| 09-Sep | | 0 | | 0 | | 0 | | 0 | 145 | 145 | 3,190 | 3,190 | 1,428 | 1,428 | | 0 |
| 10-Sep | | 0 | | 0 | | 0 | | 0 | 128 | 273 | 2,816 | 6,006 | | 1,428 | | 0 |
| 11-Sep | | 0 | | 0 | | 0 | | 0 | | 273 | | 6,006 | | 1,428 | | 0 |
| 12-Sep | | 0 | | 0 | | 0 | | 0 | 416 | 689 | 9,152 | 15,158 | | 1,428 | | 0 |
| 13-Sep | | 0 | | 0 | | 0 | | 0 | | 689 | | 15,158 | | 1,428 | | 0 |
| 14-Sep | | 0 | | 0 | | 0 | | 0 | 96 | 785 | 2,112 | 17,270 | | 1,428 | | 0 |
| 15-Sep | | 0 | | 0 | | 0 | | 0 | 224 | 1,009 | 4,928 | 22,198 | 1,920 | 3,348 | | 0 |
| 16-Sep | | 0 | | 0 | | 0 | | 0 | | 1,009 | | 22,198 | | 3,348 | | 0 |
| 17-Sep | | 0 | | 0 | | 0 | | 0 | 119 | 1,128 | 2,982 | 25,180 | 900 | 4,248 | | 0 |
| 18-Sep | | 0 | | 0 | | 0 | | 0 | 242 | 1,370 | 5,450 | 30,630 | 1,584 | 5,832 | | 0 |
| 19-Sep | | 0 | | 0 | | 0 | | 0 | | 1,370 | | 30,630 | | 5,832 | | 0 |
| 20-Sep | | 0 | | 0 | | 0 | | 0 | | 1,370 | | 30,630 | | 5,832 | | 0 |
| 21-Sep | | 0 | | 0 | | 0 | | 0 | | 1,370 | | 30,630 | | 5,832 | | 0 |
| 22-Sep | | 0 | | 0 | | 0 | | 0 | | 1,370 | | 30,630 | | 5,832 | | 0 |
| 23-Sep | | 0 | | 0 | | 0 | | 0 | | 1,370 | | 30,630 | | 5,832 | | 0 |
| 24-Sep | | 0 | | 0 | | 0 | | 0 | | 1,370 | | 30,630 | | 5,832 | | 0 |
| 25-Sep | | 0 | 18,000 | 18,000 | | 0 | | 0 | | 1,370 | | 30,630 | | 5,832 | | 0 |
| 26-Sep | | 0 | | 18,000 | | 0 | | 0 | | 1,370 | | 30,630 | | 5,832 | | 0 |
| 27-Sep | | 0 | | 18,000 | | 0 | | 0 | | 1,370 | | 30,630 | | 5,832 | | 0 |
| 28-Sep | | 0 | 20,700 | 38,700 | | 0 | | 0 | | 1,370 | | 30,630 | | 5,832 | | 0 |
| 29-Sep | 3,900 | 3,900 | | 38,700 | | 0 | | 0 | 210 | 1,580 | 4,620 | 35,250 | | 5,832 | | 0 |
| 30-Sep | | 3,900 | 26,919 | 65,619 | | 0 | | 0 | | 1,580 | | 35,250 | | 5,832 | | 0 |
| 01-Oct | 2,520 | 6,420 | 37,800 | 103,419 | | 0 | | 0 | | 1,580 | | 35,250 | | 5,832 | | 0 |
| 02-Oct | 3,600 | 10,020 | 54,000 | 157,419 | | 0 | | 0 | | 1,580 | | 35,250 | | 5,832 | | 0 |
| 03-Oct | 720 | 10,740 | 10,800 | 168,219 | | 0 | | 0 | 350 | 1,930 | 7,700 | 42,950 | 3,961 | 9,793 | | 0 |
| 04-Oct | | 10,740 | | 168,219 | | 0 | | 0 | | 1,930 | | 42,950 | | 9,793 | | 0 |
| 05-Oct | 1,080 | 11,820 | 16,200 | 184,419 | | 0 | | 0 | | 1,930 | | 42,950 | | 9,793 | | 0 |
| 06-Oct | 2,899 | 14,719 | 43,485 | 227,904 | | 0 | | 0 | | 1,930 | | 42,950 | | 9,793 | | 0 |
| 07-Oct | 1,798 | 16,517 | 26,970 | 254,874 | | 0 | | 0 | | 1,930 | | 42,950 | | 9,793 | | 0 |

MATERIALS SUMMARY TABLE
CENTRAL ELEVATED LANDFILL AREA (CELA)
SINCLAIR REFINERY SITE
WELLSVILLE, NEW YORK

| DATE | GEOTEXTILE TS700 | | | | GEOTEXTILE TS1000 | | | | CHANNEL VLDPE | | | | CHANNEL GUNSEAL | | CELA GUNSEAL | |
|--------|------------------|--------|----------|---------|-------------------|-------|----------|-------|---------------|-------|----------|--------|-----------------|--------|--------------|---------|
| | (Linear ft) | | (sq. ft) | | (Linear ft) | | (sq. ft) | | (Linear ft) | | (sq. ft) | | (sq. ft) | | (sq. ft) | |
| | Day | Total | Day | Total | Day | Total | Day | Total | Day | Total | Day | Total | Day | Total | Day | Total |
| 08-Oct | | 16,517 | | 254,874 | 0 | 0 | | 0 | 213 | 2,143 | 8,690 | 51,640 | 4,888 | 14,681 | | 0 |
| 09-Oct | | 16,517 | | 254,874 | 0 | 0 | | 0 | | 2,143 | | 51,640 | | 14,681 | | 0 |
| 10-Oct | 3,132 | 19,649 | 46,980 | 301,854 | 0 | 0 | | 0 | | 2,143 | | 51,640 | | 14,681 | | 0 |
| 11-Oct | | 19,649 | | 301,854 | 0 | 0 | | 0 | | 2,143 | | 51,640 | | 14,681 | | 0 |
| 12-Oct | 1,349 | 20,998 | 20,235 | 322,089 | 0 | 0 | | 0 | | 2,143 | | 51,640 | | 14,681 | | 0 |
| 13-Oct | | 20,998 | | 322,089 | 0 | 0 | | 0 | | 2,143 | | 51,640 | | 14,681 | | 0 |
| 14-Oct | 2,854 | 23,852 | 42,810 | 364,899 | 0 | 0 | | 0 | | 2,143 | | 51,640 | | 14,681 | | 0 |
| 15-Oct | | 23,852 | | 364,899 | 0 | 0 | | 0 | 200 | 2,343 | 4,400 | 56,040 | 2,400 | 17,081 | | 0 |
| 16-Oct | 1,700 | 25,552 | 25,500 | 390,399 | 0 | 0 | | 0 | | 2,343 | | 56,040 | | 17,081 | | 0 |
| 17-Oct | 4,361 | 29,913 | 65,417 | 455,816 | 0 | 0 | | 0 | | 2,343 | | 56,040 | | 17,081 | | 0 |
| 18-Oct | | 29,913 | | 455,816 | 0 | 0 | | 0 | | 2,343 | | 56,040 | | 17,081 | | 0 |
| 19-Oct | 1,556 | 31,469 | 23,340 | 479,156 | 0 | 0 | | 0 | | 2,343 | | 56,040 | | 17,081 | | 0 |
| 20-Oct | 100 | 31,569 | 1,500 | 480,656 | 0 | 0 | | 0 | | 2,343 | | 56,040 | | 17,081 | 7,542 | 7,542 |
| 21-Oct | | 31,569 | | 480,656 | 0 | 0 | | 0 | | 2,343 | | 56,040 | | 17,081 | | 7,542 |
| 22-Oct | | 31,569 | | 480,656 | 0 | 0 | | 0 | | 2,343 | | 56,040 | | 17,081 | 33,000 | 40,542 |
| 23-Oct | | 31,569 | | 480,656 | 0 | 0 | | 0 | | 2,343 | | 56,040 | | 17,081 | 30,000 | 70,542 |
| 24-Oct | 900 | 32,469 | 13,500 | 494,156 | 0 | 0 | | 0 | | 2,343 | | 56,040 | | 17,081 | 7,500 | 78,042 |
| 25-Oct | | 32,469 | | 494,156 | 0 | 0 | | 0 | | 2,343 | | 56,040 | | 17,081 | | 78,042 |
| 26-Oct | 927 | 33,396 | 13,905 | 508,061 | 0 | 0 | | 0 | | 2,343 | | 56,040 | | 17,081 | 19,035 | 97,077 |
| 27-Oct | 1,337 | 34,733 | 20,057 | 528,118 | 0 | 0 | | 0 | | 2,343 | 4,400 | 60,440 | 3,000 | 20,081 | 3,000 | 100,077 |
| 28-Oct | 615 | 35,348 | 9,225 | 537,343 | 0 | 0 | | 0 | | 2,343 | | 60,440 | | 20,081 | 45,000 | 145,077 |
| 29-Oct | 5,521 | 40,869 | 77,420 | 614,763 | 0 | 0 | | 0 | 200 | 2,543 | 4,400 | 64,840 | 4,000 | 24,081 | | 145,077 |
| 30-Oct | 2,157 | 43,026 | 32,355 | 647,118 | 0 | 0 | | 0 | 179 | 2,722 | 3,940 | 68,780 | 2,285 | 26,366 | 15,000 | 160,077 |
| 31-Oct | 300 | 43,326 | 4,500 | 651,618 | 0 | 0 | | 0 | 182 | 2,904 | 4,000 | 72,780 | 1,000 | 27,366 | 8,725 | 168,802 |
| 01-Nov | | 43,326 | | 651,618 | 0 | 0 | | 0 | 100 | 3,004 | 2,200 | 74,980 | | 27,366 | | 168,802 |
| 02-Nov | | 43,326 | | 651,618 | 0 | 0 | | 0 | | 3,004 | | 74,980 | | 27,366 | | 168,802 |
| 03-Nov | | 43,326 | | 651,618 | 0 | 0 | | 0 | | 3,004 | | 74,980 | | 27,366 | 33,000 | 201,802 |
| 04-Nov | 1,200 | 44,526 | 18,000 | 669,618 | 0 | 0 | | 0 | | 3,004 | | 74,980 | | 27,366 | 16,980 | 218,782 |
| 05-Nov | 408 | 44,934 | 6,120 | 675,738 | 0 | 0 | | 0 | | 3,004 | | 74,980 | | 27,366 | 13,695 | 232,477 |
| 06-Nov | 4,267 | 49,201 | 64,000 | 739,738 | 0 | 0 | | 0 | | 3,004 | | 74,980 | | 27,366 | | 232,477 |

**MATERIALS SUMMARY TABLE
CENTRAL ELEVATED LANDFILL AREA (CELA)
SINCLAIR REFINERY SITE
WELLSVILLE, NEW YORK**

[illegible]

MATERIALS SUMMARY TABLE
CENTRAL ELEVATED LANDFILL AREA (CELA)
SINCLAIR REFINERY SITE
WELLSVILLE, NEW YORK

| DATE | CELA VLDPE | | | | CELA GEOCOMPOSITE | | | | COMMON FILL | | GAS VENT STON | |
|--------|-------------|-------|----------|-------|-------------------|-------|----------|-------|-------------|-------|---------------|-------|
| | (Linear ft) | | (sq. ft) | | (Linear ft) | | (sq. ft) | | (Tons) | | (Tons) | |
| | Day | Total | Day | Total | Day | Total | Day | Total | Day | Total | Day | Total |
| 28-Jul | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| 29-Jul | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| 30-Jul | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| 31-Jul | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| 01-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| 02-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| 03-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| 04-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| 05-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| 06-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | 670 | 670 |
| 07-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | 971 | 1,641 |
| 08-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | | 1,641 |
| 09-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | | 1,641 |
| 10-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | 628 | 2,269 |
| 11-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | 441 | 2,710 |
| 12-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | 152 | 2,862 |
| 13-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | | 2,862 |
| 14-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | | 2,862 |
| 15-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | | 2,862 |
| 16-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | | 2,862 |
| 17-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | | 2,862 |
| 18-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | 703 | 3,564 |
| 19-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | 524 | 4,088 |
| 20-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | 369 | 4,458 |
| 21-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | 556 | 5,013 |
| 22-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,013 |
| 23-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,013 |
| 24-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | 402 | 5,415 |
| 25-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,415 |
| 26-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,415 |

MATERIALS SUMMARY TABLE
CENTRAL ELEVATED LANDFILL AREA (CELA)
SINCLAIR REFINERY SITE
WELLSVILLE, NEW YORK

| DATE | CELA VLDPE | | | | CELA GEOCOMPOSITE | | | | COMMON FILL | | GAS VENT STON | |
|--------|-------------|-------|----------|-------|-------------------|-------|----------|-------|-------------|-------|---------------|-------|
| | (Linear ft) | | (sq. ft) | | (Linear ft) | | (sq. ft) | | (Tons) | | (Tons) | |
| | Day | Total | Day | Total | Day | Total | Day | Total | Day | Total | Day | Total |
| 27-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,415 |
| 28-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,415 |
| 29-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,415 |
| 30-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,415 |
| 31-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,415 |
| 01-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,415 |
| 02-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,415 |
| 03-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,415 |
| 04-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,415 |
| 05-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,415 |
| 06-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,415 |
| 07-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,415 |
| 08-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | 121 | 5,536 |
| 09-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,536 |
| 10-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,536 |
| 11-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,536 |
| 12-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,536 |
| 13-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,536 |
| 14-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,536 |
| 15-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,536 |
| 16-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,536 |
| 17-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,536 |
| 18-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,536 |
| 19-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,536 |
| 20-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,536 |
| 21-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,536 |
| 22-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,536 |
| 23-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,536 |
| 24-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,536 |
| 25-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,536 |

MATERIALS SUMMARY TABLE
CENTRAL ELEVATED LANDFILL AREA (CELA)
SINCLAIR REFINERY SITE
WELLSVILLE, NEW YORK

| DATE | CELA VLDPE | | | | CELA GEOCOMPOSITE | | | | COMMON FILL | | GAS VENT STON | |
|--------|-------------|-------|----------|--------|-------------------|-------|----------|-------|-------------|-------|---------------|--------|
| | (Linear ft) | | (sq. ft) | | (Linear ft) | | (sq. ft) | | (Tons) | | (Tons) | |
| | Day | Total | Day | Total | Day | Total | Day | Total | Day | Total | Day | Total |
| 26-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,536 |
| 27-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,536 |
| 28-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,536 |
| 29-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,536 |
| 30-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | 457 | 5,992 |
| 01-Oct | | 0 | | 0 | | 0 | | 0 | | 0 | 709 | 6,701 |
| 02-Oct | | 0 | | 0 | | 0 | | 0 | | 0 | 622 | 7,323 |
| 03-Oct | | 0 | | 0 | | 0 | | 0 | | 0 | 856 | 8,178 |
| 04-Oct | | 0 | | 0 | | 0 | | 0 | | 0 | | 8,178 |
| 05-Oct | | 0 | | 0 | | 0 | | 0 | | 0 | 784 | 8,962 |
| 06-Oct | | 0 | | 0 | | 0 | | 0 | | 0 | 809 | 9,771 |
| 07-Oct | | 0 | | 0 | | 0 | | 0 | | 0 | 871 | 10,642 |
| 08-Oct | | 0 | | 0 | | 0 | | 0 | | 0 | 607 | 11,249 |
| 09-Oct | | 0 | | 0 | | 0 | | 0 | | 0 | 1,154 | 12,403 |
| 10-Oct | | 0 | | 0 | | 0 | | 0 | | 0 | 928 | 13,331 |
| 11-Oct | | 0 | | 0 | | 0 | | 0 | | 0 | | 13,331 |
| 12-Oct | | 0 | | 0 | | 0 | | 0 | | 0 | 1,197 | 14,527 |
| 13-Oct | | 0 | | 0 | | 0 | | 0 | | 0 | 1,434 | 15,961 |
| 14-Oct | | 0 | | 0 | | 0 | | 0 | | 0 | 911 | 16,872 |
| 15-Oct | | 0 | | 0 | | 0 | | 0 | | 0 | 934 | 17,805 |
| 16-Oct | | 0 | | 0 | | 0 | | 0 | | 0 | 1,328 | 19,133 |
| 17-Oct | | 0 | | 0 | | 0 | | 0 | | 0 | 738 | 19,871 |
| 18-Oct | | 0 | | 0 | | 0 | | 0 | | 0 | | 19,871 |
| 19-Oct | | 0 | | 0 | | 0 | | 0 | | 0 | 2,025 | 21,896 |
| 20-Oct | 431 | 431 | 9,482 | 9,482 | | 0 | | 0 | | 0 | 1,621 | 23,516 |
| 21-Oct | | 431 | | 9,482 | | 0 | | 0 | | 0 | 1,546 | 25,062 |
| 22-Oct | 1,680 | 2,111 | 36,960 | 46,442 | | 0 | | 0 | | 0 | | 25,062 |
| 23-Oct | 1,396 | 3,507 | 30,712 | 77,154 | | 0 | | 0 | | 0 | | 25,062 |
| 24-Oct | 300 | 3,807 | 7,040 | 84,194 | | 0 | | 0 | | 0 | | 25,062 |
| 25-Oct | | 3,807 | | 84,194 | | 0 | | 0 | | 0 | | 25,062 |

MATERIALS SUMMARY TABLE
CENTRAL ELEVATED LANDFILL AREA (CELA)
SINCLAIR REFINERY SITE
WELLSVILLE, NEW YORK

| DATE | CELA VLDPE | | | | CELA GEOCOMPOSITE | | | | COMMON FILL | | GAS VENT STON | |
|--------|-------------|--------|----------|---------|-------------------|--------|----------|---------|-------------|--------|---------------|--------|
| | (Linear ft) | | (sq. ft) | | (Linear ft) | | (sq. ft) | | (Tons) | | (Tons) | |
| | Day | Total | Day | Total | Day | Total | Day | Total | Day | Total | Day | Total |
| 26-Oct | 1,097 | 4,904 | 24,134 | 108,328 | | 0 | | 0 | | 0 | | 25,062 |
| 27-Oct | 200 | 5,104 | | 108,328 | | 0 | | 0 | | 0 | | 25,062 |
| 28-Oct | 2,089 | 7,193 | 45,958 | 154,286 | | 0 | | 0 | | 0 | | 25,062 |
| 29-Oct | 374 | 7,567 | 8,228 | 162,514 | | 0 | | 0 | | 0 | | 25,062 |
| 30-Oct | 494 | 8,061 | 10,868 | 173,382 | | 0 | | 0 | | 0 | 544 | 25,606 |
| 31-Oct | 558 | 8,619 | 12,276 | 185,658 | | 0 | | 0 | | 0 | 577 | 26,183 |
| 01-Nov | | 8,619 | | 185,658 | | 0 | | 0 | | 0 | | 26,183 |
| 02-Nov | | 8,619 | | 185,658 | | 0 | | 0 | | 0 | 681 | 26,863 |
| 03-Nov | 1,752 | 10,371 | 38,544 | 224,202 | | 0 | | 0 | | 0 | | 26,863 |
| 04-Nov | 608 | 10,979 | 13,376 | 237,578 | | 0 | | 0 | | 0 | | 26,863 |
| 05-Nov | 596 | 11,575 | 13,112 | 250,690 | | 0 | | 0 | | 0 | | 26,863 |
| 06-Nov | | 11,575 | | 250,690 | | 0 | | 0 | | 0 | | 26,863 |
| 07-Nov | | 11,575 | | 250,690 | | 0 | | 0 | | 0 | | 26,863 |
| 08-Nov | | 11,575 | | 250,690 | | 0 | | 0 | | 0 | | 26,863 |
| 09-Nov | 651 | 12,226 | 14,322 | 265,012 | | 0 | | 0 | | 0 | | 26,863 |
| 10-Nov | 124 | 12,350 | 2,728 | 267,740 | 1,810 | 1,810 | 11,400 | 11,400 | | 0 | 617 | 27,481 |
| 11-Nov | | 12,350 | | 267,740 | 7,510 | 9,320 | 47,310 | 58,710 | 304 | 304 | | 27,481 |
| 12-Nov | | 12,350 | | 267,740 | | 9,320 | | 58,710 | | 304 | 584 | 28,064 |
| 13-Nov | | 12,350 | | 267,740 | 1,357 | 10,677 | 8,550 | 67,260 | 3,986 | 4,290 | 91 | 28,155 |
| 14-Nov | | 12,350 | | 267,740 | 3,619 | 14,296 | 22,800 | 90,060 | 4,167 | 8,457 | | 28,155 |
| 15-Nov | | 12,350 | | 267,740 | 181 | 14,477 | 1,140 | 91,200 | 2,170 | 10,627 | | 28,155 |
| 16-Nov | | 12,350 | | 267,740 | 3,619 | 18,096 | 22,800 | 114,000 | 2,653 | 13,280 | | 28,155 |
| 17-Nov | | 12,350 | | 267,740 | 4,705 | 22,801 | 29,640 | 143,640 | 904 | 14,184 | | 28,155 |
| 18-Nov | | 12,350 | | 267,740 | 1,719 | 24,520 | 10,830 | 154,470 | | 14,184 | | 28,155 |
| 19-Nov | 2,132 | 14,482 | 43,054 | 310,794 | | 24,520 | | 154,470 | 3,406 | 17,591 | 515 | 28,670 |
| 20-Nov | 840 | 15,322 | 18,480 | 329,274 | | 24,520 | | 154,470 | 3,575 | 21,166 | 364 | 29,034 |
| 21-Nov | 420 | 15,742 | 9,240 | 338,514 | | 24,520 | | 154,470 | | 21,166 | 243 | 29,277 |
| 22-Nov | 840 | 16,582 | 18,480 | 356,994 | 2,624 | 27,144 | 16,530 | 171,000 | | 21,166 | | 29,549 |
| 23-Nov | | 16,582 | | 356,994 | 6,786 | 33,930 | 42,750 | 213,750 | | 21,166 | 272 | 29,822 |
| 24-Nov | 1,680 | 18,262 | 36,960 | 393,954 | 4,705 | 38,635 | 29,640 | 243,390 | | 21,166 | 273 | 30,095 |

MATERIALS SUMMARY TABLE
CENTRAL ELEVATED LANDFILL AREA (CELA)
SINCLAIR REFINERY SITE
WELLSVILLE, NEW YORK

| DATE | CELA VLDPE | | | | CELA GEOCOMPOSITE | | | | COMMON FILL | | GAS VENT STON | |
|--------|-------------|--------|----------|---------|-------------------|--------|----------|---------|-------------|--------|---------------|--------|
| | (Linear ft) | | (sq. ft) | | (Linear ft) | | (sq. ft) | | (Tons) | | (Tons) | |
| | Day | Total | Day | Total | Day | Total | Day | Total | Day | Total | Day | Total |
| 25-Nov | | 18,262 | | 393,954 | | 38,635 | 19,380 | 262,770 | | 21,166 | 273 | 30,095 |
| 26-Nov | | 18,262 | | 393,954 | | 38,635 | | 262,770 | | 21,166 | | 30,095 |
| 27-Nov | | 18,262 | | 393,954 | | 38,635 | | 262,770 | | 21,166 | | 30,095 |
| 28-Nov | | 18,262 | | 393,954 | | 38,635 | | 262,770 | | 21,166 | | 30,095 |
| 29-Nov | | 18,262 | | 393,954 | | 38,635 | | 262,770 | | 21,166 | | 30,095 |
| 30-Nov | 1,680 | 19,942 | 36,960 | 430,914 | 2,714 | 41,349 | 17,100 | 279,870 | 2,237 | 23,403 | | 30,095 |

SINCLAIR REFINERY, WELLSVILLE, NEW YORK

UNIT 2, SEPARATOR REMEDIATION

| ITEM | W/E 4 OCTOBER WEEK | TOTAL | W/E 11 OCTOBER WEEK | TOTAL | W/E 18 OCTOBER WEEK | TOTAL |
|--|-----------------------|--------|------------------------|---------|------------------------|---------|
| Volume aqueous phase removed (gal.) | 49,500 | 49,500 | 0 | 49,500 | 32,500 | 82,000 |
| Volume aqueous phase treated (gal.) | 0 | 0 | 20,000 | 20,000 | 16,400 | 36,400 |
| Volume of aqueous phase to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume sludge treated (gal.) | 0 | 0 | 29,472 | 29,472 | 31,928 | 61,400 |
| Weight filter-cake off-site (tons) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate produced (gal.) | 0 | 0 | Unknown | Unknown | Unknown | Unknown |
| Volume filtrate treated (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water present (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water treated (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |

| ITEM | W/E 25 OCTOBER WEEK | TOTAL | W/E 1 NOVEMBER WEEK | TOTAL | W/E 8 NOVEMBER WEEK | TOTAL |
|--|------------------------|---------|------------------------|---------------------|------------------------|---------------------|
| Volume aqueous phase removed (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume aqueous phase treated (gal.) | 13,210 | 49,610 | 26,954 | 76,564 | 5,436 | 82,000 |
| Volume of aqueous phase to POTW (gal.) | 0 | 0 | 23,362 | 23,362 | 26,248 | 49,610 |
| Volume sludge treated (gal.) | 51,576 | 112,976 | 34,384 | 147,360 | 49,120 | 196,480 |
| Weight filter-cake off-site (tons) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate produced (gal.) | Unknown | Unknown | Unknown | 88,610 by 29 Oct | Unknown | 140,999 by 6 Nov |
| Volume filtrate treated (gal.) | 0 | 0 | 0 | 0 | 8,276 | 8,276 |
| Volume filtrate to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water present (gal.) | 0 | 0 | 12,623 | 12,623 | 0 | 0 |
| Volume extraneous water treated (gal.) | 0 | 0 | 0 | 0 | 12,623 | 12,623 |
| Volume extraneous water to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |

SINCLAIR REFINERY, WELLSVILLE, NEW YORK

UNIT 2, SEPARATOR REMEDIATION

| ITEM | W/E 15 WEEK | NOVEMBER TOTAL | W/E 22 WEEK | NOVEMBER TOTAL | W/E 29 WEEK | NOVEMBER TOTAL |
|--|----------------|-------------------|----------------|-------------------|----------------|-------------------|
| Volume aqueous phase removed (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume aqueous phase treated (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume of aqueous phase to POTW (gal.) | 32,390 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume sludge treated (gal.) | 41,752 | 238,232 | 38,068 | 276,300 | 2,456 | 278,756 |
| Weight filter-cake off-site (tons) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate produced (gal.) | Unknown | 193,875 | 14,971 | 208,846 | 14,971 | 223,817 |
| | | by 15 Nov | | | | |
| Volume filtrate treated (gal.) | 25,451 | 33,727 | 19,795 | 53,522 | 5,656 | 59,178 |
| Volume filtrate to POTW (gal.) | 8,276 | 8,276 | 0 | 8,276 | 0 | 8,276 |
| Volume extraneous water present (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water treated (gal.) | 0 | 12,623 | 0 | 12,623 | 0 | 12,623 |
| Volume extraneous water to POTW (gal.) | 12,623 | 12,623 | 0 | 12,623 | 0 | 12,623 |

MONTHLY FIELD REPORT

TO: Mr. Robert E. Ivy, ARCO

FROM: Roger B. North, P.E., GeoSyntec Consultants *RBN*
Jonathan E. Brandes, GeoSyntec Consultants *JEB*

DATE: 13 January 1993

SUBJECT: December 1992 Monthly Field Report
Sinclair Refinery Site Remediation
Wellsville, New York

The following main activities took place at the Sinclair Refinery Site, Wellsville, New York, during the month of December 1992.

UNIT 1

- Primary geotextile deployment on CELA completed on 4 December. Polyfelt TS1000 used in some areas instead of TS700. See table below and attachment for quantities.
- Gundseal and 60-mil thick VLDPE geomembrane deployed on CELA from 1 to 4 and 19 December. Deployment completed except for perimeter drainage channel. See table below and attachment for quantities.
- Geocomposite drainage layer deployed through 21 December. Deployment complete except for perimeter drainage channel. See table below and attachment for quantities.
- Common fill placement continued through 22 December working towards north end of CELA. See table below and attachment for quantities.
- Geo-Con abandoned attempts to dewater sand layer component of

perimeter channel on east side of CELA and thereby abandoned attempts to complete geosynthetics over the remainder of perimeter channel.

| Item | December | Cumulative Quantity |
|---|----------|---------------------|
| Gas Vent Stone (tons) | 0 | 30,095 |
| CELA Geotextile (TS700) (ft ²) | 5,400 | 1,042,618 |
| CELA Geotextile (TS700) (m ²) | 502 | 96,898 |
| CELA Geotextile (TS1000) (ft ²) | 82,500 | 100,700 |
| CELA Geotextile (TS1000) (m ²) | 7,667 | 9,359 |
| VLDPE in Channel (ft ²) | 0 | 83,845 |
| VLDPE in Channel (m ²) | 0 | 7,792 |
| Gundseal in CELA (ft ²) | 105,425 | 524,132 |
| Gundseal in CELA (m ²) | 9,798 | 48,711 |
| VLDPE in CELA (ft ²) | 105,737 | 536,651 |
| VLDPE in CELA (m ²) | 9,827 | 49,875 |
| Geocomposite Layer (ft ²) | 238,260 | 518,130 |
| Geocomposite Layer (m ²) | 22,143 | 48,153 |
| Common Fill (tons) | 22,300 | 45,703 |

- RMC Environmental Services continued to validate Law Environmental, Inc. test results for refinery area surface soils.
- Additional conformational sampling performed by GeoSyntec Consultants in refinery areas C (powerhouse), and D (Otis Eastern) on 21 and 22 December. Samples sent to Law

Environmental for analysis. Results indicate additional locations in both areas with arsenic concentrations above 25 ppm.

- ARCO and GeoSyntec Consultants attended meeting with EPA in New York City to discuss Operation and Maintenance Plan for CELA and the Refinery Surface Soils Cleanup Program.
- Discharge of water from holding ponds in SLA to POTW started on 5 December and continued throughout month. Maximum pumping rate permitted by POTW is 35 gpm.
- Discharge of CELA run-off water through combined channel and 42-in. diameter CMP culvert started on 16 December.
- Soil samples taken from west dike, on 8 December, for pH analysis as part of Partial River Channelization Project operation and maintenance annual inspection. Samples sent to Law Environmental, Inc., Pensacola, Florida, for analysis.
- GeoSyntec Consultants measured ground water elevation in piezometers P-1 to P-6 on 9 December.
- Monitoring wells MWR-1 to MWR-10 developed on 15, 16, 17 December. Monitoring well MWR-11 previously developed.
- Piezometers P-1 to P-5 developed on 17 and 18 December. Piezometer P-6 was not developed because it contains free product.
- Installed 25 temporary settlement monitoring points at proposed permanent settlement plate locations on 21 December. Elevations of temporary settlement monitoring points surveyed on 22 December.
- Installed temporary fence at south end of site.

- Geo-Con initiated winter shut down on 23 December.
- Monthly meeting held on 11 December.

UNIT 2, SEPARATOR

- Sampled filtercake from 29 roll-off boxes and sludge covered sand and debris from 3 roll-off boxes on 10 December; total of 34 samples including duplicates. Samples sent to Law Environmental, Inc., Pensacola, Florida, for K051 analysis. Received preliminary K051 results from the 34 samples on 22 December, which indicated that 17 roll-off boxes contained material requiring incineration. Treatment of other roll-off boxes subject to final analytical results.
- 11 roll-off boxes containing filtercake transported on 28 and 30 December to LWD Inc., Culvert City, Kentucky, for incineration by Buffalo Fuel Corporation. See attached table for quantities.
- Filter plant treatment of filtrate continued throughout month. Treated filtrate discharged to POTW on 1, 4, 14, 23, and 29 December. See attached table for quantities.
- Steam cleaning of debris in Separator completed by 19 December.
- Sandblasting of Separator floor and walls completed on 29 December. Work performed in level B. Sand removed from Separator by vacuum truck and placed in roll-off boxes for off-site disposal.
- ARCO and GeoSyntec Consultants conducted a preliminary Separator walk through on 22 December.
- Concrete chip samples 2, 3, and 4 taken from Separator walls on 8, 14, and 29 December, respectively. Chip sample 4 collected

from wall of Separator immediately above chip sample 1 after area was re-sandblasted. Samples sent to General Testing Corporation, Rochester, New York, for total petroleum hydrocarbons (TPH) analysis. See table below for results.

| SAMPLE NUMBER | SAMPLING DATE | RESULTS (TPH) ppm |
|---------------|---------------|-------------------|
| 1 | 24/Nov/92 | 19,400 |
| 2 | 8/Dec/92 | 51,400 |
| 3 | 14/Dec/92 | 30,500 |
| 3 Dup | 14/Dec/92 | 21,300 |
| 4 | 29/Dec/92 | 12,600 |

UNIT 2, POWERHOUSE

- No activity.

* * * * *

Attachment

Copy to: D. A. Christensen, P.E., ARCO
D. E. Grooms, ARCO
J. K. Kimura, ARCO
M. Hrywnak, COE
L. B. Macdonald, Morrison Knudsen Corporation
Dr. J. F. Beech, P.E., GeoSyntec Consultants

MATERIALS SUMMARY TABLE
CENTRAL ELEVATED LANDFILL AREA (CELA)
SINCLAIR REFINERY SITE
WELLSVILLE, NEW YORK

| DATE | GEOTEXTILE TS700 | | | | GEOTEXTILE TS1000 | | | | CHANNEL VLDPE | | | | CHANNEL GUNSEAL | | CELA GUNSEAL | |
|--------|------------------|--------|----------|---------|-------------------|-------|----------|-------|---------------|-------|----------|--------|-----------------|-------|--------------|-------|
| | (Linear ft) | | (sq. ft) | | (Linear ft) | | (sq. ft) | | (Linear ft) | | (sq. ft) | | (sq. ft) | | (sq. ft) | |
| | Day | Total | Day | Total | Day | Total | Day | Total | Day | Total | Day | Total | Day | Total | Day | Total |
| 08-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| 09-Sep | | 0 | | 0 | | 0 | | 0 | 145 | 145 | 3,190 | 3,190 | 1,428 | 1,428 | | 0 |
| 10-Sep | | 0 | | 0 | | 0 | | 0 | 128 | 273 | 2,816 | 6,006 | | 1,428 | | 0 |
| 11-Sep | | 0 | | 0 | | 0 | | 0 | | 273 | | 6,006 | | 1,428 | | 0 |
| 12-Sep | | 0 | | 0 | | 0 | | 0 | 416 | 689 | 9,152 | 15,158 | | 1,428 | | 0 |
| 13-Sep | | 0 | | 0 | | 0 | | 0 | | 689 | | 15,158 | | 1,428 | | 0 |
| 14-Sep | | 0 | | 0 | | 0 | | 0 | 96 | 785 | 2,112 | 17,270 | | 1,428 | | 0 |
| 15-Sep | | 0 | | 0 | | 0 | | 0 | 224 | 1,009 | 4,928 | 22,198 | 1,920 | 3,348 | | 0 |
| 16-Sep | | 0 | | 0 | | 0 | | 0 | | 1,009 | | 22,198 | | 3,348 | | 0 |
| 17-Sep | | 0 | | 0 | | 0 | | 0 | 119 | 1,128 | 2,982 | 25,180 | 900 | 4,248 | | 0 |
| 18-Sep | | 0 | | 0 | | 0 | | 0 | 242 | 1,370 | 5,450 | 30,630 | 1,584 | 5,832 | | 0 |
| 19-Sep | | 0 | | 0 | | 0 | | 0 | | 1,370 | | 30,630 | | 5,832 | | 0 |
| 20-Sep | | 0 | | 0 | | 0 | | 0 | | 1,370 | | 30,630 | | 5,832 | | 0 |
| 21-Sep | | 0 | | 0 | | 0 | | 0 | | 1,370 | | 30,630 | | 5,832 | | 0 |
| 22-Sep | | 0 | | 0 | | 0 | | 0 | | 1,370 | | 30,630 | | 5,832 | | 0 |
| 23-Sep | | 0 | | 0 | | 0 | | 0 | | 1,370 | | 30,630 | | 5,832 | | 0 |
| 24-Sep | | 0 | | 0 | | 0 | | 0 | | 1,370 | | 30,630 | | 5,832 | | 0 |
| 25-Sep | 1,200 | 1,200 | 18,000 | 18,000 | | 0 | | 0 | | 1,370 | | 30,630 | | 5,832 | | 0 |
| 26-Sep | | 1,200 | | 18,000 | | 0 | | 0 | | 1,370 | | 30,630 | | 5,832 | | 0 |
| 27-Sep | | 1,200 | | 18,000 | | 0 | | 0 | | 1,370 | | 30,630 | | 5,832 | | 0 |
| 28-Sep | 1,380 | 2,580 | 20,700 | 38,700 | | 0 | | 0 | | 1,370 | | 30,630 | | 5,832 | | 0 |
| 29-Sep | 3,900 | 6,480 | | 38,700 | | 0 | | 0 | 210 | 1,580 | 4,620 | 35,250 | | 5,832 | | 0 |
| 30-Sep | | 6,480 | 26,919 | 65,619 | | 0 | | 0 | | 1,580 | | 35,250 | | 5,832 | | 0 |
| 01-Oct | 2,520 | 9,000 | 37,800 | 103,419 | | 0 | | 0 | | 1,580 | | 35,250 | | 5,832 | | 0 |
| 02-Oct | 3,600 | 12,600 | 54,000 | 157,419 | | 0 | | 0 | | 1,580 | | 35,250 | | 5,832 | | 0 |
| 03-Oct | 720 | 13,320 | 10,800 | 168,219 | | 0 | | 0 | 350 | 1,930 | 7,700 | 42,950 | 3,961 | 9,793 | | 0 |
| 04-Oct | | 13,320 | | 168,219 | | 0 | | 0 | | 1,930 | | 42,950 | | 9,793 | | 0 |
| 05-Oct | 1,080 | 14,400 | 16,200 | 184,419 | | 0 | | 0 | | 1,930 | | 42,950 | | 9,793 | | 0 |
| 06-Oct | 2,899 | 17,299 | 43,485 | 227,904 | | 0 | | 0 | | 1,930 | | 42,950 | | 9,793 | | 0 |
| 07-Oct | 1,798 | 19,097 | 26,970 | 254,874 | | 0 | | 0 | | 1,930 | | 42,950 | | 9,793 | | 0 |

MATERIALS SUMMARY TABLE
CENTRAL ELEVATED LANDFILL AREA (CELA)
SINCLAIR REFINERY SITE
WELLSVILLE, NEW YORK

| DATE | GEOTEXTILE TS700 | | | | GEOTEXTILE TS1000 | | | | CHANNEL VLDPE | | | | CHANNEL GUNSEAL | | CELA GUNSEAL | |
|--------|------------------|--------|----------|---------|-------------------|-------|----------|-------|---------------|-------|----------|--------|-----------------|--------|--------------|---------|
| | (Linear ft) | | (sq. ft) | | (Linear ft) | | (sq. ft) | | (Linear ft) | | (sq. ft) | | (sq. ft) | | (sq. ft) | |
| | Day | Total | Day | Total | Day | Total | Day | Total | Day | Total | Day | Total | Day | Total | Day | Total |
| 08-Oct | | 19,097 | | 254,874 | 0 | 0 | | | 213 | 2,143 | 8,690 | 51,640 | 4,888 | 14,681 | | 0 |
| 09-Oct | | 19,097 | | 254,874 | 0 | 0 | | | | 2,143 | | 51,640 | | 14,681 | | 0 |
| 10-Oct | 3,132 | 22,229 | 46,980 | 301,854 | 0 | 0 | | | | 2,143 | | 51,640 | | 14,681 | | 0 |
| 11-Oct | | 22,229 | | 301,854 | 0 | 0 | | | | 2,143 | | 51,640 | | 14,681 | | 0 |
| 12-Oct | 1,349 | 23,578 | 20,235 | 322,089 | 0 | 0 | | | | 2,143 | | 51,640 | | 14,681 | | 0 |
| 13-Oct | | 23,578 | | 322,089 | 0 | 0 | | | | 2,143 | | 51,640 | | 14,681 | | 0 |
| 14-Oct | 2,854 | 26,432 | 42,810 | 364,899 | 0 | 0 | | | | 2,143 | | 51,640 | | 14,681 | | 0 |
| 15-Oct | | 26,432 | | 364,899 | 0 | 0 | | | 200 | 2,343 | 4,400 | 56,040 | 2,400 | 17,081 | | 0 |
| 16-Oct | 1,700 | 28,132 | 25,500 | 390,399 | 0 | 0 | | | | 2,343 | | 56,040 | | 17,081 | | 0 |
| 17-Oct | 4,361 | 32,493 | 65,417 | 455,816 | 0 | 0 | | | | 2,343 | | 56,040 | | 17,081 | | 0 |
| 18-Oct | | 32,493 | | 455,816 | 0 | 0 | | | | 2,343 | | 56,040 | | 17,081 | | 0 |
| 19-Oct | 1,556 | 34,049 | 23,340 | 479,156 | 0 | 0 | | | | 2,343 | | 56,040 | | 17,081 | | 0 |
| 20-Oct | 100 | 34,149 | 1,500 | 480,656 | 0 | 0 | | | | 2,343 | | 56,040 | | 17,081 | 7,542 | 7,542 |
| 21-Oct | | 34,149 | | 480,656 | 0 | 0 | | | | 2,343 | | 56,040 | | 17,081 | | 7,542 |
| 22-Oct | | 34,149 | | 480,656 | 0 | 0 | | | | 2,343 | | 56,040 | | 17,081 | 33,000 | 40,542 |
| 23-Oct | | 34,149 | | 480,656 | 0 | 0 | | | | 2,343 | | 56,040 | | 17,081 | 30,000 | 70,542 |
| 24-Oct | 900 | 35,049 | 13,500 | 494,156 | 0 | 0 | | | | 2,343 | | 56,040 | | 17,081 | 7,500 | 78,042 |
| 25-Oct | | 35,049 | | 494,156 | 0 | 0 | | | | 2,343 | | 56,040 | | 17,081 | | 78,042 |
| 26-Oct | 927 | 35,976 | 13,905 | 508,061 | 0 | 0 | | | | 2,343 | | 56,040 | | 17,081 | 19,035 | 97,077 |
| 27-Oct | 1,337 | 37,313 | 20,057 | 528,118 | 0 | 0 | | | 200 | 2,543 | 4,400 | 60,440 | 3,000 | 20,081 | 3,000 | 100,077 |
| 28-Oct | 615 | 37,928 | 9,225 | 537,343 | 0 | 0 | | | | 2,543 | | 60,440 | | 20,081 | 45,000 | 145,077 |
| 29-Oct | 5,521 | 43,449 | 77,420 | 614,763 | 0 | 0 | | | 200 | 2,743 | 4,400 | 64,840 | 4,000 | 24,081 | | 145,077 |
| 30-Oct | 2,157 | 45,606 | 32,355 | 647,118 | 0 | 0 | | | 179 | 2,922 | 3,940 | 68,780 | 2,285 | 26,366 | 15,000 | 160,077 |
| 31-Oct | 300 | 45,906 | 4,500 | 651,618 | 0 | 0 | | | 182 | 3,104 | 4,000 | 72,780 | 1,000 | 27,366 | 8,725 | 168,802 |
| 01-Nov | | 45,906 | | 651,618 | 0 | 0 | | | 100 | 3,204 | 2,200 | 74,980 | | 27,366 | | 168,802 |
| 02-Nov | | 45,906 | | 651,618 | 0 | 0 | | | | 3,204 | | 74,980 | | 27,366 | | 168,802 |
| 03-Nov | | 45,906 | | 651,618 | 0 | 0 | | | | 3,204 | | 74,980 | | 27,366 | 33,000 | 201,802 |
| 04-Nov | 1,200 | 47,106 | 18,000 | 669,618 | 0 | 0 | | | | 3,204 | | 74,980 | | 27,366 | 16,980 | 218,782 |
| 05-Nov | 408 | 47,514 | 6,120 | 675,738 | 0 | 0 | | | | 3,204 | | 74,980 | | 27,366 | 13,695 | 232,477 |
| 06-Nov | 4,267 | 51,781 | 64,000 | 739,738 | 0 | 0 | | | | 3,204 | | 74,980 | | 27,366 | | 232,477 |

MATERIALS SUMMARY TABLE
CENTRAL ELEVATED LANDFILL AREA (CELA)
SINCLAIR REFINERY SITE
WELLSVILLE, NEW YORK

| DATE | GEOTEXTILE TS700 | | | | GEOTEXTILE TS1000 | | | | CHANNEL VLDPE | | | | CHANNEL GUNSEAL | | CELA GUNSEAL | |
|--------|------------------|--------|----------|-----------|-------------------|-------|----------|---------|---------------|-------|----------|--------|-----------------|--------|--------------|---------|
| | (Linear ft) | | (sq. ft) | | (Linear ft) | | (sq. ft) | | (Linear ft) | | (sq. ft) | | (sq. ft) | | (sq. ft) | |
| | Day | Total | Day | Total | Day | Total | Day | Total | Day | Total | Day | Total | Day | Total | Day | Total |
| 07-Nov | 1,650 | 53,431 | 24,750 | 764,488 | | 0 | | 0 | 3,204 | | 74,980 | | 27,366 | | 232,477 | |
| 08-Nov | | 53,431 | | 764,488 | | 0 | | 0 | 3,204 | | 74,980 | 10,500 | 37,866 | | 232,477 | |
| 09-Nov | | 53,431 | | 764,488 | | 0 | | 0 | 3,204 | | 74,980 | | 37,866 | 25,740 | 258,217 | |
| 10-Nov | | 53,431 | | 764,488 | | 0 | | 0 | 3,204 | | 74,980 | | 37,866 | 1,500 | 259,717 | |
| 11-Nov | 1,012 | 54,443 | 15,180 | 779,668 | | 0 | | 0 | 3,204 | | 74,980 | | 37,866 | | 259,717 | |
| 12-Nov | | 54,443 | | 779,668 | | 0 | | 0 | 3,204 | | 74,980 | | 37,866 | | 259,717 | |
| 13-Nov | | 54,443 | | 779,668 | | 0 | | 0 | 3,204 | | 74,980 | | 37,866 | | 259,717 | |
| 14-Nov | | 54,443 | | 779,668 | | 0 | | 0 | 3,204 | | 74,980 | 2,200 | 40,066 | | 259,717 | |
| 15-Nov | 6,660 | 61,103 | 99,900 | 879,568 | | 0 | | 0 | 3,204 | | 74,980 | | 40,066 | | 259,717 | |
| 16-Nov | | 61,103 | | 879,568 | | 0 | | 0 | 3,204 | | 74,980 | | 40,066 | | 259,717 | |
| 17-Nov | 2,200 | 63,303 | 33,000 | 912,568 | | 0 | | 0 | 3,204 | | 74,980 | | 40,066 | | 259,717 | |
| 18-Nov | 307 | 63,610 | 3,600 | 916,168 | | 0 | | 0 | 3,204 | | 74,980 | | 40,066 | 900 | 260,617 | |
| 19-Nov | | 63,610 | | 916,168 | | 0 | | 0 | 178 | 3,382 | 3,805 | 78,785 | 40,066 | 41,090 | 301,707 | |
| 20-Nov | 720 | 64,330 | 10,800 | 926,968 | 200 | 200 | 3,000 | 3,000 | 230 | 3,612 | 5,060 | 83,845 | 500 | 40,566 | 15,000 | 316,707 |
| 21-Nov | 7,350 | 71,680 | 110,250 | 1,037,218 | 1,013 | 1,213 | 15,200 | 18,200 | | 3,612 | | 83,845 | | 40,566 | 9,000 | 325,707 |
| 22-Nov | | 71,680 | | 1,037,218 | | 1,213 | | 18,200 | | 3,612 | | 83,845 | | 40,566 | 18,000 | 343,707 |
| 23-Nov | | 71,680 | | 1,037,218 | | 1,213 | | 18,200 | | 3,612 | | 83,845 | | 40,566 | | 343,707 |
| 24-Nov | | 71,680 | | 1,037,218 | | 1,213 | | 18,200 | | 3,612 | | 83,845 | | 40,566 | 36,000 | 379,707 |
| 25-Nov | | 71,680 | | 1,037,218 | | 1,213 | | 18,200 | | 3,612 | | 83,845 | | 40,566 | | 379,707 |
| 26-Nov | | 71,680 | | 1,037,218 | | 1,213 | | 18,200 | | 3,612 | | 83,845 | | 40,566 | | 379,707 |
| 27-Nov | | 71,680 | | 1,037,218 | | 1,213 | | 18,200 | | 3,612 | | 83,845 | | 40,566 | | 379,707 |
| 28-Nov | | 71,680 | | 1,037,218 | | 1,213 | | 18,200 | | 3,612 | | 83,845 | | 40,566 | | 379,707 |
| 29-Nov | | 71,680 | | 1,037,218 | | 1,213 | | 18,200 | | 3,612 | | 83,845 | | 40,566 | | 379,707 |
| 30-Nov | | 71,680 | | 1,037,218 | | 1,213 | | 18,200 | | 3,612 | | 83,845 | | 40,566 | 39,000 | 418,707 |
| 01-Dec | 360 | 72,040 | 5,400 | 1,042,618 | 1,800 | 3,013 | 27,000 | 45,200 | | 3,612 | | 83,845 | | 40,566 | 18,600 | 437,307 |
| 02-Dec | | 72,040 | | 1,042,618 | 1,400 | 4,413 | 21,000 | 66,200 | | 3,612 | | 83,845 | | 40,566 | 24,800 | 462,107 |
| 03-Dec | | 72,040 | | 1,042,618 | 500 | 4,913 | 7,500 | 73,700 | | 3,612 | | 83,845 | | 40,566 | 12,400 | 474,507 |
| 04-Dec | | 72,040 | | 1,042,618 | 1800 | 6,713 | 27,000 | 100,700 | | 3,612 | | 83,845 | | 40,566 | 48,000 | 522,507 |
| 05-Dec | | 72,040 | | 1,042,618 | | 6,713 | | 100,700 | | 3,612 | | 83,845 | | 40,566 | | 522,507 |
| 06-Dec | | 72,040 | | 1,042,618 | | 6,713 | | 100,700 | | 3,612 | | 83,845 | | 40,566 | | 522,507 |

MATERIALS SUMMARY TABLE
CENTRAL ELEVATED LANDFILL AREA (CELA)
SINCLAIR REFINERY SITE
WELLSVILLE, NEW YORK

| DATE | GEOTEXTILE TS700 | | | | GEOTEXTILE TS1000 | | | | CHANNEL VLDPE | | | | CHANNEL GUNSEAL | | CELA GUNSEAL | |
|--------|------------------|--------|----------|-----------|-------------------|-------|----------|---------|---------------|-------|----------|--------|-----------------|--------|--------------|---------|
| | (Linear ft) | | (sq. ft) | | (Linear ft) | | (sq. ft) | | (Linear ft) | | (sq. ft) | | (sq. ft) | | (sq. ft) | |
| | Day | Total | Day | Total | Day | Total | Day | Total | Day | Total | Day | Total | Day | Total | Day | Total |
| 07-Dec | | 72,040 | | 1,042,618 | | 6,713 | | 100,700 | | 3,612 | | 83,845 | | 40,566 | | 522,507 |
| 08-Dec | | 72,040 | | 1,042,618 | | 6,713 | | 100,700 | | 3,612 | | 83,845 | | 40,566 | | 522,507 |
| 09-Dec | | 72,040 | | 1,042,618 | | 6,713 | | 100,700 | | 3,612 | | 83,845 | | 40,566 | | 522,507 |
| 10-Dec | | 72,040 | | 1,042,618 | | 6,713 | | 100,700 | | 3,612 | | 83,845 | | 40,566 | | 522,507 |
| 11-Dec | | 72,040 | | 1,042,618 | | 6,713 | | 100,700 | | 3,612 | | 83,845 | | 40,566 | | 522,507 |
| 12-Dec | | 72,040 | | 1,042,618 | | 6,713 | | 100,700 | | 3,612 | | 83,845 | | 40,566 | | 522,507 |
| 13-Dec | | 72,040 | | 1,042,618 | | 6,713 | | 100,700 | | 3,612 | | 83,845 | | 40,566 | | 522,507 |
| 14-Dec | | 72,040 | | 1,042,618 | | 6,713 | | 100,700 | | 3,612 | | 83,845 | | 40,566 | | 522,507 |
| 15-Dec | | 72,040 | | 1,042,618 | | 6,713 | | 100,700 | | 3,612 | | 83,845 | | 40,566 | | 522,507 |
| 16-Dec | | 72,040 | | 1,042,618 | | 6,713 | | 100,700 | | 3,612 | | 83,845 | | 40,566 | | 522,507 |
| 17-Dec | | 72,040 | | 1,042,618 | | 6,713 | | 100,700 | | 3,612 | | 83,845 | | 40,566 | | 522,507 |
| 18-Dec | | 72,040 | | 1,042,618 | | 6,713 | | 100,700 | | 3,612 | | 83,845 | | 40,566 | | 522,507 |
| 19-Dec | | 72,040 | | 1,042,618 | | 6,713 | | 100,700 | | 3,612 | | 83,845 | | 40,566 | 1,625 | 524,132 |
| 20-Dec | | 72,040 | | 1,042,618 | | 6,713 | | 100,700 | | 3,612 | | 83,845 | | 40,566 | | 524,132 |
| 21-Dec | | 72,040 | | 1,042,618 | | 6,713 | | 100,700 | | 3,612 | | 83,845 | | 40,566 | | 524,132 |
| 22-Dec | | 72,040 | | 1,042,618 | | 6,713 | | 100,700 | | 3,612 | | 83,845 | | 40,566 | | 524,132 |
| 23-Dec | | 72,040 | | 1,042,618 | | 6,713 | | 100,700 | | 3,612 | | 83,845 | | 40,566 | | 524,132 |
| 24-Dec | | 72,040 | | 1,042,618 | | 6,713 | | 100,700 | | 3,612 | | 83,845 | | 40,566 | | 524,132 |
| 25-Dec | | 72,040 | | 1,042,618 | | 6,713 | | 100,700 | | 3,612 | | 83,845 | | 40,566 | | 524,132 |
| 26-Dec | | 72,040 | | 1,042,618 | | 6,713 | | 100,700 | | 3,612 | | 83,845 | | 40,566 | | 524,132 |
| 27-Dec | | 72,040 | | 1,042,618 | | 6,713 | | 100,700 | | 3,612 | | 83,845 | | 40,566 | | 524,132 |
| 28-Dec | | 72,040 | | 1,042,618 | | 6,713 | | 100,700 | | 3,612 | | 83,845 | | 40,566 | | 524,132 |
| 29-Dec | | 72,040 | | 1,042,618 | | 6,713 | | 100,700 | | 3,612 | | 83,845 | | 40,566 | | 524,132 |
| 30-Dec | | 72,040 | | 1,042,618 | | 6,713 | | 100,700 | | 3,612 | | 83,845 | | 40,566 | | 524,132 |
| 31-Dec | | 72,040 | | 1,042,618 | | 6,713 | | 100,700 | | 3,612 | | 83,845 | | 40,566 | | 524,132 |

MATERIALS SUMMARY TABLE
CENTRAL ELEVATED LANDFILL AREA (CELA)
SINCLAIR REFINERY SITE
WELLSVILLE, NEW YORK

| DATE | CELA VLDPE | | | | CELA GEOCOMPOSITE | | | | COMMON FILL | | GAS VENT STON | |
|--------|-------------|-------|----------|-------|-------------------|-------|----------|-------|-------------|-------|---------------|-------|
| | (Linear ft) | | (sq. ft) | | (Linear ft) | | (sq. ft) | | (Tons) | | (Tons) | |
| | Day | Total | Day | Total | Day | Total | Day | Total | Day | Total | Day | Total |
| 05-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| 06-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | 670 | 670 |
| 07-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | 971 | 1,641 |
| 08-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | | 1,641 |
| 09-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | | 1,641 |
| 10-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | 628 | 2,269 |
| 11-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | 441 | 2,710 |
| 12-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | 152 | 2,862 |
| 13-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | | 2,862 |
| 14-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | | 2,862 |
| 15-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | | 2,862 |
| 16-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | | 2,862 |
| 17-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | | 2,862 |
| 18-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | 703 | 3,564 |
| 19-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | 524 | 4,088 |
| 20-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | 369 | 4,458 |
| 21-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | 556 | 5,013 |
| 22-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,013 |
| 23-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,013 |
| 24-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | 402 | 5,415 |
| 25-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,415 |
| 26-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,415 |
| 27-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,415 |
| 28-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,415 |
| 29-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,415 |
| 30-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,415 |
| 31-Aug | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,415 |
| 01-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,415 |
| 02-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,415 |
| 03-Sep | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,415 |

**MATERIALS SUMMARY TABLE
CENTRAL ELEVATED LANDFILL AREA (CELA)
SINCLAIR REFINERY SITE
WELLSVILLE, NEW YORK**

[illegible]

MATERIALS SUMMARY TABLE
CENTRAL ELEVATED LANDFILL AREA (CELA)
SINCLAIR REFINERY SITE
WELLSVILLE, NEW YORK

| DATE | CELA VLDPE | | | | CELA GEOCOMPOSITE | | | | COMMON FILL | | GAS VENT STON | |
|--------|-------------|-------|----------|---------|-------------------|-------|----------|-------|-------------|-------|---------------|--------|
| | (Linear ft) | | (sq. ft) | | (Linear ft) | | (sq. ft) | | (Tons) | | (Tons) | |
| | Day | Total | Day | Total | Day | Total | Day | Total | Day | Total | Day | Total |
| 04-Oct | | 0 | | 0 | | 0 | | 0 | | 0 | | 8,178 |
| 05-Oct | | 0 | | 0 | | 0 | | 0 | | 0 | 784 | 8,962 |
| 06-Oct | | 0 | | 0 | | 0 | | 0 | | 0 | 809 | 9,771 |
| 07-Oct | | 0 | | 0 | | 0 | | 0 | | 0 | 871 | 10,642 |
| 08-Oct | | 0 | | 0 | | 0 | | 0 | | 0 | 607 | 11,249 |
| 09-Oct | | 0 | | 0 | | 0 | | 0 | | 0 | 1,154 | 12,403 |
| 10-Oct | | 0 | | 0 | | 0 | | 0 | | 0 | 928 | 13,331 |
| 11-Oct | | 0 | | 0 | | 0 | | 0 | | 0 | | 13,331 |
| 12-Oct | | 0 | | 0 | | 0 | | 0 | | 0 | 1,197 | 14,527 |
| 13-Oct | | 0 | | 0 | | 0 | | 0 | | 0 | 1,434 | 15,961 |
| 14-Oct | | 0 | | 0 | | 0 | | 0 | | 0 | 911 | 16,872 |
| 15-Oct | | 0 | | 0 | | 0 | | 0 | | 0 | 934 | 17,805 |
| 16-Oct | | 0 | | 0 | | 0 | | 0 | | 0 | 1,328 | 19,133 |
| 17-Oct | | 0 | | 0 | | 0 | | 0 | | 0 | 738 | 19,871 |
| 18-Oct | | 0 | | 0 | | 0 | | 0 | | 0 | | 19,871 |
| 19-Oct | | 0 | | 0 | | 0 | | 0 | | 0 | 2,025 | 21,896 |
| 20-Oct | 431 | 431 | 9,482 | 9,482 | | 0 | | 0 | | 0 | 1,621 | 23,516 |
| 21-Oct | | 431 | | 9,482 | | 0 | | 0 | | 0 | 1,546 | 25,062 |
| 22-Oct | 1,680 | 2,111 | 36,960 | 46,442 | | 0 | | 0 | | 0 | | 25,062 |
| 23-Oct | 1,396 | 3,507 | 30,712 | 77,154 | | 0 | | 0 | | 0 | | 25,062 |
| 24-Oct | 300 | 3,807 | 7,040 | 84,194 | | 0 | | 0 | | 0 | | 25,062 |
| 25-Oct | | 3,807 | | 84,194 | | 0 | | 0 | | 0 | | 25,062 |
| 26-Oct | 1,097 | 4,904 | 24,134 | 108,328 | | 0 | | 0 | | 0 | | 25,062 |
| 27-Oct | 200 | 5,104 | | 108,328 | | 0 | | 0 | | 0 | | 25,062 |
| 28-Oct | 2,089 | 7,193 | 45,958 | 154,286 | | 0 | | 0 | | 0 | | 25,062 |
| 29-Oct | 374 | 7,567 | 8,228 | 162,514 | | 0 | | 0 | | 0 | | 25,062 |
| 30-Oct | 494 | 8,061 | 10,868 | 173,382 | | 0 | | 0 | | 0 | 544 | 25,606 |
| 31-Oct | 558 | 8,619 | 12,276 | 185,658 | | 0 | | 0 | | 0 | 577 | 26,183 |
| 01-Nov | | 8,619 | | 185,658 | | 0 | | 0 | | 0 | | 26,183 |
| 02-Nov | | 8,619 | | 185,658 | | 0 | | 0 | | 0 | 681 | 26,863 |

MATERIALS SUMMARY TABLE
CENTRAL ELEVATED LANDFILL AREA (CELA)
SINCLAIR REFINERY SITE
WELLSVILLE, NEW YORK

| DATE | CELA VLDPE | | | | CELA GEOCOMPOSITE | | | | COMMON FILL | | GAS VENT STON | |
|--------|-------------|--------|----------|---------|-------------------|--------|----------|---------|-------------|--------|---------------|--------|
| | (Linear ft) | | (sq. ft) | | (Linear ft) | | (sq. ft) | | (Tons) | | (Tons) | |
| | Day | Total | Day | Total | Day | Total | Day | Total | Day | Total | Day | Total |
| 03-Nov | 1,752 | 10,371 | 38,544 | 224,202 | | 0 | | 0 | | 0 | | 26,863 |
| 04-Nov | 608 | 10,979 | 13,376 | 237,578 | | 0 | | 0 | | 0 | | 26,863 |
| 05-Nov | 596 | 11,575 | 13,112 | 250,690 | | 0 | | 0 | | 0 | | 26,863 |
| 06-Nov | | 11,575 | | 250,690 | | 0 | | 0 | | 0 | | 26,863 |
| 07-Nov | | 11,575 | | 250,690 | | 0 | | 0 | | 0 | | 26,863 |
| 08-Nov | | 11,575 | | 250,690 | | 0 | | 0 | | 0 | | 26,863 |
| 09-Nov | 651 | 12,226 | 14,322 | 265,012 | | 0 | | 0 | | 0 | | 26,863 |
| 10-Nov | 124 | 12,350 | 2,728 | 267,740 | 1,810 | 1,810 | 11,400 | 11,400 | | 0 | 617 | 27,481 |
| 11-Nov | | 12,350 | | 267,740 | 7,510 | 9,320 | 47,310 | 58,710 | 304 | 304 | | 27,481 |
| 12-Nov | | 12,350 | | 267,740 | | 9,320 | | 58,710 | | 304 | 584 | 28,064 |
| 13-Nov | | 12,350 | | 267,740 | 1,357 | 10,677 | 8,550 | 67,260 | 3,986 | 4,290 | 91 | 28,155 |
| 14-Nov | | 12,350 | | 267,740 | 3,619 | 14,296 | 22,800 | 90,060 | 4,167 | 8,457 | | 28,155 |
| 15-Nov | | 12,350 | | 267,740 | 181 | 14,477 | 1,140 | 91,200 | 2,170 | 10,627 | | 28,155 |
| 16-Nov | | 12,350 | | 267,740 | 3,619 | 18,096 | 22,800 | 114,000 | 2,653 | 13,280 | | 28,155 |
| 17-Nov | | 12,350 | | 267,740 | 4,705 | 22,801 | 29,640 | 143,640 | 904 | 14,184 | | 28,155 |
| 18-Nov | | 12,350 | | 267,740 | 1,719 | 24,520 | 10,830 | 154,470 | | 14,184 | | 28,155 |
| 19-Nov | 2,132 | 14,482 | 43,054 | 310,794 | | 24,520 | | 154,470 | 3,406 | 17,591 | 515 | 28,670 |
| 20-Nov | 840 | 15,322 | 18,480 | 329,274 | | 24,520 | | 154,470 | 3,575 | 21,166 | 364 | 29,034 |
| 21-Nov | 420 | 15,742 | 9,240 | 338,514 | | 24,520 | | 154,470 | | 21,166 | 243 | 29,277 |
| 22-Nov | 840 | 16,582 | 18,480 | 356,994 | 2,624 | 27,144 | 16,530 | 171,000 | | 21,166 | | 29,549 |
| 23-Nov | | 16,582 | | 356,994 | 6,786 | 33,930 | 42,750 | 213,750 | | 21,166 | 272 | 29,822 |
| 24-Nov | 1,680 | 18,262 | 36,960 | 393,954 | 4,705 | 38,635 | 29,640 | 243,390 | | 21,166 | 273 | 30,095 |
| 25-Nov | | 18,262 | | 393,954 | | 38,635 | 19,380 | 262,770 | | 21,166 | 273 | 30,095 |
| 26-Nov | | 18,262 | | 393,954 | | 38,635 | | 262,770 | | 21,166 | | 30,095 |
| 27-Nov | | 18,262 | | 393,954 | | 38,635 | | 262,770 | | 21,166 | | 30,095 |
| 28-Nov | | 18,262 | | 393,954 | | 38,635 | | 262,770 | | 21,166 | | 30,095 |
| 29-Nov | | 18,262 | | 393,954 | | 38,635 | | 262,770 | | 21,166 | | 30,095 |
| 30-Nov | 1,680 | 19,942 | 36,960 | 430,914 | 2,714 | 41,349 | 17,100 | 279,870 | 2,237 | 23,403 | | 30,095 |
| 01-Dec | 678 | 20,620 | 14,916 | 445,830 | 4,886 | 46,235 | 30,780 | 310,650 | 3,505 | 26,908 | | 30,095 |
| 02-Dec | 1,136 | 21,756 | 25,000 | 470,830 | 5,713 | 51,948 | 36,480 | 347,130 | 2,821 | 29,728 | | 30,095 |

MATERIALS SUMMARY TABLE
CENTRAL ELEVATED LANDFILL AREA (CELA)
SINCLAIR REFINERY SITE
WELLSVILLE, NEW YORK

| DATE | CELA VLDPE | | | | CELA GEOCOMPOSITE | | | | COMMON FILL | | GAS VENT STON | |
|--------|-------------|--------|----------|---------|-------------------|--------|----------|---------|-------------|--------|---------------|--------|
| | (Linear ft) | | (sq. ft) | | (Linear ft) | | (sq. ft) | | (Tons) | | (Tons) | |
| | Day | Total | Day | Total | Day | Total | Day | Total | Day | Total | Day | Total |
| 03-Dec | 606 | 22,362 | 13,332 | 484,162 | 2,352 | 54,300 | 14,820 | 361,950 | 2,360 | 32,088 | | 30,095 |
| 04-Dec | 2,323 | 24,685 | 51,114 | 535,276 | 1,629 | 55,929 | 10,260 | 372,210 | 3,381 | 35,469 | | 30,095 |
| 05-Dec | | 24,685 | | 535,276 | | 55,929 | | 372,210 | | 35,469 | | 30,095 |
| 06-Dec | | 24,685 | | 535,276 | | 55,929 | | 372,210 | | 35,469 | | 30,095 |
| 07-Dec | | 24,685 | | 535,276 | | 55,929 | | 372,210 | 2,796 | 38,265 | | 30,095 |
| 08-Dec | | 24,685 | | 535,276 | 1,357 | 57,286 | 8,550 | 380,760 | 3,023 | 41,288 | | 30,095 |
| 09-Dec | | 24,685 | | 535,276 | 4,795 | 62,081 | 30,210 | 410,970 | 1,888 | 43,176 | | 30,095 |
| 10-Dec | | 24,685 | | 535,276 | 1,267 | 63,348 | 7,980 | 418,950 | | 43,176 | | 30,095 |
| 11-Dec | | 24,685 | | 535,276 | | 63,348 | | 418,950 | | 43,176 | | 30,095 |
| 12-Dec | | 24,685 | | 535,276 | | 63,348 | | 418,950 | | 43,176 | | 30,095 |
| 13-Dec | | 24,685 | | 535,276 | | 63,348 | | 418,950 | | 43,176 | | 30,095 |
| 14-Dec | | 24,685 | | 535,276 | 1,086 | 64,434 | 6,840 | 425,790 | | 43,176 | | 30,095 |
| 15-Dec | | 24,685 | | 535,276 | 2,352 | 66,786 | 14,820 | 440,610 | | 43,176 | | 30,095 |
| 16-Dec | | 24,685 | | 535,276 | 3,890 | 70,676 | 24,510 | 465,120 | | 43,176 | | 30,095 |
| 17-Dec | | 24,685 | | 535,276 | 3,710 | 74,386 | 23,370 | 488,490 | | 43,176 | | 30,095 |
| 18-Dec | | 24,685 | | 535,276 | 4,252 | 78,638 | 26,790 | 515,280 | | 43,176 | | 30,095 |
| 19-Dec | 63 | 24,748 | 1,375 | 536,651 | | 78,638 | | 515,280 | | 43,176 | | 30,095 |
| 20-Dec | | 24,748 | | 536,651 | | 78,638 | | 515,280 | | 43,176 | | 30,095 |
| 21-Dec | | 24,748 | | 536,651 | 452 | 79,090 | 2,850 | 518,130 | 1,112 | 44,288 | | 30,095 |
| 22-Dec | | 24,748 | | 536,651 | | 79,090 | | 518,130 | 1,415 | 45,703 | | 30,095 |
| 23-Dec | | 24,748 | | 536,651 | | 79,090 | | 518,130 | | 45,703 | | 30,095 |
| 24-Dec | | 24,748 | | 536,651 | | 79,090 | | 518,130 | | 45,703 | | 30,095 |
| 25-Dec | | 24,748 | | 536,651 | | 79,090 | | 518,130 | | 45,703 | | 30,095 |
| 26-Dec | | 24,748 | | 536,651 | | 79,090 | | 518,130 | | 45,703 | | 30,095 |
| 27-Dec | | 24,748 | | 536,651 | | 79,090 | | 518,130 | | 45,703 | | 30,095 |
| 28-Dec | | 24,748 | | 536,651 | | 79,090 | | 518,130 | | 45,703 | | 30,095 |
| 29-Dec | | 24,748 | | 536,651 | | 79,090 | | 518,130 | | 45,703 | | 30,095 |
| 30-Dec | | 24,748 | | 536,651 | | 79,090 | | 518,130 | | 45,703 | | 30,095 |
| 31-Dec | | 24,748 | | 536,651 | | 79,090 | | 518,130 | | 45,703 | | 30,095 |

SINCLAIR REFINERY, WELLSVILLE, NEW YORK

UNIT 2, SEPARATOR REMEDIATION

| ITEM | W/E 4 OCTOBER WEEK | TOTAL | W/E 11 OCTOBER WEEK | TOTAL | W/E 18 OCTOBER WEEK | TOTAL |
|--|-----------------------|--------|------------------------|---------|------------------------|---------|
| Volume aqueous phase removed (gal.) | 49,500 | 49,500 | 0 | 49,500 | 32,500 | 82,000 |
| Volume aqueous phase treated (gal.) | 0 | 0 | 20,000 | 20,000 | 16,400 | 36,400 |
| Volume of aqueous phase to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume sludge treated (gal.) | 0 | 0 | 29,472 | 29,472 | 31,928 | 61,400 |
| Weight filter-cake off-site (tons) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate produced (gal.) | 0 | 0 | Unknown | Unknown | Unknown | Unknown |
| Volume filtrate treated (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water present (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water treated (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |

| ITEM | W/E 25 OCTOBER WEEK | TOTAL | W/E 1 NOVEMBER WEEK | TOTAL | W/E 8 NOVEMBER WEEK | TOTAL |
|--|------------------------|---------|------------------------|---------------------|------------------------|---------------------|
| Volume aqueous phase removed (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume aqueous phase treated (gal.) | 13,210 | 49,610 | 26,954 | 76,564 | 5,436 | 82,000 |
| Volume of aqueous phase to POTW (gal.) | 0 | 0 | 23,362 | 23,362 | 26,248 | 49,610 |
| Volume sludge treated (gal.) | 51,576 | 112,976 | 34,384 | 147,360 | 49,120 | 196,480 |
| Weight filter-cake off-site (tons) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate produced (gal.) | Unknown | Unknown | Unknown | 88,610 by 29 Oct | Unknown | 140,999 by 6 Nov |
| Volume filtrate treated (gal.) | 0 | 0 | 0 | 0 | 8,276 | 8,276 |
| Volume filtrate to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water present (gal.) | 0 | 0 | 12,623 | 12,623 | 0 | 0 |
| Volume extraneous water treated (gal.) | 0 | 0 | 0 | 0 | 12,623 | 12,623 |
| Volume extraneous water to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| :: | | | | | | |

SINCLAIR REFINERY, WELLSVILLE, NEW YORK

UNIT 2, SEPARATOR REMEDIATION

| ITEM | W/E 15 WEEK | NOVEMBER TOTAL | W/E 22 WEEK | NOVEMBER TOTAL | W/E 29 WEEK | NOVEMBER TOTAL |
|--|----------------|-------------------|----------------|-------------------|----------------|-------------------|
| Volume aqueous phase removed (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume aqueous phase treated (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume of aqueous phase to POTW (gal.) | 32,390 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume sludge treated (gal.) | 41,752 | 238,232 | 38,068 | 276,300 | 5,912 | 282,212 |
| Weight filter-cake off-site (tons) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate produced (gal.) | Unknown | 193,875 | 14,971 | 208,846 | 14,971 | 223,817 |
| | | by 15 Nov | | | | |
| Volume filtrate treated (gal.) | 25,451 | 33,727 | 19,795 | 53,522 | 5,656 | 59,178 |
| Volume filtrate to POTW (gal.) | 8,276 | 8,276 | 0 | 8,276 | 0 | 8,276 |
| Volume extraneous water present (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water treated (gal.) | 0 | 12,623 | 0 | 12,623 | 0 | 12,623 |
| Volume extraneous water to POTW (gal.) | 12,623 | 12,623 | 0 | 12,623 | 0 | 12,623 |

| ITEM | W/E 6 WEEK | DECEMBER TOTAL | W/E 13 WEEK | DECEMBER TOTAL | W/E 20 WEEK | DECEMBER TOTAL |
|--|---------------|-------------------|----------------|-------------------|----------------|-------------------|
| Volume aqueous phase removed (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume aqueous phase treated (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume of aqueous phase to POTW (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume sludge treated (gal.) | 0 | 282,212 | 0 | 282,212 | 0 | 282,212 |
| Weight filter-cake off-site (tons) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate produced (gal.) | 2,579 | 226,396 | 7,445 | 233,841 | 0 | 233,841 |
| Volume filtrate treated (gal.) | 53,023 | 112,201 | 0 | 112,201 | 50,902 | 163,103 |
| Volume filtrate to POTW (gal.) | 50,902 | 59,178 | 0 | 59,178 | 53,023 | 112,201 |
| Volume extraneous water present (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water treated (gal.) | 0 | 12,623 | 0 | 12,623 | 0 | 12,623 |
| Volume extraneous water to POTW (gal.) | 0 | 12,623 | 0 | 12,623 | 0 | 12,623 |

SINCLAIR REFINERY, WELLSVILLE, NEW YORK

GQ3201/SEP.WK1

UNIT 2, SEPARATOR REMEDIATION

| ITEM | W/E 27 WEEK | DECEMBER TOTAL | W/E 3 WEEK | JANUARY TOTAL |
|--|----------------|-------------------|---------------|------------------|
| Volume aqueous phase removed (gal.) | 0 | 82,000 | 0 | 82,000 |
| Volume aqueous phase treated (gal.) | 0 | 82,000 | 0 | 82,000 |
| Volume of aqueous phase to POTW (gal.) | 0 | 82,000 | 0 | 82,000 |
| Volume sludge treated (gal.) | 0 | 282,212 | 0 | 282,212 |
| Weight filter-cake off-site (tons) | 0 | 0 | 163 | 163 |
| Volume filtrate produced (gal.) | 0 | 233,841 | 0 | 233,841 |
| Volume filtrate treated (gal.) | 0 | 163,103 | 16,897 | 180,000 |
| Volume filtrate to POTW (gal.) | 25,451 | 112,201 | 25,451 | 112,201 |
| Volume extraneous water present (gal.) | unknown | unknown | unknown | unknown |
| Volume extraneous water treated (gal.) | 0 | 12,623 | 0 | 12,623 |
| Volume extraneous water to POTW (gal.) | 0 | 12,623 | 0 | 12,623 |

MONTHLY FIELD REPORT

TO: Mr. Robert E. Ivy, ARCO

FROM: Roger B. North, P.E., GeoSyntec Consultants *RBN*
Jonathan E. Brandes, GeoSyntec Consultants *JEB*

DATE: 10 February 1993

SUBJECT: January 1993 Monthly Field Report
Sinclair Refinery Site Remediation
Wellsville, New York

The following main activities took place at the Sinclair Refinery Site, Wellsville, New York, during the month of January 1993.

UNIT 1

- Water pumped from temporary holding ponds in SLA to sanitary sewer, which leads directly to POTW, through 6 January. Remaining water frozen and will be left until Geo•Con remobilizes.
- ARCO and GeoSyntec Consultants conducted a preliminary CELA walk through on 7 January, and discussed punch list items with Geo•Con on 8 January.
- EPA/DEC walk through of CELA and Separator conducted on 20 January. M. Negrelli and L. DiGuardia (EPA), J. Drumm (NYDEC), M. Hrywnak (COE), R. Ivy (ARCO), B. Powers and C. Bailey (Geo•Con), and R. North and J. Brandes (GeoSyntec Consultants) in attendance.
- GeoSyntec Consultants collected CELA run-off water samples from 42-in. CMP culvert at north end of CELA on 13 January. Samples sent to Law Environmental, Inc., Kennesaw, Georgia, for analysis.
- Four geocomposite samples cut from exposed deployed geocomposite on 13 January. The geotextile component was tested by GeoSyntec Consultants' Materials Testing Laboratory, Boca Raton, Florida. Geo•Con is required to take adjacent samples when work resumes to determine whether the geotextile has degraded due to exposure.
- Additional surface soil conformational sampling performed by

GeoSyntec Consultants in refinery areas A (Current Controls), C (powerhouse), and D (Otis Eastern) on 18 and 19 January. Samples sent to Law Environmental for analysis. Results indicate additional locations in area C with arsenic concentrations above 25 ppm. Results also defined excavation limits required in area D.

- Buffalo Crushed Stone, Inc. delivered one truckload of proposed riprap to site from its Wherle Road, Buffalo, quarry on 11 January. GeoSyntec Consultants visited this quarry on 15 January. Importing and stock-piling of riprap started on 25 January and continued throughout month.
- Monitoring wells and piezometers sampled on 20, 21, and 22 January. Piezometer P-6 could not be accessed due to a temporary protective drum over the riser casing. Water samples taken from monitoring wells MWR-1 to MWR-11 and piezometers P-3 and P-5. Samples sent to Alfred Technical & Analytical Laboratory, Alfred, New York, for analysis. Other parameters measured on-site as part of activities.

UNIT 2, SEPARATOR

- Sampled sand and residuals from two roll-off boxes on 4 January. Samples sent to Law Environmental, Inc., Pensacola, Florida, for K051 analysis. Received preliminary K051 results on 26 January, which indicated that material may be suitable for landfill disposal.
- Eleven roll-off boxes containing filtercake transported on 4, 5, 8, and 14 January by Buffalo Fuel Corporation to LWD Inc., Culvert City, Kentucky, for incineration. See attached table for quantities.
- Filter plant treatment of filtrate and extraneous water continued throughout month. Treated water discharged to POTW on 11, 14, 22, 28, and 29 January. See attached table for quantities.
- Concrete chip sample 5 taken on 5 January from Separator wall immediately to side of chip sample 2 after area was re-sandblasted. Sample sent to General Testing Corporation, Rochester, New York, for total petroleum hydrocarbons (TPH)

analysis. Analytical result received on 7 January. See table below for results.

| SAMPLE NUMBER | SAMPLING DATE | RESULTS (TPH) ppm |
|---------------|---------------|-------------------|
| 1 | 24/Nov/92 | 19,400 |
| 2 | 8/Dec/92 | 51,400 |
| 3 | 14/Dec/92 | 30,500 |
| 3 Dup | 14/Dec/92 | 21,300 |
| 4 | 29/Dec/92 | 12,600 |
| 5 | 5/Jan/93 | 6,860 |

- Installed 15-in. diameter CMP from ditch on south side of Current Controls building to manhole 3 of Separator bypass line on 6 January.
- Temporary roof over Separator dismantled; pipes, valves, and pumps removed; pumphouse and pumphouse foundation demolished; holes made in floor of Separator; and Separator walls demolished 2 feet below grade between 11 and 15 January.
- Pumphouse and Separator backfilled with gravel between 13 and 20 January.
- Cover installed over 100,000 gal. Modutank on 15 January and heaters installed to melt ice. Aqueous material pumped to west 30,000 gal. Modutank. Treatment and discharge of treated water discussed in next paragraph. Sludge removed from bottom of 100,000 gal. Modutank with vacuum truck, stabilized with lime, and placed in two roll-off boxes; completed on 29 January. Final decontamination and dismantling of 100,000 gal. Modutank completed on 5 February.
- Treatment of aqueous material in west 30,000 gal. Modutank started on 27 January. Tank covered and heater placed inside tank to melt ice on 28 January. Treated water discharged through manhole 4 of Separator by-pass system into Genesee River, instead of to POTW. Treatment and discharge into manhole 4 continued for approximately 20 hours until GeoSyntec Consultants alerted

Sevenson to the error on 28 January. Sevenson estimated that approximately 4,250 gals. of untested water was discharged into Genesee River. Sevenson corrected discharge error immediately and took a water sample for analysis to compare treated water with Genesee River discharge requirements. Treatment and discharge to POTW continued on 28 and 29 January. See attached table for quantities.

- East 30,000 gal. Modutank decontaminated and dismantled between 25 January and 1 February.
- Twenty-nine 55-gal. drums containing oil, skimmed from top of east 100,000 gal. Modutank, transported by Hazmat Trucking on 29 January to LWD Inc., Culvert City, Kentucky, for incineration.
- Removed fence from west half of site and re-established the two-lane road to SUNY on 22 January. Temporary fence set around new manholes 1, 2, 3 and 4 and existing catch-basin NCB-2.

UNIT 2, POWERHOUSE

- No activity.

* * * * *

Attachment

Copy to: D. A. Christensen, P.E., ARCO
D. E. Grooms, ARCO
J. K. Kimura, ARCO
M. Hrywnak, COE
Dr. J. F. Beech, P.E., GeoSyntec Consultants

SINCLAIR REFINERY, WELLSVILLE, NEW YORK

UNIT 2, SEPARATOR REMEDIATION

| ITEM | W/E 4 OCTOBER WEEK | TOTAL | W/E 11 OCTOBER WEEK | TOTAL | W/E 18 OCTOBER WEEK | TOTAL |
|--|-----------------------|--------|------------------------|---------|------------------------|---------|
| Volume aqueous phase removed (gal.) | 49,500 | 49,500 | 0 | 49,500 | 32,500 | 82,000 |
| Volume aqueous phase treated (gal.) | 0 | 0 | 20,000 | 20,000 | 16,400 | 36,400 |
| Volume of aqueous phase to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume sludge treated (gal.) | 0 | 0 | 29,472 | 29,472 | 31,928 | 61,400 |
| Weight filter-cake off-site (tons) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate produced (gal.) | 0 | 0 | Unknown | Unknown | Unknown | Unknown |
| Volume filtrate treated (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water present (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water treated (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |

| ITEM | W/E 25 OCTOBER WEEK | TOTAL | W/E 1 NOVEMBER WEEK | TOTAL | W/E 8 NOVEMBER WEEK | TOTAL |
|--|------------------------|---------|------------------------|---------------------|------------------------|---------------------|
| Volume aqueous phase removed (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume aqueous phase treated (gal.) | 13,210 | 49,610 | 26,954 | 76,564 | 5,436 | 82,000 |
| Volume of aqueous phase to POTW (gal.) | 0 | 0 | 23,362 | 23,362 | 26,248 | 49,610 |
| Volume sludge treated (gal.) | 51,576 | 112,976 | 34,384 | 147,360 | 49,120 | 196,480 |
| Weight filter-cake off-site (tons) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate produced (gal.) | Unknown | Unknown | Unknown | 88,610 by 29 Oct | Unknown | 140,999 by 6 Nov |
| Volume filtrate treated (gal.) | 0 | 0 | 0 | 0 | 8,276 | 8,276 |
| Volume filtrate to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water present (gal.) | 0 | 0 | 12,623 | 12,623 | 0 | 0 |
| Volume extraneous water treated (gal.) | 0 | 0 | 0 | 0 | 12,623 | 12,623 |
| Volume extraneous water to POTW (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |

SINCLAIR REFINERY, WELLSVILLE, NEW YORK

UNIT 2, SEPARATOR REMEDIATION

| ITEM | W/E 15 WEEK | NOVEMBER TOTAL | W/E 22 WEEK | NOVEMBER TOTAL | W/E 29 WEEK | NOVEMBER TOTAL |
|--|----------------|-------------------|----------------|-------------------|----------------|-------------------|
| Volume aqueous phase removed (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume aqueous phase treated (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume of aqueous phase to POTW (gal.) | 32,390 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume sludge treated (gal.) | 41,752 | 238,232 | 38,068 | 276,300 | 5,912 | 282,212 |
| Weight filter-cake off-site (tons) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate produced (gal.) | Unknown | 193,875 | 14,971 | 208,846 | 14,971 | 223,817 |
| | | by 15 Nov | | | | |
| Volume filtrate treated (gal.) | 25,451 | 33,727 | 19,795 | 53,522 | 5,656 | 59,178 |
| Volume filtrate to POTW (gal.) | 8,276 | 8,276 | 0 | 8,276 | 0 | 8,276 |
| Volume extraneous water present (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water treated (gal.) | 0 | 12,623 | 0 | 12,623 | 0 | 12,623 |
| Volume extraneous water to POTW (gal.) | 12,623 | 12,623 | 0 | 12,623 | 0 | 12,623 |

| ITEM | W/E 6 WEEK | DECEMBER TOTAL | W/E 13 WEEK | DECEMBER TOTAL | W/E 20 WEEK | DECEMBER TOTAL |
|--|---------------|-------------------|----------------|-------------------|----------------|-------------------|
| Volume aqueous phase removed (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume aqueous phase treated (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume of aqueous phase to POTW (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume sludge treated (gal.) | 0 | 282,212 | 0 | 282,212 | 0 | 282,212 |
| Weight filter-cake off-site (tons) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume filtrate produced (gal.) | 2,579 | 226,396 | 7,445 | 233,841 | 0 | 233,841 |
| Volume filtrate treated (gal.) | 53,023 | 112,201 | 0 | 112,201 | 50,902 | 163,103 |
| Volume filtrate to POTW (gal.) | 50,902 | 59,178 | 0 | 59,178 | 53,023 | 112,201 |
| Volume extraneous water present (gal.) | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume extraneous water treated (gal.) | 0 | 12,623 | 0 | 12,623 | 0 | 12,623 |
| Volume extraneous water to POTW (gal.) | 0 | 12,623 | 0 | 12,623 | 0 | 12,623 |

SINCLAIR REFINERY, WELLSVILLE, NEW YORK

UNIT 2, SEPARATOR REMEDIATION

| ITEM | W/E 27 WEEK | DECEMBER TOTAL | W/E 3 WEEK | JANUARY TOTAL | W/E 10 WEEK | JANUARY TOTAL |
|--|----------------|-------------------|---------------|------------------|----------------|------------------|
| Volume aqueous phase removed (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume aqueous phase treated (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume of aqueous phase to POTW (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume sludge treated (gal.) | 0 | 282,212 | 0 | 282,212 | 0 | 282,212 |
| Weight filter-cake off-site (tons) | 0 | 0 | 163 | 163 | 128 | 291 |
| Volume filtrate produced (gal.) | 0 | 233,841 | 0 | 233,841 | 0 | 233,841 |
| Volume filtrate treated (gal.) | 0 | 163,103 | 16,897 | 180,000 | 34,005 | 214,005 |
| Volume filtrate to POTW (gal.) | 25,451 | 137,652 | 25,451 | 163,103 | 0 | 163,103 |
| Volume extraneous water present (gal.) | unknown | unknown | unknown | unknown | unknown | unknown |
| Volume extraneous water treated (gal.) | 0 | 12,623 | 0 | 12,623 | 0 | 12,623 |
| Volume extraneous water to POTW (gal.) | 0 | 12,623 | 0 | 12,623 | 0 | 12,623 |

| ITEM | W/E 17 WEEK | JANUARY TOTAL | W/E 24 WEEK | JANUARY TOTAL | W/E 31 WEEK | JANUARY TOTAL |
|---|----------------|------------------|----------------|------------------|----------------|------------------|
| Volume aqueous phase removed (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume aqueous phase treated (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume of aqueous phase to POTW (gal.) | 0 | 82,000 | 0 | 82,000 | 0 | 82,000 |
| Volume sludge treated (gal.) | 0 | 282,212 | 0 | 282,212 | 0 | 282,212 |
| Weight filter-cake off-site (tons) | 31 | 322 | 0 | 322 | 0 | 322 |
| Volume filtrate produced (gal.) | 0 | 233,841 | 0 | 233,841 | 0 | 233,841 |
| Volume filtrate treated (gal.) | 19,836 | 233,841 | 0 | 233,841 | 0 | 233,841 |
| Volume filtrate to POTW (gal.) | 50,902 | 214,005 | 19,836 | 233,841 | 0 | 233,841 |
| Volume extraneous water present (gal.) | unknown | unknown | unknown | unknown | unknown | 27,076 |
| Volume extraneous water treated (gal.) | 5,615 | 18,238 | 0 | 18,238 | 8,838 | 27,076 |
| Volume extraneous water to POTW (gal.) | 0 | 12,623 | 5,615 | 18,238 | 4,596 | 22,834 |
| Volume extraneous water to river (gal.) | 0 | 0 | 0 | 0 | 4,242 | 4,242 |

MONTHLY FIELD REPORT

TO: Mr. Robert E. Ivy, ARCO

FROM: Roger B. North, P.E., GeoSyntec Consultants *RBN*
Jonathan E. Brandes, GeoSyntec Consultants *JEB*

DATE: 4 March 1993

SUBJECT: February 1993 Monthly Field Report
Sinclair Refinery Site Remediation
Wellsville, New York

The following main activities took place at the Sinclair Refinery Site, Wellsville, New York, during the month of February 1993.

UNIT 1

- Additional surface soil conformational sampling performed by GeoSyntec Consultants in refinery areas A (Current Controls) and C (powerhouse) on 4 and 5 February and in area C on 11 February. Samples sent to Law Environmental for analysis. Results indicate additional locations in areas A and C with arsenic concentrations above 25 ppm.
- Rip-rap imported from Buffalo Crushed Stone, Inc., Wherle Road quarry, Buffalo, through 17 February. Material stock-piled in staging area. Total of 4,960 tons imported to date.
- C. Bailey on-site on 12 February to determine unit weight of rip-rap delivered to site.
- Front-end loader demobilized on 19 February.

UNIT 2, SEPARATOR

- Sampled residual sludge (from bottom of ModuTanks) from two roll-off boxes on 4 February. Samples sent to Law Environmental, Inc., Pensacola, Florida, for KO51 analysis.
- Sampled material from fourteen roll-off boxes (ten containing filtercake, two containing sandblasting residuals and two containing residual sludge from bottom of ModuTanks) on 11 February. Samples sent to General Testing Corporation, Rochester, New York, for consecutive KO51 and TCLP analysis.

February 1993 Monthly Field Report
4 March 1993
Page 2

- Decontamination and dismantling of 100,000 gal. Modutank completed on 3 February.
- Decontamination and dismantling of east 30,000 gal. Modutank completed on 1 February.
- Residual sludge residuals removed from bottom of west 30,000 gal. Modutank on 1 and 2 February.
- West 30,000 gal. Modutank decontaminated and dismantled on 3 and 4 February.
- Decontamination pad and associated materials decontaminated and removed on 5 February.
- Completed removal of perimeter fencing on 9 February.
- Ten protective bollards concreted around new manholes 1 and 2 and existing catch basin NCB-2, at west end Separator, on 15 and 16 February. Each bollard set approximately 4 ft (1.2 m) in ground and 4 ft (1.2 m) above ground.
- Severson completed demobilization from site on 16 February except for contractor trailer and International utility loader. Severson demobilized contractor trailer on 25 February.

UNIT 2, POWERHOUSE

- Geo-Con removed spoil heap from base of stack on 10 February to uncover small opening at bottom of stack.
- Bakers of Jerrico Hill excavated material from opening at bottom of stack on 26 February.

* * * * *

Copy to: D. A. Christensen, P.E., ARCO
D. E. Grooms, ARCO
J. K. Kimura, ARCO
M. Hrywnak, COE
Dr. J. F. Beech, P.E., GeoSyntec Consultants

MONTHLY FIELD REPORT

TO: Mr. Robert E. Ivy, ARCO

FROM: Roger B. North, P.E., GeoSyntec Consultants
Jonathan E. Brandes, GeoSyntec Consultants *TER*

DATE: 4 June 1993

SUBJECT: May 1993 Monthly Field Report
Sinclair Refinery Site Remediation
Wellsville, New York

The following main activities took place at the Sinclair Refinery Site, Wellsville, New York, during the month of May 1993:

UNIT 1

- Spring remobilization kick-off meeting for Unit 1 held on site on 11 May.
- GeoSyntec Consultants continued to collect and test additional refinery area confirmational soil samples in Refinery Areas B (end of swale), C (powerhouse), and G (dike area). Samples collected on 4, 6, 17, 18, 25, 26 May and sent to Law Environmental Inc., (Law), Pensacola, Florida, for Analysis.
- RMC Environmental Services continued to validate Law's test results for refinery area surface soils.

GQ3201/WE0089

- GeoSyntec Consultants and On-Site Health and Safety Services, Inc. performed second round of operation and maintenance sampling activities associated with CELA monitoring wells and piezometers on 5, 6 and 7 May. Water samples taken from monitoring wells MWR-1 to MWR-11 and piezometers P-3 and P-5. Samples sent to Alfred Technical & Analytical Laboratory, Alfred, New York, for analysis. Other parameters measured on-site as part of activities.
- Received results on 11 May of the tests performed by GeoSyntec Consultants' Materials Testing Laboratory on the geotextile component of the four geocomposite samples which were obtained on 29 April 1993 from locations immediately adjacent to the locations of the four samples collected on 13 January 1993. The results from the April and January samples were compared; the data indicates that no significant degradation of the geotextile occurred due to exposure between 13 January and 29 April.
- Primary Gundseal and 60-mil thick VLDPE geomembrane deployed on CELA on 14, 19, and 24-26 May. This completes the installation of Gundseal and VLDPE. See table below for quantities.
- Geocomposite drainage layer deployed on 21 and 27 May. This completes the installation of geocomposite. See table below for quantities.
- Common fill imported for anchor trench backfill, repair of west dike, placement on CELA, and perimeter grading between 18 and 28 May. See table below for quantities.
- Geo-Con dewatered sand layer component of perimeter channel on east, south and north side of CELA between 13 and 28 May.

May 1993 Monthly Field Report

4 June 1993

Page 3

- Discharge of water from temporary holding ponds in SLA to POTW continued until completed on 7 May. Geo•Con cleaned and removed the ponds liners and backfilled and graded the SLA between 29 April and 20 May.
- Geo•Con excavated common fill from along the alignments of the rock chutes and swales on CELA cap between 21 and 26 May.
- Geo•Con started excavating common fill from the alignments of the anchor trenches for geotextile TS1000 along sides of the rock chutes and swales on 26 May and continued throughout month.
- Geo•Con Deployed TS1000 in rock chutes and swales on CELA cap on 27 and 28 May. See table below for quantities.
- Bedding stone was imported, stockpiled in SLA and placed in rock chutes and swales on 27 and 28 May. See table below for quantities.
- Wood chip stockpile at northwest end of CELA was loaded on trucks and dumped at various locations on CELA on 26 May. Wood chips will be mixed with topsoil and spread on CELA.

| Item | May | Cumulative Quantity |
|--|---------------|---------------------|
| Gas Vent Stone (tons) | 0 (Completed) | 30,095 |
| CELA Geotextile (TS700) (ft ²) | 0 (Completed) | 1,042,618 |
| CELA Geotextile (TS700) (m ²) | 0 (Completed) | 96,898 |

GQ3201/WE0089

May 1993 Monthly Field Report

4 June 1993

Page 4

| Item | May | Cumulative Quantity |
|--|--------------------|---------------------|
| CELA Geotextile (TS1000) (ft ²) | 0 (Completed) | 100,700 |
| CELA Geotextile (TS1000) (m ²) | 0 (Completed) | 9,359 |
| Channel Geotextile (TS1000) (ft ²) | 15,000 | 15,000 |
| Channel Geotextile (TS1000) (m ²) | 1,394 | 1,394 |
| Secondary VLDPE (ft ²) | 0 (Completed) | 83,845 |
| Secondary VLDPE (m ²) | 0 (Completed) | 7,792 |
| Secondary Gundseal (ft ²) | 0 (Completed) | 39,566 |
| Secondary Gundseal (m ²) | 0 (Completed) | 3,677 |
| Primary Gundseal (ft ²) | 39,000 (Completed) | 563,132 |
| Primary Gundseal (m ²) | 3,625 (Completed) | 52,336 |
| Primary VLDPE (ft ²) | 40,118 (Completed) | 576,769 |
| Primary VLDPE (m ²) | 3,728 (Completed) | 53,603 |
| Geocomposite Layer (ft ²) | 16,600 (Completed) | 534,730 |
| Geocomposite Layer (m ²) | 1,543 (Completed) | 49,696 |
| Bedding Stone (tons) | 541 | 541 |
| Common Fill (tons) | 2,322 | 48,025 |

GQ3201/WE0089

May 1993 Monthly Field Report
4 June 1993
Page 5

UNIT 2, SEPARATOR

- Lynch Paving and Contracting Inc., as a subcontractor to Severson, graded, compacted and paved separator footprint between 20 May and 1 June.

UNIT 2, POWERHOUSE

- GeoSyntec Consultants continued preparation of Powerhouse Remediation Work Plan.

* * * * *

Attachment

Copy to: D. A. Christensen, P.E., ARCO
D. E. Grooms, ARCO
J. K. Kimura, ARCO
M. Hrywnak, COE
L. B. Macdonald, Morrison Knudsen Corporation
Dr. J. F. Beech, P.E., GeoSyntec Consultants

APPENDIX D

QUALITY ASSURANCE FORMS

- **QUALITY ASSURANCE FORMS
COMPLETED BY GEO.CON**
- **QUALITY ASSURANCE FORMS
COMPLETED BY GEOSYNTEC CONSULTANTS**

QUALITY ASSURANCE FORMS COMPLETED BY GEO.CON

- **FORM A-1 CLEARING AND GRUBBING**
- **FORM A-2 PLACEMENT OF SOIL-BENTONITE CUTOFF WALL**
- **FORM A-3 DRUM INVENTORY**
- **FORM A-4 DRUM SAMPLING**
- **FORM A-5 PLACEMENT OF ON-SITE FILL, OFF-SIT FILL AND STABILIZED MATERIAL ON THE CELA**
- **FORM A-6 PLACEMENT OF GAS VENTING LAYER AND VENTING PIPES**
- **FORM A-7 GUNDSEAL LINER**
- **FORM A-8 VLDPE GEOMEMBRANE**
- **FORM A-9 GEOSYNTHETIC DRAINAGE LAYER**
- **FORM A-10 PLACEMENT OF COMMON FILL**
- **FORM A-11 PLACEMENT OF TOPSOIL**
- **FORM A-12 GEOTEXTILE**
- **FORM A-13 CRUSHED GRAVEL OR BEDDING**
- **FORM A-14 RIP RAP**
- **FORM A-15 SAND AND FERTILIZER**
- **FORM A-16 EROSION AND SEDIMENT CONTROL**
- **FORM A-17 INSTALLATION OF FENCES AND GATES**
- **FORM A-18 MONITORING WELL AND PIEZOMETER INSTALLATIONS**

CLEARING AND GRUBBING

FORM A-1
SHEET 1 OF 1
INSPECTION DATE 11-3-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|--------------------------|
| 1. VERIFICATION INSPECTION | | | |
| - AREA TO BE CLEARED IS STAKED BY THE SURVEY CREWS TO CONFORM WITH THE CONTRACT DRAWINGS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - AREA TO BE GRUBBED IS STAKED BY THE SURVEY CREW TO CONFORM WITH THE CONTRACT DRAWINGS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - AREA IS FREE OF TREES, BRUSH, LOGS, LIMB WOOD, RUBBISH AND OTHER OBSTRUCTIONS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - STUMPS, ROOTS LARGER THAN 1-1/2 INCHES IN DIAMETER AND DECAYED MATTER REMOVED TO A 12" DEPTH FROM AREA REQUIRING GRUBBING. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

2. DUST CONTROL

ACTION TAKEN

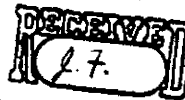
NONE REQUIRED

3. LOCATION (APPROXIMATE)

C & G ADDITIONAL EXCAVATION AREAS AT CURB CUT CONTROLS

4. REMARKS

AREAS BEING CLEARED & GRUBBED AS DIRECTED
BY CEDSYNTEC



NOV 14 1992

INSPECTOR

Chris Bally

DATE 11-3-92

REVIEWED BY

John L. F. (Ledyntec)

DATE 11-4-92

CLEARING AND GRUBBING

FORM A-1
SHEET 1 OF 1
INSPECTION DATE 11-2-92

1. VERIFICATION INSPECTION

ACCEPT REJECT N/A

- AREA TO BE CLEARED IS STAKED BY THE SURVEY CREWS TO CONFORM WITH THE CONTRACT DRAWINGS.
- AREA TO BE GRUBBED IS STAKED BY THE SURVEY CREW TO CONFORM WITH THE CONTRACT DRAWINGS.
- AREA IS FREE OF TREES, BRUSH, LOGS, LIMB WOOD, RUBBISH AND OTHER OBSTRUCTIONS.
- STUMPS, ROOTS LARGER THAN 1-1/2 INCHES IN DIAMETER AND DECAYED MATTER REMOVED TO A 12" DEPTH FROM AREA REQUIRING GRUBBING.

| | | |
|----------|---------------|---------------|
| <u>✓</u> | <u> </u> | <u> </u> |
| <u>✓</u> | <u> </u> | <u> </u> |
| <u>✓</u> | <u> </u> | <u> </u> |
| <u>✓</u> | <u> </u> | <u> </u> |

2. DUST CONTROL

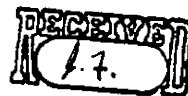
ACTION TAKEN NONE REQUIRED

3. LOCATION (APPROXIMATE)

C&G ADDITIONAL EXCAVATION AREAS AT CURRENT CONTROLS

4. REMARKS

AREAS ARE BEING CLEARED / GRUBBED AS DIRECTED
BY CFS/NTFC



NOV 4 1992

INSPECTOR Chris Burt

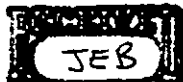
DATE 11-3-92

REVIEWED BY John H. Lee (Deputy)

DATE 11-4-92

SEP 1 1992

CLEARING AND GRUBBING



FORM A-1

SHEET 1 OF 1INSPECTION DATE 8-20-92

1. VERIFICATION INSPECTION

ACCEPT REJECT N/A

- AREA TO BE CLEARED IS STAKED BY THE SURVEY CREWS TO CONFORM WITH THE CONTRACT DRAWINGS.
- AREA TO BE GRUBBED IS STAKED BY THE SURVEY CREW TO CONFORM WITH THE CONTRACT DRAWINGS.
- AREA IS FREE OF TREES, BRUSH, LOGS, LIMB WOOD, RUBBISH AND OTHER OBSTRUCTIONS.
- STUMPS, ROOTS LARGER THAN 1-1/2 INCHES IN DIAMETER AND DECAYED MATTER REMOVED TO A 12" DEPTH FROM AREA REQUIRING GRUBBING.

| ACCEPT | REJECT | N/A |
|-------------------------------------|--------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

2. DUST CONTROL

ACTION TAKEN NONE REQUIRED

3. LOCATION (APPROXIMATE)

REFINERY AREA C

4. REMARKS

INSPECTOR

Chris Bailey

DATE

9-3-92

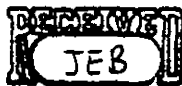
REVIEWED BY

Jonathan E. Brandes

DATE

9/8/92

SEP 8 1992



FORM A-1

SHEET 1 OF 1
INSPECTION DATE 8-19-92

CLEARING AND GRUBBING

ACCEPT REJECT N/A

1. VERIFICATION INSPECTION

- AREA TO BE CLEARED IS STAKED BY THE SURVEY CREWS TO CONFORM WITH THE CONTRACT DRAWINGS.
- AREA TO BE GRUBBED IS STAKED BY THE SURVEY CREW TO CONFORM WITH THE CONTRACT DRAWINGS.
- AREA IS FREE OF TREES, BRUSH, LOGS, LIMB WOOD, RUBBISH AND OTHER OBSTRUCTIONS.
- STUMPS, ROOTS LARGER THAN 1-1/2 INCHES IN DIAMETER AND DECAYED MATTER REMOVED TO A 12" DEPTH FROM AREA REQUIRING GRUBBING.

| ACCEPT | REJECT | N/A |
|-------------------------------------|--------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

2. DUST CONTROL

ACTION TAKEN NONE REQUIRED

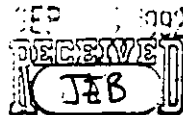
3. LOCATION (APPROXIMATE)

REFINERY AREA D

4. REMARKS

INSPECTOR Chris Banta DATE 9-3-92REVIEWED BY Jonathan E. Brandes DATE 9/3/92

CLEARING AND GRUBBING



FORM A-1
SHEET 1 OF 1
INSPECTION DATE 7-30-92

1. VERIFICATION INSPECTION

ACCEPT REJECT N/A

- AREA TO BE CLEARED IS STAKED BY THE SURVEY CREWS TO CONFORM WITH THE CONTRACT DRAWINGS.
- AREA TO BE GRUBBED IS STAKED BY THE SURVEY CREW TO CONFORM WITH THE CONTRACT DRAWINGS.
- AREA IS FREE OF TREES, BRUSH, LOGS, LIMB WOOD, RUBBISH AND OTHER OBSTRUCTIONS.
- STUMPS, ROOTS LARGER THAN 1-1/2 INCHES IN DIAMETER AND DECAYED MATTER REMOVED TO A 12" DEPTH FROM AREA REQUIRING GRUBBING.

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| ✓ | | |

2. DUST CONTROL

ACTION TAKEN NONE REQUIRED

3. LOCATION (APPROXIMATE)

Refinery Area E

4. REMARKS

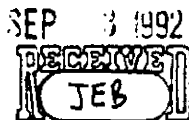
INSPECTOR Chris Barta

DATE 9-3-92

REVIEWED BY Jonathan E. Brands

DATE 9/3/92

CLEARING AND GRUBBING



FORM A-1
SHEET 1 OF 1
INSPECTION DATE 7-30-92

1. VERIFICATION INSPECTION

ACCEPT REJECT N/A

- AREA TO BE CLEARED IS STAKED BY THE SURVEY CREWS TO CONFORM WITH THE CONTRACT DRAWINGS.
- AREA TO BE GRUBBED IS STAKED BY THE SURVEY CREW TO CONFORM WITH THE CONTRACT DRAWINGS.
- AREA IS FREE OF TREES, BRUSH, LOGS, LIMB WOOD, RUBBISH AND OTHER OBSTRUCTIONS.
- STUMPS, ROOTS LARGER THAN 1-1/2 INCHES IN DIAMETER AND DECAYED MATTER REMOVED TO A 12" DEPTH FROM AREA REQUIRING GRUBBING.

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| ✓ | | |

2. DUST CONTROL

ACTION TAKEN NONE REQUIRED

3. LOCATION (APPROXIMATE)

REFINERY AREA B

4. REMARKS

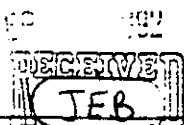
INSPECTOR Chris Bailey

DATE 9-3-92

REVIEWED BY Jonathan E. Brando

DATE 9/3/92

CLEARING AND GRUBBING



FORM A-1
SHEET 1 OF 1
INSPECTION DATE 8-21-92

1. VERIFICATION INSPECTION

ACCEPT REJECT N/A

- AREA TO BE CLEARED IS STAKED BY THE SURVEY CREWS TO CONFORM WITH THE CONTRACT DRAWINGS.
- AREA TO BE GRUBBED IS STAKED BY THE SURVEY CREW TO CONFORM WITH THE CONTRACT DRAWINGS.
- AREA IS FREE OF TREES, BRUSH, LOGS, LIMB WOOD, RUBBISH AND OTHER OBSTRUCTIONS.
- STUMPS, ROOTS LARGER THAN 1-1/2 INCHES IN DIAMETER AND DECAYED MATTER REMOVED TO A 12" DEPTH FROM AREA REQUIRING GRUBBING.

| | | |
|---|--|--|
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| ✓ | | |
| ✓ | | |

2. DUST CONTROL

ACTION TAKEN AS REQUIRED

3. LOCATION (APPROXIMATE)

REFINERY AREA F

4. REMARKS

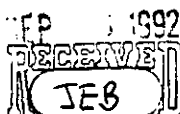
INSPECTOR Chris Bule

DATE 9-3-92

REVIEWED BY Jonathan E. Brands

DATE 9/3/92

CLEARING AND GRUBBING



FORM A-1
SHEET 1 OF 1
INSPECTION DATE 8-29-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|--------------------------|
| 1. VERIFICATION INSPECTION | | | |
| - AREA TO BE CLEARED IS STAKED BY THE SURVEY CREWS TO CONFORM WITH THE CONTRACT DRAWINGS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - AREA TO BE GRUBBED IS STAKED BY THE SURVEY CREW TO CONFORM WITH THE CONTRACT DRAWINGS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - AREA IS FREE OF TREES, BRUSH, LOGS, LIMB WOOD, RUBBISH AND OTHER OBSTRUCTIONS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - STUMPS, ROOTS LARGER THAN 1-1/2 INCHES IN DIAMETER AND DECAYED MATTER REMOVED TO A 12" DEPTH FROM AREA REQUIRING GRUBBING. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

2. DUST CONTROL

ACTION TAKEN NONE REQUIRED

3. LOCATION (APPROXIMATE)

REFINERY AREA F

4. REMARKS

INSPECTOR

Chris Bailey

DATE 9-3-92

REVIEWED BY

Jonathan E. Brands

DATE 9/3/92

CLEARING AND GRUBBING

FORM A-1
SHEET 1 OF 1
INSPECTION DATE 7-20-92

1. VERIFICATION INSPECTION

ACCEPT REJECT N/A

- AREA TO BE CLEARED IS STAKED BY THE SURVEY CREWS TO CONFORM WITH THE CONTRACT DRAWINGS.
- AREA TO BE GRUBBED IS STAKED BY THE SURVEY CREW TO CONFORM WITH THE CONTRACT DRAWINGS.
- AREA IS FREE OF TREES, BRUSH, LOGS, LIMB WOOD, RUBBISH AND OTHER OBSTRUCTIONS.
- STUMPS, ROOTS LARGER THAN 1-1/2 INCHES IN DIAMETER AND DECAYED MATTER REMOVED TO A 12" DEPTH FROM AREA REQUIRING GRUBBING.

| | | |
|-------------------------------------|--------------------------|-------------------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

2. DUST CONTROL

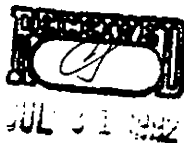
ACTION TAKEN

NONE REQUIRED

3. LOCATION (APPROXIMATE)

CELA NORTHWEST SIDE (STUMP GRINDING)

4. REMARKS CELA HAS ALL STUMPS GROUND. THE CURRENT CONTROLS AREA HAS TO BE CLEARED & GRUBBED IN THE AREA WHICH WAS ADDED.



INSPECTOR

Frederick J. Martello / [Signature]

DATE 7-20-92

REVIEWED BY

Collin P. [Signature]

DATE 7/21/92

CLEARING AND GRUBBING

SHEET 1 OF 1
INSPECTION DATE 7-21-92

1. VERIFICATION INSPECTION

ACCEPT REJECT N/A

- AREA TO BE CLEARED IS STAKED BY THE SURVEY CREWS TO CONFORM WITH THE CONTRACT DRAWINGS.
- AREA TO BE GRUBBED IS STAKED BY THE SURVEY CREW TO CONFORM WITH THE CONTRACT DRAWINGS.
- AREA IS FREE OF TREES, BRUSH, LOGS, LIMB WOOD, RUBBISH AND OTHER OBSTRUCTIONS.
- STUMPS, ROOTS LARGER THAN 1-1/2 INCHES IN DIAMETER AND DECAYED MATTER REMOVED TO A 12" DEPTH FROM AREA REQUIRING GRUBBING.

| | | |
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| ✓ | | |
| ✓ | | |

2. DUST CONTROL

ACTION TAKEN NONE REQUIRED

3. LOCATION (APPROXIMATE)

NORTH END OF CURRENT CONTROLS (ADDITIONAL AREA)

4. REMARKS

INSPECTOR

Frederick J. Martello / Chris Bailey

DATE 7-21-92

REVIEWED BY

Collin P. Swann

DATE 7/22/92

CLEARING AND GRUBBING

FORM A-1
SHEET 1 OF 1
INSPECTION DATE 6-19-92

1. VERIFICATION INSPECTION

ACCEPT REJECT N/A

- AREA TO BE CLEARED IS STAKED BY THE SURVEY CREWS TO CONFORM WITH THE CONTRACT DRAWINGS.
- AREA TO BE GRUBBED IS STAKED BY THE SURVEY CREW TO CONFORM WITH THE CONTRACT DRAWINGS.
- AREA IS FREE OF TREES, BRUSH, LOGS, LIMB WOOD, RUBBISH AND OTHER OBSTRUCTIONS.
- STUMPS, ROOTS LARGER THAN 1-1/2 INCHES IN DIAMETER AND DECAYED MATTER REMOVED TO A 12" DEPTH FROM AREA REQUIRING GRUBBING.

| | | |
|---|--|---|
| ✓ | | |
| ✓ | | |
| | | ✓ |
| | | ✓ |

2. DUST CONTROL

ACTION TAKEN NONE NEEDED

3. LOCATION (APPROXIMATE)

AM CLEARED SLURRY WALL LINE, REMAINDER OF SITE CLEARED PM

4. REMARKS

INSPECTOR

Chris Bailey

DATE 2-14-92

REVIEWED BY

Ry - NTS

DATE 16 July 92

CLEARING AND GRUBBING

FORM A-1
SHEET 1 OF 1
INSPECTION DATE 6-18-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|-------------------------------------|
| 1. VERIFICATION INSPECTION | | | |
| - AREA TO BE CLEARED IS STAKED BY THE SURVEY CREWS TO CONFORM WITH THE CONTRACT DRAWINGS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - AREA TO BE GRUBBED IS STAKED BY THE SURVEY CREW TO CONFORM WITH THE CONTRACT DRAWINGS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - AREA IS FREE OF TREES, BRUSH, LOGS, LIMB WOOD, RUBBISH AND OTHER OBSTRUCTIONS. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - STUMPS, ROOTS LARGER THAN 1-1/2 INCHES IN DIAMETER AND DECAYED MATTER REMOVED TO A 12" DEPTH FROM AREA REQUIRING GRUBBING. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

2. DUST CONTROL

ACTION TAKEN TWA FOR DUST EXCEEDED, CLEARING SHUT DOWN
AT 11:30, WATER TRUCK ENROUTE TO SITE

3. LOCATION (APPROXIMATE)

FROM NORTH TO SOUTH ON EAST SIDE, ALONG SLURRY WALL LINE

4. REMARKS

INSPECTOR Chris Bailey DATE 7-14-92
REVIEWED BY Rj N... DATE 16/July/92

CLEARING AND GRUBBING

FORM A-1
SHEET 1 OF 1
INSPECTION DATE 6-17-92

1. VERIFICATION INSPECTION

ACCEPT REJECT N/A

- AREA TO BE CLEARED IS STAKED BY THE SURVEY CREWS TO CONFORM WITH THE CONTRACT DRAWINGS. ✓
- AREA TO BE GRUBBED IS STAKED BY THE SURVEY CREW TO CONFORM WITH THE CONTRACT DRAWINGS. ✓
- AREA IS FREE OF TREES, BRUSH, LOGS, LIMB WOOD, RUBBISH AND OTHER OBSTRUCTIONS. ✓
- STUMPS, ROOTS LARGER THAN 1-1/2 INCHES IN DIAMETER AND DECAYED MATTER REMOVED TO A 12" DEPTH FROM AREA REQUIRING GRUBBING. ✓

2. DUST CONTROL

ACTION TAKEN NONE NEEDED

3. LOCATION (APPROXIMATE)

NORTH To SOUTH ON THE WEST SIDE, 100' WIDE AT SURVEY WALL LINE.

4. REMARKS NONE

INSPECTOR

Chris Bailey

DATE 7-14-92

REVIEWED BY

Ry [Signature]

DATE 7-16-92

FORM A-1
SHEET 1 OF 1
INSPECTION DATE 7-17-92

1. VERIFICATION INSPECTION

- IN PROGRESS

ACTION TAKEN NONE REQUIRED

CURRENT CONTROLS AREA.

4. REMARKS CURRENT CONTROL AREA WAS SURVEYED.



INSPECTOR Frederick J. Martello / Chris Early DATE 7-17-92
REVIEWED BY William F. Lusk DATE 7/20/92

CLEARING AND GRUBBING

PAGE 1
SHEET 1 OF 1
INSPECTION DATE 7-16-92

| | ACCEPT | REJECT | N/A |
|--|------------------|--------|-----|
| 1. VERIFICATION INSPECTION | | | |
| - AREA TO BE CLEARED IS STAKED BY THE SURVEY CREWS TO CONFORM WITH THE CONTRACT DRAWINGS. | ✓ | | |
| - AREA TO BE GRUBBED IS STAKED BY THE SURVEY CREW TO CONFORM WITH THE CONTRACT DRAWINGS. | ✓ | | |
| - AREA IS FREE OF TREES, BRUSH, LOGS, LIMB WOOD, RUBBISH AND OTHER OBSTRUCTIONS. | WORK IN PROGRESS | | |
| - STUMPS, ROOTS LARGER THAN 1-1/2 INCHES IN DIAMETER AND DECAYED MATTER REMOVED TO A 12" DEPTH FROM AREA REQUIRING GRUBBING. | WORK IN PROGRESS | | |

2. DUST CONTROL

ACTION TAKEN NONE REQUIRED

3. LOCATION (APPROXIMATE)

STUMP GRINDING N.W. SIDE OF CELA, CLEAR + GRUB SEPARATOR AREA

4. REMARKS ASKED TO CLEAR + GRUB A LARGER AREA IN THE
CURRENT CONTROLS REFINERY EXCAVATION AREA. IT WILL BE
SURVEYED TOMORROW. FENCE AROUND SEPARATOR WAS TAKEN
DOWN AND THEN PUT BACK UP. THERE IS STILL A LITTLE
BIT OF GRUBBING TO BE DONE.



INSPECTOR Frederick J. Martello Chris Bailey
 REVIEWED BY Colin P. Jackson

DATE 7-16-92

DATE 7/17/92

CLEARING AND GRUBBING

FORM A-1
SHEET 1 OF 1
INSPECTION DATE 7-15-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|-------------------------------------|
| 1. VERIFICATION INSPECTION | | | |
| - AREA TO BE CLEARED IS STAKED BY THE SURVEY CREWS TO CONFORM WITH THE CONTRACT DRAWINGS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - AREA TO BE GRUBBED IS STAKED BY THE SURVEY CREW TO CONFORM WITH THE CONTRACT DRAWINGS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - AREA IS FREE OF TREES, BRUSH, LOGS, LIMB WOOD, RUBBISH AND OTHER OBSTRUCTIONS. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - STUMPS, ROOTS LARGER THAN 1-1/2 INCHES IN DIAMETER AND DECAYED MATTER REMOVED TO A 12" DEPTH FROM AREA REQUIRING GRUBBING. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

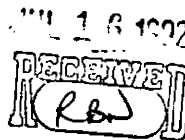
2. DUST CONTROL

ACTION TAKEN NONE REQUIRED

3. LOCATION (APPROXIMATE)

STUMPS GROUND ON NORTHWEST SIDE OF CELA

4. REMARKS



INSPECTOR

Fredrick J. Martello / Chris Bailey
Ryan N. H.

DATE 7-15-92

REVIEWED BY

DATE 16 July 92

CLEARING AND GRUBBING

FORM A-1
SHEET 1 OF 1
INSPECTION DATE 7-14-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|-------------------------------------|
| 1. VERIFICATION INSPECTION | | | |
| - AREA TO BE CLEARED IS STAKED BY THE SURVEY CREWS TO CONFORM WITH THE CONTRACT DRAWINGS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - AREA TO BE GRUBBED IS STAKED BY THE SURVEY CREW TO CONFORM WITH THE CONTRACT DRAWINGS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - AREA IS FREE OF TREES, BRUSH, LOGS, LIMB WOOD, RUBBISH AND OTHER OBSTRUCTIONS. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - STUMPS, ROOTS LARGER THAN 1-1/2 INCHES IN DIAMETER AND DECAYED MATTER REMOVED TO A 12" DEPTH FROM AREA REQUIRING GRUBBING. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

2. DUST CONTROL

ACTION TAKEN NONE REQUIRED

3. LOCATION (APPROXIMATE)

NORTHWEST SIDE OF CELA

4. REMARKS GRINDING OF STUMPS STARTED TODAY.

INSPECTOR

Fredrick J. Wadsworth

DATE 7-14-92

REVIEWED BY

R. J. Niles

DATE 7/14/92

CLEARING AND GRUBBING

FORM A-1
SHEET 1 OF 1
INSPECTION DATE 7-13-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|--------------------------|
| 1. VERIFICATION INSPECTION | | | |
| - AREA TO BE CLEARED IS STAKED BY THE SURVEY CREWS TO CONFORM WITH THE CONTRACT DRAWINGS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - AREA TO BE GRUBBED IS STAKED BY THE SURVEY CREW TO CONFORM WITH THE CONTRACT DRAWINGS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - AREA IS FREE OF TREES, BRUSH, LOGS, LIMB WOOD, RUBBISH AND OTHER OBSTRUCTIONS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - STUMPS, ROOTS LARGER THAN 1-1/2 INCHES IN DIAMETER AND DECAYED MATTER REMOVED TO A 12" DEPTH FROM AREA REQUIRING GRUBBING. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. DUST CONTROL | | | |
| ACTION TAKEN <u>NONE NECESSARY</u> | | | |
| 3. LOCATION (APPROXIMATE) | | | |
| <u>CLEARING AND GRUBBING OF SEPARATOR AREA STARTED</u> | | | |
| 4. REMARKS | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| INSPECTOR <u>Chris Bailey</u> | | DATE <u>7-17</u> | |
| REVIEWED BY <u>Rj N</u> | | DATE <u>10 Aug 92</u> | |

CLEARING AND GRUBBING

FORM A-1
SHEET 1 OF 1
INSPECTION DATE 7-2-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|--------------------------|
| 1. VERIFICATION INSPECTION | | | |
| - AREA TO BE CLEARED IS STAKED BY THE SURVEY CREWS TO CONFORM WITH THE CONTRACT DRAWINGS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - AREA TO BE GRUBBED IS STAKED BY THE SURVEY CREW TO CONFORM WITH THE CONTRACT DRAWINGS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - AREA IS FREE OF TREES, BRUSH, LOGS, LIMB WOOD, RUBBISH AND OTHER OBSTRUCTIONS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - STUMPS, ROOTS LARGER THAN 1-1/2 INCHES IN DIAMETER AND DECAYED MATTER REMOVED TO A 12" DEPTH FROM AREA REQUIRING GRUBBING. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. DUST CONTROL | | | |
| ACTION TAKEN <u>NONE</u> | | | |
| 3. LOCATION (APPROXIMATE) | | | |
| <u>CLEARING - CURRENT CONTROLS, AND GRUBBING, COMPLETED</u> | | | |
| 4. REMARKS | | | |
| | | | |
| INSPECTOR <u>Chris Bailey</u> | | DATE <u>7-14-92</u> | |
| REVIEWED BY <u>Rj Niles</u> | | DATE <u>10/24/92</u> | |

CLEARING AND GRUBBING

FORM A-1
SHEET 1 OF 1
INSPECTION DATE 7-1-92

| | ACCEPT | REJECT | N/A |
|--|--|--------------------------|--------------------------|
| 1. VERIFICATION INSPECTION | | | |
| - AREA TO BE CLEARED IS STAKED BY THE SURVEY CREWS TO CONFORM WITH THE CONTRACT DRAWINGS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - AREA TO BE GRUBBED IS STAKED BY THE SURVEY CREW TO CONFORM WITH THE CONTRACT DRAWINGS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - AREA IS FREE OF TREES, BRUSH, LOGS, LIMB WOOD, RUBBISH AND OTHER OBSTRUCTIONS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - STUMPS, ROOTS LARGER THAN 1-1/2 INCHES IN DIAMETER AND DECAYED MATTER REMOVED TO A 12" DEPTH FROM AREA REQUIRING GRUBBING. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. DUST CONTROL | | | |
| ACTION TAKEN | <u>DUST LEVELS EXCEEDED DURING GRUBBING, DOZER WAS X SHUT DOWN WHILE DUST CLEARED</u> | | |
| 3. LOCATION (APPROXIMATE) | <u>GRUBBED CAP AREA, COMPLETED ALL BUT GRINDING STUMPS</u> | | |
| 4. REMARKS | <u></u> | | |
| | <u></u> | | |
| | <u></u> | | |
| | <u></u> | | |
| | <u></u> | | |
| INSPECTOR | <u>Chris Bailey</u> | | DATE <u>7-14-92</u> |
| REVIEWED BY | <u>Ry [Signature]</u> | | DATE <u>6/14/92</u> |

CLEARING AND GRUBBING

FORM A-1
SHEET 1 OF 1
INSPECTION DATE 6-30-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|--------------------------|
| 1. VERIFICATION INSPECTION | | | |
| - AREA TO BE CLEARED IS STAKED BY THE SURVEY CREWS TO CONFORM WITH THE CONTRACT DRAWINGS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - AREA TO BE GRUBBED IS STAKED BY THE SURVEY CREW TO CONFORM WITH THE CONTRACT DRAWINGS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - AREA IS FREE OF TREES, BRUSH, LOGS, LIMB WOOD, RUBBISH AND OTHER OBSTRUCTIONS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - STUMPS, ROOTS LARGER THAN 1-1/2 INCHES IN DIAMETER AND DECAYED MATTER REMOVED TO A 12" DEPTH FROM AREA REQUIRING GRUBBING. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. DUST CONTROL | | | |
| ACTION TAKEN <u>WATER TRUCK USED TO CONTROL DUST.</u> | | | |
| 3. LOCATION (APPROXIMATE) | | | |
| <u>GRUBBED CAP AREA</u> | | | |
| 4. REMARKS | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| INSPECTOR <u>Chris Bailey</u> | | | DATE <u>7-14-92</u> |
| REVIEWED BY <u>Ry Niles</u> | | | DATE <u>16/July/92</u> |

CLEARING AND GRUBBING

FORM A-1
SHEET 1 OF 1
INSPECTION DATE 6-29-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|--------------------------|
| 1. VERIFICATION INSPECTION | | | |
| - AREA TO BE CLEARED IS STAKED BY THE SURVEY CREWS TO CONFORM WITH THE CONTRACT DRAWINGS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - AREA TO BE GRUBBED IS STAKED BY THE SURVEY CREW TO CONFORM WITH THE CONTRACT DRAWINGS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - AREA IS FREE OF TREES, BRUSH, LOGS, LIMB WOOD, RUBBISH AND OTHER OBSTRUCTIONS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - STUMPS, ROOTS LARGER THAN 1-1/2 INCHES IN DIAMETER AND DECAYED MATTER REMOVED TO A 12" DEPTH FROM AREA REQUIRING GRUBBING. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

2. DUST CONTROL

ACTION TAKEN NONE

3. LOCATION (APPROXIMATE)

GRUBBED STORM WATER MANAGEMENT AREA, COMPLETED

4. REMARKS

INSPECTOR Chris Bailey DATE 7-14-92

REVIEWED BY Rj N... DATE 10/2/92

CLEARING AND GRUBBING

FORM A-1
SHEET 1 OF 1
INSPECTION DATE 6-22-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|-------------------------------------|
| 1. VERIFICATION INSPECTION | | | |
| - AREA TO BE CLEARED IS STAKED BY THE SURVEY CREWS TO CONFORM WITH THE CONTRACT DRAWINGS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - AREA TO BE GRUBBED IS STAKED BY THE SURVEY CREW TO CONFORM WITH THE CONTRACT DRAWINGS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - AREA IS FREE OF TREES, BRUSH, LOGS, LIMB WOOD, RUBBISH AND OTHER OBSTRUCTIONS. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - STUMPS, ROOTS LARGER THAN 1-1/2 INCHES IN DIAMETER AND DECAYED MATTER REMOVED TO A 12" DEPTH FROM AREA REQUIRING GRUBBING. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. DUST CONTROL | | | |
| ACTION TAKEN <u>NO DUST GENERATED</u> | | | |
| 3. LOCATION (APPROXIMATE) | | | |
| <u>COMPLETED CLEARING OF CAP AREA</u> | | | |
| 4. REMARKS <u>NO GRUBBING OR RAKING, WORK PLAN NEEDED.</u> | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| INSPECTOR <u>Chris Bailey</u> | | | DATE <u>7-14-92</u> |
| REVIEWED BY <u>Ry Niles</u> | | | DATE <u>10/24/92</u> |

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2
SHEET 1 OF 2
INSPECTION DATE 7-9-92

1. MATERIAL

ACCEPT REJECT N/A

- BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY)
- ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY)
- WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR.
- SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.

2. QC AND VERIFICATION TESTINGS

FRESH SLURRY

- DENSITY (2 TESTS PER DAY)
- VISCOSITY (2 TESTS PER DAY)
- FILTRATE LOSS (3 TESTS PER WEEK)
- pH (3 TESTS PER WEEK)

ALL ABOVE TESTS SHALL BE PERFORMED FOR THE SLURRY READY TO BE PLACED IN THE TRENCH.

SLURRY IN TRENCH

- DENSITY OF THE SLURRY (2 TIMES PER DAY).
- VISCOSITY OF THE SLURRY (2 TIMES PER DAY).

JUL 10 1992
JUL 9 1992
RECEIVED
R&S

FORM A-2

SHEET 2 OF 2INSPECTION DATE 7-9-92PLACEMENT OF SOIL BENTONITE CUTOFF WALL
(cont'd)

ACCEPT REJECT N/A

BACKFILL

- SLUMP TEST (EVERY 500 CY) ☒
- DENSITY (EVERY 500 CY) ☒
- PERMEABILITY (SHELBY) (EVERY 1000 CY) ☒
- SIEVE ANALYSIS (EVERY 500 CY) ☒

- SLOPE ☒
- DISTANCE ☒
- CLAY CLOD SIZE ☒
- AGGREGATE SIZE ☒

KEY IN THE CLAY

- DEPTH TO CLAY (EVERY 20 FEET) ☒
- SAMPLE OF CLAY FOR RECORD (EVERY 100 FEET OF WALL LENGTH) ☒
- ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH) ☐

TRENCH

- VERTICALITY (EVERY 100 FEET) ☒

TRAFFIC CAP

- THICKNESS OF CAP (EVERY 300 FEET) ☒
- MOISTURE CONTENT (EVERY 250 CY) ☒
- IN-PLACE DENSITY (EVERY 250 CY) ☒
- PERMEABILITY (EVERY 500 CY) ☒

3. DUST CONTROL DUST LEVELS ACCEPTABLE DUE TO RAIN OVERNIGHT4. LOCATION ST+00 → 2+205. REMARKS NoneINSPECTOR Chris BaileyDATE 7-9-92REVIEWED BY Rg- NTDDATE 10/24/92

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2
SHEET 1 OF 2
INSPECTION DATE 7-10-92

| | ACCEPT | REJECT | N/A |
|---|---------------|---------------|---------------|
| 1. MATERIAL | | | |
| - BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <u>✓</u> | <u> </u> | <u> </u> |
| - ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <u> </u> | <u> </u> | <u>✓</u> |
| - WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR. | <u>✓</u> | <u> </u> | <u> </u> |
| - SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <u>✓</u> | <u> </u> | <u> </u> |

2. QC AND VERIFICATION TESTINGS

FRESH SLURRY

| | | | |
|------------------------------------|--------------|---------------|---------------|
| - DENSITY (2 TESTS PER DAY) | <u>(2) ✓</u> | <u> </u> | <u> </u> |
| - VISCOSITY (2 TESTS PER DAY) | <u>(2) ✓</u> | <u> </u> | <u> </u> |
| - FILTRATE LOSS (3 TESTS PER WEEK) | <u>✓</u> | <u> </u> | <u> </u> |
| - pH (3 TESTS PER WEEK) | <u>✓</u> | <u> </u> | <u> </u> |

ALL ABOVE TESTS SHALL BE PERFORMED FOR THE SLURRY READY TO BE PLACED IN THE TRENCH.

SLURRY IN TRENCH

| | | | |
|--|--------------|---------------|---------------|
| - DENSITY OF THE SLURRY (2 TIMES PER DAY). | <u>(3) ✓</u> | <u> </u> | <u> </u> |
| - VISCOSITY OF THE SLURRY (2 TIMES PER DAY). | <u>(3) ✓</u> | <u> </u> | <u> </u> |

JUL 11 1992
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R&S

PLACEMENT OF SOIL BENTONITE CUTOFF WALL
(cont'd)

FORM A-2
SHEET 2 OF 2
INSPECTION DATE 7-10-92

ACCEPT REJECT N/A

BACKFILL

- SLUMP TEST (EVERY 500 CY) ✓
- DENSITY (EVERY 500 CY) ✓
- PERMEABILITY (SHELBY) (EVERY 1000 CY) ✓
- SIEVE ANALYSIS (EVERY 500 CY) ✓
- SLOPE ✓
- DISTANCE ✓
- CLAY CLOD SIZE ✓
- AGGREGATE SIZE ✓

KEY IN THE CLAY

- DEPTH TO CLAY (EVERY 20 FEET) ✓
- SAMPLE OF CLAY FOR RECORD (EVERY 100 FEET OF WALL LENGTH) ✓
- ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH)

TRENCH

- VERTICALITY (EVERY 100 FEET) ✓

TRAFFIC CAP

- THICKNESS OF CAP (EVERY 300 FEET) ✓
- MOISTURE CONTENT (EVERY 250 CY) ✓
- IN-PLACE DENSITY (EVERY 250 CY) ✓
- PERMEABILITY (EVERY 500 CY) ✓

3. DUST CONTROL DUST LEVELS ACCEPTABLE
4. LOCATION 2+20 → 1+00
5. REMARKS None

INSPECTOR Chris Bailey DATE 7-10-92
REVIEWED BY Rg- [Signature] DATE 7-11-92

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2
SHEET 1 OF 2
INSPECTION DATE 7-13-92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

2. QC AND VERIFICATION TESTINGS

FRESH SLURRY

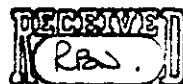
| | | | |
|------------------------------------|-------------------------------------|--------------------------|--------------------------|
| - DENSITY (2 TESTS PER DAY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - VISCOSITY (2 TESTS PER DAY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FILTRATE LOSS (3 TESTS PER WEEK) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - pH (3 TESTS PER WEEK) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

ALL ABOVE TESTS SHALL BE PERFORMED FOR THE SLURRY READY TO BE PLACED IN THE TRENCH.

SLURRY IN TRENCH

| | | | |
|--|-------------------------------------|--------------------------|--------------------------|
| - DENSITY OF THE SLURRY (2 TIMES PER DAY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - VISCOSITY OF THE SLURRY (2 TIMES PER DAY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

JUL 14 1992



PLACEMENT OF SOIL BENTONITE CUTOFF WALL
(cont'd)

FORM A-2
SHEET 2 OF 2
INSPECTION DATE 7-13-92

| | ACCEPT | REJECT | N/A |
|---|-------------|-------------|-------------|
| <u>BACKFILL</u> | | | |
| - SLUMP TEST (EVERY 500 CY) | <u>✓</u> | <u> </u> | <u>✓</u> |
| - DENSITY (EVERY 500 CY) | <u> </u> | <u> </u> | <u>✓</u> |
| - PERMEABILITY (SHELBY) (EVERY 1000 CY) | <u> </u> | <u> </u> | <u>✓</u> |
| - SIEVE ANALYSIS (EVERY 500 CY) | <u> </u> | <u> </u> | <u>✓</u> |
| - SLOPE | <u>✓</u> | <u> </u> | <u> </u> |
| - DISTANCE | <u>✓</u> | <u> </u> | <u> </u> |
| - CLAY CLOD SIZE | <u>✓</u> | <u> </u> | <u> </u> |
| - AGGREGATE SIZE | <u>✓</u> | <u> </u> | <u> </u> |
| <u>KEY IN THE CLAY</u> | | | |
| - DEPTH TO CLAY (EVERY 20 FEET) | <u>✓</u> | <u> </u> | <u> </u> |
| - SAMPLE OF CLAY FOR RECORD (EVERY 100 FEET OF WALL LENGTH) | <u>✓</u> | <u> </u> | <u> </u> |
| - ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH) | <u> </u> | <u> </u> | <u> </u> |
| <u>TRENCH</u> | | | |
| - VERTICALITY (EVERY 100 FEET) | <u>✓</u> | <u> </u> | <u> </u> |
| <u>TRAFFIC CAP</u> | | | |
| - THICKNESS OF CAP (EVERY 300 FEET) | <u>✓</u> | <u> </u> | <u> </u> |
| - MOISTURE CONTENT (EVERY 250 CY) | <u>✓</u> | <u> </u> | <u> </u> |
| - IN-PLACE DENSITY (EVERY 250 CY) | <u>✓</u> | <u> </u> | <u> </u> |
| - PERMEABILITY (EVERY 500 CY) | <u> </u> | <u> </u> | <u>✓</u> |
| 3. DUST CONTROL <u>ACCEPTABLE</u> | | | |
| 4. LOCATION <u>1+00 → 0+00</u> | | | |
| 5. REMARKS <u>None</u> | | | |

INSPECTOR

Chris Bailey

DATE 7-13-92

REVIEWED BY

Ryan N. [Signature]

DATE 14/July/92

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2
SHEET 1 OF 2
INSPECTION DATE 7-14-92

| | ACCEPT | REJECT | N/A |
|---|---|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. QC AND VERIFICATION TESTINGS | | | |
| <u>FRESH SLURRY</u> | | | |
| - DENSITY (2 TESTS PER DAY) | (2) <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - VISCOSITY (2 TESTS PER DAY) | (1) <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FILTRATE LOSS (3 TESTS PER WEEK) | (1) <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - pH (3 TESTS PER WEEK) | (1) <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| ALL ABOVE TESTS SHALL BE PERFORMED FOR THE SLURRY READY TO BE PLACED IN THE TRENCH. | | | |
| <u>SLURRY IN TRENCH</u> | | | |
| - DENSITY OF THE SLURRY (2 TIMES PER DAY). | (2) <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - VISCOSITY OF THE SLURRY (2 TIMES PER DAY). | (2) <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

PLACEMENT OF SOIL BENTONITE CUTOFF WALL
Cont'd)

FORM A-2
SHEET 2 OF 2
INSPECTION DATE 7-14-92

ACCEPT REJECT N/A

BACKFILL

| | | | |
|---|---|--------------------------|-------------------------------------|
| - SLUMP TEST (EVERY 500 CY) | (1) <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - DENSITY (EVERY 500 CY) | (1) <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - PERMEABILITY (SHELBY) (EVERY 1000 CY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - SIEVE ANALYSIS (EVERY 500 CY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SLOPE | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - DISTANCE | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - CLAY CLOD SIZE | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - AGGREGATE SIZE | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

KEY IN THE CLAY

| | | | |
|---|-------------------------------------|--------------------------|--------------------------|
| - DEPTH TO CLAY (EVERY 20 FEET) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SAMPLE OF CLAY FOR RECORD (EVERY 100 FEET OF WALL LENGTH) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

TRENCH

| | | | |
|--------------------------------|-------------------------------------|--------------------------|--------------------------|
| - VERTICALITY (EVERY 100 FEET) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|--------------------------------|-------------------------------------|--------------------------|--------------------------|

TRAFFIC CAP (SLURRY WALL PUGH)

| | | | |
|-------------------------------------|--------------------------|--------------------------|-------------------------------------|
| - THICKNESS OF CAP (EVERY 300 FEET) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - MOISTURE CONTENT (EVERY 250 CY) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - IN-PLACE DENSITY (EVERY 250 CY) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - PERMEABILITY (EVERY 500 CY) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

3. DUST CONTROL ACCEPTABLE
4. LOCATION 0+00 → 27+80
5. REMARKS THE CUT FROM 27+80 → 27+60 WAS NOT COMPLETED.

INSPECTOR Friedrich J. Mastella / Chris Baly DATE 7-14-92

REVIEWED BY Ryan N... DATE 15 July 1992

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2
SHEET 1 OF 2
INSPECTION DATE 7-15-92

| | ACCEPT | REJECT | N/A |
|---|---|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. QC AND VERIFICATION TESTINGS | | | |
| <u>FRESH SLURRY</u> | | | |
| - DENSITY (2 TESTS PER DAY) | (2) <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - VISCOSITY (2 TESTS PER DAY) | (2) <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FILTRATE LOSS (3 TESTS PER WEEK) | (1) <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - pH (3 TESTS PER WEEK) | (3) <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| ALL ABOVE TESTS SHALL BE PERFORMED FOR THE SLURRY READY TO BE PLACED IN THE TRENCH. | | | |
| <u>SLURRY IN TRENCH</u> | | | |
| - DENSITY OF THE SLURRY (2 TIMES PER DAY). | (1) <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - VISCOSITY OF THE SLURRY (2 TIMES PER DAY). | (2) <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

JUL 15 1992
RECEIVED
RBD

PLACEMENT OF SOIL BENTONITE CUTOFF WALL
(cont'd)

FORM A-2
SHEET 2 OF 2
INSPECTION DATE 7-15-92

ACCEPT REJECT N/A

BACKFILL

- SLUMP TEST (EVERY 500 CY)
- DENSITY (EVERY 500 CY)
- PERMEABILITY (SHELBY) (EVERY 1000 CY)
- SIEVE ANALYSIS (EVERY 500 CY)

✓ ✓ RESULTS PENDING

- SLOPE
- DISTANCE
- CLAY CLOD SIZE
- AGGREGATE SIZE

✓ ✓ ✓

KEY IN THE CLAY

- DEPTH TO CLAY (EVERY 20 FEET)
- SAMPLE OF CLAY FOR RECORD (EVERY 100 FEET OF WALL LENGTH)
- ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH)

✓ ✓ RESULTS PENDING

TRENCH

- VERTICALITY (EVERY 100 FEET)

✓

TRAFFIC CAP

- THICKNESS OF CAP (EVERY 300 FEET)
- MOISTURE CONTENT (EVERY 250 CY)
- IN-PLACE DENSITY (EVERY 250 CY)
- PERMEABILITY (EVERY 500 CY)

✓ ✓ ✓

3. DUST CONTROL NONE REQUIRED
4. LOCATION _____
5. REMARKS SAMPLE OF KEY TAKEN AT STA 22+00 FOR
ATTERBERG LIMITS, ALSO TOOK SHELBY TUBES FOR PERMEABILITY
AT STA 2+60

INSPECTOR

Frederick J. Martel / Chris B. Bly

DATE 7-15-92

REVIEWED BY

Ry. Hill

DATE 6/24/92

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2

SHEET 1 OF 2

INSPECTION DATE 7-16-92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. QC AND VERIFICATION TESTINGS | | | |
| <u>FRESH SLURRY</u> | | | |
| - DENSITY (2 TESTS PER DAY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - VISCOSITY (2 TESTS PER DAY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FILTRATE LOSS (3 TESTS PER WEEK) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - pH (3 TESTS PER WEEK) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| ALL ABOVE TESTS SHALL BE PERFORMED FOR THE SLURRY READY TO BE PLACED IN THE TRENCH. | | | |
| <u>SLURRY IN TRENCH</u> | | | |
| - DENSITY OF THE SLURRY (2 TIMES PER DAY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - VISCOSITY OF THE SLURRY (2 TIMES PER DAY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

DEC 17 1992
RECEIVED
AS

PLACEMENT OF SOIL BENTONITE CUTOFF WALL
(cont'd)

FORM A-2
SHEET 2 OF 2
INSPECTION DATE 7-16-92

ACCEPT REJECT N/A

BACKFILL

- SLUMP TEST (EVERY 500 CY)
- DENSITY (EVERY 500 CY)
- PERMEABILITY (SHELBY) (EVERY 1000 CY)
- SIEVE ANALYSIS (EVERY 500 CY)
- SLOPE
- DISTANCE
- CLAY CLOD SIZE
- AGGREGATE SIZE

| | | |
|---|--|---|
| ✓ | | |
| ✓ | | ✓ |
| ✓ | | |
| ✓ | | |
| ✓ | | |
| ✓ | | |
| ✓ | | |
| ✓ | | |

KEY IN THE CLAY

- DEPTH TO CLAY (EVERY 20 FEET)
- SAMPLE OF CLAY FOR RECORD (EVERY 100 FEET OF WALL LENGTH)
- ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH)

| | | |
|---------|---------|--|
| ✓ | | |
| ✓ | | |
| RESULTS | PENDING | |

TRENCH

- VERTICALITY (EVERY 100 FEET)

| | | |
|---|--|--|
| ✓ | | |
|---|--|--|

TRAFFIC CAP (CLAY PLUG)

- THICKNESS OF CAP (EVERY 300 FEET)
- MOISTURE CONTENT (EVERY 250 CY)
- IN-PLACE DENSITY (EVERY 250 CY)
- PERMEABILITY (EVERY 500 CY)

| | | |
|--|--|---|
| | | ✓ |
| | | ✓ |
| | | ✓ |
| | | ✓ |

3. DUST CONTROL NONE REQUIRED
4. LOCATION STA. 26+40 → 24+80
5. REMARKS CLAY KEY SAMPLES WERE TAKEN AT 26+00 + 25+00

INSPECTOR Frederick J. Mastaglio / Chris Bailey DATE 7-16-92


REVIEWED BY Colin R. Larson DATE 7/17/92

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2
SHEET 1 OF 2
INSPECTION DATE 7-17-92

| | ACCEPT | REJECT | N/A |
|---|---------------|---------------|---------------|
| 1. MATERIAL | | | |
| - BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <u>✓</u> | <u> </u> | <u> </u> |
| - ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <u> </u> | <u> </u> | <u>✓</u> |
| - WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR. | <u>✓</u> | <u> </u> | <u> </u> |
| - SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <u>✓</u> | <u> </u> | <u> </u> |
| 2. QC AND VERIFICATION TESTINGS | | | |
| <u>FRESH SLURRY</u> | | | |
| - DENSITY (2 TESTS PER DAY) | (1) <u>✓</u> | <u> </u> | <u> </u> |
| - VISCOSITY (2 TESTS PER DAY) | (1) <u>✓</u> | <u> </u> | <u> </u> |
| - FILTRATE LOSS (3 TESTS PER WEEK) | <u>✓</u> | <u> </u> | <u> </u> |
| - pH (3 TESTS PER WEEK) | <u>✓</u> | <u> </u> | <u> </u> |
| ALL ABOVE TESTS SHALL BE PERFORMED FOR THE SLURRY READY TO BE PLACED IN THE TRENCH. | | | |
| <u>SLURRY IN TRENCH</u> | | | |
| - DENSITY OF THE SLURRY (2 TIMES PER DAY). | <u>✓</u> | <u> </u> | <u> </u> |
| - VISCOSITY OF THE SLURRY (2 TIMES PER DAY). | <u>✓</u> | <u> </u> | <u> </u> |

JUL 20 1992



PLACEMENT OF SOIL BENTONITE CUTOFF WALL
(cont'd)

FORM A-2
SHEET 2 OF 2
INSPECTION DATE 7-17-92

ACCEPT REJECT N/A

BACKFILL

- SLUMP TEST (EVERY 500 CY)
- DENSITY (EVERY 500 CY)
- PERMEABILITY (SHELBY) (EVERY 1000 CY)
- SIEVE ANALYSIS (EVERY 500 CY)

✓ ✓ ONE IN PROGRESS ✓

- SLOPE
- DISTANCE
- CLAY CLOD SIZE
- AGGREGATE SIZE

✓ ✓ ✓ ✓

KEY IN THE CLAY

- DEPTH TO CLAY (EVERY 20 FEET)
- SAMPLE OF CLAY FOR RECORD (EVERY 100 FEET OF WALL LENGTH)
- ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH)

✓ ✓ ✓

TRENCH

- VERTICALITY (EVERY 100 FEET)

✓ ✓ ✓

TRAFFIC CAP

- THICKNESS OF CAP (EVERY 300 FEET)
- MOISTURE CONTENT (EVERY 250 CY)
- IN-PLACE DENSITY (EVERY 250 CY)
- PERMEABILITY (EVERY 500 CY)

✓ ✓ ✓ ✓

3. DUST CONTROL NONE REQUIRED
4. LOCATION 24+80 → 23+60 120' DUG TODAY
5. REMARKS NONE

INSPECTOR

Frederick J. Martles / Chris Bailey

DATE 7-17-92

REVIEWED BY

Collins R. Saxon

DATE 7/20/92

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2
SHEET 1 OF 2
INSPECTION DATE 7-20-92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. QC AND VERIFICATION TESTINGS | | | |
| <u>FRESH SLURRY</u> | | | |
| - DENSITY (2 TESTS PER DAY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - VISCOSITY (2 TESTS PER DAY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FILTRATE LOSS (3 TESTS PER WEEK) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - pH (3 TESTS PER WEEK) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| ALL ABOVE TESTS SHALL BE PERFORMED FOR THE SLURRY READY TO BE PLACED IN THE TRENCH. | | | |
| <u>SLURRY IN TRENCH</u> | | | |
| - DENSITY OF THE SLURRY (2 TIMES PER DAY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - VISCOSITY OF THE SLURRY (2 TIMES PER DAY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |



PLACEMENT OF SOIL BENTONITE CUTOFF WALL
(cont'd)

FORM A-2
SHEET 2 OF 2
INSPECTION DATE 7-20-92

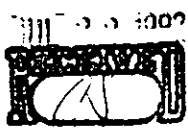
| | ACCEPT | REJECT | N/A |
|---|--|---------------|---------------|
| <u>BACKFILL</u> | | | |
| - SLUMP TEST (EVERY 500 CY) | <u>/</u> | <u> </u> | <u> </u> |
| - DENSITY (EVERY 500 CY) | <u>/</u> | <u> </u> | <u> </u> |
| - PERMEABILITY (SHELBY) (EVERY 1000 CY) | <u>/</u> | <u> </u> | <u> </u> |
| - SIEVE ANALYSIS (EVERY 500 CY) | <u>/</u> | <u> </u> | <u> </u> |
| - SLOPE | <u>/</u> | <u> </u> | <u> </u> |
| - DISTANCE | <u>/</u> | <u> </u> | <u> </u> |
| - CLAY CLOD SIZE | <u>/</u> | <u> </u> | <u> </u> |
| - AGGREGATE SIZE | <u>/</u> | <u> </u> | <u> </u> |
| <u>KEY IN THE CLAY</u> | | | |
| - DEPTH TO CLAY (EVERY 20 FEET) | <u>/</u> | <u> </u> | <u> </u> |
| - SAMPLE OF CLAY FOR RECORD (EVERY 100 FEET OF WALL LENGTH) | <u>/</u> | <u> </u> | <u> </u> |
| - ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH) | RESULTS PENDING | | |
| <u>TRENCH</u> | | | |
| - VERTICALITY (EVERY 100 FEET) | <u>/</u> | <u> </u> | <u> </u> |
| <u>TRAFFIC CAP</u> | | | |
| - THICKNESS OF CAP (EVERY 300 FEET) | <u> </u> | <u> </u> | <u>/</u> |
| - MOISTURE CONTENT (EVERY 250 CY) | <u> </u> | <u> </u> | <u>/</u> |
| - IN-PLACE DENSITY (EVERY 250 CY) | <u> </u> | <u> </u> | <u>/</u> |
| - PERMEABILITY (EVERY 500 CY) | <u> </u> | <u> </u> | <u>/</u> |
| 3. DUST CONTROL | <u>NONE REQUIRED</u> | | |
| 4. LOCATION | <u>STATION</u> | | |
| 5. REMARKS | <u>DUG 160' OF TRENCH TODAY. 913' TO DATE.</u> | | |

INSPECTOR Frederick J. Martello / Chris Bailey DATE 7-20-92
REVIEWED BY Collin P. Swann DATE 7/21/92

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2
SHEET 1 OF 2
INSPECTION DATE 7-21-92

| | ACCEPT | REJECT | N/A |
|---|---------------|---------------|---------------|
| 1. MATERIAL | | | |
| - BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <u>/</u> | <u> </u> | <u> </u> |
| - ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <u> </u> | <u> </u> | <u>/</u> |
| - WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR. | <u>/</u> | <u> </u> | <u> </u> |
| - SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <u>/</u> | <u> </u> | <u> </u> |
| 2. QC AND VERIFICATION TESTINGS | | | |
| <u>FRESH SLURRY</u> | | | |
| - DENSITY (2 TESTS PER DAY) | <u>/</u> | <u> </u> | <u> </u> |
| - VISCOSITY (2 TESTS PER DAY) | <u>/</u> | <u> </u> | <u> </u> |
| - FILTRATE LOSS (3 TESTS PER WEEK) | <u>/</u> | <u> </u> | <u> </u> |
| - pH (3 TESTS PER WEEK) | <u>/</u> | <u> </u> | <u> </u> |
| ALL ABOVE TESTS SHALL BE PERFORMED FOR THE SLURRY READY TO BE PLACED IN THE TRENCH. | | | |
| <u>SLURRY IN TRENCH</u> | | | |
| - DENSITY OF THE SLURRY (2 TIMES PER DAY). | <u>/</u> | <u> </u> | <u> </u> |
| - VISCOSITY OF THE SLURRY (2 TIMES PER DAY). | <u>/</u> | <u> </u> | <u> </u> |



PLACEMENT OF SOIL BENTONITE CUTOFF WALL
(cont'd)

FORM A-2
SHEET 2 OF 2
INSPECTION DATE 7-21-92

ACCEPT REJECT N/A

BACKFILL

- SLUMP TEST (EVERY 500 CY) /
- DENSITY (EVERY 500 CY) /
- PERMEABILITY (SHELBY) (EVERY 1000 CY) /
- SIEVE ANALYSIS (EVERY 500 CY) /

- SLOPE /
- DISTANCE /
- CLAY CLOD SIZE /
- AGGREGATE SIZE /

KEY IN THE CLAY

- DEPTH TO CLAY (EVERY 20 FEET) /
- SAMPLE OF CLAY FOR RECORD (EVERY 100 FEET OF WALL LENGTH) /
- ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH) /

RESULTS PENDING

TRENCH

- VERTICALITY (EVERY 100 FEET) /

TRAFFIC CAP

- THICKNESS OF CAP (EVERY 300 FEET) /
- MOISTURE CONTENT (EVERY 250 CY) /
- IN-PLACE DENSITY (EVERY 250 CY) /
- PERMEABILITY (EVERY 500 CY) /

3. DUST CONTROL NONE REQUIRED

4. LOCATION STATION 22+00 → 19+80

5. REMARKS _____

INSPECTOR

Frederick J. Mastitis

DATE 7-21-92

REVIEWED BY

Callin P. Sutton

DATE 7/24/92

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2

SHEET 1 OF 2

INSPECTION DATE 7-22-92

1. MATERIAL

ACCEPT

REJECT

N/A

- BENTONITE: MANUFACTURER'S QA
CERTIFICATE (ONE PER TRUCK
LOAD DELIVERY)
- ADDITIVES: MANUFACTURER'S QA
CERTIFICATE (ONE PER TRUCK
LOAD DELIVERY)
- WATER IS OBTAINED FROM THE SOURCE
ACCEPTED BY THE CONSTRUCTION MGR.
- SOIL IS OBTAINED FROM THE BORROW
AREA ACCEPTED BY THE CONSTRUCTION
MANAGER.

2. QC AND VERIFICATION TESTINGS

FRESH SLURRY

- DENSITY (2 TESTS PER DAY)
- VISCOSITY (2 TESTS PER DAY)
- FILTRATE LOSS (3 TESTS PER WEEK)
- pH (3 TESTS PER WEEK)

ALL ABOVE TESTS SHALL BE PERFORMED
FOR THE SLURRY READY TO BE PLACED
IN THE TRENCH.

SLURRY IN TRENCH

- DENSITY OF THE SLURRY
(2 TIMES PER DAY).
- VISCOSITY OF THE SLURRY
(2 TIMES PER DAY).

PLACEMENT OF SOIL BENTONITE CUTOFF WALL
(cont'd)

FORM A-2
SHEET 2 OF 2
INSPECTION DATE 7-22-92

ACCEPT REJECT N/A

BACKFILL

- SLUMP TEST (EVERY 500 CY)
- DENSITY (EVERY 500 CY)
- PERMEABILITY (SHELBY) (EVERY 1000 CY)
- SIEVE ANALYSIS (EVERY 500 CY)

| | | |
|-------------|--|--|
| ✓ | | |
| ✓ | | |
| IN PROGRESS | | |
| ✓ | | |

- SLOPE
- DISTANCE
- CLAY CLOD SIZE
- AGGREGATE SIZE

| | | |
|---|--|--|
| ✓ | | |
| ✓ | | |
| ✓ | | |
| ✓ | | |

KEY IN THE CLAY

- DEPTH TO CLAY (EVERY 20 FEET)
- SAMPLE OF CLAY FOR RECORD (EVERY 100 FEET OF WALL LENGTH)
- ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH)

| | | |
|-------------|--|--|
| ✓ | | |
| ✓ | | |
| IN PROGRESS | | |

TRENCH

- VERTICALITY (EVERY 100 FEET)

| | | |
|---|--|--|
| ✓ | | |
|---|--|--|

TRAFFIC CAP (PLUG)

- THICKNESS OF CAP (EVERY 300 FEET)
- MOISTURE CONTENT (EVERY 250 CY)
- IN-PLACE DENSITY (EVERY 250 CY)
- PERMEABILITY (EVERY 500 CY)

| | | |
|--|--|---|
| | | ✓ |
| | | ✓ |
| | | ✓ |
| | | ✓ |

3. DUST CONTROL NONE REQUIRED FOR SLURRY WALL
4. LOCATION STATION 19+80 → 18+00
5. REMARKS DENSITY OF SLURRY IN TRENCH WAS SLIGHTLY HIGH
AT STA'S 19+40 BUT ROGER NORTH SAID IT WAS OK.
(INCREASING DENSITY IN PREPARATION FOR WORK ALONG DIKE)

JUL 23 1992



INSPECTOR

Frederick J. Mastitis / Chris Bely

DATE 7-22-92

REVIEWED BY

Collin P. Schow

DATE 7/23/92

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2
SHEET 1 OF 2
INSPECTION DATE 7-23-92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. QC AND VERIFICATION TESTINGS | | | |
| <u>FRESH SLURRY</u> | | | |
| - DENSITY (2 TESTS PER DAY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - VISCOSITY (2 TESTS PER DAY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FILTRATE LOSS (3 TESTS PER WEEK) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - pH (3 TESTS PER WEEK) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| ALL ABOVE TESTS SHALL BE PERFORMED FOR THE SLURRY READY TO BE PLACED IN THE TRENCH. | | | |
| <u>SLURRY IN TRENCH</u> | | | |
| - DENSITY OF THE SLURRY (2 TIMES PER DAY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - VISCOSITY OF THE SLURRY (2 TIMES PER DAY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

JUL 24 1992
RECEIVED
RQ

PLACEMENT OF SOIL BENTONITE CUTOFF WALL
(cont'd)

FORM NO. 2
SHEET 2 OF 2
INSPECTION DATE 7-23-92

ACCEPT REJECT N/A

BACKFILL

- SLUMP TEST (EVERY 500 CY)
- DENSITY (EVERY 500 CY)
- PERMEABILITY (SHELBY) (EVERY 1000 CY)
- SIEVE ANALYSIS (EVERY 500 CY)

✓ IN PROGRESS _____

- SLOPE
- DISTANCE
- CLAY CLOD SIZE
- AGGREGATE SIZE

✓ _____ _____

KEY IN THE CLAY

- DEPTH TO CLAY (EVERY 20 FEET)
- SAMPLE OF CLAY FOR RECORD (EVERY 100 FEET OF WALL LENGTH)
- ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH)

✓ IN PROGRESS _____

TRENCH

- VERTICALITY (EVERY 100 FEET)

✓ _____ _____

TRAFFIC CAP

- THICKNESS OF CAP (EVERY 300 FEET)
- MOISTURE CONTENT (EVERY 250 CY)
- IN-PLACE DENSITY (EVERY 250 CY)
- PERMEABILITY (EVERY 500 CY)

_____ _____ _____

3. DUST CONTROL NONE REQUIRED
4. LOCATION Dug from Station 18+00 To 16+80
5. REMARKS PERMEABILITY TEST RESULTS RECEIVED FOR STATION 26+00

INSPECTOR Fredrick J. Wachtel / Chris Galy
REVIEWED BY Collins L. Schow


DATE 7-23-92
DATE 7/24/92

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2
SHEET 1 OF 2
INSPECTION DATE 7-24-92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. QC AND VERIFICATION TESTINGS | | | |
| <u>FRESH SLURRY</u> | | | |
| - DENSITY (2 TESTS PER DAY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - VISCOSITY (2 TESTS PER DAY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FILTRATE LOSS (3 TESTS PER WEEK) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - pH (3 TESTS PER WEEK) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| ALL ABOVE TESTS SHALL BE PERFORMED FOR THE SLURRY READY TO BE PLACED IN THE TRENCH. | | | |
| <u>SLURRY IN TRENCH</u> | | | |
| - DENSITY OF THE SLURRY (2 TIMES PER DAY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - VISCOSITY OF THE SLURRY (2 TIMES PER DAY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

JUL 27 1992



PLACEMENT OF SOIL BENTONITE CUTOFF WALL
(cont'd)

FORM A
SHEET 2 OF 2
INSPECTION DATE 7-24-92

ACCEPT REJECT N/A

BACKFILL

- SLUMP TEST (EVERY 500 CY)
- DENSITY (EVERY 500 CY)
- PERMEABILITY (SHELBY) (EVERY 1000 CY)
- SIEVE ANALYSIS (EVERY 500 CY)

✓ ✓ TESTS IN PROGRESS

- SLOPE
- DISTANCE
- CLAY CLOD SIZE
- AGGREGATE SIZE

✓ ✓ ✓

KEY IN THE CLAY

- DEPTH TO CLAY (EVERY 20 FEET)
- SAMPLE OF CLAY FOR RECORD (EVERY 100 FEET OF WALL LENGTH)
- ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH)

✓ ✓ TESTS IN PROGRESS

TRENCH

- VERTICALITY (EVERY 100 FEET)

✓

TRAFFIC CAP

- THICKNESS OF CAP (EVERY 300 FEET)
- MOISTURE CONTENT (EVERY 250 CY)
- IN-PLACE DENSITY (EVERY 250 CY)
- PERMEABILITY (EVERY 500 CY)

✓ ✓ ✓

3. DUST CONTROL NONE REQUIRED
4. LOCATION STATION 16+80 TO 15+40
5. REMARKS DUG 140' OF TRENCH / 1563' TO DATE. SIEVE ANALYSIS
AT STA 20+00 PASSED.

INSPECTOR

Frederick J. Warrick / Chris Biles

DATE 7-24-92

REVIEWED BY

Colin P. Sutton

DATE 7/27/92

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2
SHEET 1 OF 2
INSPECTION DATE 7-27-92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. QC AND VERIFICATION TESTINGS | | | |
| <u>FRESH SLURRY</u> | | | |
| - DENSITY (2 TESTS PER DAY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - VISCOSITY (2 TESTS PER DAY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FILTRATE LOSS (3 TESTS PER WEEK) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - pH (3 TESTS PER WEEK) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| ALL ABOVE TESTS SHALL BE PERFORMED FOR THE SLURRY READY TO BE PLACED IN THE TRENCH. | | | |
| <u>SLURRY IN TRENCH</u> | | | |
| - DENSITY OF THE SLURRY (2 TIMES PER DAY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - VISCOSITY OF THE SLURRY (2 TIMES PER DAY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

JUL 30 1992



PLACEMENT OF SOIL BENTONITE CUTOFF WALL
(cont'd)

SHEET 2 OF 2
INSPECTION DATE 7-27-92

ACCEPT REJECT N/A

BACKFILL

- SLUMP TEST (EVERY 500 CY)
- DENSITY (EVERY 500 CY)
- PERMEABILITY (SHELBY) (EVERY 1000 CY)
- SIEVE ANALYSIS (EVERY 500 CY)

✓
✓
IN PROGRESS
✓

- SLOPE
- DISTANCE
- CLAY CLOD SIZE
- AGGREGATE SIZE

✓
✓
✓
✓

KEY IN THE CLAY

- DEPTH TO CLAY (EVERY 20 FEET)
- SAMPLE OF CLAY FOR RECORD (EVERY 100 FEET OF WALL LENGTH)
- ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH)

✓
✓
IN PROGRESS

TRENCH

- VERTICALITY (EVERY 100 FEET)

✓

TRAFFIC CAP

- THICKNESS OF CAP (EVERY 300 FEET)
- MOISTURE CONTENT (EVERY 250 CY)
- IN-PLACE DENSITY (EVERY 250 CY)
- PERMEABILITY (EVERY 500 CY)

 ✓
 ✓
 ✓
 ✓

3. DUST CONTROL NONE REQUIRED
4. LOCATION STATION 15+40 TO 14+80 (60' DUG TODAY)
5. REMARKS HAD TO STOP DIGGING TRENCH TODAY UNTIL TRAFFIC CAP IS COMPLETED. PLAN TO RESUME MONDAY, 8-3-92. TRENCH WILL REMAIN AS IT IS UNTIL MONDAY W/ DENSITY OF TRENCH SLURRY CHECKED TODAY. BACKFILL WILL BE ADDED TO THE TRENCH IF THE SLURRY LEVEL DROPS SIGNIFICANTLY.

INSPECTOR

Frederick J. Martella / Chris Bally

DATE 7-27-92

REVIEWED BY

Colin P. Jackson

DATE 7/28/92

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2
SHEET 1 OF 2
INSPECTION DATE 7-29-92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. QC AND VERIFICATION TESTINGS | | | |
| <u>FRESH SLURRY</u> | | | |
| - DENSITY (2 TESTS PER DAY) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - VISCOSITY (2 TESTS PER DAY) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - FILTRATE LOSS (3 TESTS PER WEEK) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - pH (3 TESTS PER WEEK) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| ALL ABOVE TESTS SHALL BE PERFORMED FOR THE SLURRY READY TO BE PLACED IN THE TRENCH. | | | |
| <u>SLURRY IN TRENCH</u> | | | |
| - DENSITY OF THE SLURRY (2 TIMES PER DAY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - VISCOSITY OF THE SLURRY (2 TIMES PER DAY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

PLACEMENT OF SOIL BENTONITE CUTOFF WALL
(cont'd)

FORM 2
SHEET 2 OF 2
INSPECTION DATE 7-29-92

ACCEPT REJECT N/A

BACKFILL

- SLUMP TEST (EVERY 500 CY) ✓
- DENSITY (EVERY 500 CY) ✓
- PERMEABILITY (SHELBY) (EVERY 1000 CY) IN PROGRESS
- SIEVE ANALYSIS (EVERY 500 CY) ✓

- SLOPE ✓
- DISTANCE ✓
- CLAY CLOD SIZE ✓
- AGGREGATE SIZE ✓

KEY IN THE CLAY

- DEPTH TO CLAY (EVERY 20 FEET) ✓
- SAMPLE OF CLAY FOR RECORD (EVERY 100 FEET OF WALL LENGTH) ✓
- ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH) ✓

TRENCH

- VERTICALITY (EVERY 100 FEET) ✓

TRAFFIC CAP

- THICKNESS OF CAP (EVERY 300 FEET) ✓
- MOISTURE CONTENT (EVERY 250 CY) ✓
- IN-PLACE DENSITY (EVERY 250 CY) ✓
- PERMEABILITY (EVERY 500 CY) ✓

3. DUST CONTROL NONE REQUIRED

4. LOCATION NA

5. REMARKS BACKFILLED TRENCH UP TO REQUESTED MAXIMUM DEPTH AS

REQUESTED BY ALCO/GEOSYNTEC. (DEPTH @ TOE OF
BACKFILL SLOPE = 20'.)

JUL 29 1992



INSPECTOR

Chris Bailey

DATE 7-29

REVIEWED BY

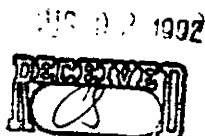
Colleen P. Johnson

DATE 7-29-92

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2
SHEET 1 OF 2
INSPECTION DATE 7-30-92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. QC AND VERIFICATION TESTINGS | | | |
| <u>FRESH SLURRY</u> | | | |
| - DENSITY (2 TESTS PER DAY) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - VISCOSITY (2 TESTS PER DAY) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - FILTRATE LOSS (3 TESTS PER WEEK) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - pH (3 TESTS PER WEEK) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| ALL ABOVE TESTS SHALL BE PERFORMED FOR THE SLURRY READY TO BE PLACED IN THE TRENCH. | | | |
| <u>SLURRY IN TRENCH</u> | | | |
| - DENSITY OF THE SLURRY (2 TIMES PER DAY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - VISCOSITY OF THE SLURRY (2 TIMES PER DAY). | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |



PLACEMENT OF SOIL BENTONITE CUTOFF WALL
(cont'd)

FORM NO. 2 OF 2
SHEET 2 OF 2
INSPECTION DATE 7-30-92

ACCEPT REJECT N/A

BACKFILL

- SLUMP TEST (EVERY 500 CY)
- DENSITY (EVERY 500 CY)
- PERMEABILITY (SHELBY) (EVERY 1000 CY)
- SIEVE ANALYSIS (EVERY 500 CY)

IN PROGRESS

- SLOPE
- DISTANCE
- CLAY CLOD SIZE
- AGGREGATE SIZE

KEY IN THE CLAY

- DEPTH TO CLAY (EVERY 20 FEET)
- SAMPLE OF CLAY FOR RECORD (EVERY 100 FEET OF WALL LENGTH)
- ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH)

IN PROGRESS

TRENCH

- VERTICALITY (EVERY 100 FEET)

TRAFFIC CAP

- THICKNESS OF CAP (EVERY 300 FEET)
- MOISTURE CONTENT (EVERY 250 CY)
- IN-PLACE DENSITY (EVERY 250 CY)
- PERMEABILITY (EVERY 500 CY)

3. DUST CONTROL NONE REQUIRED

4. LOCATION N/A

5. REMARKS UNTIL EXCAVATION CONTINUES ONLY SLURRY DENSITY (IN THE TRENCH) IS BEING PERFORMED. TRENCH WAS PREPARED TO MINIMIZE THE EFFECT OF A HEAVY RAIN.

INSPECTOR Frederick J. Martini / Chris Burt

DATE 7-30-92

REVIEWED BY Colin L. Lohr

DATE 8/3/92

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2
SHEET 1 OF 2
INSPECTION DATE 8-4-92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. QC AND VERIFICATION TESTINGS | | | |
| <u>FRESH SLURRY</u> | | | |
| - DENSITY (2 TESTS PER DAY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - VISCOSITY (2 TESTS PER DAY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FILTRATE LOSS (3 TESTS PER WEEK) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - pH (3 TESTS PER WEEK) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| ALL ABOVE TESTS SHALL BE PERFORMED FOR THE SLURRY READY TO BE PLACED IN THE TRENCH. | | | |
| <u>SLURRY IN TRENCH</u> | | | |
| - DENSITY OF THE SLURRY (2 TIMES PER DAY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - VISCOSITY OF THE SLURRY (2 TIMES PER DAY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

- 05 08
AUG 11 1992
RECEIVED

PLACEMENT OF SOIL BENTONITE CUTOFF WALL
(cont'd)

FORM 11 -
SHEET 2 OF 2
INSPECTION DATE 8-4-92

ACCEPT REJECT N/A

BACKFILL

- SLUMP TEST (EVERY 500 CY)
- DENSITY (EVERY 500 CY)
- PERMEABILITY (SHELBY) (EVERY 1000 CY)
- SIEVE ANALYSIS (EVERY 500 CY)

IN PROGRESS

- SLOPE
- DISTANCE
- CLAY CLOD SIZE
- AGGREGATE SIZE

KEY IN THE CLAY

- DEPTH TO CLAY (EVERY 20 FEET)
- SAMPLE OF CLAY FOR RECORD (EVERY 100 FEET OF WALL LENGTH)
- ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH)

IN PROGRESS

TRENCH

- VERTICALITY (EVERY 100 FEET)

TRAFFIC CAP

- THICKNESS OF CAP (EVERY 300 FEET)
- MOISTURE CONTENT (EVERY 250 CY)
- IN-PLACE DENSITY (EVERY 250 CY)
- PERMEABILITY (EVERY 500 CY)

3. DUST CONTROL NONE REQUIRED
4. LOCATION STATION 14+80 TO 13+60
5. REMARKS DUG 120' OF TRENCH TODAY - RESUMED SLURRY WALL EXCAVATION TODAY AFTER 1 WEEK SUSPENSION

INSPECTOR

Frederick J. Martini / Chris Bally

DATE 8-4-92

REVIEWED BY

Collin P. Sutton

DATE 8-5-92

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2
SHEET 1 OF 2
INSPECTION DATE 8-5-92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. QC AND VERIFICATION TESTINGS | | | |
| <u>FRESH SLURRY</u> | | | |
| - DENSITY (2 TESTS PER DAY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - VISCOSITY (2 TESTS PER DAY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FILTRATE LOSS (3 TESTS PER WEEK) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - pH (3 TESTS PER WEEK) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| ALL ABOVE TESTS SHALL BE PERFORMED FOR THE SLURRY READY TO BE PLACED IN THE TRENCH. | | | |
| <u>SLURRY IN TRENCH</u> | | | |
| - DENSITY OF THE SLURRY (2 TIMES PER DAY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - VISCOSITY OF THE SLURRY (2 TIMES PER DAY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

846 1 1992



PLACEMENT OF SOIL BENTONITE CUTOFF WALL
(cont'd)

SHEET 2 OF 2
INSPECTION DATE 5 AUG 92

ACCEPT REJECT N/A

BACKFILL

- SLUMP TEST (EVERY 500 CY)
- DENSITY (EVERY 500 CY)
- PERMEABILITY (SHELBY) (EVERY 1000 CY)
- SIEVE ANALYSIS (EVERY 500 CY)

✓ ✓ IN PROGRESS ✓

- SLOPE
- DISTANCE
- CLAY CLOD SIZE
- AGGREGATE SIZE

✓ ✓ ✓ ✓

KEY IN THE CLAY

- DEPTH TO CLAY (EVERY 20 FEET)
- SAMPLE OF CLAY FOR RECORD (EVERY 100 FEET OF WALL LENGTH)
- ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH)

✓ ✓ IN PROGRESS

TRENCH

- VERTICALITY (EVERY 100 FEET)

✓

TRAFFIC CAP

- THICKNESS OF CAP (EVERY 300 FEET)
- MOISTURE CONTENT (EVERY 250 CY)
- IN-PLACE DENSITY (EVERY 250 CY)
- PERMEABILITY (EVERY 500 CY)

✓ ✓ ✓ ✓

3. DUST CONTROL NONE REQUIRED
4. LOCATION 13+60 TO 12+00
5. REMARKS DUG 160' OF TRENCH TODAY / 1903' TO DATE

INSPECTOR Frederick J. Mastella / Chris Baily
REVIEWED BY Colin P. Schwan


DATE 8-5-92

DATE 8-6-92

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2
SHEET 1 OF 2
INSPECTION DATE 8-6-92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. QC AND VERIFICATION TESTINGS | | | |
| <u>FRESH SLURRY</u> | | | |
| - DENSITY (2 TESTS PER DAY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - VISCOSITY (2 TESTS PER DAY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FILTRATE LOSS (3 TESTS PER WEEK) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - pH (3 TESTS PER WEEK) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| ALL ABOVE TESTS SHALL BE PERFORMED FOR THE SLURRY READY TO BE PLACED IN THE TRENCH. | | | |
| <u>SLURRY IN TRENCH</u> | | | |
| - DENSITY OF THE SLURRY (2 TIMES PER DAY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - VISCOSITY OF THE SLURRY (2 TIMES PER DAY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |



PLACEMENT OF SOIL BENTONITE CUTOFF WALL
(cont'd)

FORM NO. 2 OF 2
SHEET 2 OF 2
INSPECTION DATE 8-6-92

ACCEPT REJECT N/A

BACKFILL

- SLUMP TEST (EVERY 500 CY)
- DENSITY (EVERY 500 CY)
- PERMEABILITY (SHELBY) (EVERY 1000 CY)
- SIEVE ANALYSIS (EVERY 500 CY)

✓
✓
IN PROGRESS
✓ ATTACHED

- SLOPE
- DISTANCE
- CLAY CLOD SIZE
- AGGREGATE SIZE

✓
✓
✓
✓

KEY IN THE CLAY

- DEPTH TO CLAY (EVERY 20 FEET)
- SAMPLE OF CLAY FOR RECORD (EVERY 100 FEET OF WALL LENGTH)
- ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH)

✓
✓
IN PROGRESS

TRENCH

- VERTICALITY (EVERY 100 FEET)

✓

TRAFFIC CAP

- THICKNESS OF CAP (EVERY 300 FEET)
- MOISTURE CONTENT (EVERY 250 CY)
- IN-PLACE DENSITY (EVERY 250 CY)
- PERMEABILITY (EVERY 500 CY)

✓
✓
✓
✓

3. DUST CONTROL NONE REQUIRED
4. LOCATION STA 12+00 TO 10+00
5. REMARKS RECEIVED PERMEABILITY RESULTS FOR STATIONS 23+00 AND 20+00, ATTACHED. DUG 200' OF TRENCH TODAY / 2103' TO DATE

INSPECTOR Frederick J. Martello / Chris Binkley

DATE 8-6-92

REVIEWED BY Colin P. Larson

DATE 8-7-92

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2
SHEET 1 OF 2
INSPECTION DATE 8-7-92

1. MATERIAL

- BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY)
- ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY)
- WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR.
- SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.

ACCEPT REJECT N/A

| | | |
|---|--|---|
| ✓ | | |
| | | ✓ |
| ✓ | | |
| ✓ | | |

2. QC AND VERIFICATION TESTINGS

FRESH SLURRY

- DENSITY (2 TESTS PER DAY)
- VISCOSITY (2 TESTS PER DAY)
- FILTRATE LOSS (3 TESTS PER WEEK)
- pH (3 TESTS PER WEEK)

| | | |
|---|--|--|
| ✓ | | |
| ✓ | | |
| ✓ | | |
| ✓ | | |

ALL ABOVE TESTS SHALL BE PERFORMED FOR THE SLURRY READY TO BE PLACED IN THE TRENCH.

SLURRY IN TRENCH

- DENSITY OF THE SLURRY (2 TIMES PER DAY).
- VISCOSITY OF THE SLURRY (2 TIMES PER DAY).

| | | |
|---|--|--|
| ✓ | | |
| ✓ | | |

AUG 8 1992



PLACEMENT OF SOIL BENTONITE CUTOFF WALL
(cont'd)

SHEET 2 OF 2
INSPECTION DATE 8-7-92

ACCEPT REJECT N/A

BACKFILL

- SLUMP TEST (EVERY 500 CY)
- DENSITY (EVERY 500 CY)
- PERMEABILITY (SHELBY) (EVERY 1000 CY)
- SIEVE ANALYSIS (EVERY 500 CY)

/ / /
/ / /
/ / /
/ / /

IN PROGRESS

- SLOPE
- DISTANCE
- CLAY CLOD SIZE
- AGGREGATE SIZE

/ / /
/ / /
/ / /
/ / /

KEY IN THE CLAY

- DEPTH TO CLAY (EVERY 20 FEET)
- SAMPLE OF CLAY FOR RECORD (EVERY 100 FEET OF WALL LENGTH)
- ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH)

/ / /
/ / /
/ / /

IN PROGRESS

TRENCH

- VERTICALITY (EVERY 100 FEET)

/ / /

TRAFFIC CAP

- THICKNESS OF CAP (EVERY 300 FEET)
- MOISTURE CONTENT (EVERY 250 CY)
- IN-PLACE DENSITY (EVERY 250 CY)
- PERMEABILITY (EVERY 500 CY)

/ / /
/ / /
/ / /
/ / /

3. DUST CONTROL NONE REQUIRED
4. LOCATION STATION 10+00 TO 8+00
5. REMARKS _____

INSPECTOR Chris Bialy DATE 8-7-92

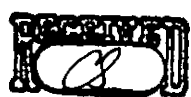
REVIEWED BY Collin P. Scherer DATE 8-8-92

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2
SHEET 1 OF 2
INSPECTION DATE 8-8-92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. QC AND VERIFICATION TESTINGS | | | |
| <u>FRESH SLURRY</u> | | | |
| - DENSITY (2 TESTS PER DAY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - VISCOSITY (2 TESTS PER DAY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FILTRATE LOSS (3 TESTS PER WEEK) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - pH (3 TESTS PER WEEK) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| ALL ABOVE TESTS SHALL BE PERFORMED FOR THE SLURRY READY TO BE PLACED IN THE TRENCH. | | | |
| <u>SLURRY IN TRENCH</u> | | | |
| - DENSITY OF THE SLURRY (2 TIMES PER DAY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - VISCOSITY OF THE SLURRY (2 TIMES PER DAY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

AUG 01 1992



AUG 10 1992

PLACEMENT OF SOIL BENTONITE CUTOFF WALL
(cont'd)

FORM 2
SHEET 2 OF 2
INSPECTION DATE 8-8-92

ACCEPT REJECT N/A

BACKFILL

- SLUMP TEST (EVERY 500 CY)
- DENSITY (EVERY 500 CY)
- PERMEABILITY (SHELBY) (EVERY 1000 CY)
- SIEVE ANALYSIS (EVERY 500 CY)

✓ _____ _____
✓ _____ _____
IN PROGRESS _____ _____
IN PROGRESS _____ _____

- SLOPE
- DISTANCE
- CLAY CLOD SIZE
- AGGREGATE SIZE

✓ _____ _____
✓ _____ _____
✓ _____ _____
✓ _____ _____

KEY IN THE CLAY

- DEPTH TO CLAY (EVERY 20 FEET)
- SAMPLE OF CLAY FOR RECORD (EVERY 100 FEET OF WALL LENGTH)
- ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH)

✓ _____ _____
✓ _____ _____
IN PROGRESS _____ _____

TRENCH

- VERTICALITY (EVERY 100 FEET)

✓ _____ _____

TRAFFIC CAP

- THICKNESS OF CAP (EVERY 300 FEET)
- MOISTURE CONTENT (EVERY 250 CY)
- IN-PLACE DENSITY (EVERY 250 CY)
- PERMEABILITY (EVERY 500 CY)

_____ _____ ✓
_____ _____ ✓
_____ _____ ✓
_____ _____ ✓

3. DUST CONTROL NONE REQUIRED
4. LOCATION STA. 8+00 → 6+00
5. REMARKS NONE

INSPECTOR

Chris Barty

DATE 8/8/92

REVIEWED BY

Collins P. Lehoucq

DATE 8/10/92

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2

SHEET 1 OF 2

INSPECTION DATE 8-10-92

1. MATERIAL

- BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY)
- ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY)
- WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR.
- SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.

ACCEPT REJECT N/A

2. QC AND VERIFICATION TESTINGS

FRESH SLURRY

- DENSITY (2 TESTS PER DAY)
- VISCOSITY (2 TESTS PER DAY)
- FILTRATE LOSS (3 TESTS PER WEEK)
- pH (3 TESTS PER WEEK)

ALL ABOVE TESTS SHALL BE PERFORMED FOR THE SLURRY READY TO BE PLACED IN THE TRENCH.

SLURRY IN TRENCH

- DENSITY OF THE SLURRY (2 TIMES PER DAY).
- VISCOSITY OF THE SLURRY (2 TIMES PER DAY).

AUG 11 1992



PLACEMENT OF SOIL BENTONITE CUTOFF WALL
(cont'd)

SHEET 2 OF 2
INSPECTION DATE 8-10-92

ACCEPT REJECT N/A

BACKFILL

- SLUMP TEST (EVERY 500 CY)
- DENSITY (EVERY 500 CY)
- PERMEABILITY (SHELBY) (EVERY 1000 CY)
- SIEVE ANALYSIS (EVERY 500 CY)

/ IN PROGRESS
/
/
/

- SLOPE
- DISTANCE
- CLAY CLOD SIZE
- AGGREGATE SIZE

/
/
/
/

KEY IN THE CLAY

- DEPTH TO CLAY (EVERY 20 FEET)
- SAMPLE OF CLAY FOR RECORD (EVERY 100 FEET OF WALL LENGTH)
- ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH)

/
/
IN PROGRESS

TRENCH

- VERTICALITY (EVERY 100 FEET)

/

TRAFFIC CAP

- THICKNESS OF CAP (EVERY 300 FEET)
- MOISTURE CONTENT (EVERY 250 CY)
- IN-PLACE DENSITY (EVERY 250 CY)
- PERMEABILITY (EVERY 500 CY)

 /
 /
 /
 /

3. DUST CONTROL NONE REQUIRED
4. LOCATION STATION 6+00 TO 5+30
5. REMARKS ENDED TRENCH AT 5+30. DUG 70' TODAY / 2583' TO DATE.

INSPECTOR

Fredrick J. Mastitis / Chris Bailey

DATE 8-10-92

REVIEWED BY

Collin P. Johnson

DATE 8-11-92

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2
SHEET 1 OF 1
INSPECTION DATE 8-26-92

| | ACCEPT | REJECT | N/A |
|---|--------|--------|-----|
| 1. MATERIAL | | | |
| - BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | _____ | _____ | ✓ |
| - ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | _____ | _____ | ✓ |
| - WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR. | _____ | _____ | ✓ |
| - SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | _____ | _____ | ✓ |
| 2. QC AND VERIFICATION TESTINGS | | | |
| <u>FRESH SLURRY</u> | | | |
| - DENSITY (2 TESTS PER DAY) | _____ | _____ | ✓ |
| - VISCOSITY (2 TESTS PER DAY) | _____ | _____ | ✓ |
| - FILTRATE LOSS (3 TESTS PER WEEK) | _____ | _____ | ✓ |
| - pH (3 TESTS PER WEEK) | _____ | _____ | ✓ |
| ALL ABOVE TESTS SHALL BE PERFORMED FOR THE SLURRY READY TO BE PLACED IN THE TRENCH. | | | |
| <u>SLURRY IN TRENCH</u> | | | |
| - DENSITY OF THE SLURRY (2 TIMES PER DAY). | _____ | _____ | ✓ |
| - VISCOSITY OF THE SLURRY (2 TIMES PER DAY). | _____ | _____ | ✓ |

AUG 27 1992

RECEIVED

PLACEMENT OF SOIL BENTONITE CUTOFF WALL
(cont'd)

FORM NO. 2
SHEET 2 OF 2
INSPECTION DATE 8-26-92

ACCEPT REJECT N/A

BACKFILL

- SLUMP TEST (EVERY 500 CY)
- DENSITY (EVERY 500 CY)
- PERMEABILITY (SHELBY) (EVERY 1000 CY)
- SIEVE ANALYSIS (EVERY 500 CY)
- SLOPE
- DISTANCE
- CLAY CLOD SIZE
- AGGREGATE SIZE

| ACCEPT | REJECT | N/A |
|--------|--------|-----------|
| _____ | _____ | ____/____ |
| _____ | _____ | ____/____ |
| _____ | _____ | ____/____ |
| _____ | _____ | ____/____ |
| _____ | _____ | ____/____ |
| _____ | _____ | ____/____ |
| _____ | _____ | ____/____ |
| _____ | _____ | ____/____ |

KEY IN THE CLAY

- DEPTH TO CLAY (EVERY 20 FEET)
- SAMPLE OF CLAY FOR RECORD (EVERY 100 FEET OF WALL LENGTH)
- ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH)

| ACCEPT | REJECT | N/A |
|--------|--------|-----------|
| _____ | _____ | ____/____ |
| _____ | _____ | ____/____ |

TRENCH

- VERTICALITY (EVERY 100 FEET)

| ACCEPT | REJECT | N/A |
|--------|--------|-----------|
| _____ | _____ | ____/____ |

TRAFFIC CAP

- THICKNESS OF CAP (EVERY 300 FEET)
- MOISTURE CONTENT (EVERY 250 CY)
- IN-PLACE DENSITY (EVERY 250 CY)
- PERMEABILITY (EVERY 500 CY)

| ACCEPT | REJECT | N/A |
|--------|--------|-----------|
| _____ | _____ | ____/____ |
| _____ | _____ | ____/____ |
| _____ | _____ | ____/____ |
| _____ | _____ | ____/____ |

3. DUST CONTROL N/A

4. LOCATION N/A

5. REMARKS REMOVED PROPOSED CLAY LINATION ON CLAY FROM SLURRY

IMPROVEMENT - STATIONS 3+00 & 4+00. RESULTS ACCEPTABLE.

STA. 3+00

STA. 4+00

% PASSING No. 200 = 40.1%

% PASSING No. 200 = 40.3%

INSPECTOR Chris Bailey

DATE 8-26-92

REVIEWED BY Collin P. Scher

DATE 8-27-92

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2
SHEET 1 OF 1
INSPECTION DATE 9-9-92



1. MATERIAL

- BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY)
- ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY)
- WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR.
- SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.

ACCEPT REJECT N/A

| | | |
|-------|-------|---|
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |

2. QC AND VERIFICATION TESTINGS

FRESH SLURRY

- DENSITY (2 TESTS PER DAY)
- VISCOSITY (2 TESTS PER DAY)
- FILTRATE LOSS (3 TESTS PER WEEK)
- pH (3 TESTS PER WEEK)

| | | |
|-------|-------|---|
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |

ALL ABOVE TESTS SHALL BE PERFORMED FOR THE SLURRY READY TO BE PLACED IN THE TRENCH.

SLURRY IN TRENCH

- DENSITY OF THE SLURRY (2 TIMES PER DAY).
- VISCOSITY OF THE SLURRY (2 TIMES PER DAY).

| | | |
|-------|-------|---|
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |

PLACEMENT OF SOIL BENTONITE CUTOFF WALL
(cont'd)

SHEET 2 OF 2
INSPECTION DATE 9-9-92

ACCEPT REJECT N/A

BACKFILL

- SLUMP TEST (EVERY 500 CY)
- DENSITY (EVERY 500 CY)
- PERMEABILITY (SHELBY) (EVERY 1000 CY)
- SIEVE ANALYSIS (EVERY 500 CY)

- SLOPE
- DISTANCE
- CLAY CLOD SIZE
- AGGREGATE SIZE

KEY IN THE CLAY

- DEPTH TO CLAY (EVERY 20 FEET)
- SAMPLE OF CLAY FOR RECORD (EVERY 100 FEET OF WALL LENGTH)
- ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH)

TRENCH

- VERTICALITY (EVERY 100 FEET)

TRAFFIC CAP

- THICKNESS OF CAP (EVERY 300 FEET)
- MOISTURE CONTENT (EVERY 250 CY)
- IN-PLACE DENSITY (EVERY 250 CY)
- PERMEABILITY (EVERY 500 CY)

3. DUST CONTROL None

4. LOCATION _____

5. REMARKS ANCHOR TRENCH EXCAVATION WAS MODIFIED TO
PUT A RADIUS ON INSIDE AND OUTSIDE EDGES.

DENSITY TEST PERFORMED AT STA 20+80

% PROCTOR 90.1 117.4 PCF

% MOISTURE 11.4

INSPECTOR

Fredrick J. Muehle

DATE 9-9-92

REVIEWED BY

Jonathan E. Brando

DATE 9/10/92

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2
SHEET 1 OF 2
INSPECTION DATE 9-2-92

SEP 10 1992



1. MATERIAL

- BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY)
- ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY)
- WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR.
- SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.

ACCEPT REJECT N/A

| ACCEPT | REJECT | N/A |
|--------|--------|-------|
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| ✓ | _____ | _____ |

2. QC AND VERIFICATION TESTINGS

FRESH SLURRY

- DENSITY (2 TESTS PER DAY)
- VISCOSITY (2 TESTS PER DAY)
- FILTRATE LOSS (3 TESTS PER WEEK)
- pH (3 TESTS PER WEEK)

| ACCEPT | REJECT | N/A |
|--------|--------|-----|
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |

ALL ABOVE TESTS SHALL BE PERFORMED FOR THE SLURRY READY TO BE PLACED IN THE TRENCH.

SLURRY IN TRENCH

- DENSITY OF THE SLURRY (2 TIMES PER DAY).
- VISCOSITY OF THE SLURRY (2 TIMES PER DAY).

| ACCEPT | REJECT | N/A |
|--------|--------|-----|
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |

PLACEMENT OF SOIL BENTONITE CUTOFF WALL
(cont'd)

SHEET 2 OF 2
INSPECTION DATE 9-2-92

| | ACCEPT | REJECT | N/A |
|---|---------------------|--------|-------|
| <u>BACKFILL</u> | | | |
| - SLUMP TEST (EVERY 500 CY) | _____ | _____ | ✓ |
| - DENSITY (EVERY 500 CY) | _____ | _____ | ✓ |
| - PERMEABILITY (SHELBY) (EVERY 1000 CY) | _____ | _____ | ✓ |
| - SIEVE ANALYSIS (EVERY 500 CY) | _____ | _____ | ✓ |
| - SLOPE | _____ | _____ | ✓ |
| - DISTANCE | _____ | _____ | ✓ |
| - CLAY CLOD SIZE | _____ | _____ | ✓ |
| - AGGREGATE SIZE | _____ | _____ | ✓ |
| <u>KEY IN THE CLAY</u> | | | |
| - DEPTH TO CLAY (EVERY 20 FEET) | _____ | _____ | ✓ |
| - SAMPLE OF CLAY FOR RECORD (EVERY 100 FEET OF WALL LENGTH) | _____ | _____ | ✓ |
| - ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH) | _____ | _____ | ✓ |
| <u>TRENCH</u> | | | |
| - VERTICALITY (EVERY 100 FEET) | _____ | _____ | ✓ |
| <u>TRAFFIC CAP</u> | | | |
| - THICKNESS OF CAP (EVERY 300 FEET) | _____ | _____ | ✓ |
| - MOISTURE CONTENT (EVERY 250 CY) | _____ | _____ | ✓ |
| - IN-PLACE DENSITY (EVERY 250 CY) | ✓ | _____ | ✓ |
| - PERMEABILITY (EVERY 500 CY) | _____ | _____ | ✓ |
| 3. DUST CONTROL <u>NONE REQUIRED</u> | _____ | _____ | _____ |
| 4. LOCATION <u>C STA. 26+00 — 24+00</u> | _____ | _____ | _____ |
| 5. REMARKS _____ | _____ | _____ | _____ |
| <p>PERFORMED DENSITY TEST AT STA. 25+20 ON TRAFFIC CAP PLUG:</p> <p>PROCTOR = 130.5 PCF</p> <p>DENSITY = 91.9% = 120.0 PCF</p> <p>DEPTH = 4"</p> <p>M.C. = 9.0%</p> | | | |
| INSPECTOR <u>Chris Barty</u> | DATE <u>9-8-92</u> | | |
| REVIEWED BY <u>Jonathan Brander</u> | DATE <u>9/11/92</u> | | |

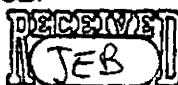
PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2

SHEET 1 OF 2

INSPECTION DATE 9-8-92

SEP 10 1992



1. MATERIAL

- BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY)
- ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY)
- WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR.
- SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.

ACCEPT REJECT N/A

| | | |
|-------|-------|-------|
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| ✓ | _____ | _____ |

2. QC AND VERIFICATION TESTINGS

FRESH SLURRY

- DENSITY (2 TESTS PER DAY)
- VISCOSITY (2 TESTS PER DAY)
- FILTRATE LOSS (3 TESTS PER WEEK)
- pH (3 TESTS PER WEEK)

| | | |
|-------|-------|---|
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |

ALL ABOVE TESTS SHALL BE PERFORMED FOR THE SLURRY READY TO BE PLACED IN THE TRENCH.

SLURRY IN TRENCH

- DENSITY OF THE SLURRY (2 TIMES PER DAY).
- VISCOSITY OF THE SLURRY (2 TIMES PER DAY).

| | | |
|-------|-------|---|
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |

PLACEMENT OF SOIL BENTONITE CUTOFF WALL
(cont'd)

SHEET 2 OF 2
INSPECTION DATE 9-8-92

ACCEPT REJECT N/A

BACKFILL

- SLUMP TEST (EVERY 500 CY)
- DENSITY (EVERY 500 CY)
- PERMEABILITY (SHELBY) (EVERY 1000 CY)
- SIEVE ANALYSIS (EVERY 500 CY)

- SLOPE
- DISTANCE
- CLAY CLOD SIZE
- AGGREGATE SIZE

KEY IN THE CLAY

- DEPTH TO CLAY (EVERY 20 FEET)
- SAMPLE OF CLAY FOR RECORD (EVERY 100 FEET OF WALL LENGTH)
- ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH)

TRENCH

- VERTICALITY (EVERY 100 FEET)

TRAFFIC CAP

- THICKNESS OF CAP (EVERY 300 FEET)
- MOISTURE CONTENT (EVERY 250 CY)
- IN-PLACE DENSITY (EVERY 250 CY)
- PERMEABILITY (EVERY 500 CY)

3. DUST CONTROL A2 NEEDED

4. LOCATION 24+00 - 19+00

5. REMARKS _____

PERFORMED DENSITY TEST @ STA. 19+50 ON TRAFFIC CAP PLUG:

PROCTOR = 130.3 PCF

DENSITY = 90.3% = 117.7 PCF

DEPTH = 4"

MC = 9.7%

INSPECTOR Chris Barty DATE 9-8-92

REVIEWED BY Jonathan Brandes DATE 9/11/92

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2

SHEET 1 OF 2

INSPECTION DATE 9-16-92

1. MATERIAL

- BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY)
- ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY)
- WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR.
- SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.

ACCEPT REJECT N/A

| | | |
|-------|-------|-------|
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| ✓ | _____ | _____ |

2. QC AND VERIFICATION TESTINGS

FRESH SLURRY

- DENSITY (2 TESTS PER DAY)
- VISCOSITY (2 TESTS PER DAY)
- FILTRATE LOSS (3 TESTS PER WEEK)
- pH (3 TESTS PER WEEK)

| | | |
|-------|-------|---|
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |

ALL ABOVE TESTS SHALL BE PERFORMED FOR THE SLURRY READY TO BE PLACED IN THE TRENCH.

SLURRY IN TRENCH

- DENSITY OF THE SLURRY (2 TIMES PER DAY).
- VISCOSITY OF THE SLURRY (2 TIMES PER DAY).

| | | |
|-------|-------|---|
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |

PLACEMENT OF SOIL BENTONITE CUTOFF WALL
(cont'd)

SHEET 2 OF 2
INSPECTION DATE 9-16-92

ACCEPT REJECT N/A

BACKFILL

- SLUMP TEST (EVERY 500 CY)
- DENSITY (EVERY 500 CY)
- PERMEABILITY (SHELBY) (EVERY 1000 CY)
- SIEVE ANALYSIS (EVERY 500 CY)

- SLOPE
- DISTANCE
- CLAY CLOD SIZE
- AGGREGATE SIZE

KEY IN THE CLAY

- DEPTH TO CLAY (EVERY 20 FEET)
- SAMPLE OF CLAY FOR RECORD (EVERY 100 FEET OF WALL LENGTH)
- ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH)

TRENCH

- VERTICALITY (EVERY 100 FEET)

TRAFFIC CAP

- THICKNESS OF CAP (EVERY 300 FEET)
- MOISTURE CONTENT (EVERY 250 CY)
- IN-PLACE DENSITY (EVERY 250 CY)
- PERMEABILITY (EVERY 500 CY)

3. DUST CONTROL AS NEEDED
4. LOCATION APPROXIMATELY 18+30 - 12+50
5. REMARKS NONE

SEP 17 1992



INSPECTOR

DATE 9-16-92

REVIEWED BY

DATE 9/17/92

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2

SHEET 1 OF 2

INSPECTION DATE 10-1-92

1. MATERIAL

- BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY)
- ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY)
- WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR.
- SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.

ACCEPT

REJECT

N/A

2. QC AND VERIFICATION TESTINGS

FRESH SLURRY

- DENSITY (2 TESTS PER DAY)
- VISCOSITY (2 TESTS PER DAY)
- FILTRATE LOSS (3 TESTS PER WEEK)
- pH (3 TESTS PER WEEK)

ALL ABOVE TESTS SHALL BE PERFORMED FOR THE SLURRY READY TO BE PLACED IN THE TRENCH.

SLURRY IN TRENCH

- DENSITY OF THE SLURRY (2 TIMES PER DAY).
- VISCOSITY OF THE SLURRY (2 TIMES PER DAY).

OCT-02 1992



PLACEMENT OF SOIL BENTONITE CUTOFF WALL
(cont'd)

SHEET 2 OF 2
INSPECTION DATE 10-1-92

ACCEPT REJECT N/A

BACKFILL

- SLUMP TEST (EVERY 500 CY)
- DENSITY (EVERY 500 CY)
- PERMEABILITY (SHELBY) (EVERY 1000 CY)
- SIEVE ANALYSIS (EVERY 500 CY)

- SLOPE
- DISTANCE
- CLAY CLOD SIZE
- AGGREGATE SIZE

KEY IN THE CLAY

- DEPTH TO CLAY (EVERY 20 FEET)
- SAMPLE OF CLAY FOR RECORD (EVERY 100 FEET OF WALL LENGTH)
- ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH)

TRENCH

- VERTICALITY (EVERY 100 FEET)

TRAFFIC CAP

- THICKNESS OF CAP (EVERY 300 FEET)
- MOISTURE CONTENT (EVERY 250 CY)
- IN-PLACE DENSITY (EVERY 250 CY)
- PERMEABILITY (EVERY 500 CY)

3. DUST CONTROL NONE REQUIRED
4. LOCATION 5+70 → 5+25
5. REMARKS RESTARTED SLURRY WALL TODAY. NO BACKFILL
WAS MIXED.

INSPECTOR Chris Bate DATE 10-1-92
REVIEWED BY Collin P. Schow DATE 10/2/92

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2

SHEET 1 OF 2

INSPECTION DATE 10-2-92

1. MATERIAL

- BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY)
- ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY)
- WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR.
- SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.

ACCEPT

REJECT

N/A

2. QC AND VERIFICATION TESTINGS

FRESH SLURRY

- DENSITY (2 TESTS PER DAY)
- VISCOSITY (2 TESTS PER DAY)
- FILTRATE LOSS (3 TESTS PER WEEK)
- pH (3 TESTS PER WEEK)

ALL ABOVE TESTS SHALL BE PERFORMED FOR THE SLURRY READY TO BE PLACED IN THE TRENCH.

SLURRY IN TRENCH

- DENSITY OF THE SLURRY (2 TIMES PER DAY).
- VISCOSITY OF THE SLURRY (2 TIMES PER DAY).

OCT 05 1992

RECEIVED

PLACEMENT OF SOIL BENTONITE CUTOFF WALL
(cont'd)

SHEET 2 OF 2
INSPECTION DATE 10-2-92

ACCEPT REJECT N/A

BACKFILL

- SLUMP TEST (EVERY 500 CY)
- DENSITY (EVERY 500 CY)
- PERMEABILITY (SHELBY) (EVERY 1000 CY)
- SIEVE ANALYSIS (EVERY 500 CY)

| | | |
|---------|---------|-------|
| ✓ | _____ | _____ |
| ✓ | _____ | _____ |
| RESULTS | PENDING | ✓ |

- SLOPE
- DISTANCE
- CLAY CLOD SIZE
- AGGREGATE SIZE

| | | |
|-------|-------|-------|
| ✓ | _____ | _____ |
| ✓ | _____ | _____ |
| ✓ | _____ | _____ |
| _____ | _____ | _____ |

KEY IN THE CLAY

- DEPTH TO CLAY (EVERY 20 FEET)
- SAMPLE OF CLAY FOR RECORD (EVERY 100 FEET OF WALL LENGTH)
- ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH)

| | | |
|-------------|-------|-------|
| ✓ | _____ | _____ |
| ✓ | _____ | _____ |
| TO BE TAKEN | _____ | _____ |

TRENCH

- VERTICALITY (EVERY 100 FEET)

| | | |
|---|-------|-------|
| ✓ | _____ | _____ |
|---|-------|-------|

TRAFFIC CAP

- THICKNESS OF CAP (EVERY 300 FEET)
- MOISTURE CONTENT (EVERY 250 CY)
- IN-PLACE DENSITY (EVERY 250 CY)
- PERMEABILITY (EVERY 500 CY)

| | | |
|-------|-------|-------|
| ✓ | _____ | _____ |
| _____ | _____ | ✓ |
| ✓ | _____ | _____ |
| ✓ | _____ | _____ |

3. DUST CONTROL NONE REQUIRED
4. LOCATION FROM 5+25 TO 3+80
5. REMARKS TOOK KEY AND BACKFILL SAMPLES.

INSPECTOR

Frederick J. Martin

DATE 10-2-92

REVIEWED BY

Colin P. Seaton

DATE 10/5/92

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2

SHEET 1 OF 2

INSPECTION DATE 10-3-92

1. MATERIAL

ACCEPT REJECT N/A

- BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY)
- ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY)
- WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR.
- SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.

2. QC AND VERIFICATION TESTINGS

FRESH SLURRY

- DENSITY (2 TESTS PER DAY)
- VISCOSITY (2 TESTS PER DAY)
- FILTRATE LOSS (3 TESTS PER WEEK)
- pH (3 TESTS PER WEEK)

ALL ABOVE TESTS SHALL BE PERFORMED FOR THE SLURRY READY TO BE PLACED IN THE TRENCH.

SLURRY IN TRENCH

- DENSITY OF THE SLURRY (2 TIMES PER DAY).
- VISCOSITY OF THE SLURRY (2 TIMES PER DAY).

OCT 05 1992



PLACEMENT OF SOIL BENTONITE CUTOFF WALL
(cont'd)

SHEET 2 OF 2
INSPECTION DATE 10-3-92

ACCEPT REJECT N/A

BACKFILL

- SLUMP TEST (EVERY 500 CY)
- DENSITY (EVERY 500 CY)
- PERMEABILITY (SHELBY) (EVERY 1000 CY)
- SIEVE ANALYSIS (EVERY 500 CY)

✓ ✓ ✓
TO BE TAKEN
SAMPLES TAKEN TESTS TO
BE COMPLETED

- SLOPE
- DISTANCE
- CLAY CLOD SIZE
- AGGREGATE SIZE

✓ ✓ ✓
✓ ✓ ✓
✓ ✓ ✓

KEY IN THE CLAY

- DEPTH TO CLAY (EVERY 20 FEET)
- SAMPLE OF CLAY FOR RECORD (EVERY 100 FEET OF WALL LENGTH)
- ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH)

✓ ✓ ✓
TO BE TAKEN

TRENCH

- VERTICALITY (EVERY 100 FEET)

✓ ✓ ✓

TRAFFIC CAP

- THICKNESS OF CAP (EVERY 300 FEET)
- MOISTURE CONTENT (EVERY 250 CY)
- IN-PLACE DENSITY (EVERY 250 CY)
- PERMEABILITY (EVERY 500 CY)

✓ ✓ ✓
✓ ✓ ✓
SAMPLE TAKEN AT 1000

3. DUST CONTROL NONE REQUIRED

4. LOCATION FROM 3+80 TO 2+65 - EXCAVATION COMPLETE

5. REMARKS EXCAVATION COMPLETED, BACKFILLING WILL BE COMPLETED

MONDAY 10-3

INSPECTOR Chris Bath

DATE 10-5-92

REVIEWED BY Collin P. Linn

DATE 10/5/92

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2

SHEET 1 OF 2

INSPECTION DATE 10-5-92

1. MATERIAL

ACCEPT REJECT N/A

- BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY)
- ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY)
- WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR.
- SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.

2. QC AND VERIFICATION TESTINGS

FRESH SLURRY

- DENSITY (2 TESTS PER DAY)
- VISCOSITY (2 TESTS PER DAY)
- FILTRATE LOSS (3 TESTS PER WEEK)
- pH (3 TESTS PER WEEK)

ALL ABOVE TESTS SHALL BE PERFORMED FOR THE SLURRY READY TO BE PLACED IN THE TRENCH.

SLURRY IN TRENCH

- DENSITY OF THE SLURRY (2 TIMES PER DAY).
- VISCOSITY OF THE SLURRY (2 TIMES PER DAY).

OCT 06 1992



PLACEMENT OF SOIL BENTONITE CUTOFF WALL
(cont'd)

SHEET 2 OF 2
INSPECTION DATE 10-5-92

ACCEPT REJECT N/A

BACKFILL

- SLUMP TEST (EVERY 500 CY)
- DENSITY (EVERY 500 CY)
- PERMEABILITY (SHELBY) (EVERY 1000 CY)
- SIEVE ANALYSIS (EVERY 500 CY)

TO BE TAKEN

✓
✓
✓
✓

- SLOPE
- DISTANCE
- CLAY CLOD SIZE
- AGGREGATE SIZE

✓
✓
✓
✓

KEY IN THE CLAY

- DEPTH TO CLAY (EVERY 20 FEET)
- SAMPLE OF CLAY FOR RECORD (EVERY 100 FEET OF WALL LENGTH)
- ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH)

SAMPLES BEING TESTED

✓
✓
✓

TRENCH

- VERTICALITY (EVERY 100 FEET)

✓

TRAFFIC CAP

- THICKNESS OF CAP (EVERY 300 FEET)
- MOISTURE CONTENT (EVERY 250 CY)
- IN-PLACE DENSITY (EVERY 250 CY)
- PERMEABILITY (EVERY 500 CY)

✓
✓
✓
✓
✓
✓
✓
✓

3. DUST CONTROL NONE REQUIRED

4. LOCATION LAST 50'

5. REMARKS BACKFILLED LAST 50 FEET. FINAL TEST

RESULTS OF BACKFILL GRADATIONS ARE ATTACHED
FOR STATIONS 5+35, 5+00 & 2+80.

INSPECTOR Fredrick J. Martels

DATE 10-5-92

REVIEWED BY Colin P. Schow

DATE 10/7/92

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2
SHEET 1 OF 2
INSPECTION DATE 10-6-92

1. MATERIAL

- BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY)
- ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY)
- WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR.
- SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.

ACCEPT REJECT N/A

| ACCEPT | REJECT | N/A |
|--------|--------|-----|
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |

2. QC AND VERIFICATION TESTINGS

FRESH SLURRY

- DENSITY (2 TESTS PER DAY)
- VISCOSITY (2 TESTS PER DAY)
- FILTRATE LOSS (3 TESTS PER WEEK)
- pH (3 TESTS PER WEEK)

| | | |
|-------|-------|---|
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |

ALL ABOVE TESTS SHALL BE PERFORMED FOR THE SLURRY READY TO BE PLACED IN THE TRENCH.

SLURRY IN TRENCH

- DENSITY OF THE SLURRY (2 TIMES PER DAY).
- VISCOSITY OF THE SLURRY (2 TIMES PER DAY).

| | | |
|-------|-------|---|
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |

OCT 07 1992
RECEIVED

PLACEMENT OF SOIL BENTONITE CUTOFF WALL
(cont'd)

SHEET 2 OF 2
INSPECTION DATE 10-6-92

ACCEPT REJECT N/A

BACKFILL

- SLUMP TEST (EVERY 500 CY)
- DENSITY (EVERY 500 CY)
- PERMEABILITY (SHELBY) (EVERY 1000 CY)
- SIEVE ANALYSIS (EVERY 500 CY)

TOOK SAMPLES TODAY

- SLOPE
- DISTANCE
- CLAY CLOD SIZE
- AGGREGATE SIZE

KEY IN THE CLAY

- DEPTH TO CLAY (EVERY 20 FEET)
- SAMPLE OF CLAY FOR RECORD (EVERY 100 FEET OF WALL LENGTH)
- ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH)

AWAITING RESULTS

TRENCH

- VERTICALITY (EVERY 100 FEET)

TRAFFIC CAP

- THICKNESS OF CAP (EVERY 300 FEET)
- MOISTURE CONTENT (EVERY 250 CY)
- IN-PLACE DENSITY (EVERY 250 CY)
- PERMEABILITY (EVERY 500 CY)

AWAITING RESULTS

3. DUST CONTROL NONE REQUIRED
4. LOCATION STA 3+80 AND 5+00
5. REMARKS TOOK PERMEABILITY SAMPLES AT STA 3+80 AND 5+00.
SENT TO GTX TODAY.

INSPECTOR

Frederick J. Mastle

DATE 10-6-92

REVIEWED BY

Collin P. Lohman

DATE 10/7/92

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2

SHEET 1 OF 2

INSPECTION DATE 10-8-92

| | ACCEPT | REJECT | N/A |
|---|--------|--------|----------|
| 1. MATERIAL | | | |
| - BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | _____ | _____ | <u>/</u> |
| - ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | _____ | _____ | <u>/</u> |
| - WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR. | _____ | _____ | <u>/</u> |
| - SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | _____ | _____ | <u>/</u> |
| 2. QC AND VERIFICATION TESTINGS | | | |
| <u>FRESH SLURRY</u> | | | |
| - DENSITY (2 TESTS PER DAY) | _____ | _____ | <u>/</u> |
| - VISCOSITY (2 TESTS PER DAY) | _____ | _____ | <u>/</u> |
| - FILTRATE LOSS (3 TESTS PER WEEK) | _____ | _____ | <u>/</u> |
| - pH (3 TESTS PER WEEK) | _____ | _____ | <u>/</u> |
| ALL ABOVE TESTS SHALL BE PERFORMED FOR THE SLURRY READY TO BE PLACED IN THE TRENCH. | | | |
| <u>SLURRY IN TRENCH</u> | | | |
| - DENSITY OF THE SLURRY (2 TIMES PER DAY). | _____ | _____ | <u>/</u> |
| - VISCOSITY OF THE SLURRY (2 TIMES PER DAY). | _____ | _____ | <u>/</u> |

OCT 8 1992



PLACEMENT OF SOIL BENTONITE CUTOFF WALL
(cont'd)

SHEET 2 OF 2
INSPECTION DATE 10-8-92

ACCEPT REJECT N/A

BACKFILL

- SLUMP TEST (EVERY 500 CY)
- DENSITY (EVERY 500 CY)
- PERMEABILITY (SHELBY) (EVERY 1000 CY)
- SIEVE ANALYSIS (EVERY 500 CY)

AWAITING RESULTS

- SLOPE
- DISTANCE
- CLAY CLOD SIZE
- AGGREGATE SIZE

KEY IN THE CLAY

- DEPTH TO CLAY (EVERY 20 FEET)
- SAMPLE OF CLAY FOR RECORD (EVERY 100 FEET OF WALL LENGTH)
- ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH)

AWAITING RESULTS

TRENCH

- VERTICALITY (EVERY 100 FEET)

TRAFFIC CAP

- THICKNESS OF CAP (EVERY 300 FEET)
- MOISTURE CONTENT (EVERY 250 CY)
- IN-PLACE DENSITY (EVERY 250 CY)
- PERMEABILITY (EVERY 500 CY)

AWAITING RESULTS

3. DUST CONTROL NONE REQUIRED

4. LOCATION N/A

5. REMARKS DENSITY TESTS WERE TAKEN IN THE ANCHOR

TRENCH PLACED TODAY, 2 PASSED AND 2 FAILED.

ROGER NORTH APPROVED THE TRENCH.

#1 ON L-LINE 8" DEEP STANDARD PROCTOR 130.3 PCF
% DENSITY 69.2% - FAILED

#2 20' NORTH OF H-LINE 8" DEEP
A. % DENSITY 88.6% - FAILED (AREA RECOMPACTED)
B. % DENSITY 92.1% - PASS

#3 J-LINE 12" DEEP
% DENSITY 90.0% - PASS

INSPECTOR Frederick J. Mastuto DATE 10-8-92

REVIEWED BY Colin P. Sullivan DATE 10/9/92

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2
SHEET 1 OF 1
INSPECTION DATE 10-22-92

| | ACCEPT | REJECT | N/A |
|---|--------|--------|-----------|
| 1. MATERIAL | | | |
| - BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | _____ | _____ | ____/____ |
| - ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | _____ | _____ | ____/____ |
| - WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR. | _____ | _____ | ____/____ |
| - SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | _____ | _____ | ____/____ |
| 2. QC AND VERIFICATION TESTINGS | | | |
| <u>FRESH SLURRY</u> | | | |
| - DENSITY (2 TESTS PER DAY) | _____ | _____ | ____/____ |
| - VISCOSITY (2 TESTS PER DAY) | _____ | _____ | ____/____ |
| - FILTRATE LOSS (3 TESTS PER WEEK) | _____ | _____ | ____/____ |
| - pH (3 TESTS PER WEEK) | _____ | _____ | ____/____ |
| ALL ABOVE TESTS SHALL BE PERFORMED FOR THE SLURRY READY TO BE PLACED IN THE TRENCH. | | | |
| <u>SLURRY IN TRENCH</u> | | | |
| - DENSITY OF THE SLURRY (2 TIMES PER DAY). | _____ | _____ | ____/____ |
| - VISCOSITY OF THE SLURRY (2 TIMES PER DAY). | _____ | _____ | ____/____ |

John L. Fox (GeoSyntra) 10-23-92

PLACEMENT OF SOIL BENTONITE CUTOFF WALL
(cont'd)

FORM A-2
SHEET 1 OF 1
INSPECTION DATE 10-22-92

ACCEPT REJECT N/A

BACKFILL

- SLUMP TEST (EVERY 500 CY)
- DENSITY (EVERY 500 CY)
- PERMEABILITY (SHELBY) (EVERY 1000 CY)
- SIEVE ANALYSIS (EVERY 500 CY)

- SLOPE
- DISTANCE
- CLAY CLOD SIZE
- AGGREGATE SIZE

KEY IN THE CLAY

- DEPTH TO CLAY (EVERY 20 FEET)
- SAMPLE OF CLAY FOR RECORD (EVERY 100 FEET OF WALL LENGTH)
- ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH)

TRENCH

- VERTICALITY (EVERY 100 FEET)

TRAFFIC CAP

- THICKNESS OF CAP (EVERY 300 FEET)
- MOISTURE CONTENT (EVERY 250 CY)
- IN-PLACE DENSITY (EVERY 250 CY)
- PERMEABILITY (EVERY 500 CY)

3. DUST CONTROL N/A

4. LOCATION N/A ^{THE LAST}

5. REMARKS TEST RESULTS FOR SLURRY WALL PERMEABILITY

TESTS ATTACHED. ALSO ATTACHED IS THE
FIRST OF 2 PERMEABILITY TESTS TO BE
PERFORMED ON THE TRAFFIC CAP. RESULTS ARE

AS FOLLOWS:

STA. 3+80 : $K = 5 \times 10^{-8} \text{ cm/sec}$ ← SLURRY WALL
STA. 5+00 : $K = 5 \times 10^{-8} \text{ cm/sec}$ ← SLURRY WALL
FB00 : $K = 9 \times 10^{-8} \text{ cm/sec}$ ← TRAFFIC CAP

INSPECTOR Chris Bault DATE 10-22-92

REVIEWED BY John H. Fox 10-23 (Geosyntec) DATE 10-23-92

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2

SHEET 1 OF 2

INSPECTION DATE 10-23-92

| | ACCEPT | REJECT | N/A |
|---|--------|--------|-----|
| 1. MATERIAL | | | |
| - BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | _____ | _____ | ✓ |
| - ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | _____ | _____ | ✓ |
| - WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR. | _____ | _____ | ✓ |
| - SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | _____ | _____ | ✓ |
| 2. QC AND VERIFICATION TESTINGS | | | |
| <u>FRESH SLURRY</u> | | | |
| - DENSITY (2 TESTS PER DAY) | _____ | _____ | ✓ |
| - VISCOSITY (2 TESTS PER DAY) | _____ | _____ | ✓ |
| - FILTRATE LOSS (3 TESTS PER WEEK) | _____ | _____ | ✓ |
| - pH (3 TESTS PER WEEK) | _____ | _____ | ✓ |
| ALL ABOVE TESTS SHALL BE PERFORMED FOR THE SLURRY READY TO BE PLACED IN THE TRENCH. | | | |
| <u>SLURRY IN TRENCH</u> | | | |
| - DENSITY OF THE SLURRY (2 TIMES PER DAY). | _____ | _____ | ✓ |
| - VISCOSITY OF THE SLURRY (2 TIMES PER DAY). | _____ | _____ | ✓ |

John H. Fox 10-24-92
Leo Syntes

PLACEMENT OF SOIL BENTONITE CUTOFF WALL
(cont'd)

FORM NO. 2
SHEET 2 OF 2
INSPECTION DATE 10-23-92

ACCEPT REJECT N/A

BACKFILL

- SLUMP TEST (EVERY 500 CY)
- DENSITY (EVERY 500 CY)
- PERMEABILITY (SHELBY) (EVERY 1000 CY)
- SIEVE ANALYSIS (EVERY 500 CY)

- SLOPE
- DISTANCE
- CLAY CLOD SIZE
- AGGREGATE SIZE

KEY IN THE CLAY

- DEPTH TO CLAY (EVERY 20 FEET)
- SAMPLE OF CLAY FOR RECORD (EVERY 100 FEET OF WALL LENGTH)
- ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH)

TRENCH

- VERTICALITY (EVERY 100 FEET)

TRAFFIC CAP

- THICKNESS OF CAP (EVERY 300 FEET)
- MOISTURE CONTENT (EVERY 250 CY)
- IN-PLACE DENSITY (EVERY 250 CY)
- PERMEABILITY (EVERY 500 CY)

3. DUST CONTROL N/A

4. LOCATION STA. 3+00

5. REMARKS 1-) ATTACHED ARE THE RESULTS OF THE ATTERBERG

LIMITS TESTS PERFORMED ON A SAMPLE OF KEY

MATERIAL TAKEN FROM THE TRENCH AT STA. 3+00.

2-) ALSO PERFORMED 2 DENSITY TESTS ON TRAFFIC CAP. RESULTS ARE AS FOLLOWS:

| LOCATION | DRY DENSITY | % PROCTOR |
|----------|-------------|-----------|
| "X" GRID | 129.5 PCF | 99.4% |
| "V" GRID | 118.5 PCF | 90.9% |

INSPECTOR

DATE 10-23-92

REVIEWED BY

DATE 10-24-92

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2
SHEET 1 OF 2
INSPECTION DATE 10-28-92

| | ACCEPT | REJECT | N/A |
|---|--------|--------|-----------|
| 1. MATERIAL | | | |
| - BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | _____ | _____ | ____/____ |
| - ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | _____ | _____ | ____/____ |
| - WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR. | _____ | _____ | ____/____ |
| - SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | _____ | _____ | ____/____ |
| 2. QC AND VERIFICATION TESTINGS | | | |
| <u>FRESH SLURRY</u> | | | |
| - DENSITY (2 TESTS PER DAY) | _____ | _____ | ____/____ |
| - VISCOSITY (2 TESTS PER DAY) | _____ | _____ | ____/____ |
| - FILTRATE LOSS (3 TESTS PER WEEK) | _____ | _____ | ____/____ |
| - pH (3 TESTS PER WEEK) | _____ | _____ | ____/____ |
| ALL ABOVE TESTS SHALL BE PERFORMED FOR THE SLURRY READY TO BE PLACED IN THE TRENCH. | | | |
| <u>SLURRY IN TRENCH</u> | | | |
| - DENSITY OF THE SLURRY (2 TIMES PER DAY). | _____ | _____ | ____/____ |
| - VISCOSITY OF THE SLURRY (2 TIMES PER DAY). | _____ | _____ | ____/____ |

PLACEMENT OF SOIL BENTONITE CUTOFF WALL
(cont'd)

FORM 6-2 OF 2
SHEET 2 OF 2
INSPECTION DATE 10-28-92

ACCEPT REJECT N/A

BACKFILL

- SLUMP TEST (EVERY 500 CY)
- DENSITY (EVERY 500 CY)
- PERMEABILITY (SHELBY) (EVERY 1000 CY)
- SIEVE ANALYSIS (EVERY 500 CY)
- SLOPE
- DISTANCE
- CLAY CLOD SIZE
- AGGREGATE SIZE

| | | |
|-------|-------|---|
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |

KEY IN THE CLAY

- DEPTH TO CLAY (EVERY 20 FEET)
- SAMPLE OF CLAY FOR RECORD (EVERY 100 FEET OF WALL LENGTH)
- ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH)

| | | |
|-------|-------|---|
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |

TRENCH

- VERTICALITY (EVERY 100 FEET)

| | | |
|-------|-------|---|
| _____ | _____ | ✓ |
|-------|-------|---|

TRAFFIC CAP

- THICKNESS OF CAP (EVERY 300 FEET)
- MOISTURE CONTENT (EVERY 250 CY)
- IN-PLACE DENSITY (EVERY 250 CY)
- PERMEABILITY (EVERY 500 CY)

| | | |
|---|-------|---|
| ✓ | _____ | ✓ |
| ✓ | _____ | ✓ |
| ✓ | _____ | ✓ |

3. DUST CONTROL NONE REQUIRED

4. LOCATION BETWEEN GRIDLINES AA AND 1000 AND AT 1000

5. REMARKS DENSITY TESTS PASSED

TEST PERFORMED AT 10"

1.) BETWEEN AA AND 1000 DD = 125.2 PCF 96% DENSITY

2.) AT 1000 DD = 119.3 PCF 91.6% DENSITY

INSPECTOR

Fredrick J. Mastis

DATE 10-28-92

REVIEWED BY

John G. Fox (Geotechnical)

DATE 10-29-92

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2

SHEET 1 OF 2
INSPECTION DATE 10-29-92

1. MATERIAL

ACCEPT REJECT N/A

- BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY)
- ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY)
- WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR.
- SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.

2. QC AND VERIFICATION TESTINGS

FRESH SLURRY

- DENSITY (2 TESTS PER DAY)
- VISCOSITY (2 TESTS PER DAY)
- FILTRATE LOSS (3 TESTS PER WEEK)
- pH (3 TESTS PER WEEK)

ALL ABOVE TESTS SHALL BE PERFORMED FOR THE SLURRY READY TO BE PLACED IN THE TRENCH.

SLURRY IN TRENCH

- DENSITY OF THE SLURRY (2 TIMES PER DAY).
- VISCOSITY OF THE SLURRY (2 TIMES PER DAY).

PLACEMENT OF SOIL BENTONITE CUTOFF WALL
(cont'd)

SHEET 2 OF 2
INSPECTION DATE 10-29-92

ACCEPT REJECT N/A

BACKFILL

- SLUMP TEST (EVERY 500 CY)
- DENSITY (EVERY 500 CY)
- PERMEABILITY (SHELBY) (EVERY 1000 CY)
- SIEVE ANALYSIS (EVERY 500 CY)

- SLOPE
- DISTANCE
- CLAY CLOD SIZE
- AGGREGATE SIZE

KEY IN THE CLAY

- DEPTH TO CLAY (EVERY 20 FEET)
- SAMPLE OF CLAY FOR RECORD (EVERY 100 FEET OF WALL LENGTH)
- ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH)

TRENCH

- VERTICALITY (EVERY 100 FEET)

TRAFFIC CAP

- THICKNESS OF CAP (EVERY 300 FEET)
- MOISTURE CONTENT (EVERY 250 CY)
- IN-PLACE DENSITY (EVERY 250 CY)
- PERMEABILITY (EVERY 500 CY)

3. DUST CONTROL None Required
4. LOCATION "X" GRID TO O/S 800
5. REMARKS PLACED PLUS ON TOP OF SLURRY WALL

INSPECTOR

Chris B. [Signature]

DATE 10-29-92

REVIEWED BY

John L. [Signature] (Geotechnical)

DATE 10-30-92

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2
SHEET 1 OF 2
INSPECTION DATE 10-22-92

| | ACCEPT | REJECT | N/A |
|---|--------|--------|-----|
| 1. MATERIAL | | | |
| - BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | _____ | _____ | ✓ |
| - ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | _____ | _____ | ✓ |
| - WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR. | _____ | _____ | ✓ |
| - SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | _____ | _____ | ✓ |
| 2. QC AND VERIFICATION TESTINGS | | | |
| <u>FRESH SLURRY</u> | | | |
| - DENSITY (2 TESTS PER DAY) | _____ | _____ | ✓ |
| - VISCOSITY (2 TESTS PER DAY) | _____ | _____ | ✓ |
| - FILTRATE LOSS (3 TESTS PER WEEK) | _____ | _____ | ✓ |
| - pH (3 TESTS PER WEEK) | _____ | _____ | ✓ |
| ALL ABOVE TESTS SHALL BE PERFORMED FOR THE SLURRY READY TO BE PLACED IN THE TRENCH. | | | |
| <u>SLURRY IN TRENCH</u> | | | |
| - DENSITY OF THE SLURRY (2 TIMES PER DAY). | _____ | _____ | ✓ |
| - VISCOSITY OF THE SLURRY (2 TIMES PER DAY). | _____ | _____ | ✓ |

PLACEMENT OF SOIL BENTONITE CUTOFF WALL
(cont'd)

SHEET 2 OF 2
INSPECTION DATE 10-30-92

| | ACCEPT | REJECT | N/A |
|---|--------|--------|-------|
| <u>BACKFILL</u> | | | |
| - SLUMP TEST (EVERY 500 CY) | _____ | _____ | ✓ |
| - DENSITY (EVERY 500 CY) | _____ | _____ | ✓ |
| - PERMEABILITY (SHELBY) (EVERY 1000 CY) | _____ | _____ | ✓ |
| - SIEVE ANALYSIS (EVERY 500 CY) | _____ | _____ | ✓ |
| - SLOPE | _____ | _____ | ✓ |
| - DISTANCE | _____ | _____ | ✓ |
| - CLAY CLOD SIZE | _____ | _____ | ✓ |
| - AGGREGATE SIZE | _____ | _____ | ✓ |
| <u>KEY IN THE CLAY</u> | | | |
| - DEPTH TO CLAY (EVERY 20 FEET) | _____ | _____ | ✓ |
| - SAMPLE OF CLAY FOR RECORD (EVERY 100 FEET OF WALL LENGTH) | _____ | _____ | ✓ |
| - ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH) | _____ | _____ | ✓ |
| <u>TRENCH</u> | | | |
| - VERTICALITY (EVERY 100 FEET) | _____ | _____ | ✓ |
| <u>TRAFFIC CAP</u> | | | |
| - THICKNESS OF CAP (EVERY 300 FEET) | ✓ | _____ | _____ |
| - MOISTURE CONTENT (EVERY 250 CY) | ✓ | _____ | _____ |
| - IN-PLACE DENSITY (EVERY 250 CY) | ✓ | _____ | _____ |
| - PERMEABILITY (EVERY 500 CY) | ✓ | _____ | _____ |
| 3. DUST CONTROL <u>NONE REQUIRED</u> | _____ | _____ | _____ |
| 4. LOCATION <u>4/5 800 - 4/5 600</u> | _____ | _____ | _____ |
| 5. REMARKS <u>PLACED TRAFFIC CAP PLUG OVER SLURRY WALL</u> | _____ | _____ | _____ |

INSPECTOR

Chris B. [Signature]

DATE 10-30-92

REVIEWED BY

John L. [Signature]

DATE 11-2-92

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2
SHEET 1 OF 2
INSPECTION DATE 10-31-92

| | ACCEPT | REJECT | N/A |
|---|--------|--------|-----|
| 1. MATERIAL | | | |
| - BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | _____ | _____ | ✓ |
| - ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | _____ | _____ | ✓ |
| - WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR. | _____ | _____ | ✓ |
| - SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | _____ | _____ | ✓ |
| 2. QC AND VERIFICATION TESTINGS | | | |
| <u>FRESH SLURRY</u> | | | |
| - DENSITY (2 TESTS PER DAY) | _____ | _____ | ✓ |
| - VISCOSITY (2 TESTS PER DAY) | _____ | _____ | ✓ |
| - FILTRATE LOSS (3 TESTS PER WEEK) | _____ | _____ | ✓ |
| - pH (3 TESTS PER WEEK) | _____ | _____ | ✓ |
| ALL ABOVE TESTS SHALL BE PERFORMED FOR THE SLURRY READY TO BE PLACED IN THE TRENCH. | | | |
| <u>SLURRY IN TRENCH</u> | | | |
| - DENSITY OF THE SLURRY (2 TIMES PER DAY). | _____ | _____ | ✓ |
| - VISCOSITY OF THE SLURRY (2 TIMES PER DAY). | _____ | _____ | ✓ |

PLACEMENT OF SOIL BENTONITE CUTOFF WALL
(cont'd)

SHEET 2 OF 2
INSPECTION DATE 10-31-92

ACCEPT REJECT N/A

BACKFILL

- SLUMP TEST (EVERY 500 CY)
- DENSITY (EVERY 500 CY)
- PERMEABILITY (SHELBY) (EVERY 1000 CY)
- SIEVE ANALYSIS (EVERY 500 CY)

- SLOPE
- DISTANCE
- CLAY CLOD SIZE
- AGGREGATE SIZE

KEY IN THE CLAY

- DEPTH TO CLAY (EVERY 20 FEET)
- SAMPLE OF CLAY FOR RECORD (EVERY 100 FEET OF WALL LENGTH)
- ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH)

TRENCH

- VERTICALITY (EVERY 100 FEET)

TRAFFIC CAP

- THICKNESS OF CAP (EVERY 300 FEET)
- MOISTURE CONTENT (EVERY 250 CY)
- IN-PLACE DENSITY (EVERY 250 CY)
- PERMEABILITY (EVERY 500 CY)

3. DUST CONTROL NONE REQUIRED
4. LOCATION ~~WEST SIDE~~ NORTH SIDE OF SITE
5. REMARKS PLACED TRAFFIC CAP PWR OVER SLURRY WALL - ALSO
TOOK SHELBY TUBS FOR PERMEABILITY TESTING
FROM TRAFFIC CAP PWR Q 0/5 BSD.

INSPECTOR

Chris Gault

DATE 10-31-92

REVIEWED BY

John H. Fox (Geotechnical)

DATE 11-2-92

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2

SHEET 1 OF 2
INSPECTION DATE 11-1-92

| | ACCEPT | REJECT | N/A |
|---|--------|--------|-----|
| 1. MATERIAL | | | |
| - BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | _____ | _____ | ✓ |
| - ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | _____ | _____ | ✓ |
| - WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR. | _____ | _____ | ✓ |
| - SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | _____ | _____ | ✓ |
| 2. QC AND VERIFICATION TESTINGS | | | |
| <u>FRESH SLURRY</u> | | | |
| - DENSITY (2 TESTS PER DAY) | _____ | _____ | ✓ |
| - VISCOSITY (2 TESTS PER DAY) | _____ | _____ | ✓ |
| - FILTRATE LOSS (3 TESTS PER WEEK) | _____ | _____ | ✓ |
| - pH (3 TESTS PER WEEK) | _____ | _____ | ✓ |
| ALL ABOVE TESTS SHALL BE PERFORMED FOR THE SLURRY READY TO BE PLACED IN THE TRENCH. | | | |
| <u>SLURRY IN TRENCH</u> | | | |
| - DENSITY OF THE SLURRY (2 TIMES PER DAY). | _____ | _____ | ✓ |
| - VISCOSITY OF THE SLURRY (2 TIMES PER DAY). | _____ | _____ | ✓ |

PLACEMENT OF SOIL BENTONITE CUTOFF WALL
(cont'd)

SHEET 2 OF 2
INSPECTION DATE 11-1-92

ACCEPT REJECT N/A

BACKFILL

- SLUMP TEST (EVERY 500 CY)
- DENSITY (EVERY 500 CY)
- PERMEABILITY (SHELBY) (EVERY 1000 CY)
- SIEVE ANALYSIS (EVERY 500 CY)
- SLOPE
- DISTANCE
- CLAY CLOD SIZE
- AGGREGATE SIZE

KEY IN THE CLAY

- DEPTH TO CLAY (EVERY 20 FEET)
- SAMPLE OF CLAY FOR RECORD (EVERY 100 FEET OF WALL LENGTH)
- ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH)

TRENCH

- VERTICALITY (EVERY 100 FEET)

TRAFFIC CAP

- THICKNESS OF CAP (EVERY 300 FEET)
- MOISTURE CONTENT (EVERY 250 CY)
- IN-PLACE DENSITY (EVERY 250 CY)
- PERMEABILITY (EVERY 500 CY)

3. DUST CONTROL None Required
4. LOCATION North Side of Site
5. REMARKS Placed Traffic Cap Pile over Slurry Wall -

INSPECTOR

Chris Bate

DATE 11-2-92

REVIEWED BY

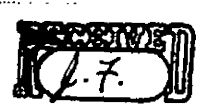
John H. For (Signature)

DATE 11-2-92

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2
SHEET 1 OF 2
INSPECTION DATE 11-12-92

| | ACCEPT | REJECT | N/A |
|---|--------|--------|-----|
| 1. MATERIAL | | | |
| - BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | _____ | _____ | ✓ |
| - ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | _____ | _____ | ✓ |
| - WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR. | _____ | _____ | ✓ |
| - SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | _____ | _____ | ✓ |
| 2. QC AND VERIFICATION TESTINGS | | | |
| <u>FRESH SLURRY</u> | | | |
| - DENSITY (2 TESTS PER DAY) | _____ | _____ | ✓ |
| - VISCOSITY (2 TESTS PER DAY) | _____ | _____ | ✓ |
| - FILTRATE LOSS (3 TESTS PER WEEK) | _____ | _____ | ✓ |
| - pH (3 TESTS PER WEEK) | _____ | _____ | ✓ |
| ALL ABOVE TESTS SHALL BE PERFORMED FOR THE SLURRY READY TO BE PLACED IN THE TRENCH. | | | |
| <u>SLURRY IN TRENCH</u> | | | |
| - DENSITY OF THE SLURRY (2 TIMES PER DAY). | _____ | _____ | ✓ |
| - VISCOSITY OF THE SLURRY (2 TIMES PER DAY). | _____ | _____ | ✓ |


 NOV 13 1992

PLACEMENT OF SOIL BENTONITE CUTOFF WALL
(cont'd)

SHEET 2 OF 2
INSPECTION DATE 11-12-92

ACCEPT REJECT N/A

BACKFILL

- SLUMP TEST (EVERY 500 CY)
- DENSITY (EVERY 500 CY)
- PERMEABILITY (SHELBY) (EVERY 1000 CY)
- SIEVE ANALYSIS (EVERY 500 CY)

- SLOPE
- DISTANCE
- CLAY CLOD SIZE
- AGGREGATE SIZE

KEY IN THE CLAY

- DEPTH TO CLAY (EVERY 20 FEET)
- SAMPLE OF CLAY FOR RECORD (EVERY 100 FEET OF WALL LENGTH)
- ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH)

TRENCH

- VERTICALITY (EVERY 100 FEET)

TRAFFIC CAP

- THICKNESS OF CAP (EVERY 300 FEET)
- MOISTURE CONTENT (EVERY 250 CY)
- IN-PLACE DENSITY (EVERY 250 CY)
- PERMEABILITY (EVERY 500 CY)

3. DUST CONTROL NONE REQUIRED

4. LOCATION SLURRY WALL STATION 2+50

5. REMARKS RESULTS OF 2ND PERMEABILITY TEST PERFORMED ON

SLURRY WALL TRAFFIC CAP ARE ATTACHED - RESULT =

4×10^{-8} CM/SEC - PERMEABILITY TESTING OF TRAFFIC CAP
IS COMPLETE.

INSPECTOR Chris Bates DATE 11-12-92

REVIEWED BY John E. Fox (Geosyntec) DATE 11-13-92

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2
SHEET 1 OF 2
INSPECTION DATE 11-19-92

| | ACCEPT | REJECT | N/A |
|---|--------|--------|--------|
| 1. MATERIAL | | | |
| - BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | _____ | _____ | _____✓ |
| - ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | _____ | _____ | _____✓ |
| - WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR. | _____ | _____ | _____✓ |
| - SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | _____ | _____ | _____✓ |
| 2. QC AND VERIFICATION TESTINGS | | | |
| <u>FRESH SLURRY</u> | | | |
| - DENSITY (2 TESTS PER DAY) | _____ | _____ | _____✓ |
| - VISCOSITY (2 TESTS PER DAY) | _____ | _____ | _____✓ |
| - FILTRATE LOSS (3 TESTS PER WEEK) | _____ | _____ | _____✓ |
| - pH (3 TESTS PER WEEK) | _____ | _____ | _____✓ |
| ALL ABOVE TESTS SHALL BE PERFORMED FOR THE SLURRY READY TO BE PLACED IN THE TRENCH. | | | |
| <u>SLURRY IN TRENCH</u> | | | |
| - DENSITY OF THE SLURRY (2 TIMES PER DAY). | _____ | _____ | _____✓ |
| - VISCOSITY OF THE SLURRY (2 TIMES PER DAY). | _____ | _____ | _____✓ |

NOV 20 1992



PLACEMENT OF SOIL BENTONITE CUTOFF WALL
(cont'd)

SHEET 1 OF 2
INSPECTION DATE 11-19-92

ACCEPT REJECT N/A

BACKFILL

- SLUMP TEST (EVERY 500 CY)
- DENSITY (EVERY 500 CY)
- PERMEABILITY (SHELBY) (EVERY 1000 CY)
- SIEVE ANALYSIS (EVERY 500 CY)

- SLOPE
- DISTANCE
- CLAY CLOD SIZE
- AGGREGATE SIZE

KEY IN THE CLAY

- DEPTH TO CLAY (EVERY 20 FEET)
- SAMPLE OF CLAY FOR RECORD (EVERY 100 FEET OF WALL LENGTH)
- ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH)

TRENCH

- VERTICALITY (EVERY 100 FEET)

TRAFFIC CAP

- THICKNESS OF CAP (EVERY 300 FEET)
- MOISTURE CONTENT (EVERY 250 CY)
- IN-PLACE DENSITY (EVERY 250 CY)
- PERMEABILITY (EVERY 500 CY)

3. DUST CONTROL NONE REQUIRED
4. LOCATION 0/5 450 - 0/5 350
5. REMARKS PLACED TRAFFIC CAP IN ABOVE LOCATION AS
UNDERLIER WAS PLACED

NOV 20 1992



INSPECTOR

Chris Burt

DATE 11-19-92

REVIEWED BY

John R. H. (Holmstrom)

DATE 11-20-92

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

NOV 21 1992



FORM A-2

SHEET 1 / OF 2

INSPECTION DATE 11-20-92

1. MATERIAL

- BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY)
- ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY)
- WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR.
- SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.

ACCEPT REJECT N/A

| | | |
|-------|-------|---|
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |

2. QC AND VERIFICATION TESTINGS

FRESH SLURRY

- DENSITY (2 TESTS PER DAY)
- VISCOSITY (2 TESTS PER DAY)
- FILTRATE LOSS (3 TESTS PER WEEK)
- pH (3 TESTS PER WEEK)

| | | |
|-------|-------|---|
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |

ALL ABOVE TESTS SHALL BE PERFORMED FOR THE SLURRY READY TO BE PLACED IN THE TRENCH.

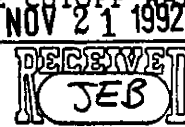
SLURRY IN TRENCH

- DENSITY OF THE SLURRY (2 TIMES PER DAY).
- VISCOSITY OF THE SLURRY (2 TIMES PER DAY).

| | | |
|-------|-------|---|
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |

PLACEMENT OF SOIL BENTONITE CUTOFF WALL
(cont'd)

SHEET 2 OF 2
INSPECTION DATE 11-20-92



BACKFILL

- SLUMP TEST (EVERY 500 CY)
- DENSITY (EVERY 500 CY)
- PERMEABILITY (SHELBY) (EVERY 1000 CY)
- SIEVE ANALYSIS (EVERY 500 CY)

- SLOPE
- DISTANCE
- CLAY CLOD SIZE
- AGGREGATE SIZE

KEY IN THE CLAY

- DEPTH TO CLAY (EVERY 20 FEET)
- SAMPLE OF CLAY FOR RECORD (EVERY 100 FEET OF WALL LENGTH)
- ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH)

TRENCH

- VERTICALITY (EVERY 100 FEET)

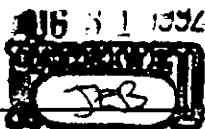
TRAFFIC CAP

- THICKNESS OF CAP (EVERY 300 FEET)
- MOISTURE CONTENT (EVERY 250 CY)
- IN-PLACE DENSITY (EVERY 250 CY)
- PERMEABILITY (EVERY 500 CY)

3. DUST CONTROL NONE REQUIRED
4. LOCATION O/S BSD -> "Z" GRID
5. REMARKS COMPLETE SCOW PLUG TODAY

INSPECTOR Chris Bales DATE 11-20-92
REVIEWED BY Jonathan Brandes DATE 11/21/92

DRUM INVENTORY



FORM A-3
SHEET 1 OF 1
INSPECTION DATE 8-29-92

ACCEPT REJECT N/A

1. VERIFICATION INSPECTION

- DRUMS CONSISTING OF 5 GALLONS CONTAINING WASTE, AND ARE INTACT, EXPOSED PARTIALLY OR COMPLETELY ARE IDENTIFIED AND LABELED BEFORE REMOVAL. ✓
- DRUMS NOT REQUIRING HANDLING/ DISPOSAL ARE IDENTIFIED. ✓
- DRUMS NOT REQUIRING HANDLING/ DISPOSAL ARE SHREDDED TO A MAXIMUM SIZE OF 1 INCH WIDE BY 3 FT. LONG. ✓
- DRUMS ARE LOGGED, MAPPED OR PHOTOGRAPHED IN ORIGINAL POSITION PRIOR TO REMOVAL. ✓
- DRUM STORAGE AREA IS PREPARED IN ACCORDANCE WITH THE SPECIFICATION. ✓

2. DUST CONTROL

ACTION TAKEN NONE REQUIRED

3. LOCATION (APPROXIMATE)

STAGING AREA, NORTH END OF SITE

4. REMARKS Note any drum labels or identification.

THE THREE DRUMS STAGED FOR OFF SITE DISPOSAL, #74, #83 & #84, WERE EXAMINED AND SAMPLED. DRUM NO 74 WHICH WAS LABELLED AS "74" CONTAINED EMPTY CHEMICAL BOTTLES, PPE, AND OTHER MISC. SUPPLIES. DRUM NO. 83 WAS LABELLED AS "84 ACETONE". IT CONTAINED APPROXIMATELY 1 FOOT OF LIQUID WHICH WAS SAMPLED FOR TESTING BY THE DISPOSAL FACILITY. DRUM NO 84 WAS LABELLED AS "84 HNO₃". IT WAS EMPTY - THE BOTTOM OF THE DRUM WAS CORRODED & HAD HOLES.

(NOTE: CONTENTS OF DRUM # 74 WERE INVENTORIED)

INSPECTOR

Chris B...

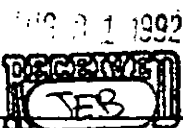
DATE 8-31-92

REVIEWED BY

Jonathan E Brando

DATE 8/31/92

DRUM SAMPLING



FORM A-4
SHEET 1 OF 1
INSPECTION DATE 9-29-92

ACCEPT REJECT N/A

1. VERIFICATION INSPECTION

- FOR EACH GROUP OF DRUMS WITH LIKE MATERIALS, ONE SAMPLE OR COMPOSITE FOR EVERY THREE DRUMS IS COLLECTED AND ANALYZED PER SAMPLING AND ANALYSIS PLAN.

_____ ✓

- FOR EACH BULKED COMPATIBLE AND INDIVIDUAL INCOMPATIBLE WASTE SAMPLE IS COLLECTED FOR ANALYSIS FOR DISPOSAL.

✓ _____

2. DUST CONTROL

ACTION TAKEN

NONE REQUIRED

3. LOCATION (APPROXIMATE)

STAGING AREA, NORTH END OF SITE.

4. REMARKS DRUM # 83 (DESIGNATED ON MAP OF DRUMS) WAS

SAMPLED AND DRUM # 74 WAS INVENTORIED. DRUM

84 HAD THE BOTTOM CORRODED AND WAS EMPTY.

DRUM # 83 AND DRUM # 84 BOTH WERE LABELED # 84.

COPIES OF THE WASTE PROFILE FORMS FOR DRUMS 74 + 83

ARE ATTACHED. THE BLANK SPACES WILL BE FILLED IN

PRIOR TO ANY SHIPMENT OF THE SAMPLES. ALL SAMPLES

WILL BE SHIPPED TO CHEM WASTE'S LAB ON MONDAY.

DRUM # 74 WAS NOT SAMPLED. IT CONTAINED PPE AND

CHEMICAL BOTTLES. CHEM WASTE WILL BE CONTACTED MONDAY

MORNING TO SEE IF SAMPLING OF THESE WASTES IS

REQUIRED.

INSPECTOR

Frederick J. Martini

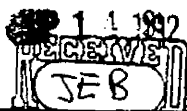
DATE 8-29-92

REVIEWED BY

Jonathan E. Branks

DATE 8/31/92

DRUM SAMPLING



FORM A-4
SHEET 1 OF 1
INSPECTION DATE 9-12-92

ACCEPT REJECT N/A

1. VERIFICATION INSPECTION

- FOR EACH GROUP OF DRUMS WITH LIKE MATERIALS, ONE SAMPLE OR COMPOSITE FOR EVERY THREE DRUMS IS COLLECTED AND ANALYZED PER SAMPLING AND ANALYSIS PLAN.

_____ ✓

- FOR EACH BULKED COMPATIBLE AND INDIVIDUAL INCOMPATIBLE WASTE SAMPLE IS COLLECTED FOR ANALYSIS FOR DISPOSAL.

_____ ✓

2. DUST CONTROL

ACTION TAKEN

NONE REQUIRED

3. LOCATION (APPROXIMATE)

STAGING AREA

4. REMARKS

DID A SIMPLE pH TEST TO DETERMINE IF THERE MAY HAVE BEEN ANY NITRIC ACID BEKLED INTO THE SOIL AROUND DRUM # 84. STONE AND SOIL SAMPLES WERE TAKEN DIRECTLY UNDER THE DRUM FROM THE SURFACE TO 6" AND THE pH OF ALL THE SAMPLES WERE 6-7. SURFACE SAMPLES WERE ALSO TAKEN AT APPROXIMATELY 12" AROUND THE OUTER EDGE AND 1" FROM THE SURFACE, THE pH WAS ALSO 6-7. SURFACE SOIL SAMPLES OUTSIDE OF THE STAGING AREA ALSO HAD A pH OF 6-7. THERE WAS NO ACIDIC ODOR AND THERE WAS PLENTY OF VEGETATION GROWING IN THE AREA. THE pH WAS TAKEN USING pH TEST STRIPS. THE SAMPLES WERE PLACED IN JARS AND A VOLUME OF WATER EQUAL TO VOLUME OF MATERIAL WAS ADDED. IT WAS SHAKEN ALLOWED TO SIT FOR A MINUTE OR TWO, AND THEN THE pH WAS TAKEN.

INSPECTOR

Fredrick J. Moulton

DATE 9-12-92

REVIEWED BY

Jonathan Branebs

DATE 9/14/92

DRUM SAMPLING

FORM 87-1
SHEET 1 OF 1
INSPECTION DATE 9-14-92

- | | ACCEPT | REJECT | N/A |
|--|--------|--------|----------|
| 1. VERIFICATION INSPECTION | | | |
| - FOR EACH GROUP OF DRUMS WITH LIKE MATERIALS, ONE SAMPLE OR COMPOSITE FOR EVERY THREE DRUMS IS COLLECTED AND ANALYZED PER SAMPLING AND ANALYSIS PLAN. | _____ | _____ | <u>✓</u> |
| - FOR EACH BULKED COMPATIBLE AND INDIVIDUAL INCOMPATIBLE WASTE SAMPLE IS COLLECTED FOR ANALYSIS FOR DISPOSAL. | _____ | _____ | <u>✓</u> |

2. DUST CONTROL

ACTION TAKEN

NONE

3. LOCATION (APPROXIMATE)

STAGING AREA DRUM # 84

4. REMARKS FILLED OUT DRUM PROFILE FORM TO SEND
TO CHEM WASTE BY OVERNIGHT CARRIER. CHEM
WASTE SALES REP WILL TRY TO EXPEDITE THE
APPROVAL OF ALL 3 DRUMS. A COPY OF THE
PROFILE IS ATTACHED.

SEP 15 1992



INSPECTOR

Fredrick J. Mashe

DATE

9-14-92

REVIEWED BY

Jonathan Brandes

DATE

9/15/92

PLACEMENT OF ONSITE FILL, OFFSITE FILL
AND STABILIZED MATERIAL ON THE CELA

FORM A-5

SHEET 1 OF 1
INSPECTION DATE 7-30

1. MATERIAL

- ONSITE AND OFFSITE FILL MATERIAL
STABILIZED AS REQUIRED.

ACCEPT REJECT N/A

✓

2. PLACEMENT

- MAXIMUM LOOSE LIFT OF 12 INCHES.
- LAYER OF FILL IS FREE OF
EXCESSIVE RUTS.
- SURVEYOR VERIFY SLOPES, CONFIGURATION
AND DIMENSIONS IN ACCORDANCE WITH
DRAWINGS AND SPECIFICATION.

✓

✓

✓

3. VERIFICATION TESTING

- 1 UNCONFINED COMPRESSIVE STRENGTH
TEST FOR EACH 500 CY OR EACH
AREA COMPLETED IN ONE DAY
WHICHEVER IS LESS.

 ✓

4. DUST CONTROL

5. REMARKS

PLACING MATERIAL EXCAVATED FROM REFINERY AREAS B & E
IN NORTH SLOPE AREA

AUG 31 1992



INSPECTOR

Chris Boly

DATE 8-31-92

REVIEWED BY

Colin P. Sutton

DATE 8/31/92

PLACEMENT OF ONSITE FILL, OFFSITE FILL
AND STABILIZED MATERIAL ON THE CELA

FORM A-5
SHEET 1 OF 1
INSPECTION DATE 8-10-92

| | ACCEPT | REJECT | N/A |
|---|--|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - LAYER OF FILL IS FREE OF EXCESSIVE RUTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4. DUST CONTROL | | | |
| 5. REMARKS | <u>PLACED MATERIAL EXCAVATED FROM REFINERY AREA "A"</u> <u>IN NORTH SLOPE AREA.</u> | | |

AUG 31 1992



INSPECTOR Chris Bailey

DATE 8-31-92

REVIEWED BY Collin P. Sakow

DATE 8/31/92

PLACEMENT OF ONSITE FILL, OFFSITE FILL
AND STABILIZED MATERIAL ON THE CELA

FORM A-5
SHEET 1 OF 1
INSPECTION DATE 8-11-92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - LAYER OF FILL IS FREE OF EXCESSIVE RUTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

4. DUST CONTROL _____

5. REMARKS _____

PLACING MATERIAL EXCAVATED FROM REFINERY AREA A
IN NORTH SLOPE MEA.



INSPECTOR Chris Barty

DATE 8-31-92

REVIEWED BY Colin P. Sullivan

DATE 8/31/92

PLACEMENT OF ONSITE FILL, OFFSITE FILL
AND STABILIZED MATERIAL ON THE CELA

FORM A-5
SHEET 1 OF 1
INSPECTION DATE 8-12-92

ACCEPT REJECT N/A

1. MATERIAL

- ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED.

✓

2. PLACEMENT

- MAXIMUM LOOSE LIFT OF 12 INCHES.
- LAYER OF FILL IS FREE OF EXCESSIVE RUTS.
- SURVEYOR VERIFY SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION.

✓

✓

✓

3. VERIFICATION TESTING

- 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS.

 ✓

4. DUST CONTROL

5. REMARKS

PLACING MATERIAL EXCAVATED FROM REFINERY AREA "A"
IN NORTH SLOPE AREA.

AUG 31 1992



INSPECTOR

Chris Bailey

DATE 8-31-92

REVIEWED BY

Colin P. Jackson

DATE 8/31/92

PLACEMENT OF ONSITE FILL, OFFSITE FILL
AND STABILIZED MATERIAL ON THE CELA

FORM A-5

SHEET 1 OF 1
INSPECTION DATE 8-13-92

| | ACCEPT | REJECT | N/A |
|---|---|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - LAYER OF FILL IS FREE OF EXCESSIVE RUTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4. DUST CONTROL | | | |
| 5. REMARKS | <u>PLACING MATERIAL FROM REFINERY AREA A</u> <u>IN NORTH SLOPE AREA.</u> | | |

AUG 31 1992



INSPECTOR

Chris Brady

DATE 8-31-92

REVIEWED BY

William P. Sullivan

DATE 8/31/92

PLACEMENT OF ONSITE FILL, OFFSITE FILL
AND STABILIZED MATERIAL ON THE CELA

FORM A-5

SHEET 1 OF 1

INSPECTION DATE 8-14-92

ACCEPT REJECT N/A

1. MATERIAL

- ONSITE AND OFFSITE FILL MATERIAL
STABILIZED AS REQUIRED.

✓

2. PLACEMENT

- MAXIMUM LOOSE LIFT OF 12 INCHES.
- LAYER OF FILL IS FREE OF
EXCESSIVE RUTS.
- SURVEYOR VERIFY SLOPES, CONFIGURATION
AND DIMENSIONS IN ACCORDANCE WITH
DRAWINGS AND SPECIFICATION.

✓

✓

✓

3. VERIFICATION TESTING

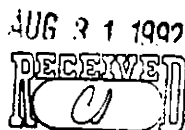
- 1 UNCONFINED COMPRESSIVE STRENGTH
TEST FOR EACH 500 CY OR EACH
AREA COMPLETED IN ONE DAY
WHICHEVER IS LESS.

 ✓

4. DUST CONTROL

5. REMARKS

PLACING MATERIAL FROM REFINERY AREA A
IN NORTH SIDE AREA.



INSPECTOR Chris Bantz

DATE 8-31-92

REVIEWED BY William P. Perkon

DATE 8/31/92

PLACEMENT OF ONSITE FILL, OFFSITE FILL
AND STABILIZED MATERIAL ON THE CELA

FORM A-5

SHEET 1 OF 1
INSPECTION DATE 8-15-92

1. MATERIAL

- ONSITE AND OFFSITE FILL MATERIAL
STABILIZED AS REQUIRED.

ACCEPT REJECT N/A

✓

2. PLACEMENT

- MAXIMUM LOOSE LIFT OF 12 INCHES.
- LAYER OF FILL IS FREE OF
EXCESSIVE RUTS.
- SURVEYOR VERIFY SLOPES, CONFIGURATION
AND DIMENSIONS IN ACCORDANCE WITH
DRAWINGS AND SPECIFICATION.

✓

✓

✓

3. VERIFICATION TESTING

- 1 UNCONFINED COMPRESSIVE STRENGTH
TEST FOR EACH 500 CY OR EACH
AREA COMPLETED IN ONE DAY
WHICHEVER IS LESS.

 ✓

4. DUST CONTROL

5. REMARKS

PLACING MATERIAL FROM REFINERY AREA "A"
IN NORTH SLOPE AREA

AUG 31 1992
RECEIVED
RCD

INSPECTOR

Chris Baly

DATE 8-31-92

REVIEWED BY

Colin P. Burton

DATE 8/31/92

PLACEMENT OF ONSITE FILL, OFFSITE FILL
AND STABILIZED MATERIAL ON THE CELA

FORM A-5

SHEET 1 OF 1

INSPECTION DATE 8-17-92

| | ACCEPT | REJECT | N/A |
|---|--|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - LAYER OF FILL IS FREE OF EXCESSIVE RUTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4. DUST CONTROL | <input type="checkbox"/> | | |
| 5. REMARKS | <u>PLACED MATERIAL FROM REFINERY AREA A IN</u> <u>NORTH SLOPE AREA.</u> | | |

AUG 31 1992



INSPECTOR

Chris Barty

DATE 8-31-92

REVIEWED BY

Colvin P. Siskow

DATE 8/31/92

PLACEMENT OF ONSITE FILL, OFFSITE FILL
AND STABILIZED MATERIAL ON THE CELA

FORM A-5

SHEET 1 OF 1
INSPECTION DATE 8-18-92

1. MATERIAL

- ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED.

ACCEPT REJECT N/A

✓

2. PLACEMENT

- MAXIMUM LOOSE LIFT OF 12 INCHES.
- LAYER OF FILL IS FREE OF EXCESSIVE RUTS.
- SURVEYOR VERIFY SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION.

✓

✓

✓

3. VERIFICATION TESTING

- 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS.

 ✓

4. DUST CONTROL

5. REMARKS

PLACED MATERIAL EXCAVATED FROM REFINERY AREAS A &
D IN THE NORTH SLOPE AREA.



INSPECTOR

Chris Barty

DATE 8-31-92

REVIEWED BY

Collin P. Siskow

DATE 8/31/92

PLACEMENT OF ONSITE FILL, OFFSITE FILL
AND STABILIZED MATERIAL ON THE CELA

FORM A-5
SHEET 1 OF 1
INSPECTION DATE 8-19-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - LAYER OF FILL IS FREE OF EXCESSIVE RUTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4. DUST CONTROL | | | |
| 5. REMARKS | | | |
| <u>PLACED MATERIAL EXCAVATED FROM REFINERY AREA D</u> | | | |
| <u>IN NORTH SIDE AREA.</u> | | | |
| | | | |
| | | | |

AUG 31 1992



INSPECTOR

Chris Bady

DATE 8-21-92

REVIEWED BY

William F. Serkow

DATE 8/31/92

PLACEMENT OF ONSITE FILL, OFFSITE FILL
AND STABILIZED MATERIAL ON THE CELA

FORM A-5
SHEET 1 OF 1
INSPECTION DATE 8-20-92

| | ACCEPT | REJECT | N/A |
|--|--|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - LAYER OF FILL IS FREE OF EXCESSIVE RUTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4. DUST CONTROL | | | |
| 5. REMARKS | <u>PLACED MATERIAL EXCAVATED FROM REFINERY</u> <u>AREA C IN NORTH SLOPE AREA.</u> | | |



INSPECTOR Chris Banta DATE 8-31-92
REVIEWED BY Colin P. Jackson DATE 8/31/92

FORM A-5

SHEET 1 OF 1INSPECTION DATE 8-20-92

PLACEMENT OF ONSITE FILL, OFFSITE FILL
AND STABILIZED MATERIAL ON THE CELA

ACCEPT REJECT N/A

1. MATERIAL

- ONSITE AND OFFSITE FILL MATERIAL
STABILIZED AS REQUIRED.

✓

2. PLACEMENT

- MAXIMUM LOOSE LIFT OF 12 INCHES.
- LAYER OF FILL IS FREE OF
EXCESSIVE RUTS.
- SURVEYOR VERIFY SLOPES, CONFIGURATION
AND DIMENSIONS IN ACCORDANCE WITH
DRAWINGS AND SPECIFICATION.

 ✓

 ✓

 ✓

3. VERIFICATION TESTING

- 1 UNCONFINED COMPRESSIVE STRENGTH
TEST FOR EACH 500 CY OR EACH
AREA COMPLETED IN ONE DAY
WHICHEVER IS LESS.

NO SAMPLES TAKEN

4. DUST CONTROL 5. REMARKS

STABILIZING AREA 1 (COMPLETED IT)

SEP 8 1992



INSPECTOR

Chris Bailey

DATE 9-3-92

REVIEWED BY

Colin P. L. New

DATE 9-3-92

PLACEMENT OF ONSITE FILL, OFFSITE FILL
AND STABILIZED MATERIAL ON THE CELA

FORM A-5
SHEET 1 OF 1
INSPECTION DATE 8-21-92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - LAYER OF FILL IS FREE OF EXCESSIVE RUTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4. DUST CONTROL | | | |
| 5. REMARKS | | | |
| <u>PLACED MATERIAL EXCAVATED FROM REFINERY</u> | | | |
| <u>AREA F IN NORTH SLOPE AREA.</u> | | | |
| | | | |
| | | | |

AUG 31 1992



INSPECTOR Chris Bick DATE 8-31-92
REVIEWED BY William F. Larkin DATE 8/31/92

PLACEMENT OF ONSITE FILL, OFFSITE FILL
AND STABILIZED MATERIAL ON THE CELA

FORM A-5
SHEET 1 OF 1
INSPECTION DATE 8-21-92

ACCEPT REJECT N/A

1. MATERIAL

- ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED.

✓

2. PLACEMENT

- MAXIMUM LOOSE LIFT OF 12 INCHES.
- LAYER OF FILL IS FREE OF EXCESSIVE RUTS.
- SURVEYOR VERIFY SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION.

 ✓
 ✓
 ✓

3. VERIFICATION TESTING

- 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS.

NO SAMPLES TAKEN

4. DUST CONTROL

5. REMARKS

STABILIZING AREAS 3 & 5 - COMPLETED BOTH

SEP 3 1992



INSPECTOR

Chris Bady

DATE 1-3-92

REVIEWED BY

Colin P. Schow

DATE 9-3-92

SHEET 1 OF 1
INSPECTION DATE 8-22-92

| ACCEPT | REJECT | N/A |
|--------|--------|-----|
|--------|--------|-----|

- ONSITE AND OFFSITE FILL MATERIAL
STABILIZED AS REQUIRED.

- MAXIMUM LOOSE LIFT OF 12 INCHES.

- LAYER OF FILL IS FREE OF EXCESSIVE RUTS.

- SURVEYOR VERIFY SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION.

- 1 UNCONFINED COMPRESSIVE STRENGTH
TEST FOR EACH 500 CY OR EACH
AREA COMPLETED IN ONE DAY
WHICHEVER IS LESS.

- #### 4. DUST CONTROL

5. REMARKS

STABILIZING AREA 2

SEP 3 1992

RECEIVED

INSPECTOR

DATE 9-3-92

REVIEWED BY

DATE 9-3-92

PLACEMENT OF ONSITE FILL, OFFSITE FILL
AND STABILIZED MATERIAL ON THE CELA

FORM A-5

SHEET 1 OF 1

INSPECTION DATE 8-24-92

| | ACCEPT | REJECT | N/A |
|--|---|---------------|---------------|
| 1. MATERIAL | | | |
| - ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED. | <u>✓</u> | <u> </u> | <u> </u> |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES. | <u>✓</u> | <u> </u> | <u> </u> |
| - LAYER OF FILL IS FREE OF EXCESSIVE RUTS. | <u>✓</u> | <u> </u> | <u> </u> |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION. | <u>✓</u> | <u> </u> | <u> </u> |
| 3. VERIFICATION TESTING | | | |
| - 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | <u> </u> | <u> </u> | <u>✓</u> |
| 4. DUST CONTROL | <u> </u> | | |
| 5. REMARKS | <u> </u> | | |
| | <u>PLACED MATERIAL EXCAVATED FROM REFINERY AREA</u> | | |
| | <u>6 IN NORTH SLOPE AREA.</u> | | |
| | <u> </u> | | |
| | <u> </u> | | |

AUG 31 1992



INSPECTOR

Chris Bailey

DATE 8-24-92

REVIEWED BY

Collin R. Lukan

DATE 8/31/92

PLACEMENT OF ONSITE FILL, OFFSITE FILL
AND STABILIZED MATERIAL ON THE CELA

FORM A-5

SHEET 1 OF 1

INSPECTION DATE 8-24-92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - LAYER OF FILL IS FREE OF EXCESSIVE RUTS. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | <u>NO SAMPLES TAKEN</u> | | |
| 4. DUST CONTROL | | | |
| 5. REMARKS | | | |
| <u>STABILIZING AREA 2</u> | | | |

SEP 3 1992



INSPECTOR Chris Bailey

DATE 9-3-92

REVIEWED BY Colin P. Jackson

DATE 9-3-92

PLACEMENT OF ONSITE FILL, OFFSITE FILL
AND STABILIZED MATERIAL ON THE CELA

FORM A-5
SHEET 1 OF 1
INSPECTION DATE 8-25-92

1. MATERIAL

- ONSITE AND OFFSITE FILL MATERIAL
STABILIZED AS REQUIRED.

ACCEPT REJECT N/A

✓

2. PLACEMENT

- MAXIMUM LOOSE LIFT OF 12 INCHES.
- LAYER OF FILL IS FREE OF
EXCESSIVE RUTS.
- SURVEYOR VERIFY SLOPES, CONFIGURATION
AND DIMENSIONS IN ACCORDANCE WITH
DRAWINGS AND SPECIFICATION.

 ✓

 ✓

 ✓

3. VERIFICATION TESTING

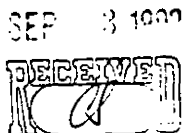
- 1 UNCONFINED COMPRESSIVE STRENGTH
TEST FOR EACH 500 CY OR EACH
AREA COMPLETED IN ONE DAY
WHICHEVER IS LESS.

NO SAMPLES TAKEN

4. DUST CONTROL

5. REMARKS

STABILIZING AREAS 2 & 4



INSPECTOR

Chris Bantz

DATE 9-3-92

REVIEWED BY

Colleen R. Sullivan

DATE 9-3-92

PLACEMENT OF ONSITE FILL, OFFSITE FILL
AND STABILIZED MATERIAL ON THE CELA

FORM A-5

SHEET 1 OF 1
INSPECTION DATE 8-26-92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - LAYER OF FILL IS FREE OF EXCESSIVE RUTS. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | <u>NO SAMPLES TAKEN</u> | | |
| 4. DUST CONTROL | | | |
| 5. REMARKS | | | |
| <u>STABILIZING AREAS 2, 4 & 4B - COMPLETED AREA 4</u> | | | |

SEP 6 1992



INSPECTOR Chris Bailey DATE 9-3-92
REVIEWED BY Colin P. Brown DATE 9-3-92

FORM A-5
SHEET 1 OF 1
INSPECTION DATE 8-27-92

1. MATERIAL

 ✓

NO SAMPLES TAKEN

5. REMARKS _____

COMPLETED AREAS 2, 2B, 4B



DATE 9-3-92

DATE 9-3-92

PLACEMENT OF ONSITE FILL, OFFSITE FILL
AND STABILIZED MATERIAL ON THE CELA

FORM A-5

SHEET 1 OF 1
INSPECTION DATE 8-28-92

1. MATERIAL

- ONSITE AND OFFSITE FILL MATERIAL
STABILIZED AS REQUIRED.

ACCEPT REJECT N/A

✓

2. PLACEMENT

- MAXIMUM LOOSE LIFT OF 12 INCHES.
- LAYER OF FILL IS FREE OF
EXCESSIVE RUTS.
- SURVEYOR VERIFY SLOPES, CONFIGURATION
AND DIMENSIONS IN ACCORDANCE WITH
DRAWINGS AND SPECIFICATION.

 ✓
 ✓
 ✓

3. VERIFICATION TESTING

- 1 UNCONFINED COMPRESSIVE STRENGTH
TEST FOR EACH 500 CY OR EACH
AREA COMPLETED IN ONE DAY
WHICHEVER IS LESS.

NO SAMPLES TAKEN

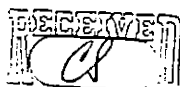
4. DUST CONTROL

5. REMARKS

STABILIZING AREAS 6, 7, 8 & 10

COMPLETED AREAS 6, 7 & 10

SEP 3 1992



INSPECTOR

Chris Batty

DATE 9-3-92

REVIEWED BY

Colin P. Sisk

DATE 9-3-92

PLACEMENT OF ONSITE FILL, OFFSITE FILL
AND STABILIZED MATERIAL ON THE CELA

FORM A-5
SHEET 1 OF 1
INSPECTION DATE 8-29-92

ACCEPT REJECT N/A

1. MATERIAL

- ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED.

✓

2. PLACEMENT

- MAXIMUM LOOSE LIFT OF 12 INCHES.
- LAYER OF FILL IS FREE OF EXCESSIVE RUTS.
- SURVEYOR VERIFY SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION.

 ✓
 ✓
 ✓

3. VERIFICATION TESTING

- 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS.

NO SAMPLES TAKEN

4. DUST CONTROL

5. REMARKS

STABILIZING AREAS B & 9

COMPLETED AREAS B & 9



INSPECTOR

Chris Batty

DATE 9-3-92

REVIEWED BY

Collin F. Johnson

DATE 9-3-92

PLACEMENT OF ONSITE FILL, OFFSITE FILL
AND STABILIZED MATERIAL ON THE CELA

FORM A-5
SHEET 1 OF 1
INSPECTION DATE 8-31-92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - LAYER OF FILL IS FREE OF EXCESSIVE RUTS. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | <u>NO SAMPLES TAKEN</u> | | |
| 4. DUST CONTROL | | | |
| 5. REMARKS | | | |
| <u>STABILIZING AREAS 11 & 12</u> | | | |

SEP 4 1992



INSPECTOR Chris Banta DATE 9-3-92
REVIEWED BY Alan P. Lukow DATE 9-3-92

PLACEMENT OF ONSITE FILL, OFFSITE FILL
AND STABILIZED MATERIAL ON THE CELA

FORM A-5

SHEET _____ OF _____
INSPECTION DATE 9-1-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - LAYER OF FILL IS FREE OF EXCESSIVE RUTS. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | | | |
| | <u>TESTING IN PHASES</u> | | |

4. DUST CONTROL _____

5. REMARKS _____

STABILIZING AREAS 11 & 12

SAMPLED 3 LOCATIONS - 4000 IN AREA 7, 4600 IN

AREA 1, AND 4750 IN AREA 8.



INSPECTOR Chris Bata DATE 9-3-92

REVIEWED BY Allen P. Shown DATE 9-3-92

PLACEMENT OF ONSITE FILL, OFFSITE FILL
AND STABILIZED MATERIAL ON THE CELA

FORM A-5
SHEET 1 OF 1
INSPECTION DATE 9-1-92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - LAYER OF FILL IS FREE OF EXCESSIVE RUTS. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | | | <u>TESTING IN PROGRESS</u> |
| 4. DUST CONTROL | | | |
| 5. REMARKS | | | |
| <u>SAMPLED AT 3 LOCATIONS TODAY:</u> | | | |
| <u>N600</u> | | | |
| <u>H600</u> | | | |
| <u>E750</u> | | | |

SEP 1 1992



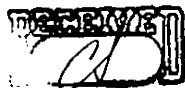
INSPECTOR Chris Bailey DATE 9-1-92
REVIEWED BY Collin P. Johnson DATE 9-2-92

PLACEMENT OF ONSITE FILL, OFFSITE FILL
AND STABILIZED MATERIAL ON THE CELA

FORM A-5
SHEET 1 OF 1
INSPECTION DATE 9-2-92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - LAYER OF FILL IS FREE OF EXCESSIVE RUTS. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | <u>TESTS IN PROGRESS</u> | | |
| 4. DUST CONTROL | | | |
| 5. REMARKS | | | |
| <u>STABILIZING AREAS 13 & 14</u> | | | |
| <u>- COMPLETED AREA 13</u> | | | |
| | | | |
| | | | |

SEP 3 1992



INSPECTOR

Chris Banta

DATE 9-2-92

REVIEWED BY

Collin P. Jackson

DATE 9-3-92



FORM A-5
SHEET 1 OF 1
INSPECTION DATE 9-3-92

PLACEMENT OF ONSITE FILL, OFFSITE FILL
AND STABILIZED MATERIAL ON THE CELA

| | ACCEPT | REJECT | N/A |
|---|--------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - LAYER OF FILL IS FREE OF EXCESSIVE RUTS. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | | | |
| | <u>TESTING IN PROGRESS</u> | | |
| 4. DUST CONTROL | <u>NONE REQUIRED</u> | | |
| 5. REMARKS | <u>STABILIZING AREAS 12 & 14</u> | | |
| | <u>- COMPLETED AREA 14</u> | | |
| | | | |
| | | | |
| | | | |
| | | | |

INSPECTOR Chris. Galt DATE 9-3-92
REVIEWED BY Jonathan E. Brandes DATE 9/4/92

PLACEMENT OF ONSITE FILL, OFFSITE FILL
AND STABILIZED MATERIAL ON THE CELA

FORM A-5

SHEET 1 OF 1

INSPECTION DATE 9-9-92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - LAYER OF FILL IS FREE OF EXCESSIVE RUTS. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | | | |
| | SAMPLES NOT YET TAKEN | | |
| 4. DUST CONTROL <u>AS NEEDED</u> | | | |
| 5. REMARKS | | | |
| <u>STABILIZING AREA #15</u> | | | |
| <u>ALL OTHER AREAS COMPLETED</u> | | | |



INSPECTOR

Chris Barty

DATE 9-9-92

REVIEWED BY

Jonathan E. Brandes

DATE 9/9/92

PLACEMENT OF ONSITE FILL, OFFSITE FILL
AND STABILIZED MATERIAL ON THE CELA

FORM A-5
SHEET 1 OF 1
INSPECTION DATE 9-9-92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - LAYER OF FILL IS FREE OF EXCESSIVE RUTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | | | <u>SAMPLES SENT OUT</u> |
| 4. DUST CONTROL <u>NONE REQUIRED</u> | | | |
| 5. REMARKS <u>STABILIZED AREA #16.</u> | | | |
| <u>SHELBY TUBES TAKEN AT F-800, IN AREA #8, AND</u> | | | |
| <u>F-700 AND G-650 IN AREA #6, AND I-600 IN AREA 7.</u> | | | |
| | | | |
| | | | |

SEP 10 1992



INSPECTOR

Chris B. Bantz

DATE 9-9-92

REVIEWED BY

Jonathan Brumley

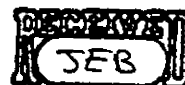
DATE 9/10/92

PLACEMENT OF ONSITE FILL, OFFSITE FILL
AND STABILIZED MATERIAL ON THE CELA

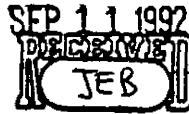
FORM A-5
SHEET 1 OF 1
INSPECTION DATE 9-8-92

| | ACCEPT | REJECT | N/A |
|---|---------------|---------------|------------------------------|
| 1. MATERIAL | | | |
| - ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED. | <u>✓</u> | <u> </u> | <u> </u> |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES. | <u> </u> | <u> </u> | <u>✓</u> |
| - LAYER OF FILL IS FREE OF EXCESSIVE RUTS. | <u> </u> | <u> </u> | <u>✓</u> |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION. | <u> </u> | <u> </u> | <u>✓</u> |
| 3. VERIFICATION TESTING | | | |
| - 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | | | <u>SAMPLES NOT YET TAKEN</u> |
| 4. DUST CONTROL <u>AS NEEDED</u> | | | |
| 5. REMARKS | | | |
| <u>STABILIZING AREAS # 15 & #16</u> | | | |
| <u>COMPLETED AREA # 15</u> | | | |
| | | | |
| | | | |
| | | | |

SEP 10 1992



INSPECTOR Chris Batty DATE 9-8-92
REVIEWED BY Jonathan Brandes DATE 9/10/92



FORM A-5
SHEET 1 OF 1
INSPECTION DATE 9-10-92

PLACEMENT OF ONSITE FILL, OFFSITE FILL
AND STABILIZED MATERIAL ON THE CELA

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - LAYER OF FILL IS FREE OF EXCESSIVE RUTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | | | |
| | <u>SAMPLES BEING TESTED</u> | | |
| 4. DUST CONTROL <u>NONE</u> | | | |
| 5. REMARKS <u>STABILIZED AREA #17, AND COMPLETED.</u> | | | |
| <u>STARTED STABILIZATION IN AREAS 18 & 19.</u> | | | |
| | | | |
| | | | |
| | | | |

INSPECTOR

Frederick J. Maslito

DATE 9-10-92

REVIEWED BY

Jonathan Brandes

DATE 9/11/92

PLACEMENT OF ONSITE FILL, OFFSITE FILL
AND STABILIZED MATERIAL ON THE CELA

FORM A-5
SHEET 1 OF 1
INSPECTION DATE 9-11-92

1. MATERIAL

- ONSITE AND OFFSITE FILL MATERIAL
STABILIZED AS REQUIRED.

ACCEPT REJECT N/A

✓

2. PLACEMENT

- MAXIMUM LOOSE LIFT OF 12 INCHES.
- LAYER OF FILL IS FREE OF
EXCESSIVE RUTS.
- SURVEYOR VERIFY SLOPES, CONFIGURATION
AND DIMENSIONS IN ACCORDANCE WITH
DRAWINGS AND SPECIFICATION.

✓

✓

✓

3. VERIFICATION TESTING

- 1 UNCONFINED COMPRESSIVE STRENGTH
TEST FOR EACH 500 CY OR EACH
AREA COMPLETED IN ONE DAY
WHICHEVER IS LESS.

SAMPLES TO BE TAKEN

4. DUST CONTROL NONE REQUIRED

5. REMARKS RECEIVED RESULTS OF UNCONFINED COMPRESSIVE

STRENGTH AND DISCUSSED THEM WITH ROGER NORTH.

THE RESULTS WILL BE SUBMITTED ON MONDAY.

STABILIZING AREA IS WHEN EXCAVATOR BROKE DOWN

SEP 11 1992



INSPECTOR

Frederick S. Mastitis

DATE 9-11-92

REVIEWED BY

Jonathan Brandes

DATE 9/14/92

PLACEMENT OF ONSITE FILL, OFFSITE FILL
AND STABILIZED MATERIAL ON THE CELA

FORM A-5
SHEET 1 OF 1
INSPECTION DATE 9-12-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|----------------------------|
| 1. MATERIAL | | | |
| - <u>ONSITE</u> AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - LAYER OF FILL IS FREE OF EXCESSIVE RUTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | | | <u>SAMPLES TO BE TAKEN</u> |
| 4. DUST CONTROL <u>NONE REQUIRED</u> | | | |
| 5. REMARKS <u>STABILIZATION WAS PERFORMED IN AREA 16 TO</u> <u>RESTABILIZE WHERE MATERIAL WAS CUT AWAY.</u> | | | |
| | | | |
| | | | |
| | | | |

SEP 14 1992



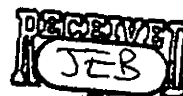
INSPECTOR Frederick J. Marshall DATE 9-12-92
REVIEWED BY Jonathan Brandes DATE 9/14/92

PLACEMENT OF ONSITE FILL, OFFSITE FILL
AND STABILIZED MATERIAL ON THE CELA

FORM A-5
SHEET 1 OF 1
INSPECTION DATE 9-14-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|----------------------------|
| 1. MATERIAL | | | |
| - <u>ONSITE</u> AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - LAYER OF FILL IS FREE OF EXCESSIVE RUTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | | | <u>SAMPLES TO BE TAKEN</u> |
| 4. DUST CONTROL | | | |
| 5. REMARKS <u>PROCTOR PENETROMETER WAS RECEIVED TO HELP DETERMINE</u> <u>UNCONFINED COMPRESSIVE STRENGTH. AREA IS WAS</u> <u>STABILIZED BUT NOT COMPLETED.</u> | | | |

SEP 15 1992



INSPECTOR

Fredrick J. Marshall

DATE 9-14-92

REVIEWED BY

Jonathan Brando

DATE 9/15/92

PLACEMENT OF ONSITE FILL, OFFSITE FILL
AND STABILIZED MATERIAL ON THE CELA

FORM A-5

SHEET 1 OF 1

INSPECTION DATE 9-15-92

1. MATERIAL

- ONSITE AND OFFSITE FILL MATERIAL
STABILIZED AS REQUIRED.

ACCEPT REJECT N/A

✓

2. PLACEMENT

- MAXIMUM LOOSE LIFT OF 12 INCHES.
- LAYER OF FILL IS FREE OF
EXCESSIVE RUTS.
- SURVEYOR VERIFY SLOPES, CONFIGURATION
AND DIMENSIONS IN ACCORDANCE WITH
DRAWINGS AND SPECIFICATION.

✓

✓

✓

3. VERIFICATION TESTING

- 1 UNCONFINED COMPRESSIVE STRENGTH
TEST FOR EACH 500 CY OR EACH
AREA COMPLETED IN ONE DAY
WHICHEVER IS LESS.

SAMPLES TAKEN TODAY
RESULTS SUBMITTED WHEN RECEIVED

4. DUST CONTROL AS NEEDED

5. REMARKS

STABILIZED AREAS 16 & 18 TODAY. TOTAL 6 U.C.S. SAMPLES

FROM FOLLOWING GRID LOCATIONS: N325, E775, N325, E700,

N325, E650, N375, E675, N250, E700, N350, E600

SEP 16 1992



INSPECTOR

Chris Galt

DATE 9-15-92

REVIEWED BY

Jonathan Brundage

DATE 9/16/92

FORM A-5
SHEET 1 OF 1
INSPECTION DATE 9-16-92

PLACEMENT OF ONSITE FILL, OFFSITE FILL
AND STABILIZED MATERIAL ON THE CELA

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|-----------------------------|
| 1. MATERIAL | | | |
| <u>ON</u> SITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - LAYER OF FILL IS FREE OF EXCESSIVE RUTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | | | <u>SAMPLES BEING TESTED</u> |
| 4. DUST CONTROL <u>NONE REQUIRED</u> | | | |
| 5. REMARKS <u>COMPLETED AREAS 20+21 TODAY. STAKED</u> <u>OUT AREAS 20+21.</u> | | | |
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SEP 17 1992



INSPECTOR Fredrick J. Markle DATE 9-16-92
REVIEWED BY Jonathan Branks DATE 9/17/92

PLACEMENT OF ONSITE FILL, OFFSITE FILL
AND STABILIZED MATERIAL ON THE CELA

FORM A-5,
SHEET 1 OF 1
INSPECTION DATE 9-17-92

| | ACCEPT | REJECT | N/A |
|--|----------|---------------|-----------------------------|
| 1. MATERIAL | | | |
| - <u>ONSITE AND OFFSITE FILL MATERIAL</u> STABILIZED AS REQUIRED. | <u>✓</u> | <u> </u> | <u> </u> |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES. | <u>✓</u> | <u> </u> | <u> </u> |
| - LAYER OF FILL IS FREE OF EXCESSIVE RUTS. | <u>✓</u> | <u> </u> | <u> </u> |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION. | <u>✓</u> | <u> </u> | <u> </u> |
| 3. VERIFICATION TESTING | | | |
| - 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | | | <u>SAMPLES BEING TESTED</u> |
| 4. DUST CONTROL | | | |
| 5. REMARKS | | | |
| <u>AREAS #22 & 23 WERE STAKED OUT.</u> | | | |
| <u>STABILIZATION WAS STARTED IN AREA #23.</u> | | | |
| <u>RESULTS OF ALL TESTS TO DATE ATTACHED w/LETTER FROM GTX.</u> | | | |
| <u>PUSHED SHELBY TUBES AT FOLLOWING GRID LOCATIONS: N375, E725,</u> | | | |
| <u>N375, E675 & N325, E700.</u> | | | |

SEP 18 1992



INSPECTOR Fredrick J. Mastita
REVIEWED BY Jonathan Branch

DATE 9-17-92
DATE

PLACEMENT OF ONSITE FILL, OFFSITE FILL
AND STABILIZED MATERIAL ON THE CELA

FORM A-5
SHEET 1 OF 1
INSPECTION DATE 9-18-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| <u>ONSITE</u> AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - LAYER OF FILL IS FREE OF EXCESSIVE RUTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | | | |
| 4. DUST CONTROL <u>NONE</u> | | | |
| 5. REMARKS <u>WORKED AREA #23 WAS NOT COMPLETED.</u> | | | |

SAMPLES TO BE TAKEN, SOME
RESULTS PENDING

SEP 21 1992

RECEIVED
JEB

INSPECTOR

Frederick J. Mast

DATE 9-18-92

REVIEWED BY

Jonathan Baneles

DATE 9/21/92

PLACEMENT OF ONSITE FILL, OFFSITE FILL
AND STABILIZED MATERIAL ON THE CELA

FORM A-5
SHEET 1 OF 1
INSPECTION DATE 9-18-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| <u>ONSITE</u> AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - LAYER OF FILL IS FREE OF EXCESSIVE RUTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | | | <u>TESTS IN PROGRESS</u> |
| 4. DUST CONTROL <u>AS NEEDED</u> | | | |
| 5. REMARKS | | | |
| <u>STABILIZING AREA 23</u> | | | |
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| | | | |

SEP 21 1992



INSPECTOR Chris Bales DATE 9-21-92
REVIEWED BY Jonathan Brandes DATE 9/21/92

PLACEMENT OF ONSITE FILL, OFFSITE FILL
AND STABILIZED MATERIAL ON THE CELA

FORM A-5
SHEET 1 OF 1
INSPECTION DATE 9-21-92

ACCEPT REJECT N/A

1. MATERIAL

- ONSITE AND OFFSITE FILL MATERIAL
STABILIZED AS REQUIRED.

✓

2. PLACEMENT

- MAXIMUM LOOSE LIFT OF 12 INCHES.
- LAYER OF FILL IS FREE OF
EXCESSIVE RUTS.
- SURVEYOR VERIFY SLOPES, CONFIGURATION
AND DIMENSIONS IN ACCORDANCE WITH
DRAWINGS AND SPECIFICATION.

✓
✓
✓

3. VERIFICATION TESTING

- 1 UNCONFINED COMPRESSIVE STRENGTH
TEST FOR EACH 500 CY OR EACH
AREA COMPLETED IN ONE DAY
WHICHEVER IS LESS.

SAMPLES TAKEN

4. DUST CONTROL NONE REQUIRED

5. REMARKS TOOK 8 SHELBY TUBE SAMPLES 2 EACH FROM
AREAS 12, 13, 19+20. AREA 12 WAS RESTABILIZED. AREA
23 WAS COMPLETED. 3 NEW AREAS WERE LAYED OUT.
24 25+26. AN AREA ON THE WEST SIDE MUST BE LAYED
OUT WHERE P-4 IS SUPPOSED TO BE DRILLED.

SEP 22 1992



INSPECTOR Frederick J. Washburn

DATE 9-21-92

REVIEWED BY Jonathan Beaudet

DATE 9/22/92

PLACEMENT OF ONSITE FILL, OFFSITE FILL
AND STABILIZED MATERIAL ON THE CELA

FORM A-5
SHEET 1 OF 1
INSPECTION DATE 9-22-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|---|
| 1. MATERIAL | | | |
| - <u>ONSITE</u> AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - LAYER OF FILL IS FREE OF EXCESSIVE RUTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | | | MORE SAMPLES TO BE TAKEN RESULTS PENDING |
| 4. DUST CONTROL <u>NONE REQUIRED</u> | | | |
| 5. REMARKS <u>FINISHED AREAS 26, 27 & 22.</u> | | | |
| <u>STARTED STABILIZING AREA 27 AND 24.</u> | | | |
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SEP 23 1992



INSPECTOR Frederick J. Mastete
REVIEWED BY Jonathan Bruneles

DATE 9-22-92
DATE 9/23/92

FORM A-5
SHEET 1 OF 1
INSPECTION DATE 9-23-92

PLACEMENT OF ONSITE FILL, OFFSITE FILL
AND STABILIZED MATERIAL ON THE CELA

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - LAYER OF FILL IS FREE OF EXCESSIVE RUTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | | | |
| 4. DUST CONTROL <u>AS REQUIRED</u> | | | |
| 5. REMARKS <u>STABILIZED 24 & 25, NOT COMPLETED.</u> | | | |
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| | | | |

SAMPLES TAKEN
RESULTS PENDING

SEP 24 1992



INSPECTOR

Frederick J. Mastile

DATE 9-23-92

REVIEWED BY

Jonathan Brando

DATE 9/24/92

PLACEMENT OF ONSITE FILL, OFFSITE FILL
AND STABILIZED MATERIAL ON THE CELA

FORM A-5
SHEET 1 OF 1
INSPECTION DATE 9-24-92

| | ACCEPT | REJECT | N/A |
|---|---|--|---------------|
| 1. MATERIAL | | | |
| - ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED. | <u>✓</u> | <u> </u> | <u> </u> |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES. | <u>✓</u> | <u> </u> | <u> </u> |
| - LAYER OF FILL IS FREE OF EXCESSIVE RUTS. | <u>✓*</u> | <u> </u> | <u> </u> |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION. | <u>✓</u> | <u> </u> | <u> </u> |
| 3. VERIFICATION TESTING | | | |
| - 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | | | |
| | | SHELBY TUBES TAKEN RESULTS FROM OTHERS <u>PENDING</u> | |
| 4. DUST CONTROL | | | |
| 5. REMARKS | <u>WORKED IN AREAS 24+25. NOT COMPLETED</u> | | |

* SOME AREAS WERE RUTTED AND WILL BE EXAMINED IN
THE MORNING. WILL BE RESTABILIZED IF NECESSARY.

SEP 24 1992



INSPECTOR Frederick J. Mastilo

DATE 9-24-92

REVIEWED BY Jonathan Sanchez

DATE 9/26/92

PLACEMENT OF ONSITE FILL, OFFSITE FILL
AND STABILIZED MATERIAL ON THE CELA

FORM A-5
SHEET 1 OF 1
INSPECTION DATE 9-25-92

| | ACCEPT | REJECT | N/A |
|--|----------|---------------|----------------------------|
| 1. MATERIAL | | | |
| - <u>ONSITE</u> AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED. | <u>✓</u> | <u> </u> | <u> </u> |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES. | <u>✓</u> | <u> </u> | <u> </u> |
| - LAYER OF FILL IS FREE OF EXCESSIVE RUTS. | <u>✓</u> | <u> </u> | <u> </u> |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION. | <u>✓</u> | <u> </u> | <u> </u> |
| 3. VERIFICATION TESTING | | | |
| - 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | | | <u>WAITING FOR RESULTS</u> |
| 4. DUST CONTROL <u>None Required</u> | | | |
| 5. REMARKS <u>Worked in Areas 24 & 25. Completed Area 24.</u> <u>Restabilized and rolled a small portion of Area 9.</u> | | | |
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SEP 25 1992
RECEIVED
JEB

INSPECTOR Frederick J. Mastitis DATE 9-25-92
REVIEWED BY Jonathan Brandes DATE 9/26/92

PLACEMENT OF ONSITE FILL, OFFSITE FILL
AND STABILIZED MATERIAL ON THE CELA

FORM A-5

SHEET 1 OF 1

INSPECTION DATE 9-26-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|----------------------------|
| 1. MATERIAL | | | |
| <u>ONSITE</u> AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - LAYER OF FILL IS FREE OF EXCESSIVE RUTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | | | <u>TESTING IN PROGRESS</u> |
| 4. DUST CONTROL <u>NONE REQUIRED</u> | | | |
| 5. REMARKS | | | |
| <u>- STABILIZING AREA No. 25</u> | | | |
| <u>- TOOK SHELVY TROES FROM AREAS 23, 15 & 1</u> | | | |
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| | | | |
| | | | |

SEP 28 1992



INSPECTOR

Chris Banta

DATE 9-26-92

REVIEWED BY

Jonathan Brando

DATE 9/28/92

PLACEMENT OF ONSITE FILL, OFFSITE FILL
AND STABILIZED MATERIAL ON THE CELA

FORM A-5
SHEET 1 OF 1
INSPECTION DATE 9-29-92

| | ACCEPT | REJECT | N/A |
|---|----------|---------------|--|
| 1. MATERIAL | | | |
| - <u>ONSITE</u> AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED. | <u>✓</u> | <u> </u> | <u> </u> |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES. | <u>✓</u> | <u> </u> | <u> </u> |
| - LAYER OF FILL IS FREE OF EXCESSIVE RUTS. | <u>✓</u> | <u> </u> | <u> </u> |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION. | <u>✓</u> | <u> </u> | <u> </u> |
| 3. VERIFICATION TESTING | | | |
| - 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | | | <u>SAMPLES TAKEN TODAY</u> <u>RESULTS PENDING</u> |
| 4. DUST CONTROL <u>NONE REQUIRED</u> | | | |
| 5. REMARKS <u>SETUP NEW AREA #28 FOR STABILIZATION.</u> <u>AREA #25 WAS COMPLETED. PROOF ROLLING IS BEING</u> <u>PERFORMED.</u> | | | |
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SEP 29 1992



INSPECTOR

Frederick J. Mastle

DATE

REVIEWED BY

Collier L. Sutton

DATE

9/29/92

PLACEMENT OF ONSITE FILL, OFFSITE FILL
AND STABILIZED MATERIAL ON THE CELA

FORM A-5
SHEET 1 OF 1
INSPECTION DATE 9-29-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - LAYER OF FILL IS FREE OF EXCESSIVE RUTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | | | |
| | TAKEN - AWAITING RESULTS. | | |
| 4. DUST CONTROL <u>NONE REQUIRED</u> | | | |
| 5. REMARKS <u>LAYED OUT AREA #299 BETWEEN N 550 + N 650</u> <u>AND EAST 790 TO EAST 860. WORKED AREAS 28 + 29</u> <u>AND DID SOME RESTABILIZATION.</u> | | | |
| | | | |
| | | | |



INSPECTOR Fredrick J. Martello
REVIEWED BY Colin P. Skow

DATE 9-29-92
DATE 9/30/92

PLACEMENT OF ONSITE FILL, OFFSITE FILL
AND STABILIZED MATERIAL ON THE CELA

FORM A-5
SHEET 1 OF 1
INSPECTION DATE 9-30-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|----------------------------|
| 1. MATERIAL | | | |
| - ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - LAYER OF FILL IS FREE OF EXCESSIVE RUTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | | | <u>TESTING IN PROGRESS</u> |
| 4. DUST CONTROL <u>None Required</u> | | | |
| 5. REMARKS <u>STABILIZED AREAS 28 & 29.</u> | | | |
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RECEIVED
OCT 01 1992

INSPECTOR Chris Bates DATE 9-30-92
REVIEWED BY Collin P. Swanson DATE 10/1/92

PLACEMENT OF ONSITE FILL, OFFSITE FILL
AND STABILIZED MATERIAL ON THE CELA

FORM A-5
SHEET 1 OF 1
INSPECTION DATE 10-1-92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|----------------------------|
| 1. MATERIAL | | | |
| - ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - LAYER OF FILL IS FREE OF EXCESSIVE RUTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | | | <u>TESTING IN PROGRESS</u> |
| 4. DUST CONTROL <u>N/A</u> | | | |
| 5. REMARKS | | | |
| <u>COMPLETED AREAS 28 & 29 WITH MARK</u> | | | |
| <u>NEW AREAS IN A.M.</u> | | | |
| | | | |
| | | | |

OCT 02 1992



INSPECTOR Chris Budy DATE 10-1-92
REVIEWED BY Colin P. Swanson DATE 10/2/92

PLACEMENT OF ONSITE FILL, OFFSITE FILL
AND STABILIZED MATERIAL ON THE CELA

FORM A-5
SHEET 1 OF 1
INSPECTION DATE 10-2-92

| | ACCEPT | REJECT | N/A |
|---|----------|---------------|--------------------------------------|
| 1. MATERIAL | | | |
| - ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED. | <u>✓</u> | <u> </u> | <u> </u> |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES. | <u>✓</u> | <u> </u> | <u> </u> |
| - LAYER OF FILL IS FREE OF EXCESSIVE RUTS. | <u>✓</u> | <u> </u> | <u> </u> |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION. | <u>✓</u> | <u> </u> | <u> </u> |
| 3. VERIFICATION TESTING | | | |
| - 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | | | <u>TAKEN SAMPLES RESULTS PENDING</u> |
| 4. DUST CONTROL <u>NONE REQUIRED</u> | | | |
| 5. REMARKS <u>ALL STABILIZATION AREAS WHICH HAVE BEEN LAYED OUT. NEW AREAS WILL BE LAYED OUT AS THEY ARE DISCOVERED. RESTABILIZATION WILL CONTINUE ON AN AS NEEDED BASIS.</u> | | | |

OCT 05 1992



INSPECTOR

Frederick J. Martello

DATE 10-2-92

REVIEWED BY

Colin P. Lukan

DATE 10/5/92

PLACEMENT OF ONSITE FILL, OFFSITE FILL
AND STABILIZED MATERIAL ON THE CELA

FORM A-5
SHEET 1 OF 1
INSPECTION DATE 10-5-92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - LAYER OF FILL IS FREE OF EXCESSIVE RUTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | | | |
| | RESULTS PENDING | | |
| 4. DUST CONTROL <u>NONE REQUIRED</u> | | | |
| 5. REMARKS <u>ONLY RESTABILIZATION WAS PERFORMED.</u> | | | |
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| | | | |
| | | | |

OCT 05 1992

DECEMBER

aj

INSPECTOR

Frederick J. Mastitis

DATE 10-3-92

REVIEWED BY

Collin L. Johnson

DATE 10/5/92

PLACEMENT OF GAS VENTING LAYER
AND VENTING PIPES

FORM A-6
SHEET 6 OF 1
INSPECTION DATE 10-5-92

ACCEPT REJECT N/A

1. MATERIAL

- CRUSHED STONE AND SAND OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED FOR GEOTEXTILE AND POLYETHYLENE PIPES. (ATTACH COPY).

| | | |
|---|--|--|
| ✓ | | |
| ✓ | | |

2. PLACEMENT

- JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION.
- FINAL IN PLACE LOCATION AND THICKNESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS.
- LOCATION AND ELEVATIONS OF GAS VENTING PIPES ARE SHOWN ON THE DRAWING.
- LOOSE LIFT THICKNESS LESS THAN 8".
- GEOTEXTILE FABRIC IS LAPPED AT LEAST 18 INCHES.

| | | |
|---|--|---|
| | | ✓ |
| ✓ | | |
| | | ✓ |
| | | ✓ |
| | | ✓ |

3. DUST CONTROL NONE REQUIRED

4. LOCATION (APPROXIMATE) TS 700 PLACED TO S LINE (N 880)

5. REMARKS STONE WAS PLACED AND SPREAD ON THE TS 700 ALREADY PLACED.

INSPECTOR

Frederick Martini

DATE 10-5-92

REVIEWED BY

Collin P. Suhon

DATE 10/7/92

OCT 06 1992



PLACEMENT OF ONSITE FILL, OFFSITE FILL
AND STABILIZED MATERIAL ON THE CELA

FORM A-3
SHEET 1 OF 1
INSPECTION DATE 10-6-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - LAYER OF FILL IS FREE OF EXCESSIVE RUTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | | | <u>RESULTS PENDING</u> |
| 4. DUST CONTROL <u>NONE REQUIRED</u> | | | |
| 5. REMARKS <u>LAYED OUT AREA #31 ON THE EAST SIDE.</u> <u>AREA #30 WAS COMPLETED. SHELBY TUBES WILL</u> <u>BE TAKEN 10-7-92.</u> | | | |

OCT 07 1992



INSPECTOR Frederick J. Mastilo

DATE 10-6-92

REVIEWED BY Colin F. Johnson

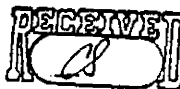
DATE 10/7/92

PLACEMENT OF ONSITE FILL, OFFSITE FILL
AND STABILIZED MATERIAL ON THE CELA

FORM A-3
SHEET 1 OF 1
INSPECTION DATE 10-7-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - LAYER OF FILL IS FREE OF EXCESSIVE RUTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. DUST CONTROL <u>NONE REQUIRED</u> | | | |
| 5. REMARKS <u>COMPLETED AREA 31</u> | | | |
| <u>SHELBY TUBES TAKEN AT Q900 & N940, E890.</u> | | | |
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OCT 9 1992



INSPECTOR

Chris Byle

DATE 10-7-92

REVIEWED BY

Collin P. Swanson

DATE 10/8/92

PLACEMENT OF ONSITE FILL, OFFSITE FILL
AND STABILIZED MATERIAL ON THE CELA

FORM A-5
SHEET 1 OF 1
INSPECTION DATE 10-8-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|--|
| 1. MATERIAL | | | |
| - ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - LAYER OF FILL IS FREE OF EXCESSIVE RUTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | | | TESTS HAVE BEEN TAKEN RESULTS PENDING |
| 4. DUST CONTROL <u>NONE REQUIRED</u> | | | |
| 5. REMARKS <u>AREA # 32 ON THE NORTH END WAS LAYED OUT.</u> <u>THE OLD SEDIMENTATION POND IS NEAR COMPLETION.</u> | | | |
| | | | |
| | | | |
| | | | |

OCT 8 1992



INSPECTOR Frederick J. Mastitis

DATE 10-8-92

REVIEWED BY Colin R. Schwan

DATE 10/9/92

PLACEMENT OF ONSITE FILL, OFFSITE FILL
AND STABILIZED MATERIAL ON THE CELA

FORM A-5
SHEET 1 OF 1
INSPECTION DATE 10-9-92

| | ACCEPT | REJECT | N/A |
|---|----------|---------------|-------------------------|
| 1. MATERIAL | | | |
| - ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED. | <u>/</u> | <u> </u> | <u> </u> |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES. | <u>/</u> | <u> </u> | <u> </u> |
| - LAYER OF FILL IS FREE OF EXCESSIVE RUTS. | <u>/</u> | <u> </u> | <u> </u> |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION. | <u>/</u> | <u> </u> | <u> </u> |
| 3. VERIFICATION TESTING | | | |
| - 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | | | <u>AWAITING RESULTS</u> |
| 4. DUST CONTROL <u>NONE REQUIRED</u> | | | |
| 5. REMARKS <u>COMPLETED STABILIZING AREA # 32. SHELBY</u> <u>TUBES FOR UCS WILL BE TAKEN TOMORROW.</u> | | | |
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| | | | |
| | | | |

OCT 10 1992



INSPECTOR Fredrick J. Mastis DATE 10-9-92
REVIEWED BY Colin P. Brown DATE 10/10/92

PLACEMENT OF ONSITE FILL, OFFSITE FILL
AND STABILIZED MATERIAL ON THE CELA

FORM A-3

SHEET 1 OF 1

INSPECTION DATE 10-10-92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - LAYER OF FILL IS FREE OF EXCESSIVE RUTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | | | <u>TOOK SHELBY TUBES</u> |
| 4. DUST CONTROL <u>NONE REQUIRED</u> | | | |
| 5. REMARKS <u>TOOK SHELBY TUBES IN AREA #32.</u> | | | |
| | | | |
| | | | |
| | | | |
| | | | |

OCT 12 1992



INSPECTOR

Frederick J. Mastitis

DATE 10-10-92

REVIEWED BY

Colin P. Lusk

DATE 10/12/92

PLACEMENT OF ONSITE FILL, OFFSITE FILL
AND STABILIZED MATERIAL ON THE CELA

FORM A-5
SHEET 1 OF 1
INSPECTION DATE 11-5-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - LAYER OF FILL IS FREE OF EXCESSIVE RUTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. DUST CONTROL <u>NONE REQUIRED</u> | | | |
| 5. REMARKS | | | |
| <u>IMPORTING MATERIAL EXCAVATED FROM THE</u> | | | |
| <u>2 AREAS AT THE POWERHOUSE AND THE</u> | | | |
| <u>2 AREAS AT THE EASTERN PLAINS ON</u> | | | |
| <u>NORTH SLOPE.</u> | | | |

NOV 5 1992



INSPECTOR Chad Bate
REVIEWED BY John D. Fox (Geosyntec)

DATE 11-4-92
DATE 11-5-92

PLACEMENT OF ONSITE FILL, OFFSITE FILL
AND STABILIZED MATERIAL ON THE CELA

FORM A-5

SHEET 1 OF 1

INSPECTION DATE 11-4-92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - LAYER OF FILL IS FREE OF EXCESSIVE RUTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. DUST CONTROL <u>NONE REQUIRED</u> | | | |
| 5. REMARKS | | | |
| <u>IMPORTING MATERIAL EXCAVATED FROM THE FOLLOWING</u> <u>LOCATIONS AT CURRENT CONTROLS: CC-304, CC-334,</u> <u>CC-302, CC-312, CC-30, CC-29, CC-292, CC-282,</u> <u>CC-342, CC-314, CC-332, CC-372, CC-24,</u> <u>CC-25, CC-26. PLACING MATERIAL ON THE NORTH</u> <u>SLOPE.</u> | | | |

NOV 5 1992



INSPECTOR

[Signature]

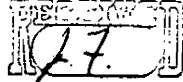
DATE 11-4-92

REVIEWED BY

[Signature] (Desrupte)

DATE 11-5-92

NOV 6 1992



FORM A-5
SHEET 1 OF 1
INSPECTION DATE 11-5-92

PLACEMENT OF ONSITE FILL, OFFSITE FILL
AND STABILIZED MATERIAL ON THE CELA

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - LAYER OF FILL IS FREE OF EXCESSIVE RUTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. DUST CONTROL <u>NONE REQUIRED</u> | | | |
| 5. REMARKS | | | |
| <u>PLACING MATERIAL EXCAVATED FROM ADDITIONAL</u> | | | |
| <u>REFINERY AREAS ON NORTH SLOPE.</u> | | | |
| | | | |
| | | | |

INSPECTOR

Chris Bate

DATE 11-5-92

REVIEWED BY

John L. Fox (Lofy to)

DATE 11-10-92

NOV 17 1992
RECEIVED
17

FORM A-5
SHEET 1 OF 1
INSPECTION DATE 11-6-92

PLACEMENT OF ONSITE FILL, OFFSITE FILL
AND STABILIZED MATERIAL ON THE CELA

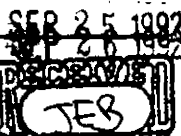
- | | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - LAYER OF FILL IS FREE OF EXCESSIVE RUTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. DUST CONTROL <u>NONE REQUIRED</u> | | | |
| 5. REMARKS | | | |

IMPORTED 1.5 LOADS OF REFINERY SOIL - THIS IS THE LAST
OF IT. IT WAS FROM THE PIPELINE TRENCH WHICH HAD
BEEN EXCAVATED BY OTHERS AT THE POWER HOUSE.

INSPECTOR Chris Burt DATE 11-6-92
REVIEWED BY John D. Fox (Geologist) DATE 11-10-92

PLACEMENT OF GAS VENTING LAYER
AND VENTING PIPES

FORM A-6
SHEET 1 OF 1
INSPECTION DATE 9-25-92



1. MATERIAL

- CRUSHED STONE AND SAND OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED FOR GEOTEXTILE AND POLYETHYLENE PIPES. (ATTACH COPY).

ACCEPT REJECT N/A

✓
✓ ALREADY SUBMITTED

2. PLACEMENT

- JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION.
- FINAL IN PLACE LOCATION AND THICKNESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS.
- LOCATION AND ELEVATIONS OF GAS VENTING PIPES ARE SHOWN ON THE DRAWING.
- LOOSE LIFT THICKNESS LESS THAN 8".
- GEOTEXTILE FABRIC IS LAPPED AT LEAST 18 INCHES.

✓
✓
✓
✓
✓

3. DUST CONTROL NONE REQUIRED

4. LOCATION (APPROXIMATE) GEOTEXTILE WAS PLACED FROM N 350 SOUTH. THE STONE WAS PLACED FROM APPROXIMATELY N 350 TO EAST 650.

5. REMARKS THE SEAMS WERE JOINED USING A SINGLE J STITCH. THE GEOTEXTILE WHICH WAS PLACED WAS ACCEPTED BY COLLEEN SUKOW BEFORE THE STONE WAS PLACED.

INSPECTOR

Frederick J. Maslita

DATE 9-25-92

REVIEWED BY

Jonathan Brando

DATE 9/26/92

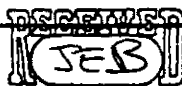
PLACEMENT OF GAS VENTING LAYER
AND VENTING PIPES

SEP 28 1992

FORM A-6

SHEET 1 OF 1

INSPECTION DATE 9-24-92



ACCEPT REJECT N/A

1. MATERIAL

- CRUSHED STONE AND SAND OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED FOR GEOTEXTILE AND POLYETHYLENE PIPES. (ATTACH COPY).

✓
✓

2. PLACEMENT

- JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION.
- FINAL IN PLACE LOCATION AND THICKNESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS.
- LOCATION AND ELEVATIONS OF GAS VENTING PIPES ARE SHOWN ON THE DRAWING.
- LOOSE LIFT THICKNESS LESS THAN 8".
- GEOTEXTILE FABRIC IS LAPPED AT LEAST 18 INCHES.

✓
✓
✓
✓
✓

3. DUST CONTROL None Required

4. LOCATION (APPROXIMATE) SOUTHERN SLOPE

5. REMARKS None

APPROXIMATELY 900^{TONS} OF STONE IMPORTED ON 9/25
AND 1400 TONS TROM.

INSPECTOR

DATE

REVIEWED BY

DATE

Chh Baly
Jonathan Brandes

9-24-92

9/28/92

PLACEMENT OF GAS VENTING LAYER
AND VENTING PIPES

FORM A-6
SHEET 1 OF 1
INSPECTION DATE 9-28-92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - CRUSHED STONE AND SAND OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED FOR GEOTEXTILE AND POLYETHYLENE PIPES. (ATTACH COPY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - FINAL IN PLACE LOCATION AND THICKNESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - LOCATION AND ELEVATIONS OF GAS VENTING PIPES ARE SHOWN ON THE DRAWING. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - LOOSE LIFT THICKNESS LESS THAN 8". | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - GEOTEXTILE FABRIC IS LAPPED AT LEAST 18 INCHES . USING SINGLE J STITCH | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. DUST CONTROL <u>NONE REQUIRED</u> | | | |

4. LOCATION (APPROXIMATE) PLACED GEOTEXTILE TO N 450 E 800

5. REMARKS STONE WAS MOVED FROM WHERE IT WAS
PLACED FRIDAY AND SATURDAY, AND SPREAD OVER
THE GEOTEXTILE WHICH WAS PLACED.

INSPECTOR

Frederick J. Mastitis

DATE 9-28-92

REVIEWED BY

Colin P. Lorton

DATE 9/29/92

SEP 29 1992
RECEIVED
RCS

PLACEMENT OF GAS VENTING LAYER
AND VENTING PIPES

FORM A-6
SHEET 1 OF 1
INSPECTION DATE 9-29-92

1. MATERIAL

- CRUSHED STONE AND SAND OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED FOR GEOTEXTILE AND POLYETHYLENE PIPES. (ATTACH COPY).

ACCEPT REJECT N/A

2. PLACEMENT

- JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION.
- FINAL IN PLACE LOCATION AND THICKNESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS.
- LOCATION AND ELEVATIONS OF GAS VENTING PIPES ARE SHOWN ON THE DRAWING.
- LOOSE LIFT THICKNESS LESS THAN 8".
- GEOTEXTILE FABRIC IS LAPPED AT LEAST 18 INCHES.

3. DUST CONTROL

NONE REQUIRED

4. LOCATION (APPROXIMATE)

N/A

5. REMARKS

STONE WAS SPREAD. NO FABRIC WAS PLACED.
COLLIN SUKOW APPROVED THE AREA UP TO N 500.
THE DERRIS HAS TO BE REMOVED AND FABRIC CAN
BE PLACED.

INSPECTOR

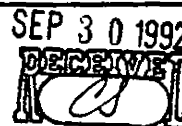
Frederick J. Martini

DATE 9-29-92

REVIEWED BY

Collin P. Sukow

DATE 9/30/92



PLACEMENT OF GAS VENTING LAYER
AND VENTING PIPES

FORM A-6
SHEET 1 OF 1
INSPECTION DATE 9-30-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - CRUSHED STONE AND SAND OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED FOR GEOTEXTILE AND POLYETHYLENE PIPES. (ATTACH COPY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - FINAL IN PLACE LOCATION AND THICKNESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - LOCATION AND ELEVATIONS OF GAS VENTING PIPES ARE SHOWN ON THE DRAWING. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - LOOSE LIFT THICKNESS LESS THAN 8". | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - GEOTEXTILE FABRIC IS LAPPED AT LEAST 18 INCHES. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. DUST CONTROL <u>None Required</u> | | | |
| 4. LOCATION (APPROXIMATE) <u>N/A</u> | | | |
| 5. REMARKS <u>STONE WAS IMPORTED & SPREAD, FABRIC WAS PLACED. COLLIN SURON APPROVED THE SUBGRADE UP TO N600.</u> <u>(FABRIC PLACED UP TO APPROXIMATELY N500)</u> | | | |
| INSPECTOR <u>Chris Baily</u> | | DATE <u>9-30-92</u> | |
| REVIEWED BY <u>Collin P. Suron</u> | | DATE <u>10/1/92</u> | |

OCT 01 1992



PLACEMENT OF GAS VENTING LAYER
AND VENTING PIPES

FORM A-6
SHEET 1 OF 1
INSPECTION DATE 10-1-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - CRUSHED STONE AND SAND OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED FOR GEOTEXTILE AND POLYETHYLENE PIPES. (ATTACH COPY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - FINAL IN PLACE LOCATION AND THICKNESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - LOCATION AND ELEVATIONS OF GAS VENTING PIPES ARE SHOWN ON THE DRAWING. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - LOOSE LIFT THICKNESS LESS THAN 8". | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - GEOTEXTILE FABRIC IS LAPPED AT LEAST 18 INCHES. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

3. DUST CONTROL NONE REQUIRED

4. LOCATION (APPROXIMATE) N/A

5. REMARKS IMPORTED & SPREAD GRAVEL TODAY. (GEOTEXTILE)
SPREAD TO APPROXIMATELY THE "N" LINE (N600).
C. SINGH ACCEPTED UP TO P700.

INSPECTOR Chris Butler DATE 10-1-92
REVIEWED BY Collin P. Johnson DATE 10/2/92

OCT 02 1992
RECEIVED

PLACEMENT OF GAS VENTING LAYER
AND VENTING PIPES

FORM A-6
SHEET 1 OF 1
INSPECTION DATE 10-2-92

ACCEPT REJECT N/A

1. MATERIAL

- CRUSHED STONE AND SAND OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED FOR GEOTEXTILE AND POLYETHYLENE PIPES. (~~ATTACH COPY~~).

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2. PLACEMENT

- JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION.
- FINAL IN PLACE LOCATION AND THICKNESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS.
- LOCATION AND ELEVATIONS OF GAS VENTING PIPES ARE SHOWN ON THE DRAWING.
- LOOSE LIFT THICKNESS LESS THAN 8".
- GEOTEXTILE FABRIC IS LAPPED AT LEAST 18 INCHES.

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3. DUST CONTROL NONE REQUIRED

4. LOCATION (APPROXIMATE) AT SOUTH END TO ABOUT N 400 &
ON THE WEST SIDE TO ABOUT E 650

5. REMARKS GEOTEXTILE HAS BEEN PLACED TO APPROXIMATELY
N 700 AND E 900.

INSPECTOR

Frederick J. Martelli

DATE 10-2-92

REVIEWED BY

Colin P. Lukan

DATE 10/5/92



OCT 05 1992

PLACEMENT OF GAS VENTING LAYER
AND VENTING PIPES

FORM A-6

SHEET 1 OF 1

INSPECTION DATE 10-3-92

1. MATERIAL

- CRUSHED STONE AND SAND OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED FOR GEOTEXTILE AND POLYETHYLENE PIPES. (ATTACH COPY).

ACCEPT REJECT N/A

2. PLACEMENT

- JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION.
- FINAL IN PLACE LOCATION AND THICKNESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS.
- LOCATION AND ELEVATIONS OF GAS VENTING PIPES ARE SHOWN ON THE DRAWING.
- LOOSE LIFT THICKNESS LESS THAN 8".
- GEOTEXTILE FABRIC IS LAPPED AT LEAST 18 INCHES.

3. DUST CONTROL NONE REQUIRED

4. LOCATION (APPROXIMATE) CONTINUED PAVING GRAVEL - INTERCHANGES

5. REMARKS None

INSPECTOR

Chris Barty

DATE 10-5-92

REVIEWED BY

Collin P. Jackson

DATE 10/5/92

OCT 05 1992



PLACEMENT OF ONSITE FILL, OFFSITE FILL
AND STABILIZED MATERIAL ON THE CELA

FORM A-5
SHEET 1 OF 1
INSPECTION DATE 10-5-92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|---|--------------------------|
| 1. MATERIAL | | | |
| - ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - LAYER OF FILL IS FREE OF EXCESSIVE RUTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | | | |
| | | SAMPLES TO BE TAKEN SOME RESULTS PENDING | |
| 4. DUST CONTROL <u>NONE REQUIRED</u> | | | |
| 5. REMARKS <u>LAYED OUT NEW AREA # 30. RESTABILIZED</u> | | | |
| <u>SOFT SPOTS FOUND.</u> | | | |
| | | | |
| | | | |
| | | | |

2661 2 0 100



INSPECTOR Frederick J. Mastik
REVIEWED BY Collin P. Luker

DATE 10-5-92
DATE 10/7/92

PLACEMENT OF GAS VENTING LAYER
AND VENTING PIPES

FORM A-6
SHEET 1 OF 1
INSPECTION DATE 10-6-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - CRUSHED STONE AND SAND OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED FOR GEOTEXTILE AND POLYETHYLENE PIPES. (ATTACH COPY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - FINAL IN PLACE LOCATION AND THICKNESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - LOCATION AND ELEVATIONS OF GAS VENTING PIPES ARE SHOWN ON THE DRAWING. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - LOOSE LIFT THICKNESS LESS THAN 8". | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - GEOTEXTILE FABRIC IS LAPPED AT LEAST 18 INCHES. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. DUST CONTROL <u>NONE REQUIRED</u> | | | |

4. LOCATION (APPROXIMATE) TO W-LINE (N 930)

5. REMARKS PLACED TS-700 TO N 930

4" SAND LAYER DELETED. GAS VENT LAYER ALTERED

TO 12" OF GAS VENT STONE.

INSPECTOR Frederick J. Mastels DATE 10-6-92

REVIEWED BY Collin P. Sullivan DATE 10/7/92

OCT 07 1992



PLACEMENT OF GAS VENTING LAYER
AND VENTING PIPES

FORM A-6

SHEET 1 OF 1

INSPECTION DATE 10-7-92

| | ACCEPT | REJECT | N/A |
|---|---------------|---|---------------|
| 1. MATERIAL | | | |
| - CRUSHED STONE AND SAND OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <u>✓</u> | <u> </u> | <u> </u> |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED FOR GEOTEXTILE AND POLYETHYLENE PIPES. (ATTACH COPY). | <u>✓</u> | <u> </u> | <u> </u> |
| 2. PLACEMENT | | | |
| - JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION. | <u> </u> | <u> </u> | <u>✓</u> |
| - FINAL IN PLACE LOCATION AND THICKNESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS. | <u> </u> | <u> </u> | <u>✓</u> |
| - LOCATION AND ELEVATIONS OF GAS VENTING PIPES ARE SHOWN ON THE DRAWING. | <u> </u> | <u> </u> | <u>✓</u> |
| - LOOSE LIFT THICKNESS LESS THAN 8". | <u> </u> | <u> </u> | <u>✓</u> |
| - GEOTEXTILE FABRIC IS LAPPED AT LEAST 18 INCHES. | <u> </u> | <u> </u> | <u>✓</u> |
| 3. DUST CONTROL <u>NONE REQUIRED</u> | | | |
| 4. LOCATION (APPROXIMATE) <u> </u> | | | |
| 5. REMARKS <u>GEOTEXTILE WAS INSTALLED NORTHWARD TO "W" LINE AND EASTWARD TO EBSD. GEOTEXTILE ALSO PLACED AT ENTRANCE OF 3RD RAMP ALONG THE W1 & X LINES EASTWARD TO THE SLOPE BREAK POINT.</u> | | | |
| INSPECTOR <u>Chris Barty</u> | | OCT 8 1992 RECEIVED DATE <u>10-7-92</u> | |
| REVIEWED BY <u>Colin P. Jackson</u> | | DATE <u>10/8/92</u> | |

PLACEMENT OF GAS VENTING LAYER
AND VENTING PIPES

FORM A-6
SHEET 1 OF 1
INSPECTION DATE 10-8-92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - CRUSHED STONE AND SAND OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED FOR GEOTEXTILE AND POLYETHYLENE PIPES. (ATTACH COPY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - FINAL IN PLACE LOCATION AND THICKNESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - LOCATION AND ELEVATIONS OF GAS VENTING PIPES ARE SHOWN ON THE DRAWING. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - LOOSE LIFT THICKNESS LESS THAN 8". | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - GEOTEXTILE FABRIC IS LAPPED AT LEAST 18 INCHES. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. DUST CONTROL <u>NONE REQUIRED</u> | | | |
| 4. LOCATION (APPROXIMATE) <u>N/A</u> | | | |
| 5. REMARKS <u>NO TS-700 WAS PLACED TODAY. GAS VENT STONE WAS HAULED AND PLACED ON THE GEOTEXTILE ALREADY PLACED.</u> | | | |
| INSPECTOR <u>Fredrick J. Mastitis</u> DATE <u>10-8-92</u> REVIEWED BY <u>Colin P. Jekow</u> DATE <u>10/9/92</u> | | | |

OCT 8 1992
RECEIVED
RCD

PLACEMENT OF GAS VENTING LAYER
AND VENTING PIPES

FORM A-6
SHEET 1 OF 1
INSPECTION DATE 10-9-92

ACCEPT REJECT N/A

1. MATERIAL

- CRUSHED STONE AND SAND OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED FOR GEOTEXTILE AND POLYETHYLENE PIPES. (ATTACH COPY).

✓
✓

2. PLACEMENT

- JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION.
- FINAL IN PLACE LOCATION AND THICKNESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS.
- LOCATION AND ELEVATIONS OF GAS VENTING PIPES ARE SHOWN ON THE DRAWING.
- LOOSE LIFT THICKNESS LESS THAN 8".
- GEOTEXTILE FABRIC IS LAPPED AT LEAST 18 INCHES.

✓
✓
✓
✓
✓

3. DUST CONTROL NONE REQUIRED

4. LOCATION (APPROXIMATE) N/A

5. REMARKS STONE WAS PLACED ON THE TS-700 WHICH HAS ALREADY BEEN INSTALLED.

INSPECTOR Frederick J. Mantle DATE 10-9-92
REVIEWED BY Colin P. Sutton DATE 10/10/92

PLACEMENT OF GAS VENTING LAYER
AND VENTING PIPES

FORM A-6
SHEET 1 OF 1
INSPECTION DATE 10-10-92

1. MATERIAL

- CRUSHED STONE AND SAND OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED FOR GEOTEXTILE AND POLYETHYLENE PIPES. (ATTACH COPY).

ACCEPT REJECT N/A

2. PLACEMENT

- JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION.
- FINAL IN PLACE LOCATION AND THICKNESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS.
- LOCATION AND ELEVATIONS OF GAS VENTING PIPES ARE SHOWN ON THE DRAWING.
- LOOSE LIFT THICKNESS LESS THAN 8".
- GEOTEXTILE FABRIC IS LAPPED AT LEAST 18 INCHES.

3. DUST CONTROL NONE REQUIRED

4. LOCATION (APPROXIMATE) SOUTH SIDE OF SITE.

5. REMARKS TS-700 WAS PLACED OVER GAS VENT STONE. AT 1030
C. SUKOW APPROVED THE GAS VENT STONE FOR TS-700 FROM THE
WEST SIDE UNDERLINER, ALONG THE K-LINE (N=450), TO THE
UTILITY POLE, THEN S. TO PIEZOMETER P-3, FROM P-3 W. TO STAKE
FOR PS-3, CONTINUING TO THE CONE ON THE WEST SIDE.
AT 1430 R. NORTH APPROVED FROM THE UNDERLINER ON THE WEST TO
P-3 AND SOUTH TO WITHIN 20' OF THE CHANNEL. 12 PANEL WIDTHS LAYED.

INSPECTOR Frederick J. Mastitis

DATE 10-10-92

REVIEWED BY Collin P. Sukow

DATE 10/12/92

OCT 12 1992
RECEIVED
RCD

PLACEMENT OF GAS VENTING LAYER
AND VENTING PIPES

FORM A-6
SHEET 1 OF 1
INSPECTION DATE 10-12-92

ACCEPT REJECT N/A

1. MATERIAL

- CRUSHED STONE AND SAND OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED FOR GEOTEXTILE AND POLYETHYLENE PIPES. (ATTACH COPY).

✓
✓

2. PLACEMENT

- JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION.
- FINAL IN PLACE LOCATION AND THICKNESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS.
- LOCATION AND ELEVATIONS OF GAS VENTING PIPES ARE SHOWN ON THE DRAWING.
- LOOSE LIFT THICKNESS LESS THAN 8".
- GEOTEXTILE FABRIC IS LAPPED AT LEAST 18 INCHES.

✓
✓
✓
✓

3. DUST CONTROL NONE REQUIRED

4. LOCATION (APPROXIMATE) N/A

5. REMARKS PLACED STONE WHERE TS-700 HAS ALREADY BEEN LAYED. THE SOUTHERN MOST AREA HAD THE STONE PLACED AND GRADED. TS-700 WAS PLACED OVER THE STONE 1 PANEL WIDTH PASSED THE K-LINE. AT 0900 C. SUKOW APPROVED THE STONE THICKNESS FROM THE K-LINE NORTH TO THE O-LINE, EAST TO THE UTILITY POLE.

INSPECTOR Frederick J. Martlet

DATE 10-12-92

REVIEWED BY Collin R. Sukow

DATE 10/15/92

OCT 13 1992



PLACEMENT OF GAS VENTING LAYER
AND VENTING PIPES

FORM A-6
SHEET 1 OF 1
INSPECTION DATE 10-13-92

ACCEPT REJECT N/A

1. MATERIAL

- CRUSHED STONE AND SAND OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED FOR GEOTEXTILE AND POLYETHYLENE PIPES. (ATTACH COPY).

| | | |
|---|--|--|
| ✓ | | |
| ✓ | | |

2. PLACEMENT

- JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION.
- FINAL IN PLACE LOCATION AND THICKNESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS.
- LOCATION AND ELEVATIONS OF GAS VENTING PIPES ARE SHOWN ON THE DRAWING.
- LOOSE LIFT THICKNESS LESS THAN 8".
- GEOTEXTILE FABRIC IS LAPPED AT LEAST 18 INCHES.

| | | |
|---|--|---|
| ✓ | | |
| ✓ | | |
| ✓ | | |
| | | ✓ |
| | | ✓ |

3. DUST CONTROL NONE REQUIRED

4. LOCATION (APPROXIMATE) N/A

5. REMARKS NO TS-700 WAS PLACED TODAY. THE GAS VENT PIPE ALONG PEAK 1 AND THE PIPE RUNNING TO PEAK 2 WAS WELDED. PLACES WHERE STONE WAS LESS THAN 12" WAS GRADED TO THE PROPER DEPTH.

C. SUKOW APPROVED THE SOUTH EAST CORNER FOR TS-700, ONCE THE AREA HAD THE DEBRIS PICKED UP.

INSPECTOR Frederick J. Mastile

DATE 10-13-92

REVIEWED BY Colin P. Sukow

DATE 10/13/92

OCT 13 1992
RECEIVED
NO 2

PLACEMENT OF GAS VENTING LAYER
AND VENTING PIPES

PORT OF
SHEET 1 OF 1
INSPECTION DATE 10-14-92

ACCEPT REJECT N/A

1. MATERIAL

- CRUSHED STONE AND SAND OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED FOR GEOTEXTILE AND POLYETHYLENE PIPES. (ATTACH COPY).

| | | |
|---|--|--|
| ✓ | | |
| ✓ | | |

2. PLACEMENT

- JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION.
- FINAL IN PLACE LOCATION AND THICKNESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS.
- LOCATION AND ELEVATIONS OF GAS VENTING PIPES ARE SHOWN ON THE DRAWING.
- LOOSE LIFT THICKNESS LESS THAN 8".
- GEOTEXTILE FABRIC IS LAPPED AT LEAST 18 INCHES.

| | | |
|---|--|---|
| ✓ | | |
| ✓ | | |
| ✓ | | |
| | | ✓ |
| | | ✓ |

3. DUST CONTROL None Required

4. LOCATION (APPROXIMATE) N/A

5. REMARKS Collins Approved The South East Corner To The L-LINE AND SAID THAT IT WAS OK TO OVERLAP THE TS-700. HE ALSO APPROVED FROM THE W-LINE, SOUTH TO THE O-LINE AND EAST TO 975. TS-700 WAS PLACED IN THESE AREAS AND COVERED WITH STONE. 500' OF PIPE WAS WELDED TODAY, 700' TO DATE.

INSPECTOR Frederick J. Mastitis

DATE 10-14-92

REVIEWED BY Collins P. Sukow

DATE 10/15/92

OCT 15 1992

RECEIVED

PLACEMENT OF GAS VENTING LAYER
AND VENTING PIPES

FORM A-6
SHEET 1 OF 1
INSPECTION DATE 10-15-92

ACCEPT REJECT N/A

1. MATERIAL

- CRUSHED STONE AND SAND OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED FOR GEOTEXTILE AND POLYETHYLENE PIPES. (ATTACH COPY).

2. PLACEMENT

- JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION.
- FINAL IN PLACE LOCATION AND THICKNESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS.
- LOCATION AND ELEVATIONS OF GAS VENTING PIPES ARE SHOWN ON THE DRAWING.
- LOOSE LIFT THICKNESS LESS THAN 8".
- GEOTEXTILE FABRIC IS LAPPED AT LEAST 18 INCHES.

3. DUST CONTROL NONE REQUIRED

4. LOCATION (APPROXIMATE) CONTINUED PLACEMENT OF GAS VENT PIPE

ON PEAK 1, PEAK 2 & IN BETWEEN PEAKS 1 & 2. ALSO

5. ~~REMOVED~~ CONTINUED PLACEMENT OF STONE. ALSO

INSPECTOR

Chris Bailey

REVIEWED BY

Colin P. Sullivan



DATE

10-15-92

DATE

10/15/92

PLACEMENT OF GAS VENTING LAYER
AND VENTING PIPES

FORM A-6
SHEET 1 OF 1
INSPECTION DATE 10-16-92

ACCEPT REJECT N/A

1. MATERIAL

- CRUSHED STONE AND SAND OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED FOR GEOTEXTILE AND POLYETHYLENE PIPES. (ATTACH COPY).

| | | |
|---|--|--|
| ✓ | | |
| ✓ | | |

2. PLACEMENT

- JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION.
- FINAL IN PLACE LOCATION AND THICKNESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS.
- LOCATION AND ELEVATIONS OF GAS VENTING PIPES ARE SHOWN ON THE DRAWING.
- LOOSE LIFT THICKNESS LESS THAN 8".
- GEOTEXTILE FABRIC IS LAPPED AT LEAST 18 INCHES.

| | | |
|---|--|---|
| ✓ | | |
| ✓ | | |
| ✓ | | |
| | | ✓ |
| | | ✓ |

3. DUST CONTROL NONE REQUIRED

4. LOCATION (APPROXIMATE) SOUTHEAST CORNER TO K-LINE (N-500)

5. REMARKS PRIMARY GEOTEXTILE WAS PLACED OVER THE STONE AND LAYED TO THE K-LINE (N-500). THE GAS VENT PIPE WAS PLACED AND COVERED ON PEAK #1, THE TRUNK LINE, AND A PORTION ON THE WEST SIDE OF PEAK #3. APPROXIMATELY 100' OF PIPE WAS WELDED TODAY.

INSPECTOR

Fredrick J. Mastilo

DATE 10-16-92

REVIEWED BY

John L. Fox (Geotextile)

DATE 10-19-92

PLACEMENT OF GAS VENTING LAYER
AND VENTING PIPES

FORM A-6

SHEET 1 OF 1

INSPECTION DATE 12-18-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - CRUSHED STONE AND SAND OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED FOR GEOTEXTILE AND POLYETHYLENE PIPES. (ATTACH COPY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FINAL IN PLACE LOCATION AND THICKNESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - LOCATION AND ELEVATIONS OF GAS VENTING PIPES ARE SHOWN ON THE DRAWING. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - LOOSE LIFT THICKNESS LESS THAN 8". | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - GEOTEXTILE FABRIC IS LAPPED AT LEAST 18 INCHES. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. DUST CONTROL <u>NONE REQUIRED</u> | | | |
| 4. LOCATION (APPROXIMATE) | | | |
| 5. REMARKS | | | |
| <u>CONTINUED PLACEMENT OF GAS VENT PIPE ALONG ROAD</u> | | | |
| <u>3. ALSO CONTINUED PLACEMENT OF GAS VENT STONE</u> | | | |
| | | | |
| INSPECTOR <u>[Signature]</u> | DATE <u>12-19-92</u> | | |
| REVIEWED BY <u>John H. Fox (Geosyntec)</u> | DATE <u>12-19-92</u> | | |

PLACEMENT OF GAS VENTING LAYER
AND VENTING PIPES

FORM A-6
SHEET 1 OF 1
INSPECTION DATE 10-19-92

ACCEPT REJECT N/A

1. MATERIAL

- CRUSHED STONE AND SAND OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED FOR GEOTEXTILE AND POLYETHYLENE PIPES. (ATTACH COPY).

| | | |
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| ✓ | | |
| ✓ | | |

2. PLACEMENT

- JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION.
- FINAL IN PLACE LOCATION AND THICKNESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS.
- LOCATION AND ELEVATIONS OF GAS VENTING PIPES ARE SHOWN ON THE DRAWING.
- LOOSE LIFT THICKNESS LESS THAN 8".
- GEOTEXTILE FABRIC IS LAPPED AT LEAST 18 INCHES.

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3. DUST CONTROL NONE REQUIRED

4. LOCATION (APPROXIMATE) CONTINUED PLACEMENT OF STONE
EASTWARD S

5. REMARKS NONE

INSPECTOR

Chris Bailey

DATE 10-19-92

REVIEWED BY

John L. Ford

DATE 10-20-92

FORM A-6
SHEET 1 OF 1
INSPECTION DATE 10-20-92

| | ACCEPT | REJECT | N/A |
|--|--------|--------|-----|
| 1. MATERIAL | | | |
| - CRUSHED STONE AND SAND OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | ✓ | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED FOR GEOTEXTILE AND POLYETHYLENE PIPES. (ATTACH COPY). | ✓ | | |
| 2. PLACEMENT | | | |
| - JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION. | ✓ | | |
| - FINAL IN PLACE LOCATION AND THICKNESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS. | ✓ | | |
| - LOCATION AND ELEVATIONS OF GAS VENTING PIPES ARE SHOWN ON THE DRAWING. | ✓ | | |
| - LOOSE LIFT THICKNESS LESS THAN 8". | | | ✓ |
| - GEOTEXTILE FABRIC IS LAPPED AT LEAST 18 INCHES. | | | ✓ |
| 3. DUST CONTROL <u>NONE REQUIRED</u> | | | |
| 4. LOCATION (APPROXIMATE) <u>CONTINUED PUSHING SOME GRAVEL EASTWARD</u> | | | |
| 5. REMARKS <u>NONE</u> | | | |
| INSPECTOR <u>Chris Bantz</u> DATE <u>10-20-92</u> | | | |
| REVIEWED BY <u>John H. Fox</u> DATE <u>10-21-92</u> | | | |

PLACEMENT OF GAS VENTING LAYER
AND VENTING PIPES

FORM A-6
SHEET 1 OF 1
INSPECTION DATE 10-21-92

ACCEPT REJECT N/A

1. MATERIAL

- CRUSHED STONE ~~AND SAND~~ OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED FOR GEOTEXTILE AND POLYETHYLENE PIPES. (ATTACH COPY).

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2. PLACEMENT

- JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION.
- FINAL IN PLACE LOCATION AND THICKNESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS.
- LOCATION AND ELEVATIONS OF GAS VENTING PIPES ARE SHOWN ON THE DRAWING.
- LOOSE LIFT THICKNESS LESS THAN 8".
- GEOTEXTILE FABRIC IS LAPPED AT LEAST 18 INCHES.

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3. DUST CONTROL NONE REQUIRED

4. LOCATION (APPROXIMATE) N/A

5. REMARKS ONLY GAS VENT STONE WAS IMPORTED AND PLACED TODAY. NO OTHER ACTIVITIES.

INSPECTOR Frederick J. Mastitis

DATE 10-21-92

REVIEWED BY John H. Fox (Geosyntec)

DATE 10-22-92

PLACEMENT OF GAS VENTING LAYER
AND VENTING PIPES

FORM A-6
SHEET 1 OF 1
INSPECTION DATE 10-23-92

ACCEPT REJECT N/A

1. MATERIAL

- CRUSHED STONE AND SAND OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED FOR GEOTEXTILE AND POLYETHYLENE PIPES. (ATTACH COPY).

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2. PLACEMENT

- JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION.
- FINAL IN PLACE LOCATION AND THICKNESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS.
- LOCATION AND ELEVATIONS OF GAS VENTING PIPES ARE SHOWN ON THE DRAWING.
- LOOSE LIFT THICKNESS LESS THAN 8".
- GEOTEXTILE FABRIC IS LAPPED AT LEAST 18 INCHES.

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3. DUST CONTROL NONE REQUIRED

4. LOCATION (APPROXIMATE) N/A

5. REMARKS ONLY GAS VENT STONE WAS PLACED TODAY.
NO STONE WAS RECEIVED.

INSPECTOR

Frederick S. Mastella

DATE 10-23-92

REVIEWED BY

John E. Fox (Geosyntec)

DATE 10-23-92

PLACEMENT OF GAS VENTING LAYER
AND VENTING PIPES

FORM A-6
SHEET 1 OF 1
INSPECTION DATE 10-23-92

ACCEPT REJECT N/A

1. MATERIAL

- CRUSHED STONE AND SAND OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED FOR GEOTEXTILE AND POLYETHYLENE PIPES. (ATTACH COPY).

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2. PLACEMENT

- JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION.
- FINAL IN PLACE LOCATION AND THICKNESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS.
- LOCATION AND ELEVATIONS OF GAS VENTING PIPES ARE SHOWN ON THE DRAWING.
- LOOSE LIFT THICKNESS LESS THAN 8".
- GEOTEXTILE FABRIC IS LAPPED AT LEAST 18 INCHES.

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3. DUST CONTROL NONE REQUIRED

4. LOCATION (APPROXIMATE) N/A

5. REMARKS JOHN FOX APPROVED UP TO THE Q-LINE AND
THE SURVEYORS HAVE VERIFIED TO THE Q-LINE
CHANNEL TO CHANNEL. THE AREA - MUST BE PICKED
CLEAN AND THEN TS-700 AND STONE WILL BE PLACED
WASH ANALYSIS PERFORMED ON GAS VENT STONE AS PER REQUEST
BY GEDSYNTEC. RESULT IS ATTACHED

INSPECTOR

Frederick J. Mastels

DATE 10-23-92

REVIEWED BY

John H. Fox to Gedsyntec

DATE 10-24-92

PLACEMENT OF GAS VENTING LAYER
AND VENTING PIPES

FORM A-6

SHEET 1 OF 1

INSPECTION DATE 10-24-92

1. MATERIAL

- CRUSHED STONE AND SAND OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED FOR GEOTEXTILE AND POLYETHYLENE PIPES. (ATTACH COPY).

ACCEPT REJECT N/A

✓

✓

2. PLACEMENT

- JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION.
- FINAL IN PLACE LOCATION AND THICKNESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS.
- LOCATION AND ELEVATIONS OF GAS VENTING PIPES ARE SHOWN ON THE DRAWING.
- LOOSE LIFT THICKNESS LESS THAN 8".
- GEOTEXTILE FABRIC IS LAPPED AT LEAST 18 INCHES.

✓

✓

✓

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3. DUST CONTROL NONE REQUIRED

4. LOCATION (APPROXIMATE) EAST SIDE, "N" LINE TO "Q" LINE

5. REMARKS PLACED GEOTEXTILE ^{NORTH} TO "Q" LINE & EAST.
TO WITHIN 10' OF THE EDGE OF THE CHANNEL.
STONE PUSHED OVER THIS GEOTEXTILE.

INSPECTOR

Chris Boyle

DATE 10-21-92

REVIEWED BY

John H. Fox (Derbyshire)

DATE 10-27-92

PLACEMENT OF GAS VENTING LAYER
AND VENTING PIPES

FORM A-6
SHEET 1 OF 1
INSPECTION DATE 10-26-92

| | ACCEPT | REJECT | N/A |
|---|---------------|---------------|----------------------|
| 1. MATERIAL | | | |
| - CRUSHED STONE AND SAND OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <u>/</u> | <u> </u> | <u> </u> |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED FOR GEOTEXTILE AND POLYETHYLENE PIPES. (ATTACH COPY). | <u>/</u> | <u> </u> | <u> </u> |
| 2. PLACEMENT | | | |
| - JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION. | <u>/</u> | <u> </u> | <u> </u> |
| - FINAL IN PLACE LOCATION AND THICKNESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS. | <u>/</u> | <u> </u> | <u> </u> |
| - LOCATION AND ELEVATIONS OF GAS VENTING PIPES ARE SHOWN ON THE DRAWING. | <u>/</u> | <u> </u> | <u> </u> |
| - LOOSE LIFT THICKNESS LESS THAN 8". | <u> </u> | <u> </u> | <u>/</u> |
| - GEOTEXTILE FABRIC IS LAPPED AT LEAST 18 INCHES. | <u> </u> | <u> </u> | <u>/</u> |
| 3. DUST CONTROL <u>NONE REQUIRED</u> | | | |
| 4. LOCATION (APPROXIMATE) <u>N/A</u> | | | |
| 5. REMARKS <u>JOHN FOX APPROVED TO THE U-LINE AND TS-700 HAS BEEN PLACED TO T-LINE. DESTRUCT SAMPLES WILL BE TAKEN AS PER JOHN'S REQUEST.</u> | | | |
| INSPECTOR <u>Frederick J. Wastler</u> | | | DATE <u>10-26-92</u> |
| REVIEWED BY <u>John H. Fox (Geologist)</u> | | | DATE <u>10-27-92</u> |

PLACEMENT OF GAS VENTING LAYER
AND VENTING PIPES

FORM A-6
SHEET 1 OF 1
INSPECTION DATE 10-27-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - CRUSHED STONE AND SAND OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED FOR GEOTEXTILE AND POLYETHYLENE PIPES. (ATTACH COPY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FINAL IN PLACE LOCATION AND THICKNESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - LOCATION AND ELEVATIONS OF GAS VENTING PIPES ARE SHOWN ON THE DRAWING. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - LOOSE LIFT THICKNESS LESS THAN 8". | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - GEOTEXTILE FABRIC IS LAPPED AT LEAST 18 INCHES. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

3. DUST CONTROL NONE REQUIRED

4. LOCATION (APPROXIMATE) N/A

5. REMARKS GAS VENT PIPE HAS BEEN WELDED AND PLACED TO PEAK #3. THE TRUNK LINE TO PEAK 4 AND THE LATERAL SECTION OF PEAK 4 REMAIN TO BE WELDED AND PLACED.

INSPECTOR Frederick J. Mastella DATE 10-27-92
REVIEWED BY John H. Fox (Geotechnical) DATE 10-28-92

PLACEMENT OF GAS VENTING LAYER
AND VENTING PIPES

FORM A-6
SHEET 1 OF 1
INSPECTION DATE 10-28-92

ACCEPT REJECT N/A

1. MATERIAL

- CRUSHED STONE AND SAND OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED FOR GEOTEXTILE AND POLYETHYLENE PIPES. (ATTACH COPY).

| | | |
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| ✓ | | |
| ✓ | | |

2. PLACEMENT

- JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION.
- FINAL IN PLACE LOCATION AND THICKNESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS.
- LOCATION AND ELEVATIONS OF GAS VENTING PIPES ARE SHOWN ON THE DRAWING.
- LOOSE LIFT THICKNESS LESS THAN 8".
- GEOTEXTILE FABRIC IS LAPPED AT LEAST 18 INCHES.

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| | | ✓ |

3. DUST CONTROL NONE REQUIRED

4. LOCATION (APPROXIMATE) N/A

5. REMARKS PLACED PRIMARY GEOTEXTILE TO THE V-LINE
AND PRIMARY GEOTEXTILE TO PEAK #3. SOME OF THE
STONE HAD TO BE REGRADED BEFORE GROUNDSEAL AND
LINER COULD BE PLACED, IT WAS DONE.

INSPECTOR

Frederick J. Martini

DATE 10-28-92

REVIEWED BY

John L. Fox (Geologist)

DATE 10-29-92

PLACEMENT OF GAS VENTING LAYER
AND VENTING PIPES

FORM A-6
SHEET 1 OF 1
INSPECTION DATE 10-29-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - CRUSHED STONE AND SAND OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED FOR GEOTEXTILE AND POLYETHYLENE PIPES. (ATTACH COPY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FINAL IN PLACE LOCATION AND THICKNESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - LOCATION AND ELEVATIONS OF GAS VENTING PIPES ARE SHOWN ON THE DRAWING. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - LOOSE LIFT THICKNESS LESS THAN 8". | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - GEOTEXTILE FABRIC IS LAPPED AT LEAST 18 INCHES. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. DUST CONTROL <u>NONE REQUIRED</u> | | | |
| 4. LOCATION (APPROXIMATE) <u>N/A</u> | | | |
| 5. REMARKS <u>PLACED SOME STONE PLACED PRIMARY</u> <u>TS-700 TO THE S-LINE. STONE THICKNESS</u> <u>WAS APPROVED BY JOHN FOX.</u> | | | |
| INSPECTOR <u>Fredrick J. Wasth</u> | | DATE <u>10-29-92</u> | |
| REVIEWED BY <u>John L. Fox (Inspector)</u> | | DATE <u>10-30-92</u> | |

PLACEMENT OF GAS VENTING LAYER
AND VENTING PIPES

FORM A-6

SHEET 1 OF 1

INSPECTION DATE 10-30-92

ACCEPT REJECT N/A

1. MATERIAL

- CRUSHED STONE AND SAND OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED FOR GEOTEXTILE AND POLYETHYLENE PIPES. (ATTACH COPY).

2. PLACEMENT

- JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION.
- FINAL IN PLACE LOCATION AND THICKNESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS.
- LOCATION AND ELEVATIONS OF GAS VENTING PIPES ARE SHOWN ON THE DRAWING.
- LOOSE LIFT THICKNESS LESS THAN 8".
- GEOTEXTILE FABRIC IS LAPPED AT LEAST 18 INCHES.

3. DUST CONTROL NONE REQUIRED

4. LOCATION (APPROXIMATE) NORTHEAST CORNER OF SITE

5. REMARKS PLACED SECONDARY 15 700 # STONE IN
NORTHEAST CORNER OF SITE. OVER IT WAS
VERIFIED BY GEOSYNTEC & CERTIFIED BY
SURVEYORS

INSPECTOR

Chris B...

DATE 10-30-92

REVIEWED BY

John L. For (Geosyntec)

DATE 11-2-92

PLACEMENT OF GAS VENTING LAYER
ND VENTING PIPES

FORM A-6
SHEET 1 OF 1
INSPECTION DATE 10-31-92

1. MATERIAL

- CRUSHED STONE AND SAND OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED FOR GEOTEXTILE AND POLYETHYLENE PIPES. (ATTACH COPY).

ACCEPT REJECT N/A

2. PLACEMENT

- JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION.
- FINAL IN PLACE LOCATION AND THICKNESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS.
- LOCATION AND ELEVATIONS OF GAS VENTING PIPES ARE SHOWN ON THE DRAWING.
- LOOSE LIFT THICKNESS LESS THAN 8".
- GEOTEXTILE FABRIC IS LAPPED AT LEAST 18 INCHES.

3. DUST CONTROL None Required

4. LOCATION (APPROXIMATE) NORTHWEST CORNER OF SITE

5. REMARKS Placed secondary TS 700 & pushed

GAS VENT STAKE IN N.E. CORNER

INSPECTOR

Chris Bates

DATE 11-2-92

REVIEWED BY

John L. Fox (Geologist)

DATE 11-2-92

PLACEMENT OF GAS VENTING LAYER
AND VENTING PIPES

FORM A-6
SHEET 1 OF 1
INSPECTION DATE 11-4-92

ACCEPT REJECT N/A

1. MATERIAL

- CRUSHED STONE AND SAND OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED FOR GEOTEXTILE AND POLYETHYLENE PIPES. (ATTACH COPY).

2. PLACEMENT

- JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION.
- FINAL IN PLACE LOCATION AND THICKNESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS.
- LOCATION AND ELEVATIONS OF GAS VENTING PIPES ARE SHOWN ON THE DRAWING.
- LOOSE LIFT THICKNESS LESS THAN 8".
- GEOTEXTILE FABRIC IS LAPPED AT LEAST 18 INCHES.

3. DUST CONTROL NONE REQUIRED

4. LOCATION (APPROXIMATE) NORTH TO "X" GRID & EAST OF 0/5 900

5. REMARKS PLACED TO 700 & STONE IN ABOVE AREAS

AFTER APPROVAL RECEIVED FROM R. NORTH

OF GEOSYNTEL.

NOV 15 1992



INSPECTOR Chris B. [Signature]

DATE 11-1-92

REVIEWED BY John L. Fox (GeosynTel)

DATE 11-5-92

PLACEMENT OF GAS VENTING LAYER
AND VENTING PIPES

FORM A-6
SHEET 1 OF 1
INSPECTION DATE 11-5-92

1. MATERIAL

- CRUSHED STONE AND SAND OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED FOR GEOTEXTILE AND POLYETHYLENE PIPES. (ATTACH COPY).

ACCEPT REJECT N/A

2. PLACEMENT

- JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION.
- FINAL IN PLACE LOCATION AND THICKNESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS.
- LOCATION AND ELEVATIONS OF GAS VENTING PIPES ARE SHOWN ON THE DRAWING.
- LOOSE LIFT THICKNESS LESS THAN 8".
- GEOTEXTILE FABRIC IS LAPPED AT LEAST 18 INCHES.

3. DUST CONTROL NONE REQUIRED

4. LOCATION (APPROXIMATE) NORTHEAST CORNER OF SITE

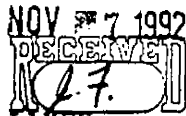
5. REMARKS PLACING GAS VENT STONE IN N.E. CORNER WORKING FROM EAST TO WEST & SOUTH TO NORTH. SUBGRADE APPROVED WEST TO 0/5 900 & ALL THE WAY NORTH & EAST TO THE EDGE OF THE CHANNEL. RECEIVED CONDITIONAL APPROVAL TO PLACE SECONDARY TS700 & GAS VENT STONE WESTWARDS TO 0/5 750 BETWEEN THE "X" GRID & THE EDGE OF THE NORTH CHANNEL. THIS NEEDS TO BE BACKDRAINED IN THE A.M.

INSPECTOR

DATE 11-5-92

REVIEWED BY

DATE 11-10-92



FORM A-6
SHEET 1 OF 1
INSPECTION DATE 11-6-92

PLACEMENT OF GAS VENTING LAYER
AND VENTING PIPES

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - CRUSHED STONE AND SAND OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED FOR GEOTEXTILE AND POLYETHYLENE PIPES. (ATTACH COPY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FINAL IN PLACE LOCATION AND THICKNESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - LOCATION AND ELEVATIONS OF GAS VENTING PIPES ARE SHOWN ON THE DRAWING. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - LOOSE LIFT THICKNESS LESS THAN 8". | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - GEOTEXTILE FABRIC IS LAPPED AT LEAST 18 INCHES. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. DUST CONTROL <u>NONE REQUIRED</u> | | | |
| 4. LOCATION (APPROXIMATE) <u>NORTHEAST CORNER OF SITE</u> | | | |
| 5. REMARKS <u>PLACED PRIMARY TS700 ON GAS VENT SIDE</u> <u>IN NORTHEAST CORNER, EAST OF O/S 900 & ALSO</u> <u>PLACED PRIMARY TS700 UP TO PEAK NO. 4 IN</u> <u>THE CENTRAL PORTION OF THE CELA.</u> | | | |
| INSPECTOR <u>Chris Bailey</u> | | DATE <u>11-6-92</u> | |
| REVIEWED BY <u>John L. Fox</u> | | DATE <u>11-10-92</u> | |

NOV 28 1992



FORM A-6

SHEET 1 OF 1

INSPECTION DATE 11-7-92

PLACEMENT OF GAS VENTING LAYER AND VENTING PIPES

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - CRUSHED STONE AND SAND OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED FOR GEOTEXTILE AND POLYETHYLENE PIPES. (ATTACH COPY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FINAL IN PLACE LOCATION AND THICKNESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - LOCATION AND ELEVATIONS OF GAS VENTING PIPES ARE SHOWN ON THE DRAWING. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - LOOSE LIFT THICKNESS LESS THAN 8". | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - GEOTEXTILE FABRIC IS LAPPED AT LEAST 18 INCHES. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. DUST CONTROL <u>NONE REQUIRED</u> | | | |
| 4. LOCATION (APPROXIMATE) <u>NORTH SLOPE FROM 0/5 750 - 0/5 900 & BETWEEN GRID "X" & THE NORTH EDGE OF CHANNEL</u> | | | |
| 5. REMARKS <u>PLACED SECONDARY 73700 & GAS VENT STONE</u> | | | |
| INSPECTOR <u>Chris Butts</u> | | | DATE <u>11-7-92</u> |
| REVIEWED BY <u>John H. Fox (Holtz)</u> | | | DATE <u>11-10-92</u> |

FORM A-6

SHEET 1 OF 1
INSPECTION DATE 11-8-92PLACEMENT OF GAS VENTING LAYER NOV 9 1992
AND VENTING PIPES

ACCEPT REJECT N/A

1. MATERIAL

- CRUSHED STONE AND SAND OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED FOR GEOTEXTILE AND POLYETHYLENE PIPES. (ATTACH COPY).

| | | |
|---|--|--|
| ✓ | | |
|---|--|--|

| | | |
|---|--|--|
| ✓ | | |
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2. PLACEMENT

- JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION.
- FINAL IN PLACE LOCATION AND THICKNESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS.
- LOCATION AND ELEVATIONS OF GAS VENTING PIPES ARE SHOWN ON THE DRAWING.
- LOOSE LIFT THICKNESS LESS THAN 8".
- GEOTEXTILE FABRIC IS LAPPED AT LEAST 18 INCHES.

| | | |
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| | | ✓ |
|--|--|---|

3. DUST CONTROL None Required4. LOCATION (APPROXIMATE) BETWEEN 0/5 TSD & 0/5 900 &
BETWEEN "X" GRID & NORTHERN EDGE OF STONE

5. REMARKS

PLACED GAS VENT STONE IN ABOVE
NOTED AREA.

INSPECTOR

Chris Buly
John D. For (Signature)

DATE 11-8-92

REVIEWED BY

DATE 11-10-92

PLACEMENT OF GAS VENTING LAYER
AND VENTING PIPES

FORM A-6
SHEET 1 OF 1
INSPECTION DATE 11-9-92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - CRUSHED STONE AND SAND OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED FOR GEOTEXTILE AND POLYETHYLENE PIPES. (ATTACH COPY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FINAL IN PLACE LOCATION AND THICKNESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - LOCATION AND ELEVATIONS OF GAS VENTING PIPES ARE SHOWN ON THE DRAWING. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - LOOSE LIFT THICKNESS LESS THAN 8". | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - GEOTEXTILE FABRIC IS LAPPED AT LEAST 18 INCHES. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. DUST CONTROL <u>NONE</u> | | | |
| 4. LOCATION (APPROXIMATE) <u>WELDED GAS VENT LINE BETWEEN PEAKS 3 & 4 & EXCAVATED WEST LATERAL LINE ON PEAK 4.</u> | | | |
| 5. REMARKS | | | |
| <u>CONTINUED PUSHING SAND & GRADING STONE ON NORTH</u> | | | |
| <u>SLOPE BETWEEN OFS 750 - OFS 900 / "X" GRAD 1/2</u> | | | |
| <u>NORTHERN EDGE OF CHANNEL.</u> | | | |
| NOV 10 1992 | | | |
| RECEIVED J.F. | | | |
| INSPECTOR | <u>Chris Bente</u> | | DATE <u>11-9-92</u> |
| REVIEWED BY | <u>John L. Fox (Geologist)</u> | | DATE <u>11-10-92</u> |

PLACEMENT OF GAS VENTING LAYER
AND VENTING PIPES

FORM A-6

SHEET 1 OF 1

INSPECTION DATE 11-10-92

ACCEPT REJECT N/A

1. MATERIAL

- CRUSHED STONE AND SAND OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.

✓

- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED FOR GEOTEXTILE AND POLYETHYLENE PIPES. (ATTACH COPY).

✓

2. PLACEMENT

- JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION.

✓



NOV 11 1992

- FINAL IN PLACE LOCATION AND THICKNESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS.

✓

- LOCATION AND ELEVATIONS OF GAS VENTING PIPES ARE SHOWN ON THE DRAWING.

✓

- LOOSE LIFT THICKNESS LESS THAN 8".

✓

- GEOTEXTILE FABRIC IS LAPPED AT LEAST 18 INCHES.

✓

3. DUST CONTROL NONE REQUIRED

4. LOCATION (APPROXIMATE) NORTH SLOPE of front Peak

5. REMARKS COMPLETED GAS VENT PIPING ON front Peak,

ALL GAS VENT PIPE COMPLETE. CONTINUED TO SPREAD

GAS VENT STONE ON NORTH SLOPE IN AREA BETWEEN S 750

& 0/5 900 & "X" GRID & NORTH EDGE OF CHANNEL.

INSPECTOR

Chris [Signature]

DATE 11-10-92

REVIEWED BY

John H. Fox (Geolotec)

DATE 11-11-92

PLACEMENT OF GAS VENTING LAYER
AND VENTING PIPES

FORM A-6
SHEET 1 OF 1
INSPECTION DATE 11-11-92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - CRUSHED STONE AND SAND OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED FOR GEOTEXTILE AND POLYETHYLENE PIPES. (ATTACH COPY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FINAL IN PLACE LOCATION AND THICKNESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - LOCATION AND ELEVATIONS OF GAS VENTING PIPES ARE SHOWN ON THE DRAWING. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - LOOSE LIFT THICKNESS LESS THAN 8". | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - GEOTEXTILE FABRIC IS LAPPED AT LEAST 18 INCHES. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. DUST CONTROL <u>NONE REQUIRED</u> | | | |
| 4. LOCATION (APPROXIMATE) <u>NORTHWEST CORNER OF SITE</u> | | | |
| 5. REMARKS <u>DEPLOYED SECONDARY 75 TON # GAS VENT STONE</u> <u>ON WESTERN PORTION OF NORTH SLOPE. AREA REMOVED</u> <u>BY J. FOX.</u> | | | |
| <div style="border: 1px solid black; padding: 5px; display: inline-block;"> NOV 12 1992 DECEIVED P. F. </div> | | | |
| INSPECTOR <u>Chris Banta</u> | | DATE <u>11-11-92</u> | |
| REVIEWED BY <u>John H. Fox (Deputy)</u> | | DATE <u>11-12-92</u> | |

FORM A-6

SHEET 1 OF 1INSPECTION DATE 11-12-92

PLACEMENT OF GAS VENTING LAYER AND VENTING PIPES

ACCEPT REJECT N/A

1. MATERIAL

- CRUSHED STONE AND SAND OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED FOR GEOTEXTILE AND POLYETHYLENE PIPES. (ATTACH COPY).

2. PLACEMENT

- JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION.
- FINAL IN PLACE LOCATION AND THICKNESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS.
- LOCATION AND ELEVATIONS OF GAS VENTING PIPES ARE SHOWN ON THE DRAWING.
- LOOSE LIFT THICKNESS LESS THAN 8".
- GEOTEXTILE FABRIC IS LAPPED AT LEAST 18 INCHES.

3. DUST CONTROL NONE REQUIRED

4. LOCATION (APPROXIMATE) NORTHWEST CORNER OF SITE, WEST TO 0/3 750

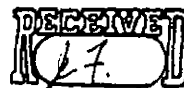
E NORTH PEAK

5. REMARKS CONTINUED GRADING GAS VENT STONE TRUCK ALSO IMPACTING IT.

J. FOX ASSIGNED GAS VENT STONE IN NE CORNER

OF SITE EASTWARD TO 0/3 750 PM PLACEMENT

OF PRIMARY GEOTEXTILE.



NOV 13 1992

INSPECTOR

Chris Brady

DATE 11-12-92

REVIEWED BY

John H. Fox (Geosyntec)

DATE 11-13-92

PLACEMENT OF GAS VENTING LAYER
AND VENTING PIPES

FORM A-6
SHEET 1 OF 1
INSPECTION DATE 11-15-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - CRUSHED STONE AND SAND OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED FOR GEOTEXTILE AND POLYETHYLENE PIPES. (ATTACH COPY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FINAL IN PLACE LOCATION AND THICKNESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - LOCATION AND ELEVATIONS OF GAS VENTING PIPES ARE SHOWN ON THE DRAWING. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - LOOSE LIFT THICKNESS LESS THAN 8". | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - GEOTEXTILE FABRIC IS LAPPED AT LEAST 18 INCHES. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. DUST CONTROL <u>NONE REQUIRED</u> | | | |

4. LOCATION (APPROXIMATE) BETWEEN PILES 3 & 4

5. REMARKS PLACED PRIMARY TS 700 AT ABOVE LOCATION WITH
APPROVAL FROM J. FOX.

NOV 16 1992



INSPECTOR Chris Banta DATE 11-16-92
REVIEWED BY John L. Fox (Geosyntec) DATE 11-16-92

FORM A-6

SHEET 1 OF 1INSPECTION DATE 11-17-92PLACEMENT OF GAS VENTING LAYER
AND VENTING PIPES

ACCEPT REJECT N/A

1. MATERIAL

- CRUSHED STONE AND SAND OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.

✓

- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED FOR GEOTEXTILE AND POLYETHYLENE PIPES. (ATTACH COPY).

✓

2. PLACEMENT

- JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION.

✓

- FINAL IN PLACE LOCATION AND THICKNESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS.

✓

- LOCATION AND ELEVATIONS OF GAS VENTING PIPES ARE SHOWN ON THE DRAWING.

✓

- LOOSE LIFT THICKNESS LESS THAN 8".

✓

- GEOTEXTILE FABRIC IS LAPPED AT LEAST 18 INCHES.

✓

3. DUST CONTROL None Required4. LOCATION (APPROXIMATE) North End of site of S 500 - of S 750

5. REMARKS COVERED CELA IN ABOVE AREA w/ SECONDARY
GEOTEXTILE
REINFORCEMENT - AREA APPROVED BY J. Fox if
GEOSYNTEL

NOV 18 1992

INSPECTOR [Signature]DATE 11-17-92REVIEWED BY [Signature]DATE 11-18-92

PLACEMENT OF GAS VENTING LAYER
AND VENTING PIPES

FORM A-6
SHEET 1 OF 1
INSPECTION DATE 11-18-92

| | ACCEPT | REJECT | N/A |
|--|--|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - CRUSHED STONE AND SAND OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED FOR GEOTEXTILE AND POLYETHYLENE PIPES. (ATTACH COPY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FINAL IN PLACE LOCATION AND THICKNESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - LOCATION AND ELEVATIONS OF GAS VENTING PIPES ARE SHOWN ON THE DRAWING. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - LOOSE LIFT THICKNESS LESS THAN 8". | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - GEOTEXTILE FABRIC IS LAPPED AT LEAST 18 INCHES. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. DUST CONTROL <u>NONE REQUIRED</u> | | | |
| 4. LOCATION (APPROXIMATE) <u>NORTH SLOPE - AREA BETWEEN 0/5 750 & 0/5 500 & NORTH OF "Y" GRID</u> | | | |
| 5. REMARKS <u>PLACED SECONDARY GEOTEXTURE IN ABOVE AREA (APPROVED BY J. FOX OF GEOSYNTEC) & COVERED W/ GAS VENT STONE. TS 1000 WAS USED IN SOME OF THIS AREA IN PLACE OF TS 700 - OK'D BY R. NORTH OF GEOSYNTEC PRIOR TO INSTALLING ^{TS1000} TS 700 INSTEAD OF TS 700.</u> | | | |
| INSPECTOR <u>Chris Bates</u> | <div style="border: 1px solid black; padding: 2px; display: inline-block;"> RECEIVED J.F. </div> | | DATE <u>11-18-92</u> |
| REVIEWED BY <u>John H. Fox (Geosyntec)</u> | | | DATE <u>11-19-92</u> |

NOV 19 1992

PLACEMENT OF GAS VENTING LAYER
AND VENTING PIPES

FORM A-6
SHEET 1 OF 1
INSPECTION DATE 11-19-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - CRUSHED STONE AND SAND OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED FOR GEOTEXTILE AND POLYETHYLENE PIPES. (ATTACH COPY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FINAL IN PLACE LOCATION AND THICKNESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - LOCATION AND ELEVATIONS OF GAS VENTING PIPES ARE SHOWN ON THE DRAWING. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - LOOSE LIFT THICKNESS LESS THAN 8". | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - GEOTEXTILE FABRIC IS LAPPED AT LEAST 18 INCHES. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. DUST CONTROL <u>NONE REQUIRED</u> | | | |

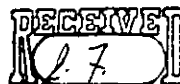
4. LOCATION (APPROXIMATE) NORTH SLOPE

5. REMARKS PLACED GAS VENT STONE WHERE

SECONDARY GEOTEXTILE WAS

PLACED YESTERDAY

NOV 20 1992



INSPECTOR Chris G. G.

DATE 11-19-92

REVIEWED BY John R. Fu (Moby)

DATE 11-20-92

PLACEMENT OF GAS VENTING LAYER
AND VENTING PIPES

NOV 21 1992

FORM A-6

SHEET 1 OF 1

INSPECTION DATE 11-20-92

1. MATERIAL

- CRUSHED STONE AND SAND OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED FOR GEOTEXTILE AND POLYETHYLENE PIPES. (ATTACH COPY).

2. PLACEMENT

- JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION.
- FINAL IN PLACE LOCATION AND THICKNESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS.
- LOCATION AND ELEVATIONS OF GAS VENTING PIPES ARE SHOWN ON THE DRAWING.
- LOOSE LIFT THICKNESS LESS THAN 8".
- GEOTEXTILE FABRIC IS LAPPED AT LEAST 18 INCHES.

3. DUST CONTROL NONE REQUIRED

4. LOCATION (APPROXIMATE) 400' FROM E. WEST SIDE OF VALLEY No. 3

5. REMARKS PLACED PRIMARY GEOTEXTILE ON GAS VENT

STONE APPROVED BY J. FOX OF GEOSYNTEC

INSPECTOR

DATE 11-20-92

REVIEWED BY

DATE 11/21/92

NOV 24 1992

FORM A-6

SHEET

OF

INSPECTION DATE 11-23-92

PLACEMENT OF GAS VENTING LAYER
AND VENTING PIPES

ACCEPT

REJECT

N/A

1. MATERIAL

- CRUSHED STONE AND SAND OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED FOR GEOTEXTILE AND POLYETHYLENE PIPES. (ATTACH COPY).

2. PLACEMENT

- JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION.
- FINAL IN PLACE LOCATION AND THICKNESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS.
- LOCATION AND ELEVATIONS OF GAS VENTING PIPES ARE SHOWN ON THE DRAWING.
- LOOSE LIFT THICKNESS LESS THAN 8".
- GEOTEXTILE FABRIC IS LAPPED AT LEAST 18 INCHES.

3. DUST CONTROL

NONE REQUIRED

4. LOCATION (APPROXIMATE)

NORTHWEST CORNER

5. REMARKS

CONTINUED PUSHING GAS VENT STONE INTO
THE NORTHWEST CORNER

INSPECTOR

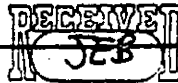
DATE 11-23-92

REVIEWED BY

DATE 11/24/92

PLACEMENT OF GAS VENTING LAYER
AND VENTING PIPES

FORM A-6
NOV 22 1992 SHEET 1 OF 1
INSPECTION DATE 11-21-92



ACCEPT REJECT N/A

1. MATERIAL

- CRUSHED STONE AND SAND OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED FOR GEOTEXTILE AND POLYETHYLENE PIPES. (ATTACH COPY).

| | | |
|---|--|--|
| ✓ | | |
| ✓ | | |

2. PLACEMENT

- JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION.
- FINAL IN PLACE LOCATION AND THICKNESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS.
- LOCATION AND ELEVATIONS OF GAS VENTING PIPES ARE SHOWN ON THE DRAWING.
- LOOSE LIFT THICKNESS LESS THAN 8".
- GEOTEXTILE FABRIC IS LAPPED AT LEAST 18 INCHES.

| | | |
|---|--|---|
| ✓ | | |
| ✓ | | |
| ✓ | | |
| | | ✓ |
| | | ✓ |

3. DUST CONTROL NONE REQUIRED

4. LOCATION (APPROXIMATE) NORTHWEST CORNER OF SITE AND THE NORTH SIDE

5. REMARKS THE LAST OF THE CELA SUBGRADE IN THE NORTHWEST CORNER OF THE SITE WAS APPROVED BY GDSYNTEL AND THE SECONDARY GEOTEXTILE LAYER WAS THEN COMPLETED. GAS VENT STONE PLACEMENT THEN BEGAN IN THIS AREA. PRIMARY GEOTEXTILE WAS ALSO PLACED IN ~~OTHER AREAS~~ OTHER AREAS APPROVED BY GDSYNTEL.

INSPECTOR

Chris Bate

DATE 11-21-92

REVIEWED BY

Jonathan Braveros

DATE 11/23/92

NOV 25 1992

FORM A-6

SHEET 21 OF 1INSPECTION DATE 11-24-92PLACEMENT OF GAS VENTING LAYER
AND VENTING PIPES

ACCEPT REJECT N/A

1. MATERIAL

- CRUSHED STONE AND SAND OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED FOR GEOTEXTILE AND POLYETHYLENE PIPES. (ATTACH COPY).

| | | |
|---|--|--|
| ✓ | | |
| ✓ | | |

2. PLACEMENT

- JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION.
- FINAL IN PLACE LOCATION AND THICKNESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS.
- LOCATION AND ELEVATIONS OF GAS VENTING PIPES ARE SHOWN ON THE DRAWING.
- LOOSE LIFT THICKNESS LESS THAN 8".
- GEOTEXTILE FABRIC IS LAPPED AT LEAST 18 INCHES.

| | | |
|---|--|---|
| ✓ | | |
| ✓ | | |
| ✓ | | |
| | | ✓ |
| | | ✓ |

3. DUST CONTROL NONE REQUIRED4. LOCATION (APPROXIMATE) NORTHWEST CORNER5. REMARKS CONTINUED TO IMPROVE PLACE

GAS VENT STONE IN THE NORTHWEST
CORNER OF THE SITE

INSPECTOR

Chris BateDATE 11-24-92

REVIEWED BY

Jonathan BrandesDATE 11/25/92

NOV 30 1992

FORM A-6

SHEET 1 OF 1
INSPECTION DATE 11-25-92PLACEMENT OF GAS VENTING LAYER
AND VENTING PIPES

1. MATERIAL

- CRUSHED STONE AND SAND OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED FOR GEOTEXTILE AND POLYETHYLENE PIPES. (ATTACH COPY).

ACCEPT REJECT N/A

2. PLACEMENT

- JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION.
- FINAL IN PLACE LOCATION AND THICKNESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS.
- LOCATION AND ELEVATIONS OF GAS VENTING PIPES ARE SHOWN ON THE DRAWING.
- LOOSE LIFT THICKNESS LESS THAN 8".
- GEOTEXTILE FABRIC IS LAPPED AT LEAST 18 INCHES.

3. DUST CONTROL None Required4. LOCATION (APPROXIMATE) NORTHWEST CORNER of SITE5. REMARKS COMPLETED THE IMPROVEMENT & PLACEMENT of
GAS VENT STONE - WILL OBTAIN FINAL
APPROVAL MONDAY, NOV 30 & COVER w/ PRIMARY
GEOTEXTILE.

INSPECTOR

DATE

REVIEWED BY

DATE

DEC 02 1992
RECEIVED
JEB

FORM A-6
SHEET 1 OF 1
INSPECTION DATE 12-1-92

PLACEMENT OF GAS VENTING LAYER
AND VENTING PIPES

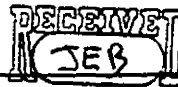
| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - CRUSHED STONE AND SAND OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED FOR GEOTEXTILE AND POLYETHYLENE PIPES. (ATTACH COPY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FINAL IN PLACE LOCATION AND THICKNESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - LOCATION AND ELEVATIONS OF GAS VENTING PIPES ARE SHOWN ON THE DRAWING. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - LOOSE LIFT THICKNESS LESS THAN 8". | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - GEOTEXTILE FABRIC IS LAPPED AT LEAST 18 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. DUST CONTROL <u>NONE REQUIRED</u> | | | |
| 4. LOCATION (APPROXIMATE) <u>NORTHWEST CORNER OF THE SITE</u> | | | |
| 5. REMARKS <u>RECEIVED APPROVAL FROM J. BRUNDES OF GERSYNTE</u> <u>ON LAST OF EXPOSED GAS VENT STONE.</u> <u>ALL GAS VENT STONE IS NOW ACCEPTED.</u> | | | |
| INSPECTOR <u>[Signature]</u> | | | DATE <u>12-1-92</u> |
| REVIEWED BY <u>[Signature]</u> | | | DATE <u>12/2/92</u> |

PLACEMENT OF GAS VENTING LAYER
AND VENTING PIPES

DEC 03 1992

FORM A-6

SHEET 1 OF 1
INSPECTION DATE 12-2-92



ACCEPT REJECT N/A

1. MATERIAL

- CRUSHED STONE AND SAND OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED FOR GEOTEXTILE AND POLYETHYLENE PIPES. (ATTACH COPY).

| | | |
|---|--|--|
| ✓ | | |
| ✓ | | |

2. PLACEMENT

- JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION.
- FINAL IN PLACE LOCATION AND THICKNESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS.
- LOCATION AND ELEVATIONS OF GAS VENTING PIPES ARE SHOWN ON THE DRAWING.
- LOOSE LIFT THICKNESS LESS THAN 8".
- GEOTEXTILE FABRIC IS LAPPED AT LEAST 18 INCHES.

| | | |
|---|--|---|
| ✓ | | |
| ✓ | | |
| ✓ | | |
| | | ✓ |
| ✓ | | |

3. DUST CONTROL NONE REQUIRED

4. LOCATION (APPROXIMATE) NORTHWEST CORNER OF THE SITE

5. REMARKS PLACING PRIMARY GEOTEXTILE ON GAS VENT STRIPS
TODAY IN AREA PREVIOUSLY ACCEPTED BY GEOSYNTEC.
USING 75000 GEOTEXTILE & OVERLAPPING IT AS REQUIRED.

INSPECTOR

Charles A. Burt

DATE 12-2-92

REVIEWED BY

Jonathan Bransky

DATE 12/3/92

PLACEMENT OF GAS VENTING LAYER
AND VENTING PIPES

DEC 04 1992

FORM A-6



SHEET 1 OF 1

INSPECTION DATE 12-3-92

ACCEPT REJECT N/A

1. MATERIAL

- CRUSHED STONE AND SAND OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED FOR GEOTEXTILE AND POLYETHYLENE PIPES. (ATTACH COPY).

✓
✓

2. PLACEMENT

- JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION.
- FINAL IN PLACE LOCATION AND THICKNESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS.
- LOCATION AND ELEVATIONS OF GAS VENTING PIPES ARE SHOWN ON THE DRAWING.
- LOOSE LIFT THICKNESS LESS THAN 8".
- GEOTEXTILE FABRIC IS LAPPED AT LEAST 18 INCHES.

✓
✓
✓
✓

3. DUST CONTROL NONE REQUIRED

4. LOCATION (APPROXIMATE) NORTHWEST CORNER OF SITE

5. REMARKS INSTALLING TS 1000 AS PRIMARY GEOTEXTILE
ON GAS VENT STONE ACCEPTED BY GEOSYNTEC

INSPECTOR

Chris B...

DATE 12-3-92

REVIEWED BY

Jonathan Brancos

DATE 12/4/92

DEC 07 1992



FORM A-6

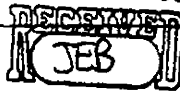
SHEET 1 OF 1INSPECTION DATE 12-4-92PLACEMENT OF GAS VENTING LAYER
AND VENTING PIPES

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - CRUSHED STONE AND SAND OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED FOR GEOTEXTILE AND POLYETHYLENE PIPES. (ATTACH COPY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FINAL IN PLACE LOCATION AND THICKNESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - LOCATION AND ELEVATIONS OF GAS VENTING PIPES ARE SHOWN ON THE DRAWING. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - LOOSE LIFT THICKNESS LESS THAN 8". | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - GEOTEXTILE FABRIC IS LAPPED AT LEAST 18 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. DUST CONTROL <u>NONE REQUIRED</u> | | | |
| 4. LOCATION (APPROXIMATE) <u>WEST SIDE OF SITE NEAR</u> <u>NORTHEAST HAVEN ROAD INTO CELA</u> | | | |
| 5. REMARKS <u>PUTTING LAST OF PRIMARY GEOTEXTILE</u> <u>ON GAS VENT STAKE - TO 1000, OVERLAPPED</u> <u>NOT STITCHED</u> | | | |
| INSPECTOR <u>Chay B...</u> | | DATE <u>12-4-92</u> | |
| REVIEWED BY <u>Jonathan Brancos</u> | | DATE <u>12/7/92</u> | |

GUNDSEAL LINER

MAY 27 1993

SHEET 1 OF 1
INSPECTION DATE 5-26-93



1. MATERIAL

MANUFACTURER'S MILL CERTIFICATE OR
AFFIDAVIT HAS BEEN PROVIDED

ACCEPT

REJECT

N/A

FREE FROM DEFECTS, RIPS, HOLES,
FLAWS, PETERIORATION OR DAMAGE.

2. VERIFICATION INSPECTION

GAS VENTING LAYER ON WHICH GUNDSEAL
LINER IS TO BE LAID IS SMOOTH, FREE
FROM IRREGULAR SURFACE CHANGES AND
UNIFORMLY GRADED.

SURFACE IS FREE FROM PROTRUSIONS
AND POCKS LARGER THAN 1/2 INCH
IN DIAMETER.

OVERLAP IS AT LEAST 24 INCHES

GUNDSEAL IS PROTECTED FROM RAIN
AFTER IT IS INSTALLED.

3. RISK CONTROL

ACTION TAKEN

N/A

4. LOCATION (APPROXIMATE)

N-W corner channel

5. REMARKS

Gundseal installation now complete

SF INSTALLED TODAY = 9,000±

SF INSTALLED TO DATE = 596,698

INSPECTOR

Jonathan Brandes

DATE 5-27-93

REVIEWED BY

Jonathan Brandes

DATE 5/27/93

GUNDSEAL LINER

MAY 27 1993

SHEET 1 OF 1
INSPECTION DATE 5-25-93



ACCEPT REJECT N/A

1. MATERIAL

- MANUFACTURER'S MILL CERTIFICATE OR
AFFIDAVIT HAS BEEN PROVIDED

/

FREE FROM DEFECTS, RIPS, HOLES,
FLAWS, DETERIORATION OR DAMAGE.

/

2. VERIFICATION INSPECTION

GAS VENTING LAYER ON WHICH GUNDSEAL
LINER IS TO BE LAID IS SMOOTH, FREE
FROM IRREGULAR SURFACE CHANGES AND
UNEVENLY GRADED.

/

SURFACE IS FREE FROM PROTRUSIONS
AND POTS LARGER THAN 1/2 INCH
IN DIAMETER.

/

OVERLAP IS AT LEAST 24 INCHES

/

- GUNDSEAL IS PROTECTED FROM RAIN
AFTER IT IS INSTALLED.

/

3. DUST CONTROL

ACTION TAKEN NONE

4. LOCATION (APPROXIMATE)

West channel from C-106 north to C118

5. REMARKS

SF INSTALLED TODAY = 9,000

SF INSTALLED TO DATE = 587,698

INSPECTOR James P. Martin

DATE 5/26/93

REVIEWED BY Jonathan Brandes

DATE 5/27/93

GUNDSEAL LINER

MAY 24 1993

SHEET 1 OF 1
INSPECTION DATE 5-24-93

1. MATERIAL

MANUFACTURER'S MILL CERTIFICATE OR
AFFIDAVIT HAS BEEN PROVIDED

ACCEPT

REJECT

N/A

FREE FROM DEFECTS, RIPS, HOLES,
FLAWS, DEGRADATION OR DAMAGE.

2. VERIFICATION INSPECTION

GAS PERMEATING LAYER ON WHICH GUNDSEAL
LINER IS TO BE LAID IS SMOOTH, FREE
FROM IRREGULAR SURFACE CHANGES AND
UNDESIRABLY GRADED.- SURFACE IS FREE FROM PROTRUSIONS
AND ROCKS LARGER THAN 1/2 INCH
IN DIAMETER.

OVERLAP IS AT LEAST 24 INCHES

- GUNDSEAL IS PROTECTED FROM RAIN
AFTER IT IS INSTALLED.

3. DUST CONTROL

ACTION TAKEN

N/A

4. LOCATION (APPROXIMATE)

West channel

5. REMARKS

SF INSTALLED TODAY =

6,000²

SF INSTALLED TO DATE =

584,698

INSPECTOR

James J. Martin

DATE 5-24-93

REVIEWED BY

Jonathan Brandes

DATE 5/25/93

GUNDSEAL LINER

MAY 19 1993

SHEET 1 OF 1
INSPECTION DATE 5/19/93

ACCEPT REJECT N/A

1. MATERIAL

- MANUFACTURER'S MILL CERTIFICATE OR
AFFIDAVIT HAS BEEN PROVIDED

/

- FREE FROM DEFECTS, RIPS, HOLES,
FLAWS, DEGRADATION OR DAMAGE.

/

2. VERIFICATION INSPECTION

- GAS VENTING LAYER ON WHICH GUNDSEAL
LINER IS TO BE LAID IS SMOOTH, FREE
FROM IRREGULAR SURFACE CHANGES AND
UNIFORMLY GRADED.

/

- SURFACE IS FREE FROM PROTRUSIONS
AND ROCKS LARGER THAN 1/2 INCH
IN DIAMETER.

/

- OVERLAP IS AT LEAST 24 INCHES

/

- GUNDSEAL IS PROTECTED FROM RAIN
AFTER IT IS INSTALLED.

/

3. DUST CONTROL

ACTION TAKEN NONE REQUIRED

4. LOCATION (APPROXIMATE)

Top extension from N-E corner West 500'
in north channel

5. REMARKS

SF INSTALLED TODAY = 9,000SF INSTALLED TO DATE = 570,698

INSPECTOR

James L. MartinDATE 5/19/93

REVIEWED BY

Jonathan BrandoDATE 5/20/93

GUNDSEAL LINER

MAY 19 1993



SHEET 1 OF 1
INSPECTION DATE 5-14-93

1. MATERIAL

- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED

ACCEPT REJECT N/A

✓

- FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE.

✓

2. VERIFICATION INSPECTION

- GAS VENTING LAYER ON WHICH GUNDSEAL LINER IS TO BE LAID IS SMOOTH, FREE FROM IRREGULAR SURFACE CHANGES AND UNIFORMLY GRADED.

✓

- SURFACE IS FREE FROM PROTRUSIONS AND ROCKS LARGER THAN 1/2 INCH IN DIAMETER.

✓

- OVERLAP IS AT LEAST 24 INCHES

✓

- GUNDSEAL IS PROTECTED FROM RAIN AFTER IT IS INSTALLED.

✓

3. DUST CONTROL

ACTION TAKEN NONE REQUIRED

4. LOCATION (APPROXIMATE)

5. REMARKS Gundseal installed in EMT channel for cap extension.

SF INSTALLED TODAY = 6,000~

SF INSTALLED TO DATE = 569,698~

INSPECTOR

James H. Martin

DATE 5-14-93

REVIEWED BY

Jonathan Braneles

DATE 5/24/93

DEC 21 1992

SHEET 1 OF 1
INSPECTION DATE 12-19-92

GUNDSEAL LINER

ACCEPT REJECT N/A

1. MATERIAL

- MANUFACTURER'S MILL CERTIFICATE OR
AFFIDAVIT HAS BEEN PROVIDED

✓

- FREE FROM DEFECTS, RIPS, HOLES,
FLAWS, DETERIORATION OR DAMAGE.

✓

2. VERIFICATION INSPECTION

- GAS VENTING LAYER ON WHICH GUNDSEAL
LINER IS TO BE LAID IS SMOOTH, FREE
FROM IRREGULAR SURFACE CHANGES AND
UNIFORMLY GRADED.

✓

- SURFACE IS FREE FROM PROTRUSIONS
AND ROCKS LARGER THAN 1/2 INCH
IN DIAMETER.

✓

- OVERLAP IS AT LEAST 24 INCHES

✓

- GUNDSEAL IS PROTECTED FROM RAIN
AFTER IT IS INSTALLED.

✓

3. DUST CONTROL

ACTION TAKEN NONE REQUIRED

4. LOCATION (APPROXIMATE)

NORTHEAST CORNER OF CELA

5. REMARKS

PLACED PANEL ON ~~THE~~ NORTHEAST/MOST CORNER OF CELA

SF INSTALLED TODAY = ~~APPROX~~ 1625 SF

SF INSTALLED TO DATE = 563,698 SF (^{UNDERSLIMEL} 90,946 SF + ^{CELA} 523,132)

INSPECTOR

Chris B...

DATE 12-19-92

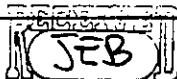
REVIEWED BY

Jonathan Brando

DATE 12-22-92

GUNDSEAL LINER

DEC 07 1992

SHEET 1 OF 1
INSPECTION DATE 12/4/92

1. MATERIAL

ACCEPT REJECT N/A

- MANUFACTURER'S MILL CERTIFICATE OR
AFFIDAVIT HAS BEEN PROVIDED

✓

- FREE FROM DEFECTS, RIPS, HOLES,
FLAWS, DETERIORATION OR DAMAGE.

✓

2. VERIFICATION INSPECTION

- GAS VENTING LAYER ON WHICH GUNDSEAL
LINER IS TO BE LAID IS SMOOTH, FREE
FROM IRREGULAR SURFACE CHANGES AND
UNIFORMLY GRADED.

✓

- SURFACE IS FREE FROM PROTRUSIONS
AND ROCKS LARGER THAN 1/2 INCH
IN DIAMETER.

✓

- OVERLAP IS AT LEAST 24 INCHES

✓

- GUNDSEAL IS PROTECTED FROM RAIN
AFTER IT IS INSTALLED.

✓

3. DUST CONTROL

ACTION TAKEN NONE REQUIRED

4. LOCATION (APPROXIMATE)

NORTH WEST CORNER5. REMARKS COMPLETED GUNDSEAL DEPLOYMENT ONCELA TODAYSF INSTALLED TODAY = 48,000 SFSF INSTALLED TO DATE = 562,073 SF (^{UNDERRIVER} 49,566 SF + ^{CELA} 521,507 SF)INSPECTOR Christopher A. B...DATE 12-7-92REVIEWED BY Jonathan Bander...DATE 12/7/92

GUNDSEAL LINER

DEC 04 1992

SHEET 1 OF 1
INSPECTION DATE 12/3/92

ACCEPT REJECT N/A

1. MATERIAL

- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED
- FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE.

| | | |
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| ✓ | | |
| ✓ | | |

2. VERIFICATION INSPECTION

- GAS VENTING LAYER ON WHICH GUNDSEAL LINER IS TO BE LAID IS SMOOTH, FREE FROM IRREGULAR SURFACE CHANGES AND UNIFORMLY GRADED.
- SURFACE IS FREE FROM PROTRUSIONS AND ROCKS LARGER THAN 1/2 INCH IN DIAMETER.
- OVERLAP IS AT LEAST 24 INCHES
- GUNDSEAL IS PROTECTED FROM RAIN AFTER IT IS INSTALLED.

| | | |
|---|--|--|
| ✓ | | |
| ✓ | | |
| ✓ | | |
| ✓ | | |

3. DUST CONTROL

ACTION TAKEN NONE REQUIRED

4. LOCATION (APPROXIMATE)

NW CORNER5. REMARKS NONESF INSTALLED TODAY = 12,400 SFSF INSTALLED TO DATE = 514,073 SF (UNDRAINAL 40,526 + CREA 473,507)INSPECTOR Chris B. J.DATE 12-3-92REVIEWED BY Jonathan BrandesDATE 12/4/92

GUNDSEAL LINER

DEC 03 1992

SHEET 1 OF 1
INSPECTION DATE 12/2/92

1. MATERIAL

ACCEPT REJECT N/A

- MANUFACTURER'S MILL CERTIFICATE OR
AFFIDAVIT HAS BEEN PROVIDED

✓

- FREE FROM DEFECTS, RIPS, HOLES,
FLAWS, DETERIORATION OR DAMAGE.

✓

2. VERIFICATION INSPECTION

- GAS VENTING LAYER ON WHICH GUNDSEAL
LINER IS TO BE LAID IS SMOOTH, FREE
FROM IRREGULAR SURFACE CHANGES AND
UNIFORMLY GRADED.

✓

- SURFACE IS FREE FROM PROTRUSIONS
AND ROCKS LARGER THAN 1/2 INCH
IN DIAMETER.

✓

- OVERLAP IS AT LEAST 24 INCHES

✓

- GUNDSEAL IS PROTECTED FROM RAIN
AFTER IT IS INSTALLED.

✓

3. DUST CONTROL

ACTION TAKEN NONE REQUIRED

4. LOCATION (APPROXIMATE)

NW CORNER

5. REMARKS

NONESC SF INSTALLED TODAY = 24,800 SFSF INSTALLED TO DATE = 501,673 SF (UNDERLINER CELA
40,526 SF + 461,107 SF)INSPECTOR Christopher D. [Signature]DATE 12-2-92REVIEWED BY Jonathan BrandolesDATE 12/3/92

GUNDSEAL LINER

DEC 02 1992

SHEET 1 OF 1
INSPECTION DATE 12/1/92



ACCEPT REJECT N/A

1. MATERIAL

- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED
- FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE.

✓
✓

2. VERIFICATION INSPECTION

- GAS VENTING LAYER ON WHICH GUNDSEAL LINER IS TO BE LAID IS SMOOTH, FREE FROM IRREGULAR SURFACE CHANGES AND UNIFORMLY GRADED.
- SURFACE IS FREE FROM PROTRUSIONS AND ROCKS LARGER THAN 1/2 INCH IN DIAMETER.
- OVERLAP IS AT LEAST 24 INCHES
- GUNDSEAL IS PROTECTED FROM RAIN AFTER IT IS INSTALLED.

✓
✓
✓
✓

DUST CONTROL

ACTION TAKEN NONE REQUIRED

4. LOCATION (APPROXIMATE)

NW CORNER

5. REMARKS NONE

SF INSTALLED TODAY = 18,600 SF

SF INSTALLED TO DATE = 476,873 SF (CELA 436,307 + UNDERLINER 40,566)

INSPECTOR Chris [Signature] DATE 12-1-92

REVIEWED BY Jonathan Brandoles DATE 12/3/92

DEC 01 1992

FORM A-7
SHEET 1 OF 1
INSPECTION DATE 11/30/92

GUNDSEAL LINER



| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|--------------------------|
| MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. VERIFICATION INSPECTION | | | |
| - GAS VENTING LAYER ON WHICH GUNDSEAL LINER IS TO BE LAID IS SMOOTH, FREE FROM IRREGULAR SURFACE CHANGES AND UNIFORMLY GRADED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SURFACE IS FREE FROM PROTRUSIONS AND ROCKS LARGER THAN 1/2 INCH IN DIAMETER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - OVERLAP IS AT LEAST 24 INCHES | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - GUNDSEAL IS PROTECTED FROM RAIN AFTER IT IS INSTALLED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. DUST CONTROL | | | |
| ACTION TAKEN | <u>NONE REQUIRED</u> | | |
| 4. LOCATION (APPROXIMATE) | | | |
| <u>NORTH END.</u> | | | |
| 5. REMARKS | | | |
| <u>NONE</u> | | | |
| <u>S.C.</u> | | | |
| SF INSTALLED TODAY = <u>39,000 SF</u> | | | |
| SF INSTALLED TO DATE = <u>458,273 SF</u> (<u>40,546</u> + <u>417,707</u>) | | | |
| <u>UNDERLAYER</u> | | | |
| <u>CELA</u> | | | |
| INSPECTOR | <u>Chris Burt</u> | | DATE <u>11-30-92</u> |
| REVIEWED BY | <u>Jonathan Brander</u> | | DATE <u>12/1/92</u> |

GUNDSEAL LINER

NOV 25 1992



FORM A-7
SHEET 1 OF 1
INSPECTION DATE 11/24/92

ACCEPT REJECT N/A

1. MATERIAL

- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED
- FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE.

✓
✓

2. VERIFICATION INSPECTION

- GAS VENTING LAYER ON WHICH GUNDSEAL LINER IS TO BE LAID IS SMOOTH, FREE FROM IRREGULAR SURFACE CHANGES AND UNIFORMLY GRADED.
- SURFACE IS FREE FROM PROTRUSIONS AND ROCKS LARGER THAN 1/2 INCH IN DIAMETER.
- OVERLAP IS AT LEAST 24 INCHES
- GUNDSEAL IS PROTECTED FROM RAIN AFTER IT IS INSTALLED.

✓
✓
✓
✓

3. DUST CONTROL

ACTION TAKEN None Required

4. LOCATION (APPROXIMATE)

North End

5. REMARKS None

SF INSTALLED TODAY = 36,000

SF INSTALLED TO DATE = 419,273

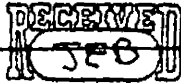
INSPECTOR Chris Bate DATE 11/24/92

REVIEWED BY Jonathan Brando DATE 11/25/92

NOV 23 1992

FORM A-7
SHEET 1 OF 1
INSPECTION DATE 11-22-92

GUNDSEAL LINER



ACCEPT REJECT N/A

1. MATERIAL

- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED
- FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE.

✓
✓

2. VERIFICATION INSPECTION

- GAS VENTING LAYER ON WHICH GUNDSEAL LINER IS TO BE LAID IS SMOOTH, FREE FROM IRREGULAR SURFACE CHANGES AND UNIFORMLY GRADED.
- SURFACE IS FREE FROM PROTRUSIONS AND ROCKS LARGER THAN 1/2 INCH IN DIAMETER.
- OVERLAP IS AT LEAST 24 INCHES
- GUNDSEAL IS PROTECTED FROM RAIN AFTER IT IS INSTALLED.

✓
✓
✓
✓

3. DUST CONTROL

ACTION TAKEN

NONE REQUIRED

4. LOCATION (APPROXIMATE)

5. REMARKS EAST SIDE + OVER BREAK POINT.

RAIN STOPPED ANY FURTHER INSTALLATION C. NOW.

SF INSTALLED TODAY = 18,000 SF

SF INSTALLED TO DATE = 382,800 SF

INSPECTOR

Chris Butler

DATE 11-22-92

REVIEWED BY

Jonathan Brandes

DATE 11/24/92

GUNDSEAL LINER

NOV 22 1992



FORM A-7 ✓
SHEET 1 OF 1
INSPECTION DATE 11-21

ACCEPT REJECT N/A

1. MATERIAL

- MANUFACTURER'S MILL CERTIFICATE OR
AFFIDAVIT HAS BEEN PROVIDED

✓

- FREE FROM DEFECTS, RIPS, HOLES,
FLAWS, DETERIORATION OR DAMAGE.

✓

2. VERIFICATION INSPECTION

- GAS VENTING LAYER ON WHICH GUNDSEAL
LINER IS TO BE LAID IS SMOOTH, FREE
FROM IRREGULAR SURFACE CHANGES AND
UNIFORMLY GRADED,

✓

- SURFACE IS FREE FROM PROTRUSIONS
AND ROCKS LARGER THAN 1/2 INCH
IN DIAMETER,

✓

- OVERLAP IS AT LEAST 24 INCHES

✓

- GUNDSEAL IS PROTECTED FROM RAIN
AFTER IT IS INSTALLED.

✓

3. DUST CONTROL

ACTION TAKEN NONE REQUIRED

4. LOCATION (APPROXIMATE)

CELA WEST SIDE UNDER PIS 63964

5. REMARKS

NONE

SF INSTALLED TODAY = 9000~

SF INSTALLED TO DATE = 364,800 SF?

INSPECTOR

Chris Burt

DATE 11-21-92

REVIEWED BY

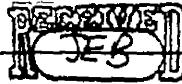
Jonathan Brando

DATE 11/22/92

NOV 21 1992

FORM A-7
SHEET 1 OF 1
INSPECTION DATE 11-20-92

GUNDSEAL LINER



ACCEPT REJECT N/A

1. MATERIAL

- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED

✓

- FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE.

✓

2. VERIFICATION INSPECTION

- GAS VENTING LAYER ON WHICH GUNDSEAL LINER IS TO BE LAID IS SMOOTH, FREE FROM IRREGULAR SURFACE CHANGES AND UNIFORMLY GRADED.

✓

- SURFACE IS FREE FROM PROTRUSIONS AND ROCKS LARGER THAN 1/2 INCH IN DIAMETER.

✓

- OVERLAP IS AT LEAST 24 INCHES

✓

- GUNDSEAL IS PROTECTED FROM RAIN AFTER IT IS INSTALLED.

✓

3. DUST CONTROL

ACTION TAKEN None Required

4. LOCATION (APPROXIMATE)

CAP 15,000' Channel 500' (Back Fill Robsheet)

5. REMARKS None

JMB 11-20

SF INSTALLED TODAY = 15,500'

SF INSTALLED TO DATE = 355,800'

INSPECTOR Chris Baily

DATE 11-20-92

REVIEWED BY Jonathan Brander

DATE 11/21/92

GUNDSEAL LINER

FORM A-7
SHEET 1 OF 1
INSPECTION DATE 11-19-92

ACCEPT REJECT N/A

1. MATERIAL

- MANUFACTURER'S MILL CERTIFICATE OR
AFFIDAVIT HAS BEEN PROVIDED

✓

- FREE FROM DEFECTS, RIPS, HOLES,
FLAWS, DETERIORATION OR DAMAGE.

✓

2. VERIFICATION INSPECTION

- GAS VENTING LAYER ON WHICH GUNDSEAL
LINER IS TO BE LAID IS SMOOTH, FREE
FROM IRREGULAR SURFACE CHANGES AND
UNIFORMLY GRADED.

✓

- SURFACE IS FREE FROM PROTRUSIONS
AND ROCKS LARGER THAN 1/2 INCH
IN DIAMETER.

✓

- OVERLAP IS AT LEAST 24 INCHES

✓

- GUNDSEAL IS PROTECTED FROM RAIN
AFTER IT IS INSTALLED.

✓

3. DUST CONTROL

ACTION TAKEN

NONE REQUIRED

NOV 20 1992

4. LOCATION (APPROXIMATE)

E. CELL N. of 3rd peak

5. REMARKS

NONESF INSTALLED TODAY = 41,090²SF INSTALLED TO DATE = 340,300²

INSPECTOR

Chris BaileyDATE 11-19-92

REVIEWED BY

John H. Fox (Doolygate)DATE 11-20-92

GUNDSEAL LINER

FORM A-7, OF 1
SHEET 1 OF 1
INSPECTION DATE 11-18-92

ACCEPT REJECT N/A

1. MATERIAL

- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED
- FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE.

✓

✓

2. VERIFICATION INSPECTION

- GAS VENTING LAYER ON WHICH GUNDSEAL LINER IS TO BE LAID IS SMOOTH, FREE FROM IRREGULAR SURFACE CHANGES AND UNIFORMLY GRADED.
- SURFACE IS FREE FROM PROTRUSIONS AND ROCKS LARGER THAN 1/2 INCH IN DIAMETER.
- OVERLAP IS AT LEAST 24 INCHES
- GUNDSEAL IS PROTECTED FROM RAIN AFTER IT IS INSTALLED.

✓

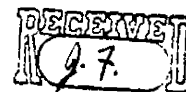
✓

✓

✓

3. DUST CONTROL

ACTION TAKEN NONE REQUIRED



NOV 19 1992

4. LOCATION (APPROXIMATE)

EAST Channel - GRID "P" NORTH TO GRID "R"

5. REMARKS

Pulled back Panels C40, 43, 44 & 51

INSTALLED GUNDSEAL UNDER 40, 43 & 44 IN CHANNEL

SF INSTALLED TODAY = 900 SF

JOHN 11-18

SF INSTALLED TO DATE = 29,210 SF

INSPECTOR

Chris Batty

DATE 11-18-92

REVIEWED BY

John H. Fox (Geolyntr)

DATE 11-19-92

GUNDSEAL LINER

FORM A-7

SHEET 1 OF 1INSPECTION DATE 11-14-92

ACCEPT REJECT N/A

1. MATERIAL

- MANUFACTURER'S MILL CERTIFICATE OR
AFFIDAVIT HAS BEEN PROVIDED

- FREE FROM DEFECTS, RIPS, HOLES,
FLAWS, DETERIORATION OR DAMAGE.

2. VERIFICATION INSPECTION

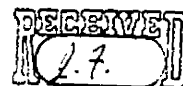
- GAS VENTING LAYER ON WHICH GUNDSEAL
LINER IS TO BE LAID IS SMOOTH, FREE
FROM IRREGULAR SURFACE CHANGES AND
UNIFORMLY GRADED.

- SURFACE IS FREE FROM PROTRUSIONS
AND ROCKS LARGER THAN 1/2 INCH
IN DIAMETER.

- OVERLAP IS AT LEAST 24 INCHES

- GUNDSEAL IS PROTECTED FROM RAIN
AFTER IT IS INSTALLED.

NOV 14 1992



3. DUST CONTROL

ACTION TAKEN NONE REQUIRED

4. LOCATION (APPROXIMATE)

WEST CHANNEL5. REMARKS REMOVED ^{REPLACED} LAST PIECE OF HYDRATED GUNDSEAL, AND CONTINUEDTO PLACE GUNDSEAL IN THE CHANNEL SINCE IT HAD NOT BEEN
PLACED BEFORESF INSTALLED TODAY = 2200SF INSTALLED TO DATE = 298,310INSPECTOR Chris GaultDATE 11-14-92REVIEWED BY John D. Fox (Geosyntec)DATE 11-16-92

GUNDSEAL LINER

FORM A-7 /
SHEET 1 OF 1
INSPECTION DATE 11-10-92

| MATERIAL | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|--------------------------|
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. VERIFICATION INSPECTION | | | |
| - GAS VENTING LAYER ON WHICH GUNDSEAL LINER IS TO BE LAID IS SMOOTH, FREE FROM IRREGULAR SURFACE CHANGES AND UNIFORMLY GRADED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SURFACE IS FREE FROM PROTRUSIONS AND ROCKS LARGER THAN 1/2 INCH IN DIAMETER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - OVERLAP IS AT LEAST 24 INCHES | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - GUNDSEAL IS PROTECTED FROM RAIN AFTER IT IS INSTALLED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. DUST CONTROL | | | |
| ACTION TAKEN <u>NONE</u> | <div>RECEIVED NOV 11 1992</div> | | |
| 4. LOCATION (APPROXIMATE) <u>TO REPLACE HYDRAULIC GUNDSEAL</u> <u>SOUTH CHANNEL & EAST CHANNEL</u> | | | |
| 5. REMARKS <u>GUNDSEAL WHICH HAD HYDRATED IN THE CHANNEL</u> <u>WAS REPLACED.</u> <u>SF INSTALLED TODAY = 1500 SF</u> <u>SF INSTALLED TO DATE = 296,110 SF</u> <u>JAN 11-10-92</u> | | | |
| INSPECTOR <u>Chris Bates</u> | DATE <u>11-10-92</u> | | |
| REVIEWED BY <u>John H. Fox (Geolyte)</u> | DATE <u>11-11-92</u> | | |

GUNDSEAL LINER

FORM A-7
SHEET 1 OF 1
INSPECTION DATE 11-9-92

ACCEPT REJECT N/A

1. MATERIAL

- MANUFACTURER'S MILL CERTIFICATE OR
AFFIDAVIT HAS BEEN PROVIDED

✓

- FREE FROM DEFECTS, RIPS, HOLES,
FLAWS, DETERIORATION OR DAMAGE.

✓

2. VERIFICATION INSPECTION

- GAS VENTING LAYER ON WHICH GUNDSEAL
LINER IS TO BE LAID IS SMOOTH, FREE
FROM IRREGULAR SURFACE CHANGES AND
UNIFORMLY GRADED.

✓

- SURFACE IS FREE FROM PROTRUSIONS
AND ROCKS LARGER THAN 1/2 INCH
IN DIAMETER.

✓

- OVERLAP IS AT LEAST 24 INCHES

✓

- GUNDSEAL IS PROTECTED FROM RAIN
AFTER IT IS INSTALLED.

✓

3. DUST CONTROL

ACTION TAKEN

none needed

4. LOCATION (APPROXIMATE)

3rd peak

5. REMARKS

NoneSF INSTALLED TODAY = 25,740²SF INSTALLED TO DATE = 257,217² (CELA ONLY, 234,600 TOTAL)11-9-92 J.P.

INSPECTOR

Chris BaileyDATE 11-9-92

REVIEWED BY

John H. Fry (Derbyshire)DATE 11-10-92

NOV 9 1992

FORM A-7

SHEET 1 OF 1

INSPECTION DATE 11/8/92

GUNDSEAL LINER



ACCEPT

REJECT

N/A

1. MATERIAL

- MANUFACTURER'S MILL CERTIFICATE OR
AFFIDAVIT HAS BEEN PROVIDED

✓

- FREE FROM DEFECTS, RIPS, HOLES,
FLAWS, DETERIORATION OR DAMAGE.

✓

2. VERIFICATION INSPECTION

- GAS VENTING LAYER ON WHICH GUNDSEAL
LINER IS TO BE LAID IS SMOOTH, FREE
FROM IRREGULAR SURFACE CHANGES AND
UNIFORMLY GRADED.

✓

- SURFACE IS FREE FROM PROTRUSIONS
AND ROCKS LARGER THAN 1/2 INCH
IN DIAMETER.

✓

- OVERLAP IS AT LEAST 24 INCHES

✓

- GUNDSEAL IS PROTECTED FROM RAIN
AFTER IT IS INSTALLED.

✓

3. DUST CONTROL

ACTION TAKEN

N/A

4. LOCATION (APPROXIMATE)

Placed in East channel starting at station P & working

5. REMARKS

south to the sump at offset 700

SF INSTALLED TODAY = 10,500 SF

SF INSTALLED TO DATE =

INSPECTOR

R. M. Del

DATE

11/8/92

REVIEWED BY

John H. For (Geologist)

DATE

11-10-92

GUNDSEAL LINER

NOV 6 1992

RECEIVED
11-5-92

FORM A-71 OF 1
SHEET 1 OF 1
INSPECTION DATE 11-5-92

MATERIAL

- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED

ACCEPT REJECT N/A

- FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE.

2. VERIFICATION INSPECTION

- GAS VENTING LAYER ON WHICH GUNDSEAL LINER IS TO BE LAID IS SMOOTH, FREE FROM IRREGULAR SURFACE CHANGES AND UNIFORMLY GRADED.

- SURFACE IS FREE FROM PROTRUSIONS AND ROCKS LARGER THAN 1/2 INCH IN DIAMETER.

- OVERLAP IS AT LEAST 24 INCHES

- GUNDSEAL IS PROTECTED FROM RAIN AFTER IT IS INSTALLED.

3. DUST CONTROL

ACTION TAKEN

NONE REQUIRED

4. LOCATION (APPROXIMATE)

5. REMARKS

NONE

SF INSTALLED TODAY = 13,695²

primary

SF INSTALLED TO DATE = 181,497²

primary

INSPECTOR

11-5-92 J.D.
Chris Brady

DATE 11-5-92

REVIEWED BY

John L. Fox (Lohynte)

DATE 11-10-92

GUNDSEAL LINER

FORM A-7
SHEET 1 OF 1
INSPECTION DATE 11-4-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|--------------------------|
| MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. VERIFICATION INSPECTION | | | |
| - GAS VENTING LAYER ON WHICH GUNDSEAL LINER IS TO BE LAID IS SMOOTH, FREE FROM IRREGULAR SURFACE CHANGES AND UNIFORMLY GRADED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SURFACE IS FREE FROM PROTRUSIONS AND ROCKS LARGER THAN 1/2 INCH IN DIAMETER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - OVERLAP IS AT LEAST 24 INCHES | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - GUNDSEAL IS PROTECTED FROM RAIN AFTER IT IS INSTALLED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. DUST CONTROL | | | |
| ACTION TAKEN <u>none needed</u> | | | |
| 4. LOCATION (APPROXIMATE) | | | |
| <u>CELA</u> | | | |
| 5. REMARKS <u>None</u> | | | |
| SF INSTALLED TODAY = 16,980 ² CELA primary | | | |
| SF INSTALLED TO DATE = 184,782 ² CELA primary | | | |
| INSPECTOR <u>11-4-92 J.D.</u> | | | DATE <u>11-4-92</u> |
| REVIEWED BY <u>John H. Fox (Holystic)</u> | | | DATE <u>11-5-92</u> |



GUNDSEAL LINER

FORM A-7
SHEET 1 OF 1
INSPECTION DATE 10-3-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. VERIFICATION INSPECTION | | | |
| - GAS VENTING LAYER ON WHICH GUNDSEAL LINER IS TO BE LAID IS SMOOTH, FREE FROM IRREGULAR SURFACE CHANGES AND UNIFORMLY GRADED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SURFACE IS FREE FROM PROTRUSIONS AND ROCKS LARGER THAN 1/2 INCH IN DIAMETER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - OVERLAP IS AT LEAST 24 INCHES | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - GUNDSEAL IS PROTECTED FROM RAIN AFTER IT IS INSTALLED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. DUST CONTROL | | | |
| ACTION TAKEN | <u>none needed</u> | | |
| 4. LOCATION (APPROXIMATE) | | | |
| <u>80' S. of 3rd lateral line.</u> | | | |
| 5. REMARKS | | | |
| <u>none</u> | | | |
| SF INSTALLED TODAY = <u>227,695</u> 33 | | | |
| SF INSTALLED TO DATE = <u>227,695</u> | | | |
| INSPECTOR <u>Chris B...</u> NOV 4 1992 DATE <u>11-3-92</u> | | | |
| REVIEWED BY <u>John H. For (signature)</u> DATE <u>11-4-92</u> | | | |

GUNDSEAL LINER

FORM A-7
SHEET 1 OF 1
INSPECTION DATE 10-31

| | ACCEPT | REJECT | N/A |
|---|----------|---------------------|---------------|
| MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED | <u>✓</u> | <u> </u> | <u> </u> |
| - FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE. | <u>✓</u> | <u> </u> | <u> </u> |
| 2. VERIFICATION INSPECTION | | | |
| - GAS VENTING LAYER ON WHICH GUNDSEAL LINER IS TO BE LAID IS SMOOTH, FREE FROM IRREGULAR SURFACE CHANGES AND UNIFORMLY GRADED. | <u>✓</u> | <u> </u> | <u> </u> |
| - SURFACE IS FREE FROM PROTRUSIONS AND ROCKS LARGER THAN 1/2 INCH IN DIAMETER. | <u>✓</u> | <u> </u> | <u> </u> |
| - OVERLAP IS AT LEAST 24 INCHES | <u>✓</u> | <u> </u> | <u> </u> |
| - GUNDSEAL IS PROTECTED FROM RAIN AFTER IT IS INSTALLED. | <u>✓</u> | <u> </u> | <u> </u> |
| 3. DUST CONTROL | | | |
| ACTION TAKEN <u>NONE</u> | | | |
| 4. LOCATION (APPROXIMATE) | | | |
| <u>CELA & RUBSHEET N channel</u> | | | |
| 5. REMARKS | | | |
| <u>NONE</u> | | | |
| SF INSTALLED TODAY = <u>8725² Rubsheet in channel & CELA</u> ^{1000²} ^{7725²} | | | |
| SF INSTALLED TO DATE = <u>194,195²</u> | | | |
| J.M. 10-31-92 | | | |
| INSPECTOR <u>Chris [Signature]</u> | | DATE <u>11-2-92</u> | |
| REVIEWED BY <u>John H. Fay (Geologist)</u> | | DATE <u>11-2-92</u> | |

GUNDSEAL LINER

FORM A-7
SHEET 1 OF 1
INSPECTION DATE 10-30

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. VERIFICATION INSPECTION | | | |
| - GAS VENTING LAYER ON WHICH GUNDSEAL LINER IS TO BE LAID IS SMOOTH, FREE FROM IRREGULAR SURFACE CHANGES AND UNIFORMLY GRADED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SURFACE IS FREE FROM PROTRUSIONS AND ROCKS LARGER THAN 1/2 INCH IN DIAMETER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - OVERLAP IS AT LEAST 24 INCHES | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - GUNDSEAL IS PROTECTED FROM RAIN AFTER IT IS INSTALLED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. DUST CONTROL | | | |
| ACTION TAKEN | <u>NONE</u> | | |
| 4. LOCATION (APPROXIMATE) | | | |
| <u>NORTH CHANNEL & CELA</u> | | | |
| 5. REMARKS | | | |
| <u>NONE</u> | | | |
| <u>15,000' CELA</u> | | | |
| <u>2005 Channel</u> | | | |
| <u>SF INSTALLED TODAY = 17,385² in N. Channel & CELA</u> | | | |
| <u>SF INSTALLED TO DATE = 185,470²</u> | | | |
| <u>11-1-92 SM.</u> | | | |
| INSPECTOR | <u>Chris B...</u> | | DATE <u>11-2-92</u> |
| REVIEWED BY | <u>John H. Top (Boyle)</u> | | DATE <u>11-2-92</u> |

GUNDSEAL LINER

FORM A-7
SHEET 1 OF 1
INSPECTION DATE 10-29-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. VERIFICATION INSPECTION | | | |
| - GAS VENTING LAYER ON WHICH GUNDSEAL LINER IS TO BE LAID IS SMOOTH, FREE FROM IRREGULAR SURFACE CHANGES AND UNIFORMLY GRADED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SURFACE IS FREE FROM PROTRUSIONS AND ROCKS LARGER THAN 1/2 INCH IN DIAMETER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - OVERLAP IS AT LEAST 24 INCHES | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - GUNDSEAL IS PROTECTED FROM RAIN AFTER IT IS INSTALLED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. DUST CONTROL | | | |
| ACTION TAKEN <u>None needed</u> | | | |
| 4. LOCATION (APPROXIMATE) | | | |
| <u>E. Channel, W. Channel</u> | | | |
| 5. REMARKS <u>None</u> | | | |
| SF INSTALLED TODAY = <u>3,000² in E, N Channel + 1,000² subsheet</u> | | | |
| SF INSTALLED TO DATE = <u>168,158²</u> | | | |
| INSPECTOR <u>Chris Baily</u> | <u>10-29-92</u> | DATE <u>10-29-92</u> | |
| REVIEWED BY <u>John D. Fox (GeoLyntec)</u> | | DATE <u>10-30-92</u> | |

GUNDSEAL LINER

FORM A-7
SHEET 1 OF 1
INSPECTION DATE 10-28-92

MATERIAL

ACCEPT REJECT N/A

- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED

✓

- FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE.

✓

2. VERIFICATION INSPECTION

- GAS VENTING LAYER ON WHICH GUNDSEAL LINER IS TO BE LAID IS SMOOTH, FREE FROM IRREGULAR SURFACE CHANGES AND UNIFORMLY GRADED.

✓

- SURFACE IS FREE FROM PROTRUSIONS AND ROCKS LARGER THAN 1/2 INCH IN DIAMETER.

✓

- OVERLAP IS AT LEAST 24 INCHES

✓

- GUNDSEAL IS PROTECTED FROM RAIN AFTER IT IS INSTALLED.

✓

3. DUST CONTROL

ACTION TAKEN

None needed

4. LOCATION (APPROXIMATE)

20' S. of 2nd lateral line or 3' line.

5. REMARKS

NoneSF INSTALLED TODAY = 45,000²SF INSTALLED TO DATE = 165,158

INSPECTOR

*[Signature]*DATE 10-28-92

REVIEWED BY

[Signature] (GeoSyntec)DATE 10-29-92

GUNDSEAL LINER

SHEET 1 OF 1
INSPECTION DATE 10-26-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. VERIFICATION INSPECTION | | | |
| - GAS VENTING LAYER ON WHICH GUNDSEAL LINER IS TO BE LAID IS SMOOTH, FREE FROM IRREGULAR SURFACE CHANGES AND UNIFORMLY GRADED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SURFACE IS FREE FROM PROTRUSIONS AND ROCKS LARGER THAN 1/2 INCH IN DIAMETER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - OVERLAP IS AT LEAST 24 INCHES | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - GUNDSEAL IS PROTECTED FROM RAIN AFTER IT IS INSTALLED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| DUST CONTROL | | | |
| ACTION TAKEN <u>none needed</u> | | | |
| 4. LOCATION (APPROXIMATE) | | | |
| <u>to south end of CELA</u> | | | |
| 5. REMARKS | | | |
| | | | |
| | | | |
| SF INSTALLED TODAY = <u>19,035</u> <u>CELA</u> | | | |
| SF INSTALLED TO DATE = <u>97,077</u> <u>CELA</u> | | | |
| INSPECTOR <u>10-26-92 J. B.</u> | | | |
| REVIEWED BY <u>John H. Fox (Geosyntec)</u> | | | |
| DATE <u>10-26-92</u> | | | |
| DATE <u>10-27-92</u> | | | |

GUNDSEAL LINER

SHEET 1 OF 1
INSPECTION DATE 10-24-92

ACCEPT REJECT N/A

1. MATERIAL

- MANUFACTURER'S MILL CERTIFICATE OR
AFFIDAVIT HAS BEEN PROVIDED

✓

- FREE FROM DEFECTS, RIPS, HOLES,
FLAWS, DETERIORATION OR DAMAGE.

✓

2. VERIFICATION INSPECTION

- GAS VENTING LAYER ON WHICH GUNDSEAL
LINER IS TO BE LAID IS SMOOTH, FREE
FROM IRREGULAR SURFACE CHANGES AND
UNIFORMLY GRADED.

✓

- SURFACE IS FREE FROM PROTRUSIONS
AND ROCKS LARGER THAN 1/2 INCH
IN DIAMETER.

✓

- OVERLAP IS AT LEAST 24 INCHES

✓

- GUNDSEAL IS PROTECTED FROM RAIN
AFTER IT IS INSTALLED.

✓

DUST CONTROL

ACTION TAKEN

None needed

4. LOCATION (APPROXIMATE)

E line

5. REMARKS

rained out @ 2 p.m.

SF INSTALLED TODAY =

7,500 Cels

SF INSTALLED TO DATE =

78,042 Cels

INSPECTOR

J. R. 10-24-92
Chris B. [Signature]DATE 10-24-92

REVIEWED BY

John H. Fox (Hessington)DATE 10/27/92

GUNDSEAL LINER

SHEET 1 OF 1
INSPECTION DATE 10-23-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. VERIFICATION INSPECTION | | | |
| - GAS VENTING LAYER ON WHICH GUNDSEAL LINER IS TO BE LAID IS SMOOTH, FREE FROM IRREGULAR SURFACE CHANGES AND UNIFORMLY GRADED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SURFACE IS FREE FROM PROTRUSIONS AND ROCKS LARGER THAN 1/2 INCH IN DIAMETER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - OVERLAP IS AT LEAST 24 INCHES | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - GUNDSEAL IS PROTECTED FROM RAIN AFTER IT IS INSTALLED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| DUST CONTROL | | | |
| ACTION TAKEN <u>none needed</u> | | | |
| 4. LOCATION (APPROXIMATE) | | | |
| 5. REMARKS <u>to app. 120' north of south channel</u> | | | |
| SF INSTALLED TODAY = <u>30,000² cel/A</u> | | | |
| SF INSTALLED TO DATE = <u>70,542²</u> | | | |
| INSPECTOR <u>L.P. 10-23-92</u> | | | |
| REVIEWED BY <u>John H. Fox (Geosyntec)</u> | | | |
| DATE <u>10-23-92</u> | | | |
| DATE <u>10-24-92</u> | | | |

GUNDSEAL LINER

SHEET 1 OF 1
INSPECTION DATE 10-22

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. VERIFICATION INSPECTION | | | |
| - GAS VENTING LAYER ON WHICH GUNDSEAL LINER IS TO BE LAID IS SMOOTH, FREE FROM IRREGULAR SURFACE CHANGES AND UNIFORMLY GRADED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SURFACE IS FREE FROM PROTRUSIONS AND ROCKS LARGER THAN 1/2 INCH IN DIAMETER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - OVERLAP IS AT LEAST 24 INCHES | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - GUNDSEAL IS PROTECTED FROM RAIN AFTER IT IS INSTALLED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| DUST CONTROL | | | |
| ACTION TAKEN <u>none needed</u> | | | |
| 4. LOCATION (APPROXIMATE) | | | |
| <u>From K line to I line</u> | | | |
| 5. REMARKS <u>None</u> | | | |
| SF INSTALLED TODAY = <u>33,000²</u> <u>CELA</u> | | | |
| SF INSTALLED TO DATE = <u>40,542</u> | | | |
| INSPECTOR <u><i>L.D. Ching</i></u> | | | DATE <u>10-22-92</u> |
| REVIEWED BY <u><i>John H. Fox (Geosyntec)</i></u> | | | DATE <u>10-23-92</u> |

GUNDSEAL LINER

SHEET 1 OF 1
INSPECTION DATE 10-20-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. VERIFICATION INSPECTION | | | |
| - GAS VENTING LAYER ON WHICH GUNDSEAL LINER IS TO BE LAID IS SMOOTH, FREE FROM IRREGULAR SURFACE CHANGES AND UNIFORMLY GRADED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SURFACE IS FREE FROM PROTRUSIONS AND ROCKS LARGER THAN 1/2 INCH IN DIAMETER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - OVERLAP IS AT LEAST 24 INCHES | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - GUNDSEAL IS PROTECTED FROM RAIN AFTER IT IS INSTALLED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| DUST CONTROL | | | |
| ACTION TAKEN <u>NH</u> | | | |
| 4. LOCATION (APPROXIMATE) | | | |
| <u>straddling 14" line channel to channel on Cel*</u> | | | |
| 5. REMARKS | | | |
| | | | |
| | | | |
| SF INSTALLED TODAY = <u>66 7,542.5²</u> | | | |
| SF INSTALLED TO DATE = <u>7,542.5</u> | | | |
| INSPECTOR <u>J. D. 10-20-92</u> | | | |
| REVIEWED BY <u>John H. Fox</u> | | | |
| DATE <u>10-20-92</u> | | | |
| DATE <u>10-21-92</u> | | | |

GUNDSEAL LINER

SHEET 1 OF 1
INSPECTION DATE 10-19-92

ACCEPT REJECT N/A

1. MATERIAL

- MANUFACTURER'S MILL CERTIFICATE OR
AFFIDAVIT HAS BEEN PROVIDED

- FREE FROM DEFECTS, RIPS, HOLES,
FLAWS, DETERIORATION OR DAMAGE.

2. VERIFICATION INSPECTION

- GAS VENTING LAYER ON WHICH GUNDSEAL
LINER IS TO BE LAID IS SMOOTH, FREE
FROM IRREGULAR SURFACE CHANGES AND
UNIFORMLY GRADED.

- SURFACE IS FREE FROM PROTRUSIONS
AND ROCKS LARGER THAN 1/2 INCH
IN DIAMETER.

- OVERLAP IS AT LEAST 24 INCHES

- GUNDSEAL IS PROTECTED FROM RAIN
AFTER IT IS INSTALLED.

3. DUST CONTROL

ACTION TAKEN

None Required

4. LOCATION (APPROXIMATE)

5. REMARKS

Unable to deploy Gundseal because of lack of
response to two submittals to lower welding temps
(ambient temps.).

SF INSTALLED TODAY =

SF INSTALLED TO DATE =

INSPECTOR

Chris B. [Signature]DATE 10-19-92

REVIEWED BY

John H. [Signature]DATE 10-20-92

GUNDSEAL LINER

SHEET 1 OF 1
INSPECTION DATE 10-15-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. VERIFICATION INSPECTION | | | |
| - GAS VENTING LAYER ON WHICH GUNDSEAL LINER IS TO BE LAID IS SMOOTH, FREE FROM IRREGULAR SURFACE CHANGES AND UNIFORMLY GRADED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SURFACE IS FREE FROM PROTRUSIONS AND ROCKS LARGER THAN 1/2 INCH IN DIAMETER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - OVERLAP IS AT LEAST 24 INCHES | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - GUNDSEAL IS PROTECTED FROM RAIN AFTER IT IS INSTALLED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| DUST CONTROL | | | |
| ACTION TAKEN <u>NONE REQUIRED</u> | | | |
| 4. LOCATION (APPROXIMATE) | | | |
| <u>APPROXIMATELY 200LF OF UNDERLINER INSTALLED FROM "P" TO "W" LINE</u> | | | |
| 5. REMARKS | | | |
| <u>TS 1000 INSTALLED UNDER THE GUNDSEAL TODAY.</u> | | | |
| <u>SF INSTALLED TODAY = 2,400 SF</u> | | | |
| <u>SF INSTALLED TO DATE = 17,081 SF</u> | | | |
| INSPECTOR <u>Chris Bata</u> | | | DATE <u>10-15-92</u> |
| REVIEWED BY <u>J. O.</u> | | | DATE <u>10/16/92</u> |

Colvin P. Schow

GUNDSEAL LINER

FORM A-7
SHEET 1 OF 1
INSPECTION DATE 10-8-92

ACCEPT REJECT N/A

1. MATERIAL

- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED
- FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE.

| | | |
|---|--|--|
| ✓ | | |
| ✓ | | |

2. VERIFICATION INSPECTION

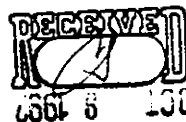
- GAS VENTING LAYER ON WHICH GUNDSEAL LINER IS TO BE LAID IS SMOOTH, FREE FROM IRREGULAR SURFACE CHANGES AND UNIFORMLY GRADED.
- SURFACE IS FREE FROM PROTRUSIONS AND ROCKS LARGER THAN 1/2 INCH IN DIAMETER.
- OVERLAP IS AT LEAST 24 INCHES
- GUNDSEAL IS PROTECTED FROM RAIN AFTER IT IS INSTALLED.

| | | |
|---|--|--|
| ✓ | | |
| ✓ | | |
| ✓ | | |
| ✓ | | |

3. DUST CONTROL

ACTION TAKEN NONE REQUIRED

4. LOCATION (APPROXIMATE)

5. REMARKS From "H" to "Q" in channel
4000 SE G'S 31-35INSPECTOR Chris BateDATE 10-9-92REVIEWED BY Collin P. JohnsonDATE 10/9/92

CLAYMAX LINER

FORM A-1 / 1
SHEET 1 OF 1
INSPECTION DATE 10-5-92

1. MATERIAL

ACCEPT REJECT N/A

- MANUFACTURER'S MILL CERTIFICATE OR
AFFIDAVIT HAS BEEN PROVIDED
(ATTACH COPY).

✓

- FREE FROM DEFECTS, RIPS, HOLES,
FLAWS, DETERIORATION OR DAMAGE.

✓

2. VERIFICATION INSPECTION

- GAS VENTING LAYER ON WHICH CLAYMAX
LINER IS TO BE LAID IS SMOOTH, FREE
FROM IRREGULAR SURFACE CHANGES AND
UNIFORMLY GRADED.

✓

- SURFACE IS FREE FROM PROTRUSIONS
AND ROCKS LARGER THAN 1/2 INCH
IN DIAMETER.

✓

- OVERLAP IS AT LEAST 24 INCHES AND
SEAM IS STAPLED OR PINNED TO THE
BASE SOIL.

✓

- CLAYMAX IS PROTECTED FROM RAIN
AFTER IT IS INSTALLED.

✓

3. DUST CONTROL

ACTION TAKEN _____

4. LOCATION (APPROXIMATE)

Channel

3961²~~3961~~

untolled

5. REMARKS _____

INSPECTOR

Chris Bate

DATE 10-5-92

REVIEWED BY

Collin P. Johnson

DATE 10/5/92

OCT 05 1992



FORM A-7
SHEET 1 OF 1
INSPECTION DATE 9-10-72

1. MATERIAL

- ✓ _____ _____
✓ _____ _____

| | | |
|---|--|--|
| ✓ | | |
| ✓ | | |
| ✓ | | |
| ✓ | | |

ACTION TAKEN

P's 17, 18, 19, 20

SEP 21 1992

TEB

James
5-15-92
Geo con

DATE _____

REVIEWED BY

for A 24

DATE _____

9-15-82

SEP 18 1992

GUNDSEAL LINER

FORM A-7
SHEET 1 OF 1
INSPECTION DATE 9-17-92

| | ACCEPT | REJECT | N/A |
|--|--|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. VERIFICATION INSPECTION | | | |
| - GAS VENTING LAYER ON WHICH GUNDSEAL LINER IS TO BE LAID IS SMOOTH, FREE FROM IRREGULAR SURFACE CHANGES AND UNIFORMLY GRADED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SURFACE IS FREE FROM PROTRUSIONS AND ROCKS LARGER THAN 1/2 INCH IN DIAMETER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - OVERLAP IS AT LEAST 24 INCHES | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - GUNDSEAL IS PROTECTED FROM RAIN AFTER IT IS INSTALLED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. DUST CONTROL | | | |
| ACTION TAKEN | | | |
| 4. LOCATION (APPROXIMATE) | <u>P5 14-15-16</u> | | |
| 5. REMARKS | <u>J. H. Matus</u> <u>650-100 9-18-92</u> | | |
| INSPECTOR | | | DATE |
| REVIEWED BY <u>J. H. Matus</u> | | | DATE <u>9-18</u> |

Geofite

GUNDSEAL LINER

SEP 16 1992

FORM A-7
SHEET 1 OF 1
INSPECTION DATE 9-15-92

ACCEPT REJECT N/A

1. MATERIAL

- MANUFACTURER'S MILL CERTIFICATE OR
AFFIDAVIT HAS BEEN PROVIDED

✓

- FREE FROM DEFECTS, RIPS, HOLES,
FLAWS, DETERIORATION OR DAMAGE.

✓

2. VERIFICATION INSPECTION

- GAS VENTING LAYER ON WHICH GUNDSEAL
LINER IS TO BE LAID IS SMOOTH, FREE
FROM IRREGULAR SURFACE CHANGES AND
UNIFORMLY GRADED.

✓

- SURFACE IS FREE FROM PROTRUSIONS
AND ROCKS LARGER THAN 1/2 INCH
IN DIAMETER.

✓

- OVERLAP IS AT LEAST 24 INCHES

✓

- GUNDSEAL IS PROTECTED FROM RAIN
AFTER IT IS INSTALLED.

✓

DUST CONTROL

ACTION TAKEN AS NEEDED

4. LOCATION (APPROXIMATE)

PANELS PLACED 8-13, COVERING SWAMPY WARE STATIONS5. REMARKS 20495 - 19+60 APPROXIMATELY.AND PAVED

INSPECTOR

DATE

REVIEWED BY

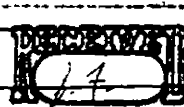
DATE

JEB 9-15-92 GEO CON

CLAYMAX LINER

A-7

SHEET 1 OF 1
INSPECTION DATE 9-9-92

| | ACCEPT | REJECT | N/A |
|---|--|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED (ATTACH COPY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. VERIFICATION INSPECTION | | | |
| - GAS VENTING LAYER ON WHICH CLAYMAX LINER IS TO BE LAID IS SMOOTH, FREE FROM IRREGULAR SURFACE CHANGES AND UNIFORMLY GRADED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SURFACE IS FREE FROM PROTRUSIONS AND ROCKS LARGER THAN 1/2 INCH IN DIAMETER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - OVERLAP IS AT LEAST 24 INCHES | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - CLAYMAX IS PROTECTED FROM RAIN AFTER IT IS INSTALLED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. DUST CONTROL | | | |
| ACTION TAKEN | | | |
| 4. LOCATION (APPROXIMATE) | | | |
| 5. REMARKS | <u>P's 1-7 12' x 11'</u> <u>From 22+00 to 20+95</u> | | |
| <div style="text-align: right;"></div> | | | |
| INSPECTOR | <u>J. A. Martin</u> | DATE | |
| REVIEWED BY | <u>J. F.</u> | DATE | <u>9-9-92</u> |

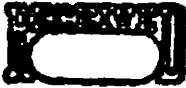
VLDPE GEOMEMBRANE

SHEET 1 OF 1
INSPECTION DATE 9-14-92

| | ACCEPT | REJECT | N/A |
|---|---------------|---------------|---------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. (ATTACH COPY). | <u>✓</u> | <u> </u> | <u> </u> |
| 2. VERIFICATION INSPECTION | | | |
| - CLAYMAX LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION). | <u>N/A</u> | <u> </u> | <u> </u> |
| - TOP SURFACE OF THE CLAYMAX LAYER IS FLAT AND FREE OF DEBRIS. | <u>N/A</u> | <u> </u> | <u> </u> |
| - EACH PANEL OF VLDPE LINER IS INSTALLED IN ACCORDANCE WITH THE SHOP DRAWINGS PREPARED BY THE CONTRACTOR AND ACCEPTED BY THE CONSTRUCTION MANAGER. | <u>✓</u> | <u> </u> | <u> </u> |
| - ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. | <u>✓</u> | <u> </u> | <u> </u> |
| 3. VERIFICATION TESTING | | | |
| - GEOMEMBRANE THICKNESS IS VERIFIED. | <u>✓</u> | <u> </u> | <u> </u> |
| - SAMPLES OF SELECTED TEST SEAMS CUT AND TESTED FOR PEEL ADHESION AND BONDED SEAM STRENGTH (ONE PER DAY/MACHINE/SEAMING PERSONNEL AND AT LEAST ONCE EVERY FOUR HOURS BY EACH SEAMER AND SEAMING EQUIPMENT). | <u>✓</u> | <u> </u> | <u> </u> |
| - ALL THE FIELD SEAMS OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR PRESSURE TEST. | <u>✓</u> | <u> </u> | <u> </u> |
| - ONE DESTRUCTIVE TEST SAMPLE FOR EACH 500 FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED. | <u> </u> | <u> </u> | <u> </u> |

phr Eric
9-14-92
Geosyntec Cons.

Pulled
DS#1
Field test
Passed


SEP 15 1992

VLDPE GEOMEMBRANE

SHEET 1 OF 1
INSPECTION DATE 9-12-92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. (ATTACH COPY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. VERIFICATION INSPECTION | | | |
| - CLAYMAX LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION). | <u>N/A</u> | <input type="checkbox"/> | <input type="checkbox"/> |
| - TOP SURFACE OF THE CLAYMAX LAYER IS FLAT AND FREE OF DEBRIS. | <u>N/A</u> | <input type="checkbox"/> | <input type="checkbox"/> |
| - EACH PANEL OF VLDPE LINER IS INSTALLED IN ACCORDANCE WITH THE SHOP DRAWINGS PREPARED BY THE CONTRACTOR AND ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - GEOMEMBRANE THICKNESS IS VERIFIED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SAMPLES OF SELECTED TEST SEAMS CUT AND TESTED FOR PEEL ADHESION AND BONDED SEAM STRENGTH (ONE PER DAY/MACHINE/SEAMING PERSONNEL AND AT LEAST ONCE EVERY FOUR HOURS BY EACH SEAMER AND SEAMING EQUIPMENT). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ALL THE FIELD SEAMS/OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR PRESSURE TEST. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ONE DESTRUCTIVE TEST SAMPLE FOR EACH 500 FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

will call
DS#1 on
monday
9-14-92

P.T.

SEP 14 1992

VLDPE GEOMEMBRANE

SHEET _____ OF _____
INSPECTION DATE _____

| | ACCEPT | REJECT | N/A |
|---|------------|---------------|---------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. (ATTACH COPY). | <u>✓</u> | <u> </u> | <u> </u> |
| 2. VERIFICATION INSPECTION | | | |
| - CLAYMAX LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION). | <u>N/A</u> | <u> </u> | <u> </u> |
| - TOP SURFACE OF THE CLAYMAX LAYER IS FLAT AND FREE OF DEBRIS. | <u>N/A</u> | <u> </u> | <u> </u> |
| - EACH PANEL OF VLDPE LINER IS INSTALLED IN ACCORDANCE WITH THE SHOP DRAWINGS PREPARED BY THE CONTRACTOR AND ACCEPTED BY THE CONSTRUCTION MANAGER. | <u>✓</u> | <u> </u> | <u> </u> |
| - ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. | <u>✓</u> | <u> </u> | <u> </u> |
| 3. VERIFICATION TESTING | | | |
| - GEOMEMBRANE THICKNESS IS VERIFIED. | <u>✓</u> | <u> </u> | <u> </u> |
| - SAMPLES OF SELECTED TEST SEAMS CUT AND TESTED FOR PEEL ADHESION AND BONDED SEAM STRENGTH (ONE PER DAY/MACHINE/SEAMING PERSONNEL AND AT LEAST ONCE EVERY FOUR HOURS BY EACH SEAMER AND SEAMING EQUIPMENT). | <u>✓</u> | <u> </u> | <u> </u> |
| - ALL THE FIELD SEAMS OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR PRESSURE TEST. | <u>✓</u> | <u> </u> | <u> </u> |
| - ONE DESTRUCTIVE TEST SAMPLE FOR EACH 500 FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED. | <u>N/A</u> | <u> </u> | <u> </u> |

U6 - 32 x 22

U7 - 32 x 22

U8 - 32 x 22

U9 - 32 x 22

J. F.

SEP 10 1992

SEP 10 1992



VLDPE GEOMEMBRANE

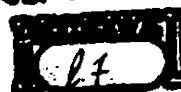
FORM A-8
SHEET 1 OF 1
INSPECTION DATE 7-9-92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. (ATTACH COPY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. VERIFICATION INSPECTION | | | |
| - CLAYMAX LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - TOP SURFACE OF THE CLAYMAX LAYER IS FLAT AND FREE OF DEBRIS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - EACH PANEL OF VLDPE LINER IS INSTALLED IN ACCORDANCE WITH THE SHOP DRAWINGS PREPARED BY THE CONTRACTOR AND ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - GEOMEMBRANE THICKNESS IS VERIFIED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SAMPLES OF SELECTED TEST SEAMS CUT AND TESTED FOR PEEL ADHESION AND BONDED SEAM STRENGTH (ONE PER DAY/MACHINE/SEAMING PERSONNEL AND AT LEAST ONCE EVERY FOUR HOURS BY EACH SEAMER AND SEAMING EQUIPMENT). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ALL THE FIELD SEAMS OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR PRESSURE TEST. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ONE DESTRUCTIVE TEST SAMPLE FOR EACH 500 FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

U-1 29x22
U-2 29x22
U-3 29x22
U-4 29x22
U-5 29x22

From 22x00 to 20 +95

SEP 10 1992



7-9-92

VLDPE GEOMEMBRANE

SEP 16 1992

SHEET 1 OF 1
INSPECTION DATE 9-15-92

| | ACCEPT | REJECT | N/A |
|---|--------|--------|-------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. (ATTACH COPY). | ✓ | _____ | _____ |
| 2. VERIFICATION INSPECTION | | | |
| - CLAYMAX LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION). | ✓ | _____ | _____ |
| - TOP SURFACE OF THE CLAYMAX LAYER IS FLAT AND FREE OF DEBRIS. | ✓ | _____ | _____ |
| - EACH PANEL OF VLDPE LINER IS INSTALLED IN ACCORDANCE WITH THE SHOP DRAWINGS PREPARED BY THE CONTRACTOR AND ACCEPTED BY THE CONSTRUCTION MANAGER. | ✓ | _____ | _____ |
| - ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. | ✓ | _____ | _____ |
| 3. VERIFICATION TESTING | | | |
| - GEOMEMBRANE THICKNESS IS VERIFIED. | ✓ | _____ | _____ |
| - SAMPLES OF SELECTED TEST SEAMS CUT AND TESTED FOR PEEL ADHESION AND BONDED SEAM STRENGTH (ONE PER DAY/MACHINE/SEAMING PERSONNEL AND AT LEAST ONCE EVERY FOUR HOURS BY EACH SEAMER AND SEAMING EQUIPMENT). | ✓ | _____ | _____ |
| - ALL THE FIELD SEAMS OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR PRESSURE TEST. | ✓ | _____ | _____ |
| - ONE DESTRUCTIVE TEST SAMPLE FOR EACH 500 FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED. | ✓ | _____ | _____ |

John H. Lee PLACED PANELS U26 - U32
9-15-92 ALL 22' X 32'

Ja Mats 9-15-92 GEO-CON

VLDPE GEOMEMBRANE

SHEET 1 OF 5
INSPECTION DATE 9-12-92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. (ATTACH COPY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. VERIFICATION INSPECTION | | | |
| - CLAYMAX LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - TOP SURFACE OF THE CLAYMAX LAYER IS FLAT AND FREE OF DEBRIS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - EACH PANEL OF VLDPE LINER IS INSTALLED IN ACCORDANCE WITH THE SHOP DRAWINGS PREPARED BY THE CONTRACTOR AND ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - GEOMEMBRANE THICKNESS IS VERIFIED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SAMPLES OF SELECTED TEST SEAMS CUT AND TESTED FOR PEEL ADHESION AND BONDED SEAM STRENGTH (ONE PER DAY/MACHINE/SEAMING PERSONNEL AND AT LEAST ONCE EVERY FOUR HOURS BY EACH SEAMER AND SEAMING EQUIPMENT). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ALL THE FIELD SEAMS OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR PRESSURE TEST. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ONE DESTRUCTIVE TEST SAMPLE FOR EACH 500 FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

PIS 33-39

John L. F. Jr.
9-18-92

G. J. M. Jr.

G. J. M. Jr.
GEO-CON
9-18-92

SEP 18 1992



VLDPE GEOMEMBRANE

SHEET 1 OF 1
INSPECTION DATE 9-18-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. (ATTACH COPY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. VERIFICATION INSPECTION | | | |
| - CLAYMAX LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - TOP SURFACE OF THE CLAYMAX LAYER IS FLAT AND FREE OF DEBRIS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - EACH PANEL OF VLDPE LINER IS INSTALLED IN ACCORDANCE WITH THE SHOP DRAWINGS PREPARED BY THE CONTRACTOR AND ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - GEOMEMBRANE THICKNESS IS VERIFIED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SAMPLES OF SELECTED TEST SEAMS CUT AND TESTED FOR PEEL ADHESION AND BONDED SEAM STRENGTH (ONE PER DAY/ MACHINE/SEAMING PERSONNEL AND AT LEAST ONCE EVERY FOUR HOURS BY EACH SEAMER AND SEAMING EQUIPMENT). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ALL THE FIELD SEAMS OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR PRESSURE TEST. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ONE DESTRUCTIVE TEST SAMPLE FOR EACH 500 FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

P'S 40 45
41 46
42 47
43 48
44

SEP 21 1992



John A. Fry

9-17-92

John A. Fry
9-17-92
Geocon

Inspector

VLDPE GEOMEMBRANE

SHEET 1 OF 1
INSPECTION DATE 7-20-92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. (ATTACH COPY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. VERIFICATION INSPECTION | | | |
| - CLAYMAX LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - TOP SURFACE OF THE CLAYMAX LAYER IS FLAT AND FREE OF DEBRIS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - EACH PANEL OF VLDPE LINER IS INSTALLED IN ACCORDANCE WITH THE SHOP DRAWINGS PREPARED BY THE CONTRACTOR AND ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - GEOMEMBRANE THICKNESS IS VERIFIED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SAMPLES OF SELECTED TEST SEAMS CUT AND TESTED FOR PEEL ADHESION AND BONDED SEAM STRENGTH (ONE PER DAY/MACHINE/SEAMING PERSONNEL AND AT LEAST ONCE EVERY FOUR HOURS BY EACH SEAMER AND SEAMING EQUIPMENT). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ALL THE FIELD SEAMS OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR PRESSURE TEST. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ONE DESTRUCTIVE TEST SAMPLE FOR EACH 500 FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

P'S 49, 50, 51, 52, 53, 54 all 35' x 22'

4620 SF

Collins P. Lukow 4/1/92

SEP 3 0 1992



**THE FOLLOWING
IS/ARE THE BEST
IMAGES FROM POOR
QUALITY ORIGINAL(S)**

**IMAGE
DATA**

1
INSPECTION DATE 9-30-72

ACCEPT REJECT N/A

CERTIFICATE OR

✓

MANUFACTURER'S
CONDITION?

✓

COAT LAYERS

✓

CONFORMANCE WITH THE
MANUFACTURER'S

✓

WELDED IN

✓

TESTING

STRENGTH IS VERIFIED

✓

BEANS CODE

✓

MANUFACTURER'S

✓

MANUFACTURER'S

MANUFACTURER'S

MANUFACTURER'S

MANUFACTURER'S

MANUFACTURER'S

MANUFACTURER'S

MANUFACTURER'S

VLDPE GEOMEMBRANE

Roll #6884

FORM A-6
SHEET _____ OF
INSPECTION DATE 10-3-92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. (ATTACH COPY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. VERIFICATION INSPECTION | | | |
| - CLAYMAX LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - TOP SURFACE OF THE CLAYMAX LAYER IS FLAT AND FREE OF DEBRIS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - EACH PANEL OF VLDPE LINER IS INSTALLED IN ACCORDANCE WITH THE SHOP DRAWINGS PREPARED BY THE CONTRACTOR AND ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - GEOMEMBRANE THICKNESS IS VERIFIED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SAMPLES OF SELECTED TEST SEAMS CUT AND TESTED FOR PEEL ADHESION AND BONDED SEAM STRENGTH (ONE PER DAY/MACHINE/SEAMING PERSONNEL AND AT LEAST ONCE EVERY FOUR HOURS BY EACH SEAMER AND SEAMING EQUIPMENT). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ALL THE FIELD SEAMS OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR PRESSURE TEST. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ONE DESTRUCTIVE TEST SAMPLE FOR EACH 500 FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED. | <u>N.A.</u> | <input type="checkbox"/> | <input type="checkbox"/> |

Chris B...
10-5-92

Colin P. L... 10/5/92

OCT 05 1992
RECEIVED

OCT 06 1992



FORM A-6

SHEET 1 OF 10-5-92
INSPECTION DATE

VLDPE GEOMEMBRANE

ACCEPT REJECT N/A

1. MATERIAL

- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. (ATTACH COPY).

✓

2. VERIFICATION INSPECTION

- CLAYMAX LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION).

✓

- TOP SURFACE OF THE CLAYMAX LAYER IS FLAT AND FREE OF DEBRIS.

✓

- EACH PANEL OF VLDPE LINER IS INSTALLED IN ACCORDANCE WITH THE SHOP DRAWINGS PREPARED BY THE CONTRACTOR AND ACCEPTED BY THE CONSTRUCTION MANAGER.

✓

- ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.

✓

VERIFICATION TESTING

- GEOMEMBRANE THICKNESS IS VERIFIED.

✓

- SAMPLES OF SELECTED TEST SEAMS CUT AND TESTED FOR PEEL ADHESION AND BONDED SEAM STRENGTH (ONE PER DAY/MACHINE/SEAMING PERSONNEL AND AT LEAST ONCE EVERY FOUR HOURS BY EACH SEAMER AND SEAMING EQUIPMENT).

✓

- ALL THE FIELD SEAMS OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR PRESSURE TEST.

✓

- ONE DESTRUCTIVE TEST SAMPLE FOR EACH 500 FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED.

✓

Cut D/S 445; sent to Murray for testing Geo-Syn Tec rec'd its duplicates of samples.

J. P.

Collins, L. Suban 10/7/92

RESULTS of VLDPE DESTRUCTIVE: DS #2 & DS #3 ATTACHED

VLDPE GEOMEMBRANE

FORM A-6
SHEET 1 OF 1
INSPECTION DATE 10-6-92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. (ATTACH COPY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. VERIFICATION INSPECTION | | | |
| - CLAYMAX LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION). | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - TOP SURFACE OF THE CLAYMAX LAYER IS FLAT AND FREE OF DEBRIS. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - EACH PANEL OF VLDPE LINER IS INSTALLED IN ACCORDANCE WITH THE SHOP DRAWINGS PREPARED BY THE CONTRACTOR AND ACCEPTED BY THE CONSTRUCTION MANAGER. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - GEOMEMBRANE THICKNESS IS VERIFIED. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - SAMPLES OF SELECTED TEST SEAMS CUT AND TESTED FOR PEEL ADHESION AND BONDED SEAM STRENGTH (ONE PER DAY/MACHINE/SEAMING PERSONNEL AND AT LEAST ONCE EVERY FOUR HOURS BY EACH SEAMER AND SEAMING EQUIPMENT). | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - ALL THE FIELD SEAMS OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR PRESSURE TEST. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - ONE DESTRUCTIVE TEST SAMPLE FOR EACH 500 FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

RESULTS OF DESTRUCTIVE SAMPLES DS #4 & DS #5
ARE ATTACHED.

OCT 07 1992

RECEIVED

Collins P. Sukow 10/7/92

VLDPE GEOMEMBRANE

SHEET 1 OF 1
INSPECTION DATE 10-8-92

| | ACCEPT | REJECT | N/A- |
|---|----------|---------------|---------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. (ATTACH COPY). | <u>✓</u> | <u> </u> | <u> </u> |
| 2. VERIFICATION INSPECTION | | | |
| - CLAYMAX LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION). | <u>✓</u> | <u> </u> | <u> </u> |
| - TOP SURFACE OF THE CLAYMAX LAYER IS FLAT AND FREE OF DEBRIS. | <u>✓</u> | <u> </u> | <u> </u> |
| - EACH PANEL OF VLDPE LINER IS INSTALLED IN ACCORDANCE WITH THE SHOP DRAWINGS PREPARED BY THE CONTRACTOR AND ACCEPTED BY THE CONSTRUCTION MANAGER. | <u>✓</u> | <u> </u> | <u> </u> |
| - ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. | <u>✓</u> | <u> </u> | <u> </u> |
| 3. VERIFICATION TESTING | | | |
| - GEOMEMBRANE THICKNESS IS VERIFIED. | <u>✓</u> | <u> </u> | <u> </u> |
| - SAMPLES OF SELECTED TEST SEAMS CUT AND TESTED FOR PEEL ADHESION AND BONDED SEAM STRENGTH (ONE PER DAY/MACHINE/SEAMING PERSONNEL AND AT LEAST ONCE EVERY FOUR HOURS BY EACH SEAMER AND SEAMING EQUIPMENT). | <u>✓</u> | <u> </u> | <u> </u> |
| - ALL THE FIELD SEAMS OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR PRESSURE TEST. | <u>✓</u> | <u> </u> | <u> </u> |
| - ONE DESTRUCTIVE TEST SAMPLE FOR EACH 500 FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED. | <u>✓</u> | <u> </u> | <u> </u> |

FROM "H" TO "Q" IN CHANNEL
8690 SF U'S 59, 60, 61

Colin L. Jackson 10/9/92

OCT 9 1992



VLDPE GEOMEMBRANE

FORM A 8
SHEET 1 OF 1
INSPECTION DATE 10-15-92

| | ACCEPT | REJECT | N/A |
|---|------------|----------------------|---------------|
| MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | <u>✓</u> | <u> </u> | <u> </u> |
| 2. VERIFICATION INSPECTION | | | |
| - GUNDSEAL LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION). | <u>✓</u> | <u> </u> | <u> </u> |
| - TOP SURFACE OF THE GUNDSEAL IS FLAT AND FREE OF DEBRIS. | <u>✓</u> | <u> </u> | <u> </u> |
| - EACH PANEL OF VLDPE LINER IS INSTALLED IN ACCORDANCE WITH THE SHOP DRAWINGS PREPARED BY THE CONTRACTOR AND ACCEPTED BY THE CONSTRUCTION MANAGER. | <u>✓</u> | <u> </u> | <u> </u> |
| - ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. | <u>✓</u> | <u> </u> | <u> </u> |
| 3. VERIFICATION TESTING | | | |
| - GEOMEMBRANE THICKNESS IS VERIFIED. | <u>✓</u> | <u> </u> | <u> </u> |
| - SAMPLES OF SELECTED TEST SEAMS CUT AND TESTED FOR PEEL ADHESION AND BONDED SEAM STRENGTH (ONE PER DAY/MACHINE/SEAMING PERSONNEL AND AT LEAST ONCE EVERY FOUR HOURS BY EACH SEAMER AND SEAMING EQUIPMENT). | <u>✓</u> | <u> </u> | <u> </u> |
| - ALL THE FIELD SEAMS OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR PRESSURE TEST. | <u>N/A</u> | <u> </u> | <u> </u> |
| - ONE DESTRUCTIVE TEST SAMPLE FOR EACH 500 FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED. | <u>N/A</u> | <u> </u> | <u> </u> |
| SF INSTALLED TODAY = <u>4400</u> | | | |
| SF INSTALLED TO DATE = <u>55,698</u> | | | |
| INSPECTOR <u>Chris Barty</u> | | DATE <u>10-15-92</u> | |
| REVIEWED BY <u>J.R.</u> | | DATE <u> </u> | |

WELDING COMPLETED TODAY - WAS ONLY FOR CONSTRUCTION PURPOSES.
THE SEAMS INSTALLED WILL BE GAPPED AS SHOWN AS POSSIBLE.

Collins, J. R.

10/16/92

OCT 16 1992
RECEIVED
N/A

VLDPE GEOMEMBRANE

FORM A-8
SHEET 1 OF 1
INSPECTION DATE 10-20-92

MATERIAL

- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.

ACCEPT REJECT N/A

✓

2. VERIFICATION INSPECTION

- GUNDSEAL LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION).

✓

- TOP SURFACE OF THE GUNDSEAL IS FLAT AND FREE OF DEBRIS.

✓

- EACH PANEL OF VLDPE LINER IS INSTALLED IN ACCORDANCE WITH THE SHOP DRAWINGS PREPARED BY THE CONTRACTOR AND ACCEPTED BY THE CONSTRUCTION MANAGER.

✓

- ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.

NA

3. VERIFICATION TESTING

- GEOMEMBRANE THICKNESS IS VERIFIED.

✓

- SAMPLES OF SELECTED TEST SEAMS CUT AND TESTED FOR PEEL ADHESION AND BONDED SEAM STRENGTH (ONE PER DAY/MACHINE/SEAMING PERSONNEL AND AT LEAST ONCE EVERY FOUR HOURS BY EACH SEAMER AND SEAMING EQUIPMENT).

NA

- ALL THE FIELD SEAMS OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR PRESSURE TEST.

NA

- ONE DESTRUCTIVE TEST SAMPLE FOR EACH 500 FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED.

NASF INSTALLED TODAY = PVL 9,482SF INSTALLED TO DATE = PVL 9,482INSPECTOR Chris B. [Signature]DATE 10-20-92REVIEWED BY John D. FoxDATE 10-21-92

J.D. 10-20-92

VLDPE GEOMEMBRANE

FORM A-8
SHEET 1 OF 1
INSPECTION DATE 10-22-92

| | ACCEPT | REJECT | N/A |
|---|--|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. VERIFICATION INSPECTION | | | |
| - GUNDSEAL LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - TOP SURFACE OF THE GUNDSEAL IS FLAT AND FREE OF DEBRIS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - EACH PANEL OF VLDPE LINER IS INSTALLED IN ACCORDANCE WITH THE SHOP DRAWINGS PREPARED BY THE CONTRACTOR AND ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - GEOMEMBRANE THICKNESS IS VERIFIED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SAMPLES OF SELECTED TEST SEAMS CUT AND TESTED FOR PEEL ADHESION AND BONDED SEAM STRENGTH (ONE PER DAY/MACHINE/SEAMING PERSONNEL AND AT LEAST ONCE EVERY FOUR HOURS BY EACH SEAMER AND SEAMING EQUIPMENT). | <input checked="" type="checkbox"/> <u>NA</u> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ALL THE FIELD SEAMS OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR PRESSURE TEST. | <input checked="" type="checkbox"/> <u>NA</u> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ONE DESTRUCTIVE TEST SAMPLE FOR EACH 500 FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED. | <input checked="" type="checkbox"/> <u>NA</u> | <input type="checkbox"/> | <input type="checkbox"/> |
| SF INSTALLED TODAY = <u>36,960</u> <u>CELA</u> | | | |
| SF INSTALLED TO DATE = <u>46,442</u> <u>CELA</u> | | | |
| INSPECTOR | <u>Chris Burt</u> | DATE | <u>10-22-92</u> |
| REVIEWED BY | <u>John H. Fox (Geosyntec)</u> | DATE | <u>10-23-92</u> |
| <u>10-22-92</u> <u>F.D.</u> | | | |

VLDPE GEOMEMBRANE

FORM A 8
SHEET 1 OF 1
INSPECTION DATE 10-23-92

| | ACCEPT | REJECT | N/A |
|---|----------------------|---------------|---------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | <u>✓</u> | <u> </u> | <u> </u> |
| 2. VERIFICATION INSPECTION | | | |
| - GUNDSEAL LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION). | <u>✓</u> | <u> </u> | <u> </u> |
| - TOP SURFACE OF THE GUNDSEAL IS FLAT AND FREE OF DEBRIS. | <u>✓</u> | <u> </u> | <u> </u> |
| - EACH PANEL OF VLDPE LINER IS INSTALLED IN ACCORDANCE WITH THE SHOP DRAWINGS PREPARED BY THE CONTRACTOR AND ACCEPTED BY THE CONSTRUCTION MANAGER. | <u>✓</u> | <u> </u> | <u> </u> |
| - ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. | <u>✓</u> | <u> </u> | <u> </u> |
| 3. VERIFICATION TESTING | | | |
| - GEOMEMBRANE THICKNESS IS VERIFIED. | <u>✓</u> | <u> </u> | <u> </u> |
| - SAMPLES OF SELECTED TEST SEAMS CUT AND TESTED FOR PEEL ADHESION AND BONDED SEAM STRENGTH (ONE PER DAY/MACHINE/SEAMING PERSONNEL AND AT LEAST ONCE EVERY FOUR HOURS BY EACH SEAMER AND SEAMING EQUIPMENT). | <u>✓</u> | <u> </u> | <u> </u> |
| - ALL THE FIELD SEAMS OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR PRESSURE TEST. | <u>NA</u> | <u> </u> | <u> </u> |
| - ONE DESTRUCTIVE TEST SAMPLE FOR EACH 500 FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED. | <u>NA</u> | <u> </u> | <u> </u> |
| SF INSTALLED TODAY = <u>30,712</u> | | | |
| SF INSTALLED TO DATE = <u>77,154</u> | | | |
| INSPECTOR <u>Chris [Signature]</u> | DATE <u>10-23-92</u> | | |
| REVIEWED BY <u>John H. Fox (Geosyntec)</u> | DATE <u>10-24-92</u> | | |
| <u>L.D. 10-23-92</u> | | | |

VLDPE GEOMEMBRANE

FORM A-8
SHEET 1 OF 1
INSPECTION DATE 10-24-92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL <u>6404</u> | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. VERIFICATION INSPECTION | | | |
| - GUNDSEAL LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - TOP SURFACE OF THE GUNDSEAL IS FLAT AND FREE OF DEBRIS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - EACH PANEL OF VLDPE LINER IS INSTALLED IN ACCORDANCE WITH THE SHOP DRAWINGS PREPARED BY THE CONTRACTOR AND ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - GEOMEMBRANE THICKNESS IS VERIFIED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SAMPLES OF SELECTED TEST SEAMS CUT AND TESTED FOR PEEL ADHESION AND BONDED SEAM STRENGTH (ONE PER DAY/MACHINE/SEAMING PERSONNEL AND AT LEAST ONCE EVERY FOUR HOURS BY EACH SEAMER AND SEAMING EQUIPMENT). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ALL THE FIELD SEAMS OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR PRESSURE TEST. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ONE DESTRUCTIVE TEST SAMPLE FOR EACH 500 FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| SF INSTALLED TODAY = <u>29402</u> | | | |
| SF INSTALLED TO DATE = <u>89754</u> | | | |
| INSPECTOR <u>Chris Bate</u> | | | |
| REVIEWED BY <u>John H. Fox (Geosyntec)</u> | | | |
| DATE <u>10-24-92</u> | | | |
| DATE <u>10-27-92</u> | | | |
| <u>Z. R. 10-24-92</u> | | | |

VLDPE GEOMEMBRANE

FORM A-8
SHEET 1 OF 1
INSPECTION DATE 10-26-92

| | ACCEPT | REJECT | N/A |
|---|---|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. VERIFICATION INSPECTION | | | |
| - GUNDSEAL LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - TOP SURFACE OF THE GUNDSEAL IS FLAT AND FREE OF DEBRIS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - EACH PANEL OF VLDPE LINER IS INSTALLED IN ACCORDANCE WITH THE SHOP DRAWINGS PREPARED BY THE CONTRACTOR AND ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - GEOMEMBRANE THICKNESS IS VERIFIED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SAMPLES OF SELECTED TEST SEAMS CUT AND TESTED FOR PEEL ADHESION AND BONDED SEAM STRENGTH (ONE PER DAY/MACHINE/SEAMING PERSONNEL AND AT LEAST ONCE EVERY FOUR HOURS BY EACH SEAMER AND SEAMING EQUIPMENT). | <input checked="" type="checkbox"/> N/A | <input type="checkbox"/> | <input type="checkbox"/> |
| - ALL THE FIELD SEAMS OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR PRESSURE TEST. | <input checked="" type="checkbox"/> N/A | <input type="checkbox"/> | <input type="checkbox"/> |
| - ONE DESTRUCTIVE TEST SAMPLE FOR EACH 500 FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED. | <input checked="" type="checkbox"/> N/A | <input type="checkbox"/> | <input type="checkbox"/> |
| SF INSTALLED TODAY = <u>24,134²</u> | <u>CELA</u> | | |
| SF INSTALLED TO DATE = <u>107,888²</u> | <u>CELA</u> | | |
| INSPECTOR <u>[Signature]</u> | DATE <u>10-26-92</u> | | |
| REVIEWED BY <u>John H. Fox (Harsyntec)</u> | DATE <u>10-27-92</u> | | |

10-26-92

VLDPE GEOMEMBRANE

FORM A 8
SHEET 1 OF 1
INSPECTION DATE 10-27-92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. VERIFICATION INSPECTION | | | |
| - GUNDSEAL LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - TOP SURFACE OF THE GUNDSEAL IS FLAT AND FREE OF DEBRIS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - EACH PANEL OF VLDPE LINER IS INSTALLED IN ACCORDANCE WITH THE SHOP DRAWINGS PREPARED BY THE CONTRACTOR AND ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - GEOMEMBRANE THICKNESS IS VERIFIED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SAMPLES OF SELECTED TEST SEAMS CUT AND TESTED FOR PEEL ADHESION AND BONDED SEAM STRENGTH (ONE PER DAY/MACHINE/SEAMING PERSONNEL AND AT LEAST ONCE EVERY FOUR HOURS BY EACH SEAMER AND SEAMING EQUIPMENT). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ALL THE FIELD SEAMS OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR PRESSURE TEST. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ONE DESTRUCTIVE TEST SAMPLE FOR EACH 500 FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| SF INSTALLED TODAY = <u>4,400</u> ² | | | |
| SF INSTALLED TO DATE = <u>168,768 168,768</u> ² | | | |
| INSPECTOR | <u>Chris Baily</u> | DATE | <u>10-27-92</u> |
| REVIEWED BY | <u>John H. Joe (Geosyntec)</u> | DATE | <u>10-28-92</u> |
| <u>L.R. 10-27-92</u> | | | |

VLDPE GEOMEMBRANE

FORM A-8
SHEET 1 OF 1
INSPECTION DATE 10-28-92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. VERIFICATION INSPECTION | | | |
| - GUNDSEAL LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - TOP SURFACE OF THE GUNDSEAL IS FLAT AND FREE OF DEBRIS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - EACH PANEL OF VLDPE LINER IS INSTALLED IN ACCORDANCE WITH THE SHOP DRAWINGS PREPARED BY THE CONTRACTOR AND ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - GEOMEMBRANE THICKNESS IS VERIFIED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SAMPLES OF SELECTED TEST SEAMS CUT AND TESTED FOR PEEL ADHESION AND BONDED SEAM STRENGTH (ONE PER DAY/MACHINE/SEAMING PERSONNEL AND AT LEAST ONCE EVERY FOUR HOURS BY EACH SEAMER AND SEAMING EQUIPMENT). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ALL THE FIELD SEAMS OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR PRESSURE TEST. | <u>NOT</u> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ONE DESTRUCTIVE TEST SAMPLE FOR EACH 500 FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED. | <u>NA</u> | <input type="checkbox"/> | <input type="checkbox"/> |
| SF INSTALLED TODAY = <u>45,958</u> | | | |
| SF INSTALLED TO DATE = <u>214,726</u> | | | |
| INSPECTOR <u>Chris B...</u> | DATE <u>10-28-92</u> | | |
| REVIEWED BY <u>John H. Fox (Geosyntec)</u> | DATE <u>10-29-92</u> | | |
| <u>10-28-92 J.D.</u> | | | |

VLDPE GEOMEMBRANE

FORM A 81
SHEET 1 OF 10-29-92
INSPECTION DATE

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. VERIFICATION INSPECTION | | | |
| - GUNDSEAL LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - TOP SURFACE OF THE GUNDSEAL IS FLAT AND FREE OF DEBRIS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - EACH PANEL OF VLDPE LINER IS INSTALLED IN ACCORDANCE WITH THE SHOP DRAWINGS PREPARED BY THE CONTRACTOR AND ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - GEOMEMBRANE THICKNESS IS VERIFIED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SAMPLES OF SELECTED TEST SEAMS CUT AND TESTED FOR PEEL ADHESION AND BONDED SEAM STRENGTH (ONE PER DAY/MACHINE/SEAMING PERSONNEL AND AT LEAST ONCE EVERY FOUR HOURS BY EACH SEAMER AND SEAMING EQUIPMENT). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ALL THE FIELD SEAMS OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR PRESSURE TEST. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ONE DESTRUCTIVE TEST SAMPLE FOR EACH 500 FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| SF INSTALLED TODAY = 12,628 ² tot. 8,228 primary, 4400 Channel | | | |
| SF INSTALLED TO DATE = 227,354 ² | | | |
| INSPECTOR: <u>Chris Burt</u> | DATE <u>10-29-92</u> | | |
| REVIEWED BY: <u>John L. Fox (Geosyntec)</u> | DATE <u>10-30-92</u> | | |
| J. R. 10-29-92 | | | |

VLDPE GEOMEMBRANE

FORM A 8
SHEET 1 OF 1
INSPECTION DATE 10-30-92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. VERIFICATION INSPECTION | | | |
| - GUNDSEAL LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - TOP SURFACE OF THE GUNDSEAL IS FLAT AND FREE OF DEBRIS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - EACH PANEL OF VLDPE LINER IS INSTALLED IN ACCORDANCE WITH THE SHOP DRAWINGS PREPARED BY THE CONTRACTOR AND ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - GEOMEMBRANE THICKNESS IS VERIFIED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SAMPLES OF SELECTED TEST SEAMS CUT AND TESTED FOR PEEL ADHESION AND BONDED SEAM STRENGTH (ONE PER DAY/MACHINE/SEAMING PERSONNEL AND AT LEAST ONCE EVERY FOUR HOURS BY EACH SEAMER AND SEAMING EQUIPMENT). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ALL THE FIELD SEAMS OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR PRESSURE TEST. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ONE DESTRUCTIVE TEST SAMPLE FOR EACH 500 FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

SF INSTALLED TODAY = 10,868' CELA, 3990' Channel 14,808' Tot

SF INSTALLED TO DATE = 292,162'

INSPECTOR

DATE 11-2-92

REVIEWED BY

DATE 11-2-92

RESULTS OF DESTRUCTIVE TEST RESULTS ATTACHED FOR DESTRUCTIVE
SAMPLES DS-1C THRU DS-8C.

VLDPE GEOMEMBRANE

FORM A-8
SHEET 1 OF 1
INSPECTION DATE 10-31

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. VERIFICATION INSPECTION | | | |
| - GUNDSEAL LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - TOP SURFACE OF THE GUNDSEAL IS FLAT AND FREE OF DEBRIS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - EACH PANEL OF VLDPE LINER IS INSTALLED IN ACCORDANCE WITH THE SHOP DRAWINGS PREPARED BY THE CONTRACTOR AND ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - GEOMEMBRANE THICKNESS IS VERIFIED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SAMPLES OF SELECTED TEST SEAMS CUT AND TESTED FOR PEEL ADHESION AND BONDED SEAM STRENGTH (ONE PER DAY/MACHINE/SEAMING PERSONNEL AND AT LEAST ONCE EVERY FOUR HOURS BY EACH SEAMER AND SEAMING EQUIPMENT). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ALL THE FIELD SEAMS OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR PRESSURE TEST. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ONE DESTRUCTIVE TEST SAMPLE FOR EACH 500 FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| SF INSTALLED TODAY = <u>16,276</u> <u>12,276" CELA, 4000" CAPTURE NORTH</u> | | | |
| SF INSTALLED TO DATE = <u>258,438</u> | | | |
| INSPECTOR <u>Chris Bailey</u> | DATE <u>11-2-92</u> | | |
| REVIEWED BY <u>John H. Fox (Geologist)</u> | DATE <u>11-2-92</u> | | |

VLDPE GEOMEMBRANE

FORM A-8
SHEET 1 OF 1
INSPECTION DATE 11-1-92

ACCEPT REJECT N/A

1. MATERIAL

- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.

☒ ☐ ☐

2. VERIFICATION INSPECTION

- GUNDSEAL LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION).

☒ ☐ ☐

- TOP SURFACE OF THE GUNDSEAL IS FLAT AND FREE OF DEBRIS.

☒ ☐ ☐

- EACH PANEL OF VLDPE LINER IS INSTALLED IN ACCORDANCE WITH THE SHOP DRAWINGS PREPARED BY THE CONTRACTOR AND ACCEPTED BY THE CONSTRUCTION MANAGER.

☒ ☐ ☐

- ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.

☒ ☐ ☐

3. VERIFICATION TESTING

- GEOMEMBRANE THICKNESS IS VERIFIED.

☒ ☐ ☐

- SAMPLES OF SELECTED TEST SEAMS CUT AND TESTED FOR PEEL ADHESION AND BONDED SEAM STRENGTH (ONE PER DAY/MACHINE/SEAMING PERSONNEL AND AT LEAST ONCE EVERY FOUR HOURS BY EACH SEAMER AND SEAMING EQUIPMENT).

☒ ☐ ☐

- ALL THE FIELD SEAMS OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR PRESSURE TEST.

☒ ☐ ☐

- ONE DESTRUCTIVE TEST SAMPLE FOR EACH 500 FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED.

☒ ☐ ☐SF INSTALLED TODAY = 2200SF INSTALLED TO DATE = 260,638

INSPECTOR

Chris B. [Signature]DATE 11-2-92

REVIEWED BY

John H. [Signature] (Loggins)DATE 11-2-92

VLDPE GEOMEMBRANE

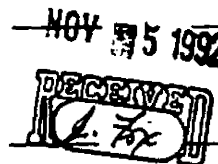
FORM A 8
SHEET 1 OF 1
INSPECTION DATE 10-3-92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. VERIFICATION INSPECTION | | | |
| - GUNDSEAL LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - TOP SURFACE OF THE GUNDSEAL IS FLAT AND FREE OF DEBRIS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - EACH PANEL OF VLDPE LINER IS INSTALLED IN ACCORDANCE WITH THE SHOP DRAWINGS PREPARED BY THE CONTRACTOR AND ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - GEOMEMBRANE THICKNESS IS VERIFIED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SAMPLES OF SELECTED TEST SEAMS CUT AND TESTED FOR PEEL ADHESION AND BONDED SEAM STRENGTH (ONE PER DAY/MACHINE/SEAMING PERSONNEL AND AT LEAST ONCE EVERY FOUR HOURS BY EACH SEAMER AND SEAMING EQUIPMENT). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ALL THE FIELD SEAMS OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR PRESSURE TEST. | <u>NA</u> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ONE DESTRUCTIVE TEST SAMPLE FOR EACH 500 FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED. | <u>NA</u> | <input type="checkbox"/> | <input type="checkbox"/> |
| SF INSTALLED TODAY = <u>38,544'</u> | | | |
| SF INSTALLED TO DATE = <u>229,182' 299,182'</u> | | | |
| INSPECTOR <u>Chris B...</u> NOV 11 1992 DATE <u>11-3-92</u> | | | |
| REVIEWED BY <u>John H. Lee (Geotechnical)</u> DATE <u>11-4-92</u> | | | |
| <u>10-3-92 J.P.</u> | | | |

VLDPE GEOMEMBRANE

FORM A-8
SHEET 1 OF 1
INSPECTION DATE 11-4-92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. VERIFICATION INSPECTION | | | |
| - GUNDSEAL LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - TOP SURFACE OF THE GUNDSEAL IS FLAT AND FREE OF DEBRIS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - EACH PANEL OF VLDPE LINER IS INSTALLED IN ACCORDANCE WITH THE SHOP DRAWINGS PREPARED BY THE CONTRACTOR AND ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - GEOMEMBRANE THICKNESS IS VERIFIED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SAMPLES OF SELECTED TEST SEAMS CUT AND TESTED FOR PEEL ADHESION AND BONDED SEAM STRENGTH (ONE PER DAY/MACHINE/SEAMING PERSONNEL AND AT LEAST ONCE EVERY FOUR HOURS BY EACH SEAMER AND SEAMING EQUIPMENT). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ALL THE FIELD SEAMS OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR PRESSURE TEST. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ONE DESTRUCTIVE TEST SAMPLE FOR EACH 500 FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| SF INSTALLED TODAY = <u>13,376² primary CELA</u> | | | |
| SF INSTALLED TO DATE = <u>282,481² primary</u> | | | |
| INSPECTOR <u>Chris Smith</u> | DATE <u>11-4-92</u> | | |
| REVIEWED BY <u>John D. Fox (Geolytic)</u> | DATE <u>11-5-92</u> | | |
| <u>11-4-92 J.D.</u> | | | |



NOV 7 6 1992

FORM A-8
SHEET 1 OF 1
INSPECTION DATE 11-5-92

VLDPE GEOMEMBRANE



| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. VERIFICATION INSPECTION | | | |
| - GUNDSEAL LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - TOP SURFACE OF THE GUNDSEAL IS FLAT AND FREE OF DEBRIS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - EACH PANEL OF VLDPE LINER IS INSTALLED IN ACCORDANCE WITH THE SHOP DRAWINGS PREPARED BY THE CONTRACTOR AND ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - GEOMEMBRANE THICKNESS IS VERIFIED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SAMPLES OF SELECTED TEST SEAMS CUT AND TESTED FOR PEEL ADHESION AND BONDED SEAM STRENGTH (ONE PER DAY/MACHINE/SEAMING PERSONNEL AND AT LEAST ONCE EVERY FOUR HOURS BY EACH SEAMER AND SEAMING EQUIPMENT). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ALL THE FIELD SEAMS OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR PRESSURE TEST. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ONE DESTRUCTIVE TEST SAMPLE FOR EACH 500 FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| SF INSTALLED TODAY = <u>13,112⁴</u> | | | |
| SF INSTALLED TO DATE = <u>282,217²</u> | | | |
| INSPECTOR <u>Chris B...</u> | DATE <u>11-5-92</u> | | |
| REVIEWED BY <u>John H. Fox (Geolytic)</u> | DATE <u>11-10-92</u> | | |
| <u>11-5-92</u> | | | |

LDPE GEOMEMBRANE

FORM A-8
SHEET 1 OF 1
INSPECTION DATE 11-9-92

1. MATERIAL

- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.

ACCEPT REJECT N/A

✓

2. VERIFICATION INSPECTION

- GUNSEAL LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION).

✓

- TOP SURFACE OF THE GUNSEAL IS FLAT AND FREE OF DEBRIS.

✓

- EACH PANEL OF VLDPE LINER IS INSTALLED IN ACCORDANCE WITH THE SHOP DRAWINGS PREPARED BY THE CONTRACTOR AND ACCEPTED BY THE CONSTRUCTION MANAGER.

✓

- ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.

✓

3. VERIFICATION TESTING

- GEOMEMBRANE THICKNESS IS VERIFIED.

✓

- SAMPLES OF SELECTED TEST SEAMS CUT AND TESTED FOR PEEL ADHESION AND BONDED SEAM STRENGTH (ONE PER DAY/MACHINE/SEAMING PERSONNEL AND AT LEAST ONCE EVERY FOUR HOURS BY EACH SEAMER AND SEAMING EQUIPMENT).



NOV 10 1992

✓

- ALL THE FIELD SEAMS OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR PRESSURE TEST.

WA

- ONE DESTRUCTIVE TEST SAMPLE FOR EACH 500 FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED.

NA

SF INSTALLED TODAY = 14,322 CELA

SF INSTALLED TO DATE = 261,184² CELA

INSPECTOR

[Signature]

DATE 11-9-92

REVIEWED BY

[Signature] (L. J. J. J.)

DATE 11-10-92

11-9-92

VLDPE GEOMEMBRANE

FORM A-8
SHEET 1 OF 1
INSPECTION DATE 11-10-92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. VERIFICATION INSPECTION | | | |
| - GUNDSEAL LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - TOP SURFACE OF THE GUNDSEAL IS FLAT AND FREE OF DEBRIS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - EACH PANEL OF VLDPE LINER IS INSTALLED IN ACCORDANCE WITH THE SHOP DRAWINGS PREPARED BY THE CONTRACTOR AND ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - GEOMEMBRANE THICKNESS IS VERIFIED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SAMPLES OF SELECTED TEST SEAMS CUT AND TESTED FOR PEEL ADHESION AND BONDED SEAM STRENGTH (ONE PER DAY/MACHINE/SEAMING PERSONNEL AND AT LEAST ONCE EVERY FOUR HOURS BY EACH SEAMER AND SEAMING EQUIPMENT). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ALL THE FIELD SEAMS OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR PRESSURE TEST. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ONE DESTRUCTIVE TEST SAMPLE FOR EACH 500 FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <p>SF INSTALLED TODAY = <u>2728 SF</u></p> <p>SF INSTALLED TO DATE = <u>342,720 SF</u></p> <p>INSPECTOR <u>Chris Bala</u> DATE <u>11-10-92</u></p> <p>REVIEWED BY <u>John G. Lee (Geosyntec)</u> DATE <u>11-11-92</u></p> | | | |

RECEIVED
NOV 11 1992

LDPE GEOMEMBRANE

FORM A-8
SHEET 1 OF 1
INSPECTION DATE 11-15-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. VERIFICATION INSPECTION | | | |
| - GUNSEAL LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION). | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - TOP SURFACE OF THE GUNSEAL IS FLAT AND FREE OF DEBRIS. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - EACH PANEL OF VLDPE LINER IS INSTALLED IN ACCORDANCE WITH THE SHOP DRAWINGS PREPARED BY THE CONTRACTOR AND ACCEPTED BY THE CONSTRUCTION MANAGER. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - GEOMEMBRANE THICKNESS IS VERIFIED. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - SAMPLES OF SELECTED TEST SEAMS CUT AND TESTED FOR PEEL ADHESION AND BONDED SEAM STRENGTH (ONE PER DAY/MACHINE/SEAMING PERSONNEL AND AT LEAST ONCE EVERY FOUR HOURS BY EACH SEAMER AND SEAMING EQUIPMENT). | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - ALL THE FIELD SEAMS OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR PRESSURE TEST. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - ONE DESTRUCTIVE TEST SAMPLE FOR EACH 500 FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <div style="text-align: center;"> <p>NOV 16 1992</p> <p>RECEIVED</p> <p>R.F.</p> </div> | | | |
| <p>SF INSTALLED TODAY = <u>0</u></p> <p>SF INSTALLED TO DATE = <u>342,720</u></p> <p>INSPECTOR <u>Chris B. [Signature]</u> DATE <u>11-16-92</u></p> <p>REVIEWED BY <u>John H. Fox (Geolytix)</u> DATE <u>11-16-92</u></p> <p><i>RESULTS OF DESTRUCTIVE SAMPLES C-9 THRU C-17 ARE ATTACHED.</i></p> | | | |

LDPE GEOMEMBRANE

FORM A-8
SHEET 1 OF 1
INSPECTION DATE 11-18-92

| | ACCEPT | REJECT | II/A |
|--|--------|--------|------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | | | ✓ |
| 2. VERIFICATION INSPECTION | | | |
| - GROUNDSEAL LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION. (NONHYDRATED CONDITION). | | | ✓ |
| - TOP SURFACE OF THE GROUNDSEAL IS FLAT AND FREE OF DEBRIS. | | | ✓ |
| - EACH PANEL OF VLDPE LINER IS INSTALLED IN ACCORDANCE WITH THE SHOP DRAWINGS PREPARED BY THE CONTRACTOR AND ACCEPTED BY THE CONSTRUCTION MANAGER. | | | ✓ |
| - ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. | | | ✓ |
| 3. VERIFICATION TESTING | | | |
| - GEOMEMBRANE THICKNESS IS VERIFIED. | | | ✓ |
| - SAMPLES ON SELECTED TEST SEAMS CUT AND TESTED FOR PEEL ADHESION AND BONDED SEAM STRENGTH (ONE PER DAY/ MACHINE SEAMING PERSONNEL AND AT LEAST ONCE EVERY FOUR HOURS BY EACH SEAMER AND SEAMING EQUIPMENT). | | | ✓ |
| - ALL FIELD SEAMS OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR PRESSURE TEST. | | | ✓ |
| - ONE DESTRUCTIVE TEST SAMPLE FOR EACH 100 FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED. | ✓ | | |

NOV 19 1992
DECEASE
J.F.

SEAM INSTALLED TODAY = 0

SEAM INSTALLED TO DATE = 342,720 SF

INSPECTOR: Chris Butcher

DATE 11-18-92

REVIEWED BY John H. Ry (Lulynta)

DATE 11-19-92

SEE ATTACHED SHEETS FOR RESULTS OF DESTRUCTIVE SAMPLES

C-18, C-19, C-20, C-21, C-22

VLDPE GEOMEMBRANE

FORM A-8
SHEET 1 OF 1
INSPECTION DATE 11-19-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. VERIFICATION INSPECTION | | | |
| - GUNSEAL LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - TOP SURFACE OF THE GUNSEAL IS FLAT AND FREE OF DEBRIS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - EACH PANEL OF VLDPE LINER IS INSTALLED IN ACCORDANCE WITH THE SHOP DRAWINGS PREPARED BY THE CONTRACTOR AND ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - GEOMEMBRANE THICKNESS IS VERIFIED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SAMPLES OF SELECTED TEST SEAMS CUT AND TESTED FOR PEEL ADHESION AND BONDED SEAM STRENGTH (ONE PER DAY/MACHINE/SEAMING PERSONNEL AND AT LEAST ONCE EVERY FOUR HOURS BY EACH SEAMER AND SEAMING EQUIPMENT). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ALL THE FIELD SEAMS OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR PRESSURE TEST. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ONE DESTRUCTIVE TEST SAMPLE FOR EACH 500 FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <p>SF INSTALLED TODAY = <u>46,904</u> <u>Rolls</u> N. OF 3rd Peak</p> <p>SF INSTALLED TO DATE = <u>389,624</u> <u>gpm</u></p> <p>INSPECTOR <u>Chris Smith</u> DATE <u>11-19-92</u></p> <p>REVIEWED BY <u>Mr. M. Smith (Analyst)</u> DATE <u>11-20-92</u></p> | | | |

NOV 20 1992



NOV 21 1992

VLOPE GEOMEMBRANE



FORM A 8
SHEET 1 OF 1
INSPECTION DATE 11-20-92

| | ACCEPT | REJECT | N/A |
|--|---------------|--------|-----|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | ✓ | | |
| 2. VERIFICATION INSPECTION | | | |
| - GENERAL LAYER ON WHICH VLOPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION). | ✓ | | |
| - TOP SURFACE OF THE GINDSEAL IS FLAT AND FREE OF DEBRIS. | ✓ | | |
| - EACH PANEL OF VLOPE LINER IS INSTALLED IN ACCORDANCE WITH THE SHOP DRAWINGS PREPARED BY THE CONTRACTOR AND ACCEPTED BY THE CONSTRUCTION MANAGER. | ✓ | | |
| - ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. | ✓ | | |
| 3. VERIFICATION TESTING | | | |
| - GEOMEMBRANE THICKNESS IS VERIFIED. | ✓ | | |
| - SAMPLES OF SELECTED TEST SEAMS CUT AND TESTED FOR PEEL ADHESION AND BONDING STRENGTH (ONE PER DAY/ HOURS BY SEAMING PERSONNEL AND AT LEAST ONCE EVERY FOUR HOURS BY EACH SEAMING AND SEAMING EQUIPMENT). | ✓ | | |
| - ALL FIELD SEAMS OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR TEST. | ✓ | | |
| - ONE DESTRUCTIVE TEST SAMPLE FOR EACH FULL LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED. | ✓ | | |
| BY INSTALLED TODAY = 23,540' 10480' CAP = 5060' Channel | | | |
| BY INSTALLED TO DATE = 413164' | | | |
| INSPECTED BY <i>Chris Galt</i> | DATE 11-20-92 | | |
| REVIEWED BY <i>Jonathan Brinkley</i> | DATE 11/21/92 | | |
| UNDER LING. MAIL COMPLETE | | | |

NOV 22 1992

VLDPE GEOMEMBRANE



FORM A-8
SHEET 1 OF 1
INSPECTION DATE 11-21-92

| | ACCEPT | REJECT | N/A |
|---|--------|--------|-----|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | ✓ | | |
| 2. VERIFICATION INSPECTION | | | |
| - GENERAL LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION). | ✓ | | |
| - TOP SURFACE OF THE GUNSEAL IS FLAT AND FREE OF DEBRIS. | ✓ | | |
| - EACH PANEL OF VLDPE LINER IS INSTALLED IN ACCORDANCE WITH THE SHOP DRAWINGS PREPARED BY THE CONTRACTOR AND ACCEPTED BY THE CONSTRUCTION MANAGER. | ✓ | | |
| - ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. | ✓ | | |
| 3. VERIFICATION TESTING | | | |
| - GEOMEMBRANE THICKNESS IS VERIFIED. | ✓ | | |
| - SAMPLES OF SELECTED TEST SEAMS CUT AND TESTED FOR PEEL ADHESION AND BONDED SEAM STRENGTH (ONE PER DAY/MACHINE/SEAMING PERSONNEL AND AT LEAST ONCE EVERY FOUR HOURS BY EACH SEAMER AND SEAMING EQUIPMENT). | ✓ | | |
| - ALL THE FIELD SEAMS OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR PRESSURE TEST. | ✓ | | |
| - ONE DESTRUCTIVE TEST SAMPLE FOR EACH 500 FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED. | ✓ | | |

SF INSTALLED TODAY = 8340

SF INSTALLED TO DATE = 422,404 SF?

INSPECTOR Chris Bally

DATE 11-21-92

REVIEWED BY Jonathan Bandes

DATE 11/22/92

NOV 23 1992



VLDPE GEOMEMBRANE

FORM A 8
SHEET 1 OF 1
INSPECTION DATE 11-22-92

| | ACCEPT | REJECT | N/A |
|---|--------|--------|-----|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | ✓ | | |
| 2. VERIFICATION INSPECTION | | | |
| - GUNSEAL LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION). | ✓ | | |
| - TOP SURFACE OF THE GUNSEAL IS FLAT AND FREE OF DEBRIS. | ✓ | | |
| - EACH PANEL OF VLDPE LINER IS INSTALLED IN ACCORDANCE WITH THE SHOP DRAWINGS PREPARED BY THE CONTRACTOR AND ACCEPTED BY THE CONSTRUCTION MANAGER. | ✓ | | |
| - ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. | ✓ | | |
| 3. VERIFICATION TESTING | | | |
| - GEOMEMBRANE THICKNESS IS VERIFIED. | ✓ | | |
| - SAMPLES OF SELECTED TEST SEAMS CUT AND TESTED FOR PEEL ADHESION AND BONDING STRENGTH (ONE PER DAY/MAJOR SEAMING PERSONNEL AND AT LEAST ONCE EVERY FOUR HOURS BY EACH SEAMER AND SEAMING EQUIPMENT). | ✓ | | |
| - ALL FIELD SEAMS OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR PRESSURE TEST. | ✓ | | |
| - ONE SEAM TEST SAMPLE FOR EACH FULL LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED. | ✓ | | |

SF INSTALLED TODAY = 18,480 SF

SF INSTALLED TO DATE = 440,004 SF

INSPECTOR Philip E. [Signature]

DATE 11-22-92

REVIEWED BY Jonathan Brandes

DATE 11/24/92

RAW STORED BY AMERICAN INSULATION CO. [Signature]

NOV 25 1992

VLDPE GEOMEMBRANE

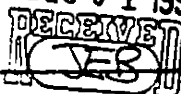


FORM A 8
SHEET 1 OF 1
INSPECTION DATE 11/24/92

| | ACCEPT | REJECT | N/A |
|---|--------|-----------------|-----|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | ✓ | | |
| 2. VERIFICATION INSPECTION | | | |
| - GROUND SEAL LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION). | ✓ | | |
| - TOP SURFACE OF THE GROUND SEAL IS FLAT AND FREE OF DEBRIS. | ✓ | | |
| - EACH PANEL OF VLDPE LINER IS INSTALLED IN ACCORDANCE WITH THE SHOP DRAWINGS PREPARED BY THE CONTRACTOR AND ACCEPTED BY THE CONSTRUCTION MANAGER. | ✓ | | |
| - ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. | ✓ | | |
| 3. VERIFICATION TESTING | | | |
| - GEOMEMBRANE THICKNESS IS VERIFIED. | ✓ | | |
| - SAMPLES OF SELECTED TEST SEAMS CUT AND TESTED FOR PEEL ADHESION AND BONDED SEAM STRENGTH (ONE PER DAY/MACHINE/SEAMING PERSONNEL AND AT LEAST ONCE EVERY FOUR HOURS BY EACH SEAMER AND SEAMING EQUIPMENT). | ✓ | | |
| - ALL THE FIELD SEAMS OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR PRESSURE TEST. | ✓ | | |
| - ONE DESTRUCTIVE TEST SAMPLE FOR EACH 500 FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED. | ✓ | | |
| SF INSTALLED TODAY = <u>36,960</u> SF | | | |
| SF INSTALLED TO DATE = <u>477,844</u> SF | | | |
| INSPECTOR: <u>Chris B. [Signature]</u> | DATE | <u>11-24-92</u> | |
| REVIEWED BY: <u>Jonathan Brando</u> | DATE | <u>11/25/92</u> | |
| * RESULTS OF DESTRUCTIVE TESTS C22, C24-C30 ARE ATTACHED | | | |

VLDPE GEOMEMBRANE

DEC 01 1992



FORM A 8

SHEET 1 OF

INSPECTION DATE

11/30/92

ACCEPT

REJECT

N/A

1. MATERIAL

- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.

✓

2. VERIFICATION INSPECTION

- GUNDSEAL LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION).

✓

- TOP SURFACE OF THE GUNDSEAL IS FLAT AND FREE OF DEBRIS.

✓

- EACH PANEL OF VLDPE LINER IS INSTALLED IN ACCORDANCE WITH THE SHOP DRAWINGS PREPARED BY THE CONTRACTOR AND ACCEPTED BY THE CONSTRUCTION MANAGER.

✓

- ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.

✓

3. VERIFICATION TESTING

- GEOMEMBRANE THICKNESS IS VERIFIED.

✓

- SAMPLES OF SELECTED TEST SEAMS CUT AND TESTED FOR PEEL ADHESION AND BONDED SEAM STRENGTH (ONE PER DAY/MACHINE/SEAMING PERSONNEL AND AT LEAST ONCE EVERY FOUR HOURS BY EACH SEAMER AND SEAMING EQUIPMENT).

✓

- ALL THE FIELD SEAMS OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR PRESSURE TEST.

✓

- ONE DESTRUCTIVE TEST SAMPLE FOR EACH 500 FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED.

✓

SF INSTALLED TODAY = 36,960 sf

SF INSTALLED TO DATE = 514,759

(UNDERLINER CELA
83,845 sf + 430,914 sf)

INSPECTOR

DATE

11-30-92

REVIEWED BY

DATE

12/1/92

VLDPE GEOMEMBRANE

DEC 02 1992



FORM A-8

SHEET 1 OF 1
INSPECTION DATE 12/1/92

ACCEPT REJECT N/A

MATERIAL

- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.

✓

2. VERIFICATION INSPECTION

- GUNDSEAL LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION).

✓

- TOP SURFACE OF THE GUNDSEAL IS FLAT AND FREE OF DEBRIS.

✓

- EACH PANEL OF VLDPE LINER IS INSTALLED IN ACCORDANCE WITH THE SHOP DRAWINGS PREPARED BY THE CONTRACTOR AND ACCEPTED BY THE CONSTRUCTION MANAGER.

✓

- ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.

✓

3. VERIFICATION TESTING

- GEOMEMBRANE THICKNESS IS VERIFIED.

✓

- SAMPLES OF SELECTED TEST SEAMS CUT AND TESTED FOR PEEL ADHESION AND BONDED SEAM STRENGTH (ONE PER DAY/MACHINE/SEAMING PERSONNEL AND AT LEAST ONCE EVERY FOUR HOURS BY EACH SEAMER AND SEAMING EQUIPMENT).

✓

- ALL THE FIELD SEAMS OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR PRESSURE TEST.

✓

- ONE DESTRUCTIVE TEST SAMPLE FOR EACH 500 FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED.

✓

SF INSTALLED TODAY = 14,916 SF

SF INSTALLED TO DATE = 529,675 SF (445,830 SF + 83,845 SF)

INSPECTOR

Chris B. [Signature]

DATE 12-1-92

REVIEWED BY

Jonathan Brandes

DATE 12/3/92

* RESULTS OF DESTRUCTIVE TESTS DS-C31 TO DS-C38 ARE ATTACHED

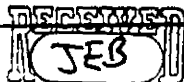
VLDPE GEOMEMBRANE

DEC 03 1992

FORM A 8

SHEET 1 OF 12/2/92

INSPECTION DATE



ACCEPT

REJECT

N/A

1. MATERIAL

- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.

✓

2. VERIFICATION INSPECTION

- GUNDSEAL LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION).

✓

- TOP SURFACE OF THE GUNDSEAL IS FLAT AND FREE OF DEBRIS.

✓

- EACH PANEL OF VLDPE LINER IS INSTALLED IN ACCORDANCE WITH THE SHOP DRAWINGS PREPARED BY THE CONTRACTOR AND ACCEPTED BY THE CONSTRUCTION MANAGER.

✓

- ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.

✓

3. VERIFICATION TESTING

- GEOMEMBRANE THICKNESS IS VERIFIED.

(TO BE VERIFIED TOMORROW)

✓

- SAMPLES OF SELECTED TEST SEAMS CUT AND TESTED FOR PEEL ADHESION AND BONDED SEAM STRENGTH (ONE PER DAY/MACHINE/SEAMING PERSONNEL AND AT LEAST ONCE EVERY FOUR HOURS BY EACH SEAMER AND SEAMING EQUIPMENT).

✓

- ALL THE FIELD SEAMS OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR PRESSURE TEST.

✓

- ONE DESTRUCTIVE TEST SAMPLE FOR EACH ~~100~~³⁰⁰ FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED.

✓

SF INSTALLED TODAY = 25,000 SF

SF INSTALLED TO DATE = 534,675 SF

INSPECTOR

DATE

12-2-92

REVIEWED BY

DATE

12/3/92

* RESULTS OF DESTRUCTIVE TESTS C39-43 ARE ATTACHED

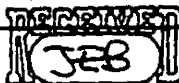
VLDPE GEOMEMBRANE

DEC 04 1992

FORM A 8

SHEET 1 OF 1
INSPECTION DATE

12/3/92



ACCEPT REJECT N/A

1. MATERIAL

- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.

✓

2. VERIFICATION INSPECTION

- GUNDSEAL LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION).

✓

- TOP SURFACE OF THE GUNDSEAL IS FLAT AND FREE OF DEBRIS.

✓

- EACH PANEL OF VLDPE LINER IS INSTALLED IN ACCORDANCE WITH THE SHOP DRAWINGS PREPARED BY THE CONTRACTOR AND ACCEPTED BY THE CONSTRUCTION MANAGER.

✓

- ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.

✓

3. VERIFICATION TESTING

- GEOMEMBRANE THICKNESS IS VERIFIED.

TO BE VERIFIED TOMORROW ✓

- SAMPLES OF SELECTED TEST SEAMS CUT AND TESTED FOR PEEL ADHESION AND BONDED SEAM STRENGTH (ONE PER DAY/MACHINE/SEAMING PERSONNEL AND AT LEAST ONCE EVERY FOUR HOURS BY EACH SEAMER AND SEAMING EQUIPMENT).

✓

- ALL THE FIELD SEAMS OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR PRESSURE TEST.

✓

- ONE DESTRUCTIVE TEST SAMPLE FOR EACH 150' FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED.

✓

SF INSTALLED TODAY = 13,332 SF

SF INSTALLED TO DATE = 568,007 SF (UNDERLINER 83,845 SF + CELA 484,162 SF)

INSPECTOR

DATE 12-3-92

REVIEWED BY

DATE 12/4/92

VLDPE GEOMEMBRANE

DEC 07 1992
RECEIVED
SEB

FORM A-8
SHEET 1 OF 1
INSPECTION DATE 12/4/92

1. MATERIAL

- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.

ACCEPT REJECT N/A

✓

2. VERIFICATION INSPECTION

- GUNDSEAL LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION).

✓

- TOP SURFACE OF THE GUNDSEAL IS FLAT AND FREE OF DEBRIS.

✓

- EACH PANEL OF VLDPE LINER IS INSTALLED IN ACCORDANCE WITH THE SHOP DRAWINGS PREPARED BY THE CONTRACTOR AND ACCEPTED BY THE CONSTRUCTION MANAGER.

✓

- ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.

✓

3. VERIFICATION TESTING

- GEOMEMBRANE THICKNESS IS VERIFIED.

✓ (CHECKED ALL PANELS INSTALLED 12-2, 12-3 & TODAY.)

- SAMPLES OF SELECTED TEST SEAMS CUT AND TESTED FOR PEEL ADHESION AND BONDED SEAM STRENGTH (ONE PER DAY/MACHINE/SEAMING PERSONNEL AND AT LEAST ONCE EVERY FOUR HOURS BY EACH SEAMER AND SEAMING EQUIPMENT).

✓

- ALL THE FIELD SEAMS OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR PRESSURE TEST.

✓

- ONE DESTRUCTIVE TEST SAMPLE FOR EACH ^{150'} FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED.

✓

SF INSTALLED TODAY = 51,114 SF

SF INSTALLED TO DATE = 619,121 SF (UNDERWATER CELA 83,845 SF + 535,276 SF)

INSPECTOR *Chris [Signature]* DATE 12-3-92

REVIEWED BY *Jonathan [Signature]* DATE 12/7/92

COMPLETED VLDPE DEPLOYMENT WITHIN CELA AREA TODAY - SOME WELDING REMAINS.

VLDPE GEOMEMBRANE

DEC 08 1992
JGBFORM A-8
SHEET 1 OF 1
INSPECTION DATE 12-7-92

MATERIAL

- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.

ACCEPT REJECT N/A

2. VERIFICATION INSPECTION

- GUNDSEAL LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION).

- TOP SURFACE OF THE GUNDSEAL IS FLAT AND FREE OF DEBRIS.

- EACH PANEL OF VLDPE LINER IS INSTALLED IN ACCORDANCE WITH THE SHOP DRAWINGS PREPARED BY THE CONTRACTOR AND ACCEPTED BY THE CONSTRUCTION MANAGER.

- ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.

VERIFICATION TESTING

- GEOMEMBRANE THICKNESS IS VERIFIED.

- SAMPLES OF SELECTED TEST SEAMS CUT AND TESTED FOR PEEL ADHESION AND BONDED SEAM STRENGTH (ONE PER DAY/MACHINE/SEAMING PERSONNEL AND AT LEAST ONCE EVERY FOUR HOURS BY EACH SEAMER AND SEAMING EQUIPMENT).

- ALL THE FIELD SEAMS OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR PRESSURE TEST.

- ONE DESTRUCTIVE TEST SAMPLE FOR EACH ~~100~~ ¹⁵⁰ FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED.

SF INSTALLED TODAY = 0 SFSF INSTALLED TO DATE = 619,121 SFINSPECTOR Ching B. [Signature]DATE 12-7-92REVIEWED BY Jonathan BrandesDATE 12/9/92SEAMING LINE LAPPED ON 12-4-92 IN ACCORDANCE w/ COLD WELDING
WELDING REQUIREMENTS.

VLDPE GEOMEMBRANE

FORM A 8
SHEET 1 OF 1
INSPECTION DATE 12-8-92DEC 09 1992
RECEIVED
JEB

| MATERIAL | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|--------------------------|
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. VERIFICATION INSPECTION | | | |
| - GUNDSEAL LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - TOP SURFACE OF THE GUNDSEAL IS FLAT AND FREE OF DEBRIS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - EACH PANEL OF VLDPE LINER IS INSTALLED IN ACCORDANCE WITH THE SHOP DRAWINGS PREPARED BY THE CONTRACTOR AND ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| VERIFICATION TESTING | | | |
| - GEOMEMBRANE THICKNESS IS VERIFIED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SAMPLES OF SELECTED TEST SEAMS CUT AND TESTED FOR PEEL ADHESION AND BONDED SEAM STRENGTH (ONE PER DAY/MACHINE/SEAMING PERSONNEL AND AT LEAST ONCE EVERY FOUR HOURS BY EACH SEAMER AND SEAMING EQUIPMENT). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ALL THE FIELD SEAMS OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR PRESSURE TEST. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ONE DESTRUCTIVE TEST SAMPLE FOR EACH 500 ¹⁵⁰ FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| SF INSTALLED TODAY = <u>0 SF</u> | | | |
| SF INSTALLED TO DATE = <u>69,121 SF</u> | | | |
| INSPECTOR <u>John G. [Signature]</u> | DATE <u>12-8-92</u> | | |
| REVIEWED BY <u>Jonathan Brander</u> | DATE <u>12/10/92</u> | | |
| NO NEW PANELS WERE PLACED TODAY; HOWEVER THE WEDGE WELDING OF THE PANELS PLACED ON 12-4-92 WAS COMPLETED IN ACCORDANCE WITH THE COLD WEATHER WELDING REQUIREMENTS. | | | |

VLDPE GEOMEMBRANE

DEC 10 1992
RECEIVED
DESFORM A 8
SHEET 1 OF 1
INSPECTION DATE 12-9-92

MATERIAL

- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.

ACCEPT REJECT N/A

✓

2. VERIFICATION INSPECTION

- GUNDSEAL LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION).

✓

- TOP SURFACE OF THE GUNDSEAL IS FLAT AND FREE OF DEBRIS.

✓

- EACH PANEL OF VLDPE LINER IS INSTALLED IN ACCORDANCE WITH THE SHOP DRAWINGS PREPARED BY THE CONTRACTOR AND ACCEPTED BY THE CONSTRUCTION MANAGER.

✓

- ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.

✓

3. VERIFICATION TESTING

- GEOMEMBRANE THICKNESS IS VERIFIED.

✓

- SAMPLES OF SELECTED TEST SEAMS CUT AND TESTED FOR PEEL ADHESION AND BONDED SEAM STRENGTH (ONE PER DAY/MACHINE/SEAMING PERSONNEL AND AT LEAST ONCE EVERY FOUR HOURS BY EACH SEAMER AND SEAMING EQUIPMENT).

✓

- ALL THE FIELD SEAMS OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR PRESSURE TEST.

✓

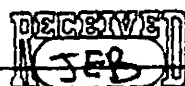
- ONE DESTRUCTIVE TEST SAMPLE FOR EACH 500 FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED.

✓ SF INSTALLED TODAY = 0SF INSTALLED TO DATE = 619,121 SFINSPECTOR Chris GaltDATE 12-9-92REVIEWED BY Jonathan GonzalezDATE 12/10/92

* PERFORMED ONLY REPAIR WORK TODAY. WELDING PERFORMED IN ACCORDANCE WITH
CEASINTEC'S COLD WEATHER WELDING REQUIREMENTS. WELDING RESULTS OF
DESTRUCTIVE TESTS 44-53 ARE ATTACHED.

VLDPE GEOMEMBRANE

DEC 11 1992



FORM A 8
SHEET 1 OF 1
INSPECTION DATE 12-10-92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. VERIFICATION INSPECTION | | | |
| - GUNDEAL LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - TOP SURFACE OF THE GUNDEAL IS FLAT AND FREE OF DEBRIS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - EACH PANEL OF VLDPE LINER IS INSTALLED IN ACCORDANCE WITH THE SHOP DRAWINGS PREPARED BY THE CONTRACTOR AND ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - GEOMEMBRANE THICKNESS IS VERIFIED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SAMPLES OF SELECTED TEST SEAMS CUT AND TESTED FOR PEEL ADHESION AND BONDED SEAM STRENGTH (ONE PER DAY/MACHINE/SEAMING PERSONNEL AND AT LEAST ONCE EVERY FOUR HOURS BY EACH SEAMER AND SEAMING EQUIPMENT). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ALL THE FIELD SEAMS OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR PRESSURE TEST. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ONE DESTRUCTIVE TEST SAMPLE FOR EACH 500 FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

SF INSTALLED TODAY = 0 SF

SF INSTALLED TO DATE = 619,121 SF

INSPECTOR Chris B. [Signature] DATE 12-10-92

REVIEWED BY Jonathan Brandes [Signature] DATE 12/14/92

* PERFORMED ONLY REPAIR WORK TODAY. WELDING PERFORMED IN ACCORDANCE WITH GEOSYNTEC'S COLD WEATHER WELDING REQUIREMENTS. DESTRUCTIVE TESTS C72 - C74 ARE ATTACHED.

VLDPE GEOMEMBRANE

FORM A 8
SHEET 1 OF 1
INSPECTION DATE 12-14-92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. VERIFICATION INSPECTION | | | |
| - GUNDSEAL LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - TOP SURFACE OF THE GUNDSEAL IS FLAT AND FREE OF DEBRIS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - EACH PANEL OF VLDPE LINER IS INSTALLED IN ACCORDANCE WITH THE SHOP DRAWINGS PREPARED BY THE CONTRACTOR AND ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - GEOMEMBRANE THICKNESS IS VERIFIED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SAMPLES OF SELECTED TEST SEAMS CUT AND TESTED FOR PEEL ADHESION AND BONDED SEAM STRENGTH (ONE PER DAY/MACHINE/SEAMING PERSONNEL AND AT LEAST ONCE EVERY FOUR HOURS BY EACH SEAMER AND SEAMING EQUIPMENT). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ALL THE FIELD SEAMS OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR PRESSURE TEST. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ONE DESTRUCTIVE TEST SAMPLE FOR EACH ¹⁵⁰ FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

SF INSTALLED TODAY = 0SF INSTALLED TO DATE = 619,121 SFINSPECTOR Chris BoyleDATE 12-14-92

REVIEWED BY

DATE

* PERFORMED ONLY REPAIR WORK TODAY. WORKING PERFORMED IN ACCORDANCE WITH CEOSYNTECS COLD-WEATHER WORKING REQUIREMENTS. COMPLETED LAST OF REPAIR WORK & QC TESTING FOR ALL VLDPE INSTALLED TO DATE. RESULTS OF DESTRUCTIVE TESTS 659-671 ARE ATTACHED.

VLDPE GEOMEMBRANE

DEC 19 1992



FORM A-8
SHEET 1 OF 1
INSPECTION DATE 12-18-92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. VERIFICATION INSPECTION | | | |
| - GUNDSEAL LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - TOP SURFACE OF THE GUNDSEAL IS FLAT AND FREE OF DEBRIS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - EACH PANEL OF VLDPE LINER IS INSTALLED IN ACCORDANCE WITH THE SHOP DRAWINGS PREPARED BY THE CONTRACTOR AND ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - GEOMEMBRANE THICKNESS IS VERIFIED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SAMPLES OF SELECTED TEST SEAMS CUT AND TESTED FOR PEEL ADHESION AND BONDED SEAM STRENGTH (ONE PER DAY/MACHINE/SEAMING PERSONNEL AND AT LEAST ONCE EVERY FOUR HOURS BY EACH SEAMER AND SEAMING EQUIPMENT). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ALL THE FIELD SEAMS OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR PRESSURE TEST. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ONE DESTRUCTIVE TEST SAMPLE FOR EACH 500 ^{150'} FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| SF INSTALLED TODAY = <u>0</u> | | | |
| SF INSTALLED TO DATE = <u>619,121 SF</u> | | | |
| INSPECTOR <u>Chris Grogg</u> | | DATE <u>12-18-92</u> | |
| REVIEWED BY <u>Jonathan Brunk</u> | | DATE <u>12/19/92</u> | |
| * PERFORMED ONLY REPAIR WORK TODAY. NO WORK PERFORMED IN ACCORDANCE WITH LOWSYNTHES COLD WEATHER WELDING REQUIREMENTS. COMPLETED LAST PATCH TODAY. | | | |

DEC 21 1992

FORM A 8

SHEET 1 OF 1INSPECTION DATE 12-19-92

VLDPE GEOMEMBRANE



ACCEPT REJECT N/A

1. MATERIAL

- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.

✓

2. VERIFICATION INSPECTION

- GUNDSEAL LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION).

✓

- TOP SURFACE OF THE GUNDSEAL IS FLAT AND FREE OF DEBRIS.

✓

- EACH PANEL OF VLDPE LINER IS INSTALLED IN ACCORDANCE WITH THE SHOP DRAWINGS PREPARED BY THE CONTRACTOR AND ACCEPTED BY THE CONSTRUCTION MANAGER.

✓

- ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.

✓

3. VERIFICATION TESTING

- GEOMEMBRANE THICKNESS IS VERIFIED.

✓

- SAMPLES OF SELECTED TEST SEAMS CUT AND TESTED FOR PEEL ADHESION AND BONDED SEAM STRENGTH (ONE PER DAY/MACHINE/SEAMING PERSONNEL AND AT LEAST ONCE EVERY FOUR HOURS BY EACH SEAMER AND SEAMING EQUIPMENT).

✓

- ALL THE FIELD SEAMS OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR PRESSURE TEST.

✓

- ONE DESTRUCTIVE TEST SAMPLE FOR EACH ¹⁵⁰ ~~200~~ FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED.

✓

SF INSTALLED TODAY = 1375 SFSF INSTALLED TO DATE = 620,496 SFINSPECTOR: Chris BurtDATE 12-19-92REVIEWED BY Jonathan SanchezDATE 12-22-92

* WELDING PERFORMED IN ACCORDANCE WITH GEOSYNTECS COLD WEATHER WELDING REQUIREMENTS.

VLDPE GEOMEMBRANE

DEC 22 1992



FORM A-8
SHEET 1 OF 1
INSPECTION DATE 12/22/92

1. MATERIAL

- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.

ACCEPT REJECT N/A

✓

2. VERIFICATION INSPECTION

- GUNDSEAL LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION).

✓

- TOP SURFACE OF THE GUNDSEAL IS FLAT AND FREE OF DEBRIS.

✓

- EACH PANEL OF VLDPE LINER IS INSTALLED IN ACCORDANCE WITH THE SHOP DRAWINGS PREPARED BY THE CONTRACTOR AND ACCEPTED BY THE CONSTRUCTION MANAGER.

✓

- ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.

✓

3. VERIFICATION TESTING

- GEOMEMBRANE THICKNESS IS VERIFIED.

✓

- SAMPLES OF SELECTED TEST SEAMS CUT AND TESTED FOR PEEL ADHESION AND BONDED SEAM STRENGTH (ONE PER DAY/MACHINE/SEAMING PERSONNEL AND AT LEAST ONCE EVERY FOUR HOURS BY EACH SEAMER AND SEAMING EQUIPMENT).

✓

- ALL THE FIELD SEAMS OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR PRESSURE TEST.

✓

- ONE DESTRUCTIVE TEST SAMPLE FOR EACH 500 FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED.

✓

SF INSTALLED TODAY = 0 SF

SF INSTALLED TO DATE = 620,496 SF

INSPECTOR: *Christopher J. Ball*

DATE 12-21-92

REVIEWED BY: *Jonathan Brundage*

DATE 12-22-92

* PERFORMED ONLY REPAIR WORK TODAY. WELDING PERFORMED IN ACCORDANCE WITH GEOSYNTECS COLD WEATHER WELDING REQUIREMENTS.

MAY 19 1993

FORM A-8
SHEET 1 OF 1
INSPECTION DATE 5-14-93

VLDPE GEOMEMBRANE



ACCEPT REJECT N/A

1. MATERIAL

- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.

✓

2. VERIFICATION INSPECTION

- GUNDSEAL LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION).

✓

- TOP SURFACE OF THE GUNDSEAL IS FLAT AND FREE OF DEBRIS.

✓

- EACH PANEL OF VLDPE LINER IS INSTALLED IN ACCORDANCE WITH THE SHOP DRAWINGS PREPARED BY THE CONTRACTOR AND ACCEPTED BY THE CONSTRUCTION MANAGER.

✓

- ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.

✓

3. VERIFICATION TESTING

- GEOMEMBRANE THICKNESS IS VERIFIED.

✓

- SAMPLES OF SELECTED TEST SEAMS CUT AND TESTED FOR PEEL ADHESION AND BONDED SEAM STRENGTH (ONE PER DAY/MACHINE/SEAMING PERSONNEL AND AT LEAST ONCE EVERY FOUR HOURS BY EACH SEAMER AND SEAMING EQUIPMENT).

✓

- ALL THE FIELD SEAMS OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR PRESSURE TEST.

✓

- ONE DESTRUCTIVE TEST SAMPLE FOR EACH 500 FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED.

✓

SF INSTALLED TODAY = 8800' EAST CHANNEL CAP EXTENSION

SF INSTALLED TO DATE = 629,296'

INSPECTOR: James A. White

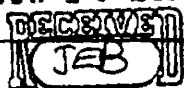
DATE 5-14-93

REVIEWED BY: Jonathan Brundage

DATE 5/29/93

VLDPE GEOMEMBRANE

MAY 19 1993



FORM A 8
SHEET 1 OF 1
INSPECTION DATE 5-19-93

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. VERIFICATION INSPECTION | | | |
| - GROUNDSEAL LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - TOP SURFACE OF THE GROUNDSEAL IS FLAT AND FREE OF DEBRIS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - EACH PANEL OF VLDPE LINER IS INSTALLED IN ACCORDANCE WITH THE SHOP DRAWINGS PREPARED BY THE CONTRACTOR AND ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - GEOMEMBRANE THICKNESS IS VERIFIED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SAMPLES OF SELECTED TEST SEAMS CUT AND TESTED FOR PEEL ADHESION AND BONDED SEAM STRENGTH (ONE PER DAY/MACHINE/SEAMING PERSONNEL AND AT LEAST ONCE EVERY FOUR HOURS BY EACH SEAMER AND SEAMING EQUIPMENT). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ALL THE FIELD SEAMS OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR PRESSURE TEST. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| ONE DESTRUCTIVE TEST SAMPLE FOR EACH 500 FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| SE INSTALLED TODAY = <u>12,320 ~ North Channel cap extension</u> | | | |
| SE INSTALLED TO DATE = <u>641,616 ~</u> | | | |
| INSPECTOR <u>Garcia A. White</u> | DATE <u>5-19-93</u> | | |
| REVIEWED BY <u>Jonathan Brandes</u> | DATE <u>5/20/93</u> | | |

VLDPE GEOMEMBRANE

MAY 24 1993

FORM A-B 1 OF 1
SHEET 1 OF 1
INSPECTION DATE 5-21-93



MATERIAL

- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.

ACCEPT REJECT N/A

2. VERIFICATION INSPECTION

- GROUNDSEAL LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION).

- TOP SURFACE OF THE GROUNDSEAL IS FLAT AND FREE OF DEBRIS.

- EACH PANEL OF VLDPE LINER IS INSTALLED IN ACCORDANCE WITH THE SHOP DRAWINGS PREPARED BY THE CONTRACTOR AND ACCEPTED BY THE CONSTRUCTION MANAGER.

- ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.

VERIFICATION TESTING

- GEOMEMBRANE THICKNESS IS VERIFIED.
- SAMPLES OF SELECTED TEST SEAMS CUT AND TESTED FOR PEEL ADHESION AND BONDED SEAM STRENGTH (ONE PER DAY/MACHINE/SEAMING PERSONNEL AND AT LEAST ONCE EVERY FOUR HOURS BY EACH SEAMER AND SEAMING EQUIPMENT).
- ALL THE FIELD SEAMS OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR PRESSURE TEST.
- ONE DESTRUCTIVE TEST SAMPLE FOR EACH 500 FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED.

SE INSTALLED TODAY = Welded only DS's # 75 & 76 sent to lab

SE INSTALLED TO DATE =

INSPECTOR

James A. White

DATE 5-24-93

REVIEWED BY

Jonathan Brando

DATE 5/25/93

NOV 24 1993

VLDPE GEOMEMBRANE



FORM A-B
SHEET 1 OF 1
INSPECTION DATE 5-24-93

| | ACCEPT | REJECT | N/A |
|---|---------------------|--------|-----|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | ✓ | | |
| 2. VERIFICATION INSPECTION | | | |
| - GROUNDSEAL LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION). | ✓ | | |
| - TOP SURFACE OF THE GROUNDSEAL IS FLAT AND FREE OF DEBRIS. | ✓ | | |
| - EACH PANEL OF VLDPE LINER IS INSTALLED IN ACCORDANCE WITH THE SHOP DRAWINGS PREPARED BY THE CONTRACTOR AND ACCEPTED BY THE CONSTRUCTION MANAGER. | ✓ | | |
| - ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. | ✓ | | |
| 3. VERIFICATION TESTING | | | |
| - GEOMEMBRANE THICKNESS IS VERIFIED. | ✓ | | |
| - SAMPLES OF SELECTED TEST SEAMS CUT AND TESTED FOR PEEL ADHESION AND BONDED SEAM STRENGTH (ONE PER DAY/MACHINE/SEAMING PERSONNEL AND AT LEAST ONCE EVERY FOUR HOURS BY EACH SEAMER AND SEAMING EQUIPMENT). | ✓ | | |
| - ALL THE FIELD SEAMS OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR PRESSURE TEST. | ✓ | | |
| - ONE DESTRUCTIVE TEST SAMPLE FOR EACH 500 FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED. | ✓ | | |
| SE INSTALLED TODAY = <u>NO LINER INSTALLED TODAY</u> <i>DS results attached #15 75876</i> | | | |
| SE INSTALLED TO DATE = | | | |
| INSPECTOR <u>James L. Martin</u> | DATE <u>5-24-93</u> | | |
| REVIEWED BY <u>Jonathan Brandes</u> | DATE <u>5/25/93</u> | | |

VLDPE GEOMEMBRANE

MAY 27 1993

FORM A-8
SHEET 1 OF 1
INSPECTION DATE 5-25-93



| | ACCEPT | REJECT | N/A |
|---|--------|--------|-----|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | / | | |
| 2. VERIFICATION INSPECTION | | | |
| - GROUNDSEAL LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION). | / | | |
| - TOP SURFACE OF THE GROUNDSEAL IS FLAT AND FREE OF DEBRIS. | / | | |
| - EACH PANEL OF VLDPE LINER IS INSTALLED IN ACCORDANCE WITH THE SHOP DRAWINGS PREPARED BY THE CONTRACTOR AND ACCEPTED BY THE CONSTRUCTION MANAGER. | / | | |
| - ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. | / | | |
| 3. VERIFICATION TESTING | / | | |
| - GEOMEMBRANE THICKNESS IS VERIFIED. | / | | |
| - SAMPLES OF SELECTED TEST SEAMS CUT AND TESTED FOR PEEL ADHESION AND BONDED SEAM STRENGTH (ONE PER DAY/MACHINE/SEAMING PERSONNEL AND AT LEAST ONCE EVERY FOUR HOURS BY EACH SEAMER AND SEAMING EQUIPMENT). | / | | |
| - ALL THE FIELD SEAMS OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR PRESSURE TEST. | / | | |
| - ONE DESTRUCTIVE TEST SAMPLE FOR EACH 500 FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED. | / | | |

SE INSTALLED TODAY = 10,010' West Channel C106-C118

SE INSTALLED TO DATE = 651,626'

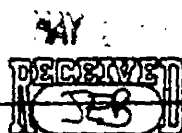
INSPECTOR *James E. Martin*

DATE 5-26-93

REVIEWED BY *Matthew Brando*

DATE 5/27/93

VLDPE GEOMEMBRANE



FORM A-8
SHEET 1 OF 7
INSPECTION DATE 5-26-93

| | ACCEPT | REJECT | N/A |
|---|---------------------|--------|-----|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | / | | |
| 2. VERIFICATION INSPECTION | | | |
| - GROUNDSEAL LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION). | / | | |
| - TOP SURFACE OF THE GROUNDSEAL IS FLAT AND FREE OF DEBRIS. | / | | |
| - EACH PANEL OF VLDPE LINER IS INSTALLED IN ACCORDANCE WITH THE SHOP DRAWINGS PREPARED BY THE CONTRACTOR AND ACCEPTED BY THE CONSTRUCTION MANAGER. | / | | |
| - ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. | / | | |
| 3. VERIFICATION TESTING | | | |
| - GEOMEMBRANE THICKNESS IS VERIFIED. | / | | |
| - SAMPLES OF SELECTED TEST SEAMS CUT AND TESTED FOR PEEL ADHESION AND BONDED SEAM STRENGTH (ONE PER DAY/MACHINE/SEAMING PERSONNEL AND AT LEAST ONCE EVERY FOUR HOURS BY EACH SEAMER AND SEAMING EQUIPMENT). | / | | |
| - ALL THE FIELD SEAMS OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR PRESSURE TEST. | / | | |
| - ONE DESTRUCTIVE TEST SAMPLE FOR EACH 500 FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED. | / | | |
| SE INSTALLED TODAY = <u>8998' N-W Channel</u> | | | |
| SE INSTALLED TO DATE = <u>660,624'</u> | | | |
| INSPECTOR <u>J. H. Martin</u> | DATE <u>5-27-93</u> | | |
| REVIEWED BY <u>Jonathan Brandes</u> | DATE <u>5/27/93</u> | | |

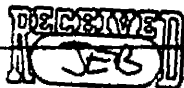
VLDPE GEOMEMBRANE

JUN 02 1993

FORM A-8

SHEET _____ OF _____

INSPECTION DATE 5-27-93



ACCEPT

REJECT

N/A

1. MATERIAL

- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.

✓

2. VERIFICATION INSPECTION

- GROUNDSEAL LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION).

✓

- TOP SURFACE OF THE GROUNDSEAL IS FLAT AND FREE OF DEBRIS.

✓

- EACH PANEL OF VLDPE LINER IS INSTALLED IN ACCORDANCE WITH THE SHOP DRAWINGS PREPARED BY THE CONTRACTOR AND ACCEPTED BY THE CONSTRUCTION MANAGER.

✓

- ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.

✓

3. VERIFICATION TESTING

- GEOMEMBRANE THICKNESS IS VERIFIED.

✓

- SAMPLES OF SELECTED TEST SEAMS CUT AND TESTED FOR PEEL ADHESION AND BONDED SEAM STRENGTH (ONE PER DAY/MACHINE/SEAMING PERSONNEL AND AT LEAST ONCE EVERY FOUR HOURS BY EACH SEAMER AND SEAMING EQUIPMENT).

✓

- ALL THE FIELD SEAMS OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR PRESSURE TEST.

✓

- ONE DESTRUCTIVE TEST SAMPLE FOR EACH 500 FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED.

✓

SF INSTALLED TODAY = DS #'s 77-78 sent to Lab

SF INSTALLED TO DATE =

INSPECTOR

J. A. Martin

DATE

6-1-93

REVIEWED BY

Jonathan Brando

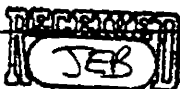
DATE

6/2/93

VLDPE GEOMEMBRANE

02 1993

MAY 28 1993



JUN 02 1993

FORM A-8
SHEET _____ OF _____
INSPECTION DATE 5-20-93

1. MATERIAL

- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.

ACCEPT REJECT N/A

2. VERIFICATION INSPECTION

- GROUNDSEAL LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION).
- TOP SURFACE OF THE GROUNDSEAL IS FLAT AND FREE OF DEBRIS.
- EACH PANEL OF VLDPE LINER IS INSTALLED IN ACCORDANCE WITH THE SHOP DRAWINGS PREPARED BY THE CONTRACTOR AND ACCEPTED BY THE CONSTRUCTION MANAGER.
- ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.

3. VERIFICATION TESTING

- GEOMEMBRANE THICKNESS IS VERIFIED.
- SAMPLES OF SELECTED TEST SEAMS CUT AND TESTED FOR PEEL ADHESION AND BONDED SEAM STRENGTH (ONE PER DAY/MACHINE/SEAMING PERSONNEL AND AT LEAST ONCE EVERY FOUR HOURS BY EACH SEAMER AND SEAMING EQUIPMENT).
- ALL THE FIELD SEAMS OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR PRESSURE TEST.
- ONE DESTRUCTIVE TEST SAMPLE FOR EACH 500 FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED.

SF INSTALLED TODAY = PS results attached

SF INSTALLED TO DATE =

INSPECTOR

J. A. Martin

DATE

6-1-93

REVIEWED BY

Jonathan Bonds

DATE

6/2/93

EOSYNTHETIC DRAINAGE LINER

FORM A-9
SHEET 1 OF 1
INSPECTION DATE 11-10-92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. VERIFICATION INSPECTION | | | |
| - TOP SURFACE OF THE VLDPE LINER IS FREE OF DEBRIS BEFORE THE DRAINAGE LINER INSTALLATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - DRAINAGE LAYER IS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S AND SPECIFICATION REQUIREMENTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ADJACENT ROLLS ARE JOINED BY PLASTIC TIES SUPPLIED WITH THE LINER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - MINIMUM OVERLAP IS 6 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. DUST CONTROL | | | |
| ACTION TAKEN <u>NONE REQUIRED</u> | | | |
| 4. LOCATION (APPROXIMATE) | | | |
| <u>EAST SIDE OF SITE - SOUTH OF POWER POLE</u> | | | |
| 5. REMARKS <u>FIRST DAY OF GEOSYNTHETIC GEOLCOMPOSITE</u> | | | |
| SF INSTALLED TODAY = <u>11,400 SF</u> | | | |
| SF INSTALLED TO DATE = <u>11,400 SF</u> | | | |
| <div data-bbox="1125 1703 1310 1856" data-label="Text"> <p>NOV 11 1992 RECEIVED J.F.</p> </div> | | | |
| INSPECTOR <u>Chris Baily</u> | DATE <u>11-10-92</u> | | |
| REVIEWED BY <u>John L. Fort (Geologist)</u> | DATE <u>11-11-92</u> | | |

GEOSYNTHETIC DRAINAGE LINER

FORM A-9
SHEET 1 OF 1
INSPECTION DATE 11-11-92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. VERIFICATION INSPECTION | | | |
| - TOP SURFACE OF THE VLDPE LINER IS FREE OF DEBRIS BEFORE THE DRAINAGE LINER INSTALLATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - DRAINAGE LAYER IS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S AND SPECIFICATION REQUIREMENTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ADJACENT ROLLS ARE JOINED BY PLASTIC TIES SUPPLIED WITH THE LINER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - MINIMUM OVERLAP IS <u>6</u> INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. DUST CONTROL | | | |
| ACTION TAKEN <u>NONE REQUIRED</u> | | | |
| 4. LOCATION (APPROXIMATE) | | | |
| <u>South End</u> | | | |
| 5. REMARKS | | | |
| <u>Deployed 83 rolls tied all and sewed 1/2. South end is covered from 20' N. of "I" line</u> | | | |
| SF INSTALLED TODAY = <u>47,310</u> | | | |
| SF INSTALLED TO DATE = <u>58,710</u> | | | |
| INSPECTOR <u>Chris Burt</u> | | | |
| DATE <u>11-11-92</u> | | | |
| REVIEWED BY <u>John H. Fox (Geosyntec)</u> | | | |
| DATE <u>11-13-92</u> | | | |

RECEIVED
C.F.


JAM 11-11-92

GEOSYNTHETIC DRAINAGE LINER

FORM A-9

SHEET 1 OF 1

INSPECTION DATE 11-13-92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. VERIFICATION INSPECTION | | | |
| - TOP SURFACE OF THE VLDPE LINER IS FREE OF DEBRIS BEFORE THE DRAINAGE LINER INSTALLATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - DRAINAGE LAYER IS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S AND SPECIFICATION REQUIREMENTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ADJACENT ROLLS ARE JOINED BY PLASTIC TIES SUPPLIED WITH THE LINER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - MINIMUM OVERLAP IS 6 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. DUST CONTROL | | | |
| ACTION TAKEN <u>NONE REQUIRED</u> | | | |
| 4. LOCATION (APPROXIMATE) | | | |
| <u>SOUTHERN SLOPE, EAST SIDE</u> | | | |
| 5. REMARKS <u>NONE</u> | | | |
| SF INSTALLED TODAY = <u>8550 SF</u> | | | |
| SF INSTALLED TO DATE = <u>67,260 SF</u> | | | |
| NOV 13 1992 | | | |
|  | | | |
| INSPECTOR <u>Chris Banta</u> | DATE <u>11-13-92</u> | | |
| REVIEWED BY <u>John H. Fox (Geologist)</u> | DATE <u>11-14-92</u> | | |

GEOSYNTHETIC DRAINAGE LINER

FORM A-9

SHEET 1 OF 1

INSPECTION DATE 11-14-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. VERIFICATION INSPECTION | | | |
| - TOP SURFACE OF THE VLDPE LINER IS FREE OF DEBRIS BEFORE THE DRAINAGE LINER INSTALLATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - DRAINAGE LAYER IS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S AND SPECIFICATION REQUIREMENTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ADJACENT ROLLS ARE JOINED BY PLASTIC TIES SUPPLIED WITH THE LINER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - MINIMUM OVERLAP IS 6 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. DUST CONTROL | | | |
| ACTION TAKEN <u>NONE REQUIRED</u> | | | |
| 4. LOCATION (APPROXIMATE) | | | |
| <u>BETWEEN TELEPHONE POLE & FIRST PEAK</u> | | | |
| 5. REMARKS | | | |
| <u>CONTINUED DEPLOYMENT NORTHWARDS - J FOX HAS ARRIVED W/PE LINER UP TO THE 2ND PEAK FOR GEOCOMPOSITE PLACEMENT.</u> | | | |
| <u>SF INSTALLED TODAY = 22,800 SF</u> | | | |
| <u>SF INSTALLED TO DATE = 90,060 SF</u> | | | |
| INSPECTOR <u>Chris Batty</u> | | | |
| REVIEWED BY <u>John A. Fox (Geosynthetic)</u> | | | |
| DATE <u>11-14-92</u> | | | |
| DATE <u>11-16-92</u> | | | |

NOV 16 1992



GEOSYNTHETIC DRAINAGE LINER

FORM A-9

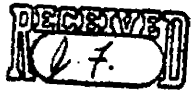
SHEET 1 OF 1

INSPECTION DATE 11-15-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. VERIFICATION INSPECTION | | | |
| - TOP SURFACE OF THE VLDPE LINER IS FREE OF DEBRIS BEFORE THE DRAINAGE LINER INSTALLATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - DRAINAGE LAYER IS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S AND SPECIFICATION REQUIREMENTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ADJACENT ROLLS ARE JOINED BY PLASTIC TIES SUPPLIED WITH THE LINER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - MINIMUM OVERLAP IS 6 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. DUST CONTROL | | | |
| ACTION TAKEN <u>NONE REQUIRED</u> | | | |
| 4. LOCATION (APPROXIMATE) | | | |
| <u>PEAK 1</u> | | | |
| 5. REMARKS <u>DEPLOYED 2 ROWS BEFORE WORK HAD TO BE HALTED DUE TO HEAVY SNOWFALL</u> | | | |
| SF INSTALLED TODAY = <u>1140 SF</u> | | | |
| SF INSTALLED TO DATE = <u>91,200</u> | | | |
| <div style="border: 1px solid black; padding: 5px; display: inline-block;"> RECEIVED NOV 16 1992 </div> | | | |
| INSPECTOR <u>Chris Barty</u> | DATE <u>11-16-92</u> | | |
| REVIEWED BY <u>John R. Grop (Geolyte)</u> | DATE <u>11-16-92</u> | | |


GEOSYNTHETIC DRAINAGE LINER

FORM A-9
SHEET 1 OF 1
INSPECTION DATE 11-16-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. VERIFICATION INSPECTION | | | |
| - TOP SURFACE OF THE VLDPE LINER IS FREE OF DEBRIS BEFORE THE DRAINAGE LINER INSTALLATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - DRAINAGE LAYER IS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S AND SPECIFICATION REQUIREMENTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ADJACENT ROLLS ARE JOINED BY PLASTIC TIES SUPPLIED WITH THE LINER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - MINIMUM OVERLAP IS ⁶ 6 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. DUST CONTROL | | | |
| ACTION TAKEN <u>NONE REQUIRED</u> | | | |
| 4. LOCATION (APPROXIMATE) | | | |
| <u>FIRST PEAK</u> | | | |
| 5. REMARKS | | | |
| <u>INSTALLED GEOTEXTILE IN FIRST PEAK IN AREA</u> | | | |
| <u>ACCEPTED BY J. FOX</u> | | | |
| <u>SF INSTALLED TODAY = 22,800 SF</u> | | | |
| <u>SF INSTALLED TO DATE = 114,000 SF</u> | | | |
|  NOV 17 1992 | | | |
| INSPECTOR <u>Chris Baly</u> | DATE <u>11-16-92</u> | | |
| REVIEWED BY <u>John R. Fox (Geosyntec)</u> | DATE <u>11-17-92</u> | | |

GEOSYNTHETIC DRAINAGE LINER

FORM A-9
SHEET 1 OF 1
INSPECTION DATE 11-17-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------|----------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | <input checked="" type="checkbox"/> | | |
| 2. VERIFICATION INSPECTION | | | |
| - TOP SURFACE OF THE VLDPE LINER IS FREE OF DEBRIS BEFORE THE DRAINAGE LINER INSTALLATION. | <input checked="" type="checkbox"/> | | |
| - DRAINAGE LAYER IS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S AND SPECIFICATION REQUIREMENTS. | <input checked="" type="checkbox"/> | | |
| - ADJACENT ROLLS ARE JOINED BY PLASTIC TIES SUPPLIED WITH THE LINER. | <input checked="" type="checkbox"/> | | |
| - MINIMUM OVERLAP IS 6 INCHES. | <input checked="" type="checkbox"/> | | |
| 3. DUST CONTROL | | | |
| ACTION TAKEN <u>None Required</u> | | | |
| 4. LOCATION (APPROXIMATE) | | | |
| <u>CELA N. of Clay Cover - North of PEAR 1</u> | | | |
| 5. REMARKS <u>AREA ACCEPTED FOR GEOSYNTHETIC INSTALLATION</u> | | | |
| <u>BY J. FOX OF GEOSYNTHETIC</u> | | | |
| SF INSTALLED TODAY = <u>29,640 SF</u> | | | |
| SF INSTALLED TO DATE = <u>143,640 SF</u> | | | |
|  NOV 18 1992 | | | |
| INSPECTOR <u>Chris Barty</u> | | | DATE <u>11-17-92</u> |
| REVIEWED BY <u>John H. Fry</u> | | | DATE <u>11-18-92</u> |

FORM A-9
SHEET 1 OF 1
INSPECTION DATE 11-7-92

ACCEPT REJECT N/A

- MANUFACTURER'S MILL CERTIFICATE OR
AFFIDAVIT HAS BEEN PROVIDED.

TOP SURFACE OF THE VLDPE LINER IS
FREE OF DEBRIS BEFORE THE DRAINAGE
LINER INSTALLATION.

- DRAINAGE LAYER IS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S AND SPECIFICATION REQUIREMENTS.

ADJACENT ROLLS ARE JOINED BY PLASTIC TIES SUPPLIED WITH THE LINER.

MINIMUM OVERLAP IS 6 INCHES.

ACTION TAKEN None Required

ON CELA - BETWEEN VALLEY No. 1 & PEAK No. 2

19 rolls of GEODAPPOSITE

JAN 11-18

SF INSTALLED TODAY = 19830 SF

SF INSTALLED TO DATE = 154,470 SF

NOV 19 1952
RECEIVED
F. F.

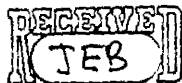
INSPECTOR

DATE 11-18-92

REVIEWED BY

DATE 11-19-92

NOV 23 1992



FORM A-9

SHEET 1 OF 1

INSPECTION DATE 11-22-92

GEOSYNTHETIC DRAINAGE LINER

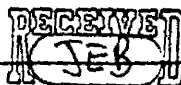
| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------|-----|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | <input checked="" type="checkbox"/> | | |
| 2. VERIFICATION INSPECTION | | | |
| - TOP SURFACE OF THE VLDPE LINER IS FREE OF DEBRIS BEFORE THE DRAINAGE LINER INSTALLATION. | <input checked="" type="checkbox"/> | | |
| - DRAINAGE LAYER IS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S AND SPECIFICATION REQUIREMENTS. | <input checked="" type="checkbox"/> | | |
| - ADJACENT ROLLS ARE JOINED BY PLASTIC TIES SUPPLIED WITH THE LINER. | <input checked="" type="checkbox"/> | | |
| - MINIMUM OVERLAP IS 6 INCHES. | <input checked="" type="checkbox"/> | | |
| 3. DUST CONTROL | | | |
| ACTION TAKEN | <u>None Required</u> | | |
| 4. LOCATION (APPROXIMATE) | | | |
| <u>WEST SIDE WORKING SOUTH</u> | | | |
| 5. REMARKS | | | |
| <u>None</u> | | | |
| SF INSTALLED TODAY = <u>16,530 SF</u> | | | |
| SF INSTALLED TO DATE = <u>171,000 SF</u> | | | |
| INSPECTOR <u>Chris Butcher</u> DATE <u>11-22-92</u> | | | |
| REVIEWED BY <u>Jonathan Brandes</u> DATE <u>11/24/92</u> | | | |

GEOSYNTHETIC DRAINAGE LINER

NOV 24 1992

FORM A-9

SHEET 1 OF 1
INSPECTION DATE 11/23/92



ACCEPT REJECT N/A

1. MATERIAL

MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.

✓

2. VERIFICATION INSPECTION

TOP SURFACE OF THE VLDPE LINER IS FREE OF DEBRIS BEFORE THE DRAINAGE LINER INSTALLATION.

✓

DRAINAGE LAYER IS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S AND SPECIFICATION REQUIREMENTS.

✓

ADJACENT ROLLS ARE JOINED BY PLASTIC TIES SUPPLIED WITH THE LINER.

✓

MINIMUM OVERLAP IS 6 INCHES.

✓

3. DUST CONTROL

ACTION TAKEN

NONE REQUIRED

4. LOCATION (APPROXIMATE)

SOUTH WORKING NORTH

5. REMARKS

75 ROLLS

SF INSTALLED TODAY = ~~42,750~~ 42,750 SF

SF INSTALLED TO DATE = 213,750 SF

INSPECTOR

Chris Bate

DATE 11-23-92

REVIEWED BY

Jonathan Brankes

DATE 11/24/92

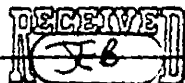
NOV 25 1992

FORM A-9

SHEET 1 OF 1

INSPECTION DATE 11-24-92

GEOSYNTHETIC DRAINAGE LINER



ACCEPT REJECT N/A

1. MATERIAL

- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.

✓

2. VERIFICATION INSPECTION

- TOP SURFACE OF THE VLDPE LINER IS FREE OF DEBRIS BEFORE THE DRAINAGE LINER INSTALLATION.

✓

- DRAINAGE LAYER IS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S AND SPECIFICATION REQUIREMENTS.

✓

- ADJACENT ROLLS ARE JOINED BY PLASTIC TIES SUPPLIED WITH THE LINER.

✓

- MINIMUM OVERLAP IS 6 INCHES.

✓

3. DUST CONTROL

ACTION TAKEN

NONE REQUIRED

4. LOCATION (APPROXIMATE)

SOUTH WORKING NORTH

5. REMARKS

None

SF INSTALLED TODAY =

27,640

SF INSTALLED TO DATE =

243,390

INSPECTOR

Chris Batty

DATE 11-24-92

REVIEWED BY

Jonathan Brandes

DATE 11/25/92

NOV 30 1992



FORM A-9

SHEET 1 OF 1

INSPECTION DATE 11/25/92

GEOSYNTHETIC DRAINAGE LINER

| | ACCEPT | REJECT | N/A |
|---|---|--------|---------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | ✓ | | |
| 2. VERIFICATION INSPECTION | | | |
| - TOP SURFACE OF THE VLDPE LINER IS FREE OF DEBRIS BEFORE THE DRAINAGE LINER INSTALLATION. | ✓ | | |
| - DRAINAGE LAYER IS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S AND SPECIFICATION REQUIREMENTS. | ✓ | | |
| - ADJACENT ROLLS ARE JOINED BY PLASTIC TIES SUPPLIED WITH THE LINER. | ✓ | | |
| - MINIMUM OVERLAP IS 6 INCHES. | ✓ | | |
| 3. DUST CONTROL | | | |
| ACTION TAKEN | None Required | | |
| 4. LOCATION (APPROXIMATE) | 3 rd PEAK - 3 PANELS PAST IT | | |
| 5. REMARKS | None | | |
| SF INSTALLED TODAY = 19,380 SF | | | |
| SF INSTALLED TO DATE = 262,770 SF | | | |
| INSPECTOR | Chris B. | | DATE 11/25/92 |
| REVIEWED BY | Jonathan Bravels | | DATE 11/30/92 |

GEOSYNTHETIC DRAINAGE LINER

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JEB

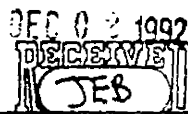
FORM A-9

SHEET 1 OF 1

INSPECTION DATE 11-30-92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. VERIFICATION INSPECTION | | | |
| - TOP SURFACE OF THE VLDPE LINER IS FREE OF DEBRIS BEFORE THE DRAINAGE LINER INSTALLATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - DRAINAGE LAYER IS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S AND SPECIFICATION REQUIREMENTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ADJACENT ROLLS ARE JOINED BY PLASTIC TIES SUPPLIED WITH THE LINER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - MINIMUM OVERLAP IS <u>6</u> INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. DUST CONTROL | | | |
| ACTION TAKEN <u>None Required</u> | | | |
| 4. LOCATION (APPROXIMATE) | | | |
| <u>South WICKENS NORTH</u> | | | |
| 5. REMARKS <u>None</u> | | | |
| <p>SF SF INSTALLED TODAY = <u>17,100 SF</u></p> <p>SF INSTALLED TO DATE = <u>279,870 SF</u></p> | | | |
| INSPECTOR <u>Chris B...</u> | | DATE <u>11-30-92</u> | |
| REVIEWED BY <u>Jonathan Br...</u> | | DATE <u>12/1/92</u> | |

GEOSYNTHETIC DRAINAGE LINER



FORM A-9
SHEET 1 OF 1
INSPECTION DATE 12/1/92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. VERIFICATION INSPECTION | | | |
| - TOP SURFACE OF THE VLDPE LINER IS FREE OF DEBRIS BEFORE THE DRAINAGE LINER INSTALLATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - DRAINAGE LAYER IS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S AND SPECIFICATION REQUIREMENTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ADJACENT ROLLS ARE JOINED BY PLASTIC TIES SUPPLIED WITH THE LINER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - MINIMUM OVERLAP IS 6 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. DUST CONTROL | | | |
| ACTION TAKEN <u>NONE REQUIRED</u> | | | |

4. LOCATION (APPROXIMATE)

SOUTH WICKENB NORTH

5. REMARKS REMOVED PLACED GEOSYNTHETIC LAYERS FROM
VALLEY No. 3 IN AREAS APPROVED/ACCREDITED BY GEOSYNTEC'S
1 BRANDS

J.C. SF INSTALLED TODAY = 30,780 SF

SF INSTALLED TO DATE = 310,650 SF

INSPECTOR

Chris Galt

DATE 12-1-92

REVIEWED BY

Jonathan Brandes

DATE 12/3/92

GEOSYNTHETIC DRAINAGE LINER

DEC 03 1992

RECEIVED

JEB

FORM A-9

SHEET 1 OF 1

INSPECTION DATE 12/2/92

| | ACCEPT | REJECT | N/A |
|---|--------|--------|-----|
| 1. MATERIAL | | | |
| MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | ✓ | | |
| 2. VERIFICATION INSPECTION | | | |
| - TOP SURFACE OF THE VLDPE LINER IS FREE OF DEBRIS BEFORE THE DRAINAGE LINER INSTALLATION. | ✓ | | |
| - DRAINAGE LAYER IS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S AND SPECIFICATION REQUIREMENTS. | ✓ | | |
| - ADJACENT ROLLS ARE JOINED BY PLASTIC TIES SUPPLIED WITH THE LINER. | ✓ | | |
| - MINIMUM OVERLAP IS 6 INCHES. | ✓ | | |
| 3. DUST CONTROL | | | |
| ACTION TAKEN <u>NONE REQUIRED</u> | | | |
| 4. LOCATION (APPROXIMATE) | | | |
| <u>NORTH SIDE OF PEAK #4</u> | | | |
| 5. REMARKS <u>NONE</u> | | | |
| SC SF INSTALLED TODAY = <u>36,480 SF</u> | | | |
| SF INSTALLED TO DATE = <u>347,130 SF</u> | | | |
| INSPECTOR <u>Christopher A. Burt</u> | | | |
| REVIEWED BY <u>Jonathan Brandes</u> | | | |
| DATE <u>12-2-92</u> | | | |
| DATE <u>12/3/92</u> | | | |

GEOSYNTHETIC DRAINAGE LINER

DEC 0 4 1992

FORM A-9

SHEET 1 OF 1

INSPECTION DATE

12/3/92



ACCEPT REJECT N/A

1. MATERIAL

- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.

✓

2. VERIFICATION INSPECTION

- TOP SURFACE OF THE VLDPE LINER IS FREE OF DEBRIS BEFORE THE DRAINAGE LINER INSTALLATION.

✓

- DRAINAGE LAYER IS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S AND SPECIFICATION REQUIREMENTS.

✓

- ADJACENT ROLLS ARE JOINED BY PLASTIC TIES SUPPLIED WITH THE LINER.

✓

- MINIMUM OVERLAP IS 6 INCHES.

✓

3. DUST CONTROL

ACTION TAKEN None Required

4. LOCATION (APPROXIMATE)

NORTH END

5. REMARKS

None

SC.

SF INSTALLED TODAY = 14,820 SF

SF INSTALLED TO DATE = 361,950 SF

INSPECTOR

Chris [Signature]

DATE 12-3-92

REVIEWED BY

Jonathan Brandes

DATE 12/4/92

GEOSYNTHETIC DRAINAGE LINER

DEC 07 1992



FORM A-9

SHEET 1 OF 12/4/92
INSPECTION DATE

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. VERIFICATION INSPECTION | | | |
| - TOP SURFACE OF THE VLDPE LINER IS FREE OF DEBRIS BEFORE THE DRAINAGE LINER INSTALLATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - DRAINAGE LAYER IS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S AND SPECIFICATION REQUIREMENTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ADJACENT ROLLS ARE JOINED BY PLASTIC TIES SUPPLIED WITH THE LINER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - MINIMUM OVERLAP IS 6 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. DUST CONTROL | | | |
| ACTION TAKEN <u>NONE REQUIRED</u> | | | |

4. LOCATION (APPROXIMATE)

NORTH END

5. REMARKS

~~REMOVED DRAINAGE~~ NONE

8C

SF INSTALLED TODAY = 10,260 SF

SF INSTALLED TO DATE = 372,210 SF

INSPECTOR

Chris Paul

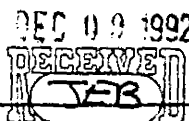
DATE 12-7-92

REVIEWED BY

Jonathan Branelos

DATE 12/7/92

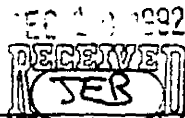
GEOSYNTHETIC DRAINAGE LINER



FORM A-9
SHEET 1 OF 1
INSPECTION DATE 12-8-92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. VERIFICATION INSPECTION | | | |
| - TOP SURFACE OF THE VLDPE LINER IS FREE OF DEBRIS BEFORE THE DRAINAGE LINER INSTALLATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - DRAINAGE LAYER IS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S AND SPECIFICATION REQUIREMENTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ADJACENT ROLLS ARE JOINED BY PLASTIC TIES SUPPLIED WITH THE LINER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - MINIMUM OVERLAP IS 6 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. DUST CONTROL | | | |
| ACTION TAKEN <u>NONE REQUIRED</u> | | | |
| 4. LOCATION (APPROXIMATE) | | | |
| <u>NORTH SLOPE</u> | | | |
| 5. REMARKS <u>None</u> | | | |
| <u>SF INSTALLED TODAY = 8550² (15 ROLLS)</u> | | | |
| <u>SF INSTALLED TO DATE = 380,760 SF</u> | | | |
| INSPECTOR <u>Chris Cook</u> | DATE <u>12-8-92</u> | | |
| REVIEWED BY <u>Jonathan Brando</u> | DATE <u>12/10/92</u> | | |

GEOSYNTHETIC DRAINAGE LINER



FORM A-9
SHEET 1 OF 1
INSPECTION DATE 12-9-92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. VERIFICATION INSPECTION | | | |
| - TOP SURFACE OF THE VLDPE LINER IS FREE OF DEBRIS BEFORE THE DRAINAGE LINER INSTALLATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - DRAINAGE LAYER IS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S AND SPECIFICATION REQUIREMENTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ADJACENT ROLLS ARE JOINED BY PLASTIC TIES SUPPLIED WITH THE LINER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - MINIMUM OVERLAP IS 6 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. DUST CONTROL | | | |
| ACTION TAKEN <u>NONE REQUIRED</u> | | | |
| 4. LOCATION (APPROXIMATE) | | | |
| <u>NORTH SLOPE</u> | | | |
| 5. REMARKS <u>NONE</u> | | | |
| <u>SF INSTALLED TODAY = 30,210² (53 ROLLS)</u> | | | |
| <u>SF INSTALLED TO DATE = 410,970 SF</u> | | | |
| INSPECTOR <u>Chris Galt</u> | | DATE <u>12-9-92</u> | |
| REVIEWED BY <u>Jonathan Brandes</u> | | DATE <u>12/10/92</u> | |

DEC 11 1992

FORM A-9

SHEET 1 OF 12/10/92
INSPECTION DATE

GEOSYNTHETIC DRAINAGE LINER



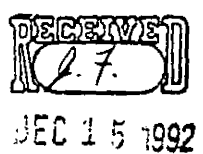
| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. VERIFICATION INSPECTION | | | |
| - TOP SURFACE OF THE VLDPE LINER IS FREE OF DEBRIS BEFORE THE DRAINAGE LINER INSTALLATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - DRAINAGE LAYER IS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S AND SPECIFICATION REQUIREMENTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ADJACENT ROLLS ARE JOINED BY PLASTIC TIES SUPPLIED WITH THE LINER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - MINIMUM OVERLAP IS 6 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. DUST CONTROL | | | |
| ACTION TAKEN <u>NONE REQUIRED</u> | | | |
| 4. LOCATION (APPROXIMATE) | | | |
| <u>WEST SIDE</u> | | | |
| 5. REMARKS <u>GEOCOMPOSITE INSTALLED OVER VLDPE APPROVED &</u> | | | |
| <u>ACCEPTED BY GEOSYNTEC</u> | | | |
| SC SF INSTALLED TODAY = <u>7,980 SF</u> | | | |
| SF INSTALLED TO DATE = <u>418,950 SF</u> | | | |
| INSPECTOR <u>Chris B...</u> | | | |
| REVIEWED BY <u>Jonathan Brandes</u> | | | |
| DATE <u>12-10-92</u> | | | |
| DATE <u>12/14/92</u> | | | |

GEOSYNTHETIC DRAINAGE LINER

FORM A-9

SHEET 1 OF 1

INSPECTION DATE 12-14-92

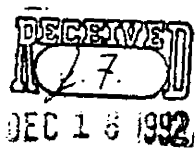
| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. VERIFICATION INSPECTION | | | |
| - TOP SURFACE OF THE VLDPE LINER IS FREE OF DEBRIS BEFORE THE DRAINAGE LINER INSTALLATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - DRAINAGE LAYER IS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S AND SPECIFICATION REQUIREMENTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ADJACENT ROLLS ARE JOINED BY PLASTIC TIES SUPPLIED WITH THE LINER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - MINIMUM OVERLAP IS 6 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. DUST CONTROL | | | |
| ACTION TAKEN <u>NONE REQUIRED</u> | | | |
| 4. LOCATION (APPROXIMATE) | | | |
| <u>Foothill Valley North - West Side</u> | | | |
| 5. REMARKS <u>SHAVELED SNOW OFF LINER & INSTALLED 12 ROLLS</u> | | | |
| <u>OF LEDCOMPOSITE ON LINER ACCEPTED BY GEOSYNTEC.</u> | | | |
| SF INSTALLED TODAY = <u>6840 SF</u> | | | |
| SF INSTALLED TO DATE = <u>425,790 SF</u> | | | |
|  | | | |
| INSPECTOR <u>Ch. B. [Signature]</u> | | DATE <u>12-14-92</u> | |
| REVIEWED BY _____ | | DATE _____ | |

GEOSYNTHETIC DRAINAGE LINER

FORM A-9

SHEET 1 OF 1

INSPECTION DATE 12-15-92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. VERIFICATION INSPECTION | | | |
| - TOP SURFACE OF THE VLDPE LINER IS FREE OF DEBRIS BEFORE THE DRAINAGE LINER INSTALLATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - DRAINAGE LAYER IS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S AND SPECIFICATION REQUIREMENTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ADJACENT ROLLS ARE JOINED BY PLASTIC TIES SUPPLIED WITH THE LINER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - MINIMUM OVERLAP IS 6 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. DUST CONTROL | | | |
| ACTION TAKEN <u>NONE REQUIRED</u> | | | |
| 4. LOCATION (APPROXIMATE) | | | |
| <u>WEST SIDE OF SITE, NORTH OF 3RD VALLEY</u> | | | |
| 5. REMARKS <u>INSTALL INSTALLED GEOSYNTHETIC ON SLOPE AFTER SHOVELING SNOW & RECEIVING APPROVAL FROM GEOSYNTEC</u> | | | |
| <u>SF INSTALLED TODAY = 14820 SF</u> | | | |
| <u>SF INSTALLED TO DATE = 440,610 SF</u> | | | |
|  | | | |
| INSPECTOR <u>Chris B. [Signature]</u> | DATE <u>12-15-92</u> | | |
| REVIEWED BY <u>John L. Fox</u> | DATE <u>12-16-92</u> | | |

GEOSYNTHETIC DRAINAGE LINER

FORM A-9

SHEET 1 OF 1

INSPECTION DATE 12-16-92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. VERIFICATION INSPECTION | | | |
| - TOP SURFACE OF THE VLDPE LINER IS FREE OF DEBRIS BEFORE THE DRAINAGE LINER INSTALLATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - DRAINAGE LAYER IS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S AND SPECIFICATION REQUIREMENTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ADJACENT ROLLS ARE JOINED BY PLASTIC TIES SUPPLIED WITH THE LINER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - MINIMUM OVERLAP IS 6 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. DUST CONTROL | | | |
| ACTION TAKEN <u>NONE REQUIRED</u> | | | |

4. LOCATION (APPROXIMATE)

WEST SIDE OF SITE, 13 PANEL UNITS BEYOND PEAK NO. 4.

5. REMARKS INSTALLED GEOSYNTHETIC ON VLDPE AFTER SNOW

REMOVED & APPROVAL RECEIVED FROM GEOSYNTHETIC.

SF INSTALLED TODAY = 24,510 SF

SF INSTALLED TO DATE = 465,120 SF

DEC 17 1992

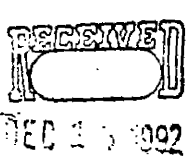



INSPECTOR [Signature] DATE 12-16-92

REVIEWED BY John R. Fox DATE 12-17-92

GEOSYNTHETIC DRAINAGE LINER

FORM A-9
SHEET 1 OF 1
INSPECTION DATE 12/17/92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. VERIFICATION INSPECTION | | | |
| - TOP SURFACE OF THE VLDPE LINER IS FREE OF DEBRIS BEFORE THE DRAINAGE LINER INSTALLATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - DRAINAGE LAYER IS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S AND SPECIFICATION REQUIREMENTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ADJACENT ROLLS ARE JOINED BY PLASTIC TIES SUPPLIED WITH THE LINER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - MINIMUM OVERLAP IS 6 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. DUST CONTROL | | | |
| ACTION TAKEN <u>N/A</u> | | | |
| 4. LOCATION (APPROXIMATE) | | | |
| <u>NW CORNER</u> | | | |
| 5. REMARKS <u>NOV REMOVED & ACCEPTED AREA</u> | | | |
| <u>By GEO. SYNTEC.</u> | | | |
| 8C SF INSTALLED TODAY = XXXXXX <u>23,370 SF</u> | | | |
| SF INSTALLED TO DATE = <u>488,490 SF</u> | | | |
|   | | | |
| INSPECTOR <u>Chris B...</u> | | DATE <u>12-17-92</u> | |
| REVIEWED BY <u>John R. Fox</u> | | DATE <u>12-18-92</u> | |

GEOSYNTHETIC DRAINAGE LINER



FORM A-9

SHEET 1 OF 1
INSPECTION DATE 12-18-92

| | ACCEPT | REJECT | N/A |
|---|--------|--------|-----|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | ✓ | | |
| 2. VERIFICATION INSPECTION | | | |
| - TOP SURFACE OF THE VLDPE LINER IS FREE OF DEBRIS BEFORE THE DRAINAGE LINER INSTALLATION. | ✓ | | |
| - DRAINAGE LAYER IS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S AND SPECIFICATION REQUIREMENTS. | ✓ | | |
| - ADJACENT ROLLS ARE JOINED BY PLASTIC TIES SUPPLIED WITH THE LINER. | ✓ | | |
| - MINIMUM OVERLAP IS 6 INCHES. | ✓ | | |
| 3. DUST CONTROL | | | |
| ACTION TAKEN <u>None Required</u> | | | |
| 4. LOCATION (APPROXIMATE) | | | |
| <u>Northwest corner of the site</u> | | | |
| 5. REMARKS | | | |
| <u>COMPLETED SNOW REMOVAL AND ALSO</u> | | | |
| <u>COMPLETED DEPLOYMENT OF GEOTEXTILE WITHIN THE</u> | | | |
| <u>BOUNDARY OF THE CHANNEL - VLDPE ACCEPTED BY GEOSYNTEC</u> | | | |
| SF INSTALLED TODAY = <u>26,790 SF</u> | | | |
| SF INSTALLED TO DATE = <u>515,280 SF</u> | | | |

INSPECTOR

Chris B...

DATE 12-18-92

REVIEWED BY

Jonathan Brandes

DATE 12/19/92

DEC 11 1992

GEOSYNTHETIC DRAINAGE LINER



FORM A-9

SHEET 1 OF 1
INSPECTION DATE 12-19-92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. VERIFICATION INSPECTION | | | |
| - TOP SURFACE OF THE SLOPE LINER IS FREE OF DEBRIS BEFORE THE DRAINAGE LINER INSTALLATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - DRAINAGE LAYER IS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S AND SPECIFICATION REQUIREMENTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ADJACENT ROLLS ARE JOINED BY PLASTIC TIES SUPPLIED WITH THE LINER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - MINIMUM OVERLAP IS 6 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. DUST CONTROL | | | |
| ACTION TAKEN <u>N/A</u> | | | |
| 4. LOCATION (APPROXIMATE) | | | |
| <u>NORTH SLOPE</u> | | | |
| 5. REMARKS <u>COMPLETED LAST OF STITCHING OF GEOTEXTILE</u> | | | |
| <u>PLACED PREVIOUSLY - ALL GEOTEXTILE REMOVED ACCEPTED</u> | | | |
| <u>BY GEOSYNTEL</u> | | | |
| SF INSTALLED TODAY = <u>0</u> | | | |
| SF INSTALLED TO DATE = <u>515,280 SF</u> | | | |
| INSPECTOR <u>Chris [Signature]</u> | | | DATE <u>12-19-92</u> |
| REVIEWED BY <u>Jonathan Sanders</u> | | | DATE <u>12-22-92</u> |

GEOSYNTHETIC DRAINAGE LINER



FORM A-9
SHEET 1 OF 1
INSPECTION DATE 12/21/92

1. MATERIAL

- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.

ACCEPT REJECT N/A

✓

2. VERIFICATION INSPECTION

- TOP SURFACE OF THE VLDPE LINER IS FREE OF DEBRIS BEFORE THE DRAINAGE LINER INSTALLATION.
- DRAINAGE LAYER IS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S AND SPECIFICATION REQUIREMENTS.
- ADJACENT ROLLS ARE JOINED BY PLASTIC TIES SUPPLIED WITH THE LINER.
- MINIMUM OVERLAP IS 6 INCHES.

✓

✓

✓

3. DUST CONTROL

ACTION TAKEN NONE REQUIRED

4. LOCATION (APPROXIMATE)

NORTH END - NORTHEAST CORNER

5. REMARKS

PLACED GEOTEXTILE OVER SLOPE
ACCEPTED BY GEOSYNTEL

80

SF INSTALLED TODAY = 2,850 SF

SF INSTALLED TO DATE = 518,130 SF

INSPECTOR

Christopher A. Burt

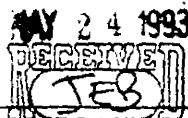
DATE 12-21-92

REVIEWED BY

Jonathan Brando

DATE 12-22-92

GEOSYNTHETIC DRAINAGE LINER



FORM A-9
SHEET 1 OF 1
INSPECTION DATE 5-21-93

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. VERIFICATION INSPECTION | | | |
| - TOP SURFACE OF THE VLDPE LINER IS FREE OF DEBRIS BEFORE THE DRAINAGE LINER INSTALLATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - DRAINAGE LAYER IS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S AND SPECIFICATION REQUIREMENTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ADJACENT ROLLS ARE JOINED BY PLASTIC TIES SUPPLIED WITH THE LINER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - MINIMUM OVERLAP IS <u>6</u> INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. DUST CONTROL | | | |
| ACTION TAKEN _____ | | | |
| 4. LOCATION (APPROXIMATE) | | | |
| <u>N. Channel</u> | | | |
| 5. REMARKS | | | |
| _____ | | | |
| _____ | | | |
| SF INSTALLED TODAY = <u>6,600²</u> | | | |
| SF INSTALLED TO DATE = <u>525,330²</u> | | | |
| INSPECTOR <u>James A. Martin</u> | | | |
| REVIEWED BY <u>Jonathan Brandes</u> | | | |
| DATE <u>5-24-93</u> | | | |
| DATE <u>5/25/93</u> | | | |

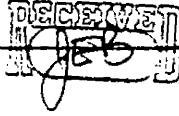
GEOSYNTHETIC DRAINAGE LINER

JUN 02 1993

FORM A-9

SHEET _____ OF _____

INSPECTION DATE 5-27-93



1. MATERIAL

- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.

ACCEPT REJECT N/A

✓ _____

2. VERIFICATION INSPECTION

- TOP SURFACE OF THE VLDPE LINER IS FREE OF DEBRIS BEFORE THE DRAINAGE LINER INSTALLATION.
- DRAINAGE LAYER IS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S AND SPECIFICATION REQUIREMENTS.
- ADJACENT ROLLS ARE JOINED BY PLASTIC TIES SUPPLIED WITH THE LINER.
- MINIMUM OVERLAP IS 6 INCHES.

✓ _____

✓ _____

✓ _____

✓ _____

3. DUST CONTROL

ACTION TAKEN _____

4. LOCATION (APPROXIMATE)

5. REMARKS

SF INSTALLED TODAY = 10,000²

SF INSTALLED TO DATE = 526,730²

INSPECTOR

J. G. Martin

DATE 6-1-93

REVIEWED BY

Jonathan Brandoles

DATE 6/2/93

PLACEMENT OF COMMON FILL



FORM A-10

SHEET 1 OF 1

INSPECTION DATE 7-20-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--|-------------------------------------|
| 1. MATERIAL | | | |
| - COMMON FILL SOIL OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FREE FROM SOD, BRUSH, ROOTS OR OTHER PERISHABLE MATERIALS, ROCKS LARGER THAN 3 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> (MAY 2 > 3" PICKED OUT) | <input type="checkbox"/> |
| - CLAYMAX, VLDPE LINER, GAS VENTING LAYER AND PIPES AND GEOSYNTHETIC DRAINAGE LINER IS ACCEPTED BY THE CONSTRUCTION MGR. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT ($\pm 3\%$ OF OPTIMUM) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION, THICKNESS AND ELEVATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 DENSITY TEST FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 90% OF MAXIMUM DRY DENSITY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - 1 MOISTURE CONTENT TEST ($\pm 3\%$ OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4. DUST CONTROL | | | |
| ACTION TAKEN <u>NONE REQUIRED</u> | | | |
| 5. LOCATION (APPROXIMATE) <u>PLACED TO BRING UP TRAFFIC CAP</u> | | | |
| <u>SUBGRADE IN AREA OF STA 7+00 - 12+00</u> | | | |
| 6. REMARKS | | | |
| INSPECTOR <u>Chris B. Fredericks, Jr. Monitor</u> DATE <u>8-14-92</u> | | | |
| REVIEWED BY <u>William P. Seaton</u> DATE <u>8-15-92</u> | | | |

AUG 1 1992



PLACEMENT OF COMMON FILL

FORM A-10

SHEET 1 OF 1INSPECTION DATE 7-22-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - COMMON FILL SOIL OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FREE FROM SOD, BRUSH, ROOTS OR OTHER PERISHABLE MATERIALS, ROCKS LARGER THAN 3 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - CLAYMAX, VLDPE LINER, GAS VENTING LAYER AND PIPES AND GEOSYNTHETIC DRAINAGE LINER IS ACCEPTED BY THE CONSTRUCTION MGR. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT ($\pm 3\%$ OF OPTIMUM) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION, THICKNESS AND ELEVATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 DENSITY TEST FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 90% OF MAXIMUM DRY DENSITY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - 1 MOISTURE CONTENT TEST ($\pm 3\%$ OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4. DUST CONTROL | | | |
| ACTION TAKEN <u>NONE REQUIRED</u> | | | |
| 5. LOCATION (APPROXIMATE) <u>PLACED TO BRING UP TRAFFIC</u> | | | |
| <u>CAR SUPERGRADE IN AREA OF 7+00 - 12+00.</u> | | | |
| 6. REMARKS | | | |
| INSPECTOR <u>Chris Bailey / Frederick J. Muehle</u> DATE <u>8-14-92</u> | | | |
| REVIEWED BY <u>Colin R. Larson</u> DATE <u>8-15-92</u> | | | |

PLACEMENT OF COMMON FILL

SEP 1992

RECEIVED
JES

FORM A-10

SHEET 2 OF 2

INSPECTION DATE 7-20-92

| | ACCEPT | REJECT | N/A |
|--|---------------|--------|-----|
| 1. MATERIAL | | | |
| - COMMON FILL SOIL OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | ✓ | | |
| - FREE FROM SOD, BRUSH, ROOTS OR OTHER PERISHABLE MATERIALS, ROCKS LARGER THAN 3 INCHES. | ✓ | | |
| - CLAYMAX, VLDPE LINER, GAS VENTING LAYER AND PIPES AND GEOSYNTHETIC DRAINAGE LINER IS ACCEPTED BY THE CONSTRUCTION MGR. | | | ✓ |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES | ✓ | | |
| - INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT ($\pm 3\%$ OF OPTIMUM) | | | ✓ |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION, THICKNESS AND ELEVATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. | ✓ | | |
| 3. VERIFICATION TESTING | | | |
| - 1 DENSITY TEST FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 90% OF MAXIMUM DRY DENSITY). | ✓ | | |
| - 1 MOISTURE CONTENT TEST ($\pm 3\%$ OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | | | ✓ |
| 4. DUST CONTROL | | | |
| ACTION TAKEN | NONE REQUIRED | | |
| 5. LOCATION (APPROXIMATE) | | | |
| STA. 7+00: $\rho = 129.1 \text{ PCF} = 95.7\%$ | | | |
| STA. 9+00: $\rho = 131.5 \text{ PCF} = 97.5\%$ | | | |
| 6. REMARKS | | | |
| TESTING DEPTH = 8", PROCTOR = 134.9 PCF | | | |
| INSPECTOR | | DATE | |
| Chris Bailey | | 7-3-92 | |
| REVIEWED BY | | DATE | |
| Jonathan E. Brandes | | 7/4/92 | |

PLACEMENT OF COMMON FILL

EP 1992

RECEIVED
JEB

FORM A-10
SHEET 2 OF 2
INSPECTION DATE 7-22-92

1. MATERIAL

- COMMON FILL SOIL OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.
- FREE FROM SOD, BRUSH, ROOTS OR OTHER PERISHABLE MATERIALS, ROCKS LARGER THAN 3 INCHES.
- CLAYMAX, VLDPE LINER, GAS VENTING LAYER AND PIPES AND GEOSYNTHETIC DRAINAGE LINER IS ACCEPTED BY THE CONSTRUCTION MGR.

ACCEPT REJECT N/A

2. PLACEMENT

- MAXIMUM LOOSE LIFT OF 12 INCHES
- INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT ($\pm 3\%$ OF OPTIMUM)
- SURVEYOR VERIFY SLOPES, CONFIGURATION, THICKNESS AND ELEVATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

3. VERIFICATION TESTING

- 1 DENSITY TEST FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 90% OF MAXIMUM DRY DENSITY).
- 1 MOISTURE CONTENT TEST ($\pm 3\%$ OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS.

4. DUST CONTROL

ACTION TAKEN None REQUIRED

5. LOCATION (APPROXIMATE) STA. 11+00: $\rho = 131.0 PCF = 97.2\%$

STA. 12+50: $\rho = 129.2 PCF = 95.8\%$

6. REMARKS TESTING DEPTH = 8", PUNCTURE = 134.9 PCF

INSPECTOR

Chris Bailey

DATE 9-3-92

REVIEWED BY

Jonathan E. Brando

DATE 9/4/92

SEP 18 1992

FORM A-10

SHEET 1 OF 1

INSPECTION DATE 9-4-92

PLACEMENT OF COMMON FILL



ACCEPT REJECT N/A

1. MATERIAL

- COMMON FILL SOIL OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.
- FREE FROM SOD, BRUSH, ROOTS OR OTHER PERISHABLE MATERIALS, ROCKS LARGER THAN 3 INCHES.
- CLAYMAX, VLDPE LINER, GAS VENTING LAYER AND PIPES AND GEOSYNTHETIC DRAINAGE LINER IS ACCEPTED BY THE CONSTRUCTION MGR.

| ACCEPT | REJECT | N/A |
|--------|--------|-----|
| ✓ | | |
| ✓ | | |
| | | ✓ |

2. PLACEMENT

- MAXIMUM LOOSE LIFT OF 12 INCHES
- INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT ($\pm 3\%$ OF OPTIMUM)
- SURVEYOR VERIFY SLOPES, CONFIGURATION, THICKNESS AND ELEVATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

| ACCEPT | REJECT | N/A |
|--------|--------|-----|
| ✓ | | |
| | | ✓ |
| ✓ | | |

VERIFICATION TESTING

- 1 DENSITY TEST FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 90% OF MAXIMUM DRY DENSITY).
- 1 MOISTURE CONTENT TEST ($\pm 3\%$ OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS.

| ACCEPT | REJECT | N/A |
|--------|--------|------------------------|
| | | WILL CHECK DENSITY 9/8 |
| | | ✓ |

4. DUST CONTROL

ACTION TAKEN NONE REQUIRED5. LOCATION (APPROXIMATE) CHANNEL SURGRADE IN SOUTHWEST CORNERAPPROXIMATELY STA. 20+00-18+50.

6. REMARKS

INSPECTOR

Chris BataDATE 9-4-92

REVIEWED BY

Jonathan E. BondsDATE 9/8/92

PLACEMENT OF COMMON FILL

SEP 10 1992

FORM A-10
SHEET 1 OF 1
INSPECTION DATE 9-8-92



1. MATERIAL

- COMMON FILL SOIL OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.
- FREE FROM SOD, BRUSH, ROOTS OR OTHER PERISHABLE MATERIALS, ROCKS LARGER THAN 3 INCHES.
- CLAYMAX, VLDPE LINER, GAS VENTING LAYER AND PIPES AND GEOSYNTHETIC DRAINAGE LINER IS ACCEPTED BY THE CONSTRUCTION MGR.

ACCEPT REJECT N/A

2. PLACEMENT

- MAXIMUM LOOSE LIFT OF 12 INCHES
- INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT ($\pm 3\%$ OF OPTIMUM)
- SURVEYOR VERIFY SLOPES, CONFIGURATION, THICKNESS AND ELEVATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

VERIFICATION TESTING

- 1 DENSITY TEST FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 90% OF MAXIMUM DRY DENSITY).
- 1 MOISTURE CONTENT TEST ($\pm 3\%$ OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS.

4. DUST CONTROL

ACTION TAKEN AS NEEDED

5. LOCATION (APPROXIMATE) CHANNEL SUBGRADE IN SOUTHWEST CORNER

APPROX. STA. 20+00 - 18+50

6. REMARKS PERFORMED TEST 1 @ STA. 19+00: D = 129.6 PCF = 96.1%

PERFORMED TEST 2 @ STA. 18+40: D = 121.0 PCF = 90.1%

INSPECTOR

Chris Galt

DATE 9-8-92

REVIEWED BY

Jonathan Brant's

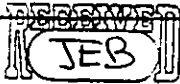
DATE 9/10/92

PLACEMENT OF COMMON FILL

EP 10 332

FORM A-10

SHEET 1 OF 1
INSPECTION DATE 9-9-92



1. MATERIAL

- COMMON FILL SOIL OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.
- FREE FROM SOD, BRUSH, ROOTS OR OTHER PERISHABLE MATERIALS, ROCKS LARGER THAN 3 INCHES.
- CLAYMAX, VLDPE LINER, GAS VENTING LAYER AND PIPES AND GEOSYNTHETIC DRAINAGE LINER IS ACCEPTED BY THE CONSTRUCTION MGR.

ACCEPT REJECT N/A

2. PLACEMENT

- MAXIMUM LOOSE LIFT OF 12 INCHES
- INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT ($\pm 3\%$ OF OPTIMUM)
- SURVEYOR VERIFY SLOPES, CONFIGURATION, THICKNESS AND ELEVATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

VERIFICATION TESTING

- 1 DENSITY TEST FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 90% OF MAXIMUM DRY DENSITY).
- 1 MOISTURE CONTENT TEST ($\pm 3\%$ OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS.

TO BE TESTED 9-10 OR 9-11

4. DUST CONTROL

ACTION TAKEN AS NEEDED

5. LOCATION (APPROXIMATE) CHANNEL SUBGRADE IN SOUTH & SOUTHEAST CORNER OF SITE

6. REMARKS NONE

INSPECTOR

Chris Burt

DATE

REVIEWED BY

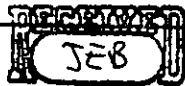
Jonathan Branks

DATE

9/10/92

PLACEMENT OF COMMON FILL

FORM A-10
SHEET 1 OF 1
INSPECTION DATE 9-10-92



1. MATERIAL

- COMMON FILL SOIL OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.
- FREE FROM SOD, BRUSH, ROOTS OR OTHER PERISHABLE MATERIALS, ROCKS LARGER THAN 3 INCHES.
- CLAYMAX, VLDPE LINER, GAS VENTING LAYER AND PIPES AND GEOSYNTHETIC DRAINAGE LINER IS ACCEPTED BY THE CONSTRUCTION MGR.

ACCEPT REJECT N/A

2. PLACEMENT

- MAXIMUM LOOSE LIFT OF 12 INCHES
- INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT ($\pm 3\%$ OF OPTIMUM)
- SURVEYOR VERIFY SLOPES, CONFIGURATION, THICKNESS AND ELEVATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

VERIFICATION TESTING

- 1 DENSITY TEST FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 90% OF MAXIMUM DRY DENSITY).
- 1 MOISTURE CONTENT TEST ($\pm 3\%$ OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS.

4. DUST CONTROL

ACTION TAKEN NONE

5. LOCATION (APPROXIMATE) FILL PLACED OUTSIDE OF SLURRY WALL.
FOR DRAINAGE CHANNEL.

6. REMARKS DENSITY TESTS TAKEN AT 4 STATIONS, TESTS TAKEN AT
DEPTH OF 6" - STA 18+00 (96.9%), 16+95 (98.3%), 15+00 (93.9%), 13+00 (94.9%)

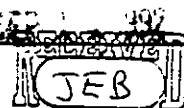
INSPECTOR Frederick J. Washburn DATE 9-10-92

REVIEWED BY Jonathan Brandes DATE 9/11/92

PLACEMENT OF COMMON FILL

FORM A-10

SHEET 1 OF 1
INSPECTION DATE 9-11-92



1. MATERIAL

- COMMON FILL SOIL OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.
- FREE FROM SOD, BRUSH, ROOTS OR OTHER PERISHABLE MATERIALS, ROCKS LARGER THAN 3 INCHES.
- CLAYMAX, VLDPE LINER, GAS VENTING LAYER AND PIPES AND GEOSYNTHETIC DRAINAGE LINER IS ACCEPTED BY THE CONSTRUCTION MGR.

ACCEPT REJECT N/A

2. PLACEMENT

- MAXIMUM LOOSE LIFT OF 12 INCHES
- INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT (\pm 3% OF OPTIMUM)
- SURVEYOR VERIFY SLOPES, CONFIGURATION, THICKNESS AND ELEVATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

VERIFICATION TESTING

- 1 DENSITY TEST FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 90% OF MAXIMUM DRY DENSITY).
- 1 MOISTURE CONTENT TEST (\pm 3% OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS.

4. DUST CONTROL

ACTION TAKEN NONE REQUIRED

5. LOCATION (APPROXIMATE) WEST SIDE ALONG CHANNEL

6. REMARKS 6 LOADS OF FILL USED TO DRESS UP WET AREAS

INSPECTOR

Chris Butcher

DATE 9-11-92

REVIEWED BY

Jonathan Brantley

DATE 9/14/92

PLACEMENT OF COMMON FILL

FORM A-10
SHEET 1 OF 1
INSPECTION DATE 11-11-92

1. MATERIAL

- COMMON FILL SOIL OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.
- FREE FROM SOD, BRUSH, ROOTS OR OTHER PERISHABLE MATERIALS, ROCKS LARGER THAN 3 INCHES.
- CLAYMAX, VLDPE LINER, GAS VENTING LAYER AND PIPES AND GEOSYNTHETIC DRAINAGE LINER IS ACCEPTED BY THE CONSTRUCTION MGR.

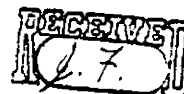
ACCEPT REJECT N/A

2. PLACEMENT

- MAXIMUM LOOSE LIFT OF 12 INCHES
- INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT ($\pm 3\%$ OF OPTIMUM)
- SURVEYOR VERIFY SLOPES, CONFIGURATION, THICKNESS AND ELEVATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

3. VERIFICATION TESTING

- 1 DENSITY TEST FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 90% OF MAXIMUM DRY DENSITY).
- 1 MOISTURE CONTENT TEST ($\pm 3\%$ OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS.



4. DUST CONTROL

ACTION TAKEN NONE REQUIRED

5. LOCATION (APPROXIMATE) SOUTHWEST CORNER OF SITE

6. REMARKS RECEIVED 17 LOADS OF COMMON FILL TO BUILD ROAD OVER CHANNEL AND BEGAN PLACING COMMON FILL IN CELA. J. BRANDERS OF GEOSYNTEC REJECTED ALL LOADS OF COMMON FILL AFTER 9:00 A.M. AND DELIVERY OF COMMON FILL WAS STOPPED.

INSPECTOR Chris Burt

DATE 11-11-92

REVIEWED BY John D. Fox (Geosyntec)

DATE 11-12-92

PLACEMENT OF COMMON FILL

FORM A-10
SHEET 1 OF 1
INSPECTION DATE 11-13-92

1. MATERIAL

- COMMON FILL SOIL OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.
- FREE FROM SOD, BRUSH, ROOTS OR OTHER PERISHABLE MATERIALS, ROCKS LARGER THAN 3 INCHES.
- CLAYMAX, VLDPE LINER, GAS VENTING LAYER AND PIPES AND GEOSYNTHETIC DRAINAGE LINER IS ACCEPTED BY THE CONSTRUCTION MGR.

ACCEPT REJECT N/A

2. PLACEMENT

- MAXIMUM LOOSE LIFT OF ¹⁸12 INCHES
- INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT ($\pm 3\%$ OF OPTIMUM)
- SURVEYOR VERIFY SLOPES, CONFIGURATION, THICKNESS AND ELEVATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

3. VERIFICATION TESTING

- 1 DENSITY TEST FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 90% OF MAXIMUM DRY DENSITY).
- 1 MOISTURE CONTENT TEST ($\pm 3\%$ OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS.



10/13/92

(AREA ~~FOR TESTING~~ TO BE TESTED TOMORROW)

4. DUST CONTROL

ACTION TAKEN NONE REQUIRED

5. LOCATION (APPROXIMATE) SOUTH SLOPE, SOUTH OF 20' NORTH
OF THE "I" GRID.

6. REMARKS IMPORTED FILL - 3 WAYNE COMMON FILL -

INSPECTOR Chris Burt

DATE 11-13-92

REVIEWED BY John L. Fox (Geotechnical)

DATE 11-14-92

PLACEMENT OF COMMON FILL

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - COMMON FILL SOIL OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FREE FROM SOD, BRUSH, ROOTS OR OTHER PERISHABLE MATERIALS, ROCKS LARGER THAN 3 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - CLAYMAX, VLDPE LINER, GAS VENTING LAYER AND PIPES AND GEOSYNTHETIC DRAINAGE LINER IS ACCEPTED BY THE CONSTRUCTION MGR. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT ($\pm 3\%$ OF OPTIMUM) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION, THICKNESS AND ELEVATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 DENSITY TEST FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 90% OF MAXIMUM DRY DENSITY). | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - 1 MOISTURE CONTENT TEST ($\pm 3\%$ OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4. DUST CONTROL | | | |
| ACTION TAKEN <u>None Required</u> | | | |
| 5. LOCATION (APPROXIMATE) <u>Southern Slope</u> | | | |
| 6. REMARKS <u>None</u> | | | |
| INSPECTOR <u>Chris Galt</u> | | DATE <u>11-14-92</u> | |
| REVIEWED BY <u>John D. Fox (Geosyntec)</u> | | DATE <u>11-16-92</u> | |



TO BE COMPLETED

PLACEMENT OF COMMON FILL

FORM A-10

SHEET 1 OF 1

INSPECTION DATE 11-15-92

1. MATERIAL

- COMMON FILL SOIL OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.
- FREE FROM SOD, BRUSH, ROOTS OR OTHER PERISHABLE MATERIALS, ROCKS LARGER THAN 3 INCHES.
- CLAYMAX, VLDPE LINER, GAS VENTING LAYER AND PIPES AND GEOSYNTHETIC DRAINAGE LINER IS ACCEPTED BY THE CONSTRUCTION MGR.

ACCEPT

REJECT

N/A

2. PLACEMENT

- MAXIMUM LOOSE LIFT OF 12 INCHES
- INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT ($\pm 3\%$ OF OPTIMUM)
- SURVEYOR VERIFY SLOPES, CONFIGURATION, THICKNESS AND ELEVATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

3. VERIFICATION TESTING

- 1 DENSITY TEST FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 90% OF MAXIMUM DRY DENSITY).
- 1 MOISTURE CONTENT TEST ($\pm 3\%$ OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS.



NOV 17 1992

TO BE TESTED

4. DUST CONTROL

ACTION TAKEN NONE REQUIRED

5. LOCATION (APPROXIMATE) SOUTHERN SLOPE

6. REMARKS IMPROVING & STOCKPILING COMMON FILL ON SOUTHERN SLOPE -

R.I.V. STOPPED THIS WORK AT 12:00 NOON.

INSPECTOR Chris B. G.

DATE 11-16-92

REVIEWED BY John R. Fox (Geosyntec)

DATE 11-16-92

PLACEMENT OF COMMON FILL

FORM A-10

SHEET 1 OF 1

INSPECTION DATE 11-16-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--|-------------------------------------|
| 1. MATERIAL | | | |
| - COMMON FILL SOIL OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FREE FROM SOD, BRUSH, ROOTS OR OTHER PERISHABLE MATERIALS, ROCKS LARGER THAN 3 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - CLAYMAX, VLDPE LINER, GAS VENTING LAYER AND PIPES AND GEOSYNTHETIC DRAINAGE LINER IS ACCEPTED BY THE CONSTRUCTION MGR. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT (\pm 3% OF OPTIMUM) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION, THICKNESS AND ELEVATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 DENSITY TEST FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 90% OF MAXIMUM DRY DENSITY). | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - 1 MOISTURE CONTENT TEST (\pm 3% OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | | <div style="border: 1px solid black; padding: 2px; display: inline-block;"> RECEIVED 11.7 NOV 17 1992 </div> | |
| 4. DUST CONTROL | | | |
| ACTION TAKEN <u>NONE REQUIRED</u> | | | |
| 5. LOCATION (APPROXIMATE) <u>AREA BETWEEN TELEPHONE POLE & FIRST PEARL</u> | | | |
| 6. REMARKS <u>None</u> | | | |

INSPECTOR

Chris Butt

DATE 11-16-92

REVIEWED BY

John H. Fox (Geolyntic)

DATE 11-19-92

PLACEMENT OF COMMON FILL

FORM A-10

SHEET 1 OF 1

INSPECTION DATE 11-17-92

1. MATERIAL

- COMMON FILL SOIL OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.
- FREE FROM SOD, BRUSH, ROOTS OR OTHER PERISHABLE MATERIALS, ROCKS LARGER THAN 3 INCHES.
- CLAYMAX, VLDPE LINER, GAS VENTING LAYER AND PIPES AND GEOSYNTHETIC DRAINAGE LINER IS ACCEPTED BY THE CONSTRUCTION MGR.

ACCEPT

REJECT

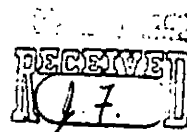
N/A

2. PLACEMENT

- MAXIMUM LOOSE LIFT OF 12 INCHES
- INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT ($\pm 3\%$ OF OPTIMUM)
- SURVEYOR VERIFY SLOPES, CONFIGURATION, THICKNESS AND ELEVATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

3. VERIFICATION TESTING

- 1 DENSITY TEST FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 90% OF MAXIMUM DRY DENSITY).
- 1 MOISTURE CONTENT TEST ($\pm 3\%$ OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS.



(IN PROGRESS - REMAIN)

4. DUST CONTROL

ACTION TAKEN NONE REQUIRED

5. LOCATION (APPROXIMATE) SOUTH SLOPE

6. REMARKS None

INSPECTOR Chris Batty

DATE 11-17-92

REVIEWED BY John H. Fox (Geosyntec)

DATE 11-18-92

PLACEMENT OF COMMON FILL

FORM A-10

SHEET 1 OF 1

INSPECTION DATE 11-18-92

1. MATERIAL

- COMMON FILL SOIL OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.
- FREE FROM SOD, BRUSH, ROOTS OR OTHER PERISHABLE MATERIALS, ROCKS LARGER THAN 3 INCHES.
- CLAYMAX, VLDPE LINER, GAS VENTING LAYER AND PIPES AND GEOSYNTHETIC DRAINAGE LINER IS ACCEPTED BY THE CONSTRUCTION MGR.

ACCEPT REJECT N/A

2. PLACEMENT

- MAXIMUM LOOSE LIFT OF 12 INCHES
- INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT ($\pm 3\%$ OF OPTIMUM)
- SURVEYOR VERIFY SLOPES, CONFIGURATION, THICKNESS AND ELEVATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

.. VERIFICATION TESTING

- 1 DENSITY TEST FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 90% OF MAXIMUM DRY DENSITY).
- 1 MOISTURE CONTENT TEST ($\pm 3\%$ OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS.

SEE ATTACHED



4. DUST CONTROL

ACTION TAKEN N/A

5. LOCATION (APPROXIMATE) N/A - NOTHING IMPORTED

6. REMARKS SEE ATTACHED SHEET FOR SAND CONE &

TRAXLER RESULTS

INSPECTOR Chris Bantz

DATE 11-18-92

REVIEWED BY John H. Fox (Harbort)

DATE 11-19-92

PLACEMENT OF COMMON FILL

FORM A-10
SHEET 1 OF 1
INSPECTION DATE 11-19-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - COMMON FILL SOIL OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FREE FROM SOD, BRUSH, ROOTS OR OTHER PERISHABLE MATERIALS, ROCKS LARGER THAN 3 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - CLAYMAX, VLDPE LINER, GAS VENTING LAYER AND PIPES AND GEOSYNTHETIC DRAINAGE LINER IS ACCEPTED BY THE CONSTRUCTION MGR. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT ($\pm 3\%$ OF OPTIMUM) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION, THICKNESS AND ELEVATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 DENSITY TEST FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 90% OF MAXIMUM DRY DENSITY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - 1 MOISTURE CONTENT TEST ($\pm 3\%$ OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4. DUST CONTROL | | | |
| ACTION TAKEN <u>NONE REQUIRED</u> | | | |
| 5. LOCATION (APPROXIMATE) <u>VALLEY No. 1</u> | | | |
| 6. REMARKS <u>PLACED & STOCK PILED COMMON FILL</u> | | | |

INSPECTOR Chris Bailey DATE 11-19-92
REVIEWED BY John R. Fay (Resubmitter) DATE 11-20-92

NOV 21 1992

FORM A-10

SHEET 1 OF 1
INSPECTION DATE 11-20-92

PLACEMENT OF COMMON FILL

JEB

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|-------------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - COMMON FILL SOIL OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FREE FROM SOD, BRUSH, ROOTS OR OTHER PERISHABLE MATERIALS, ROCKS LARGER THAN 3 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - CLAYMAX, VLDPE LINER, GAS VENTING LAYER AND PIPES AND GEOSYNTHETIC DRAINAGE LINER IS ACCEPTED BY THE CONSTRUCTION MGR. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT ($\pm 3\%$ OF OPTIMUM) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION, THICKNESS AND ELEVATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 DENSITY TEST FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 90% OF MAXIMUM DRY DENSITY). | <input checked="" type="checkbox"/> | <u>(SEE ATTACHED RESULTS)</u> | |
| - 1 MOISTURE CONTENT TEST ($\pm 3\%$ OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4. DUST CONTROL | | | |
| ACTION TAKEN <u>NONE REQUIRED</u> | | | |
| 5. LOCATION (APPROXIMATE) <u>STOCKPILING COMMON FILL ON 2ND PASS</u> <u>AT EDGE OF GEOCOMPOSITE</u> | | | |
| 6. REMARKS <u>NONE</u> | | | |
| INSPECTOR <u>Chong Bate</u> DATE <u>11-20-92</u> | | | |
| REVIEWED BY <u>Jonathan Brandes</u> DATE <u>11/21/92</u> | | | |

NOV 23 1992

FORM A-10

SHEET 1 OF 1
INSPECTION DATE 11-24-92

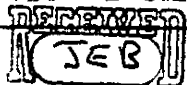
PLACEMENT OF COMMON FILL



| | ACCEPT | REJECT | N/A |
|--|---------------|----------|-----|
| 1. MATERIAL | | | |
| - COMMON FILL SOIL OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | ✓ | | |
| - FREE FROM SOD, BRUSH, ROOTS OR OTHER PERISHABLE MATERIALS, ROCKS LARGER THAN 3 INCHES. | ✓ | | |
| - CLAYMAX, VLDPE LINER, GAS VENTING LAYER AND PIPES AND GEOSYNTHETIC DRAINAGE LINER IS ACCEPTED BY THE CONSTRUCTION MGR. | ✓ | | |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES | | | ✓ |
| - INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT ($\pm 3\%$ OF OPTIMUM) | | | ✓ |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION, THICKNESS AND ELEVATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. | ✓ | | |
| 3. VERIFICATION TESTING | | | |
| - 1 DENSITY TEST FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 90% OF MAXIMUM DRY DENSITY). | ✓ | | |
| - 1 MOISTURE CONTENT TEST ($\pm 3\%$ OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | | | ✓ |
| 4. DUST CONTROL | | | |
| ACTION TAKEN | NONE REQUIRED | | |
| 5. LOCATION (APPROXIMATE) | | | |
| SPREAD COMMON FILL NORTHWARDS FROM STOCKPILE INTO AREA APPROVED BY GEOSYNTHETIC BETWEEN PEARLS 2 & 3. | | | |
| 6. REMARKS | | | |
| None | | | |
| INSPECTOR | | DATE | |
| Chris Bate | | 11-24-92 | |
| REVIEWED BY | | DATE | |
| Jonathan Brando | | 11/25/92 | |

PLACEMENT OF COMMON FILL

DEC 01 1992



FORM A-10

SHEET 1 OF 1

INSPECTION DATE 11-30-92

1. MATERIAL

- COMMON FILL SOIL OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.
- FREE FROM SOD, BRUSH, ROOTS OR OTHER PERISHABLE MATERIALS, ROCKS LARGER THAN 3 INCHES.
- CLAYMAX, VLDPE LINER, GAS VENTING LAYER AND PIPES AND GEOSYNTHETIC DRAINAGE LINER IS ACCEPTED BY THE CONSTRUCTION MGR.

ACCEPT REJECT N/A

✓
✓
✓

2. PLACEMENT

- MAXIMUM LOOSE LIFT OF 12 INCHES
- INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT ($\pm 3\%$ OF OPTIMUM)
- SURVEYOR VERIFY SLOPES, CONFIGURATION, THICKNESS AND ELEVATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

✓
✓
✓

3. VERIFICATION TESTING

- 1 DENSITY TEST FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 90% OF MAXIMUM DRY DENSITY).
- 1 MOISTURE CONTENT TEST ($\pm 3\%$ OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS.

✓
✓

4. DUST CONTROL

ACTION TAKEN None Required

5. LOCATION (APPROXIMATE) North of 2nd Ave

6. REMARKS None

INSPECTOR

Chris B...

DATE 11-30-92

REVIEWED BY

Jonathan Brancos

DATE 12/1/92

PLACEMENT OF COMMON FILL



FORM A-10

SHEET 1 OF 1

INSPECTION DATE 12-1-92

1. MATERIAL

- COMMON FILL SOIL OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.
- FREE FROM SOD, BRUSH, ROOTS OR OTHER PERISHABLE MATERIALS, ROCKS LARGER THAN 3 INCHES.
- CLAYMAX, VLDPE LINER, GAS VENTING LAYER AND PIPES AND GEOSYNTHETIC DRAINAGE LINER IS ACCEPTED BY THE CONSTRUCTION MGR.

ACCEPT REJECT N/A

2. PLACEMENT

- MAXIMUM LOOSE LIFT OF 12 INCHES
- INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT ($\pm 3\%$ OF OPTIMUM)
- SURVEYOR VERIFY SLOPES, CONFIGURATION, THICKNESS AND ELEVATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

3. VERIFICATION TESTING

- 1 DENSITY TEST FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 90% OF MAXIMUM DRY DENSITY).
- 1 MOISTURE CONTENT TEST ($\pm 3\%$ OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS.

4. DUST CONTROL

ACTION TAKEN NONE REQUIRED

5. LOCATION (APPROXIMATE) CONTINUED PUSHING ~~THE~~ COMMON FILL

NORTHWARD BEYOND PEAR #3

6. REMARKS RESULTS OF GRADATION ANALYSES # 5 - # 12 ARE

ATTACHED

INSPECTOR

Chris Batty

DATE 12-1-92

REVIEWED BY

Jonathan Braneles

DATE 12/2/92

DEC 8 1992

FORM A-10

SHEET 1 OF 1

INSPECTION DATE 12-2-92

PLACEMENT OF COMMON FILL



| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - COMMON FILL SOIL OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FREE FROM SOD, BRUSH, ROOTS OR OTHER PERISHABLE MATERIALS, ROCKS LARGER THAN 3 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - CLAYMAX, VLDPE LINER, GAS VENTING LAYER AND PIPES AND GEOSYNTHETIC DRAINAGE LINER IS ACCEPTED BY THE CONSTRUCTION MGR. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT ($\pm 3\%$ OF OPTIMUM) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION, THICKNESS AND ELEVATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 DENSITY TEST FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 90% OF MAXIMUM DRY DENSITY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - 1 MOISTURE CONTENT TEST ($\pm 3\%$ OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4. DUST CONTROL | | | |
| ACTION TAKEN | NONE REQUIRED | | |
| 5. LOCATION (APPROXIMATE) 4 TH PEAK, EAST SIDE OF SITE | | | |
| 6. REMARKS COMMON FILL IS 20' BEYOND 4 TH PEAK ON EAST 1/2 OF SITE - RESULTS OF COMMON FILL GRADATIONS 13-16 ARE ATTACHED. | | | |
| INSPECTOR | [Signature] | | DATE 12-2-92 |
| REVIEWED BY | Jonathan Brandoles | | DATE 12/3/92 |

PLACEMENT OF COMMON FILL



FORM A-10
SHEET 1 OF 1
INSPECTION DATE 12-3-92

1. MATERIAL

- COMMON FILL SOIL OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.
- FREE FROM SOD, BRUSH, ROOTS OR OTHER PERISHABLE MATERIALS, ROCKS LARGER THAN 3 INCHES.
- CLAYMAX, VLDPE LINER, GAS VENTING LAYER AND PIPES AND GEOSYNTHETIC DRAINAGE LINER IS ACCEPTED BY THE CONSTRUCTION MGR.

ACCEPT REJECT N/A

2. PLACEMENT

- MAXIMUM LOOSE LIFT OF 12 INCHES
- INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT ($\pm 3\%$ OF OPTIMUM)
- SURVEYOR VERIFY SLOPES, CONFIGURATION, THICKNESS AND ELEVATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

3. VERIFICATION TESTING

- 1 DENSITY TEST FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 90% OF MAXIMUM DRY DENSITY).
- 1 MOISTURE CONTENT TEST ($\pm 3\%$ OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS.

4. DUST CONTROL

ACTION TAKEN NONE REQUIRED

5. LOCATION (APPROXIMATE) ARTH PEAR & NORTHWARDS

6. REMARKS NONE

RESULTS OF COMMON FILL GRADATIONS 17-20 ARE ATTACHED

INSPECTOR Chris Gault DATE 12-3-92

REVIEWED BY Jonathan Brandes DATE 12/4/92

DEC 17 1992

FORM A-10

SHEET 1 OF 1
INSPECTION DATE 12-4-92

PLACEMENT OF COMMON FILL



ACCEPT REJECT N/A

1. MATERIAL

- COMMON FILL SOIL OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.
- FREE FROM SOD, BRUSH, ROOTS OR OTHER PERISHABLE MATERIALS, ROCKS LARGER THAN 3 INCHES.
- CLAYMAX, VLDPE LINER, GAS VENTING LAYER AND PIPES AND GEOSYNTHETIC DRAINAGE LINER IS ACCEPTED BY THE CONSTRUCTION MGR.

| | | |
|---|--|--|
| ✓ | | |
| ✓ | | |
| ✓ | | |

2. PLACEMENT

- MAXIMUM LOOSE LIFT OF 12 INCHES
- INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT ($\pm 3\%$ OF OPTIMUM)
- SURVEYOR VERIFY SLOPES, CONFIGURATION, THICKNESS AND ELEVATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

| | | |
|---|--|---|
| | | ✓ |
| | | ✓ |
| ✓ | | |

3. VERIFICATION TESTING

- 1 DENSITY TEST FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 90% OF MAXIMUM DRY DENSITY).
- 1 MOISTURE CONTENT TEST ($\pm 3\%$ OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS.

| | | |
|---|--|---|
| ✓ | | |
| | | ✓ |

4. DUST CONTROL

ACTION TAKEN NONE REQUIRED5. LOCATION (APPROXIMATE) COMMON FILL SOIL BANK PLACED AT NORTH
4th FEAR6. REMARKS RESULTS OF TROXLER TESTS # 9-24 ARE ATTACHED,
AS WELL AS SAND CONE TESTS 5 & 6.INSPECTOR Chris Darty DATE 12-4-92REVIEWED BY Jonathan Brandoles DATE 12/7/92

DEC 4, 1992

FORM A-10

SHEET 1 OF 1
INSPECTION DATE 12-7-92

PLACEMENT OF COMMON FILL



ACCEPT REJECT N/A

1. MATERIAL

- COMMON FILL SOIL OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.
- FREE FROM SOD, BRUSH, ROOTS OR OTHER PERISHABLE MATERIALS, ROCKS LARGER THAN 3 INCHES.
- CLAYMAX, VLDPE LINER, GAS VENTING LAYER AND PIPES AND GEOSYNTHETIC DRAINAGE LINER IS ACCEPTED BY THE CONSTRUCTION MGR.

| | | |
|---|--|--|
| ✓ | | |
| ✓ | | |
| ✓ | | |

2. PLACEMENT

- MAXIMUM LOOSE LIFT OF 12 INCHES
- INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT ($\pm 3\%$ OF OPTIMUM)
- SURVEYOR VERIFY SLOPES, CONFIGURATION, THICKNESS AND ELEVATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

| | | |
|---|--|---|
| | | ✓ |
| | | ✓ |
| ✓ | | |

3. VERIFICATION TESTING

- 1 DENSITY TEST FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 90% OF MAXIMUM DRY DENSITY).
- 1 MOISTURE CONTENT TEST ($\pm 3\%$ OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS.

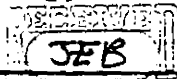
| | | |
|---|--|---|
| ✓ | | |
| | | ✓ |

4. DUST CONTROL

ACTION TAKEN NONE REQUIRED5. LOCATION (APPROXIMATE) NORTH SLOPE - EAST SIDE6. REMARKS ~~None~~ NoneINSPECTOR *[Signature]*DATE 12-7-92REVIEWED BY *[Signature]*DATE 12/8/92

PLACEMENT OF COMMON FILL

REC 00 992



FORM A-10

SHEET 1 OF 1

INSPECTION DATE 12-8-92

1. MATERIAL

- COMMON FILL SOIL OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.
- FREE FROM SOD, BRUSH, ROOTS OR OTHER PERISHABLE MATERIALS, ROCKS LARGER THAN 3 INCHES.
- CLAYMAX, VLDPE LINER, GAS VENTING LAYER AND PIPES AND GEOSYNTHETIC DRAINAGE LINER IS ACCEPTED BY THE CONSTRUCTION MGR.

ACCEPT

REJECT

N/A

2. PLACEMENT

- MAXIMUM LOOSE LIFT OF 12 INCHES
- INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT ($\pm 3\%$ OF OPTIMUM)
- SURVEYOR VERIFY SLOPES, CONFIGURATION, THICKNESS AND ELEVATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

3. VERIFICATION TESTING

- 1 DENSITY TEST FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 90% OF MAXIMUM DRY DENSITY).
- 1 MOISTURE CONTENT TEST ($\pm 3\%$ OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS.

4. DUST CONTROL

ACTION TAKEN NONE REQUIRED

5. LOCATION (APPROXIMATE) NORTH of 4th Ave

6. REMARKS None

INSPECTOR Chris Bates

DATE 12-8-92

REVIEWED BY Jonathan Bonar

DATE 12/10/92

DEC 10 1992

FORM A-10

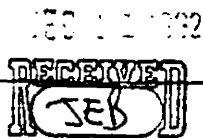
SHEET 1 OF 1INSPECTION DATE 12-9-92

PLACEMENT OF COMMON FILL



| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - COMMON FILL SOIL OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FREE FROM SOD, BRUSH, ROOTS OR OTHER PERISHABLE MATERIALS, ROCKS LARGER THAN 3 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - CLAYMAX, VLDPE LINER, GAS VENTING LAYER AND PIPES AND GEOSYNTHETIC DRAINAGE LINER IS ACCEPTED BY THE CONSTRUCTION MGR. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT ($\pm 3\%$ OF OPTIMUM) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION, THICKNESS AND ELEVATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 DENSITY TEST FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 90% OF MAXIMUM DRY DENSITY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - 1 MOISTURE CONTENT TEST ($\pm 3\%$ OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4. DUST CONTROL | | | |
| ACTION TAKEN <u>NONE REQUIRED</u> | | | |
| 5. LOCATION (APPROXIMATE) <u>NORTH SLOPE</u> | | | |
| 6. REMARKS <u>None</u> | | | |
| INSPECTOR <u>Chris Bick</u> DATE <u>12-9-92</u> | | | |
| REVIEWED BY <u>Jonathan Brannels</u> DATE <u>12/10/92</u> | | | |

PLACEMENT OF COMMON FILL



FORM A-10
SHEET 1 OF 1
INSPECTION DATE 12-10-92

| MATERIAL | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|-------------------------------------|
| - COMMON FILL SOIL OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FREE FROM SOD, BRUSH, ROOTS OR OTHER PERISHABLE MATERIALS, ROCKS LARGER THAN 3 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - CLAYMAX, VLDPE LINER, GAS VENTING LAYER AND PIPES AND GEOSYNTHETIC DRAINAGE LINER IS ACCEPTED BY THE CONSTRUCTION MGR. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT (\pm 3% OF OPTIMUM) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION, THICKNESS AND ELEVATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 DENSITY TEST FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 90% OF MAXIMUM DRY DENSITY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - 1 MOISTURE CONTENT TEST (\pm 3% OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4. DUST CONTROL | | | |
| ACTION TAKEN <u>NONE REQUIRED</u> | | | |
| 5. LOCATION (APPROXIMATE) <u>Near Slope</u> | | | |
| 6. REMARKS <u>RESULTS OF COMPACTION TESTS 25-29 ARE ATTACHED</u> | | | |

INSPECTOR Chris B... DATE 12-10-92
REVIEWED BY Jonathan Brancos DATE 12/14/92

PLACEMENT OF COMMON FILL

FORM A-10
SHEET 1 OF 1
INSPECTION DATE 12-15-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - COMMON FILL SOIL OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FREE FROM SOD, BRUSH, ROOTS OR OTHER PERISHABLE MATERIALS, ROCKS LARGER THAN 3 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - CLAYMAX, VLDPE LINER, GAS VENTING LAYER AND PIPES AND GEOSYNTHETIC DRAINAGE LINER IS ACCEPTED BY THE CONSTRUCTION MGR. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT ($\pm 3\%$ OF OPTIMUM) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION, THICKNESS AND ELEVATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 DENSITY TEST FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 90% OF MAXIMUM DRY DENSITY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - 1 MOISTURE CONTENT TEST ($\pm 3\%$ OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4. DUST CONTROL | | | |
| ACTION TAKEN <u>NONE REQUIRED</u> | | | |
| 5. LOCATION (APPROXIMATE) <u>WEST SIDE OF SITE, NORTH OF 3RD VALLEY</u> | | | |
| 6. REMARKS <u>PLACED ON GEOTEXTILE ACCEPTED BY GEOSYNTEC'S</u> | | | |
| <u>JOHN FOX</u> | | | |
| INSPECTOR <u>[Signature]</u> | | DATE <u>12-15-92</u> | |
| REVIEWED BY <u>[Signature]</u> | | DATE <u>12-16-92</u> | |

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DEC 11 1992

PLACEMENT OF COMMON FILL

FORM A-10
SHEET 1 OF 1
INSPECTION DATE 12-16-92

1. MATERIAL

- COMMON FILL SOIL OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.
- FREE FROM SOD, BRUSH, ROOTS OR OTHER PERISHABLE MATERIALS, ROCKS LARGER THAN 3 INCHES.
- CLAYMAX, VLDPE LINER, GAS VENTING LAYER AND PIPES AND GEOSYNTHETIC DRAINAGE LINER IS ACCEPTED BY THE CONSTRUCTION MGR.

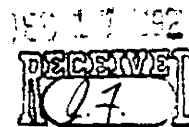
ACCEPT REJECT N/A

2. PLACEMENT

- MAXIMUM LOOSE LIFT OF 12 INCHES
- INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT ($\pm 3\%$ OF OPTIMUM)
- SURVEYOR VERIFY SLOPES, CONFIGURATION, THICKNESS AND ELEVATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

3. VERIFICATION TESTING

- 1 DENSITY TEST FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 90% OF MAXIMUM DRY DENSITY).
- 1 MOISTURE CONTENT TEST ($\pm 3\%$ OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS.



4. DUST CONTROL

ACTION TAKEN NONE REQUIRED

5. LOCATION (APPROXIMATE) WEST SIDE OF SITE, FROM VALLEY RD 3
TO PEARL NO. 4

6. REMARKS PLACED COMMON FILL OVER GEOCOMPOSITE ACCEPTED BY
GEOSYNTEC

INSPECTOR

DATE 12-16-92

REVIEWED BY

DATE 12-17-92

DEC 1 1992

FORM A-10

SHEET 1 OF 1

INSPECTION DATE 12-18-92

PLACEMENT OF COMMON FILL



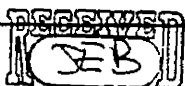
| | ACCEPT | REJECT | N/A |
|--|--------|--------|---------------|
| 1. MATERIAL | | | |
| - COMMON FILL SOIL OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | ✓ | | |
| - FREE FROM SOD, BRUSH, ROOTS OR OTHER PERISHABLE MATERIALS, ROCKS LARGER THAN 3 INCHES. | ✓ | | |
| - CLAYMAX, VLDPE LINER, GAS VENTING LAYER AND PIPES AND GEOSYNTHETIC DRAINAGE LINER IS ACCEPTED BY THE CONSTRUCTION MGR. | ✓ | | |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES | | | ✓ |
| - INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT ($\pm 3\%$ OF OPTIMUM) | | | ✓ |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION, THICKNESS AND ELEVATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. | ✓ | | |
| 3. VERIFICATION TESTING | | | |
| - 1 DENSITY TEST FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 90% OF MAXIMUM DRY DENSITY). | ✓ | | |
| - 1 MOISTURE CONTENT TEST ($\pm 3\%$ OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | | | ✓ |
| 4. DUST CONTROL | | | |
| ACTION TAKEN <u>NONE REQUIRED</u> | | | |
| 5. LOCATION (APPROXIMATE) <u>WEST SIDE OF NORTH PEAR</u> | | | |
| 6. REMARKS <u>PLACED COMMON FILL OVER GEOCOMPOSITE ACCEPTED BY</u> <u>GEOSYNTEC - GRADATIONS 21-24 ARE ATTACHED.</u> | | | |
| INSPECTOR <u>Chris [Signature]</u> | | | DATE 12-18-92 |
| REVIEWED BY <u>Jonathan [Signature]</u> | | | DATE 12/19/92 |

PLACEMENT OF COMMON FILL

FORM A-10

SHEET 1 OF 1

INSPECTION DATE 12-19-92



1. MATERIAL

- COMMON FILL SOIL OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.
- FREE FROM SOD, BRUSH, ROOTS OR OTHER PERISHABLE MATERIALS, ROCKS LARGER THAN 3 INCHES.
- CLAYMAX, VLDPE LINER, GAS VENTING LAYER AND PIPES AND GEOSYNTHETIC DRAINAGE LINER IS ACCEPTED BY THE CONSTRUCTION MGR.

ACCEPT REJECT N/A

✓
✓
✓

2. PLACEMENT

- MAXIMUM LOOSE LIFT OF 12 INCHES
- INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT ($\pm 3\%$ OF OPTIMUM)
- SURVEYOR VERIFY SLOPES, CONFIGURATION, THICKNESS AND ELEVATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

✓
✓
✓

3. VERIFICATION TESTING

- 1 DENSITY TEST FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 90% OF MAXIMUM DRY DENSITY).
- 1 MOISTURE CONTENT TEST ($\pm 3\%$ OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS.

✓
✓

4. DUST CONTROL

ACTION TAKEN NONE REQUIRED

5. LOCATION (APPROXIMATE) WEST SIDE OF NORTH SLOPE

6. REMARKS KNOCKED DOWN LAST BIG STOCKPILE & PLACED OVER

GEOCOMPOSITE ACCEPTED BY J. BRANDES

INSPECTOR

Chris Gilly

DATE 12-19-92

REVIEWED BY

Jonathan Brandes

DATE 12-22-92

DEC 22 1992

FORM A-10

SHEET 1 OF 1

INSPECTION DATE 12-21-92

PLACEMENT OF COMMON FILL



ACCEPT REJECT N/A

1. MATERIAL

- COMMON FILL SOIL OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.
- FREE FROM SOD, BRUSH, ROOTS OR OTHER PERISHABLE MATERIALS, ROCKS LARGER THAN 3 INCHES.
- CLAYMAX, VLDPE LINER, GAS VENTING LAYER AND PIPES AND GEOSYNTHETIC DRAINAGE LINER IS ACCEPTED BY THE CONSTRUCTION MGR.

☒ ☐ ☐☒ ☐ ☐☒ ☐ ☐

2. PLACEMENT

- MAXIMUM LOOSE LIFT OF 12 INCHES
- INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT ($\pm 3\%$ OF OPTIMUM)
- SURVEYOR VERIFY SLOPES, CONFIGURATION, THICKNESS AND ELEVATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

☐ ☐ ☒☐ ☐ ☒☒ ☐ ☐

3. VERIFICATION TESTING

- 1 DENSITY TEST FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 90% OF MAXIMUM DRY DENSITY).
- 1 MOISTURE CONTENT TEST ($\pm 3\%$ OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS.

☒ ☐ ☐☐ ☐ ☒

4. DUST CONTROL

ACTION TAKEN NONE REQUIRED5. LOCATION (APPROXIMATE) NORTH SLOPE - EAST SIDE OF SITE6. REMARKS PLACING COMMON FILL OVER GEOSYNTHETIC ACCEPTED BY
GEOSYNTEC (JOHN BRANDES)

INSPECTOR

DATE 12-21-92

REVIEWED BY

DATE 12-22-92

PLACEMENT OF COMMON FILL



FORM A-10
SHEET 1 OF 1
INSPECTION DATE 12-22-92

1. MATERIAL

- COMMON FILL SOIL OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.
- FREE FROM SOD, BRUSH, ROOTS OR OTHER PERISHABLE MATERIALS, ROCKS LARGER THAN 3 INCHES.
- CLAYMAX, VLDPE LINER, GAS VENTING LAYER AND PIPES AND GEOSYNTHETIC DRAINAGE LINER IS ACCEPTED BY THE CONSTRUCTION MGR.

ACCEPT REJECT N/A

2. PLACEMENT

- MAXIMUM LOOSE LIFT OF 12 INCHES
- INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT ($\pm 3\%$ OF OPTIMUM)
- SURVEYOR VERIFY SLOPES, CONFIGURATION, THICKNESS AND ELEVATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

3. VERIFICATION TESTING

- 1 DENSITY TEST FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 90% OF MAXIMUM DRY DENSITY).
- 1 MOISTURE CONTENT TEST ($\pm 3\%$ OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS.

4. DUST CONTROL

ACTION TAKEN NONE

5. LOCATION (APPROXIMATE) NORTHEAST CORNER & NORTHWEST CORNER

6. REMARKS PLACED COMMON FILL OVER GEOSYNTHETIC ACCEPTED BY CONSTRUCTION

GRADATIONS 25-28 ATTACHED.

INSPECTOR Chris B. G. DATE 12-22-92

REVIEWED BY James Brandes DATE 12-23-92

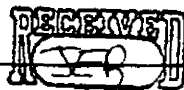
PLACEMENT OF COMMON FILL



FORM A-10
SHEET 1 OF 1
INSPECTION DATE 12-23-92

| | ACCEPT | REJECT | N/A |
|--|------------------|--------|---------------|
| 1. MATERIAL | | | |
| - COMMON FILL SOIL OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | _____ | _____ | ✓ |
| - FREE FROM SOD, BRUSH, ROOTS OR OTHER PERISHABLE MATERIALS, ROCKS LARGER THAN 3 INCHES. | _____ | _____ | ✓ |
| - CLAYMAX, VLDPE LINER, GAS VENTING LAYER AND PIPES AND GEOSYNTHETIC DRAINAGE LINER IS ACCEPTED BY THE CONSTRUCTION MGR. | _____ | _____ | ✓ |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES | _____ | _____ | ✓ |
| - INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT ($\pm 3\%$ OF OPTIMUM) | _____ | _____ | ✓ |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION, THICKNESS AND ELEVATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. | _____ | _____ | ✓ |
| 3. VERIFICATION TESTING | | | |
| - 1 DENSITY TEST FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 90% OF MAXIMUM DRY DENSITY). | _____ | _____ | ✓ |
| - 1 MOISTURE CONTENT TEST ($\pm 3\%$ OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | _____ | _____ | ✓ |
| 4. DUST CONTROL | | | |
| ACTION TAKEN | N/A | | |
| 5. LOCATION (APPROXIMATE) | | | |
| N/A | | | |
| 6. REMARKS | | | |
| ATTACHED ARE TROYLER DENSITY/COMPACTION TESTS #30-39 | | | |
| PERFORMED ON THE COMMON FILL ON 12/22 BY J. COLAMANTINO. | | | |
| INSPECTOR | Chris Galt | | DATE 12-23-92 |
| REVIEWED BY | Jonathan Sanchez | | DATE 12-23-92 |

19 1993



PLACEMENT OF COMMON FILL

FORM A-10
SHEET 1 OF 1
INSPECTION DATE 5/18/93

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - COMMON FILL SOIL OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FREE FROM SOD, BRUSH, ROOTS OR OTHER PERISHABLE MATERIALS, ROCKS LARGER THAN 3 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - CLAYMAX, VLDPE LINER, GAS VENTING LAYER AND PIPES AND GEOSYNTHETIC DRAINAGE LINER IS ACCEPTED BY THE CONSTRUCTION MGR. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT ($\pm 3\%$ OF OPTIMUM) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION, THICKNESS AND ELEVATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 DENSITY TEST FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 90% OF MAXIMUM DRY DENSITY). | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - 1 MOISTURE CONTENT TEST ($\pm 3\%$ OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4. DUST CONTROL | | | |
| ACTION TAKEN <u>NONE</u> | | | |
| 5. LOCATION (APPROXIMATE) <u>EAST Anchor Trench & DIKE SLOPE</u> | | | |
| 6. REMARKS <u>7 Loads of material * 21 ton = 147 ton</u> | | | |
| INSPECTOR <u>Joseph J. Colaninno</u> | | DATE <u>5/18/93</u> | |
| REVIEWED BY <u>Jonathan Brundage</u> | | DATE <u>5/20/93</u> | |

PLACEMENT OF COMMON FILL



FORM A-10
SHEET 1 OF 1
INSPECTION DATE 5/19/93

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - COMMON FILL SOIL OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FREE FROM SOD, BRUSH, ROOTS OR OTHER PERISHABLE MATERIALS, ROCKS LARGER THAN 3 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - CLAYMAX, VLDPE LINER, GAS VENTING LAYER AND PIPES AND GEOSYNTHETIC DRAINAGE LINER IS ACCEPTED BY THE CONSTRUCTION MGR. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT ($\pm 3\%$ OF OPTIMUM) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION, THICKNESS AND ELEVATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 DENSITY TEST FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 90% OF MAXIMUM DRY DENSITY). | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - 1 MOISTURE CONTENT TEST ($\pm 3\%$ OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4. DUST CONTROL | | | |
| ACTION TAKEN <u>NONE</u> | | | |
| 5. LOCATION (APPROXIMATE) <u>EAST Anchor Trench and Dike Slope.</u> | | | |
| 6. REMARKS <u>11 Loads of material x 21 Ton = 231 Ton</u> | | | |
| INSPECTOR <u>Joseph J. Colagastano</u> | | DATE <u>5/19/93</u> | |
| REVIEWED BY <u>Jonathan Brando</u> | | DATE <u>5/20/93</u> | |

MAY 21 1993

FORM A-10,
SHEET 1 OF 1
INSPECTION DATE 5-20-93

PLACEMENT OF COMMON FILL



| | ACCEPT | REJECT | N/A |
|--|--------|---------------------|-----|
| 1. MATERIAL | | | |
| - COMMON FILL SOIL OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | ✓ | | |
| - FREE FROM SOD, BRUSH, ROOTS OR OTHER PERISHABLE MATERIALS, ROCKS LARGER THAN 3 INCHES. | ✓ | | |
| - CLAYMAX, VLDPE LINER, GAS VENTING LAYER AND PIPES AND GEOSYNTHETIC DRAINAGE LINER IS ACCEPTED BY THE CONSTRUCTION MGR. | | | ✓ |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES | ✓ | | |
| - INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT ($\pm 3\%$ OF OPTIMUM) | | | ✓ |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION, THICKNESS AND ELEVATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. | | | ✓ |
| 3. VERIFICATION TESTING | | | |
| - 1 DENSITY TEST FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 90% OF MAXIMUM DRY DENSITY). | | | ✓ |
| - 1 MOISTURE CONTENT TEST ($\pm 3\%$ OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | | | ✓ |
| 4. DUST CONTROL | | | |
| ACTION TAKEN _____ | | | |
| 5. LOCATION (APPROXIMATE) _____ | | | |
| 6. REMARKS <u>196000 S = 352 TON</u> | | | |
| INSPECTOR <u>Joseph J. Cipriano</u> | | DATE <u>5-20-93</u> | |
| REVIEWED BY <u>Jonathan Brancos</u> | | DATE <u>5/25/93</u> | |

MAY 21 1993



FORM A-10

SHEET 1 OF 1

INSPECTION DATE 5-21-93

PLACEMENT OF COMMON FILL

| | ACCEPT | REJECT | N/A |
|--|--------|--------|-----|
| 1. MATERIAL | | | |
| - COMMON FILL SOIL OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | ✓ | | |
| - FREE FROM SOD, BRUSH, ROOTS OR OTHER PERISHABLE MATERIALS, ROCKS LARGER THAN 3 INCHES. | ✓ | | |
| - CLAYMAX, VLDPE LINER, GAS VENTING LAYER AND PIPES AND GEOSYNTHETIC DRAINAGE LINER IS ACCEPTED BY THE CONSTRUCTION MGR. | | | ✓ |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES | ✓ | | |
| - INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT ($\pm 3\%$ OF OPTIMUM) | | | ✓ |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION, THICKNESS AND ELEVATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. | | | ✓ |
| 3. VERIFICATION TESTING | | | |
| - 1 DENSITY TEST FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 90% OF MAXIMUM DRY DENSITY). | | | ✓ |
| - 1 MOISTURE CONTENT TEST ($\pm 3\%$ OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | | | ✓ |
| 4. DUST CONTROL | | | |
| ACTION TAKEN _____ | | | |
| 5. LOCATION (APPROXIMATE) _____ | | | |
| 6. REMARKS 4 Loads 82 Ton | | | |
| INSPECTOR <u>Joseph I. Calabrese</u> DATE <u>5-21-93</u> | | | |
| REVIEWED BY <u>Jonathan Brandes</u> DATE <u>5/25/93</u> | | | |

PLACEMENT OF COMMON FILL

MAY 28 1993

FORM A-10
SHEET 1 OF 1
INSPECTION DATE 5/27/93



1. MATERIAL

- COMMON FILL SOIL OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.
- FREE FROM SOD, BRUSH, ROOTS OR OTHER PERISHABLE MATERIALS, ROCKS LARGER THAN 3 INCHES.
- CLAYMAX, VLDPE LINER, GAS VENTING LAYER AND PIPES AND GEOSYNTHETIC DRAINAGE LINER IS ACCEPTED BY THE CONSTRUCTION MGR.

ACCEPT REJECT N/A

| | | |
|---|--|---|
| ✓ | | |
| ✓ | | |
| | | ✓ |

2. PLACEMENT

- MAXIMUM LOOSE LIFT OF 12 INCHES
- INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT ($\pm 3\%$ OF OPTIMUM)
- SURVEYOR VERIFY SLOPES, CONFIGURATION, THICKNESS AND ELEVATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

| | | |
|---|--|---|
| ✓ | | |
| | | ✓ |
| | | ✓ |

3. VERIFICATION TESTING

- 1 DENSITY TEST FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 90% OF MAXIMUM DRY DENSITY).
- 1 MOISTURE CONTENT TEST ($\pm 3\%$ OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS.

| | | |
|--|--|---|
| | | ✓ |
| | | ✓ |

4. DUST CONTROL

ACTION TAKEN WATER TRUCK WAS USED

5. LOCATION (APPROXIMATE) ROAD FROM GATE TO DUMP SITE

6. REMARKS FOR CELA 580 TON

INSPECTOR Joseph A. Colomartino

DATE 5/27/93

REVIEWED BY Jonathan Brandes

DATE 5/28/93

PLACEMENT OF COMMON FILL

MAY 28 1993

FORM A-10

SHEET 1 OF 1

INSPECTION DATE 5/27/93



1. MATERIAL

- COMMON FILL SOIL OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.
- FREE FROM SOD, BRUSH, ROOTS OR OTHER PERISHABLE MATERIALS, ROCKS LARGER THAN 3 INCHES.
- CLAYMAX, VLDPE LINER, GAS VENTING LAYER AND PIPES AND GEOSYNTHETIC DRAINAGE LINER IS ACCEPTED BY THE CONSTRUCTION MGR.

ACCEPT

REJECT

N/A

2. PLACEMENT

- MAXIMUM LOOSE LIFT OF 12 INCHES
- INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT ($\pm 3\%$ OF OPTIMUM)
- SURVEYOR VERIFY SLOPES, CONFIGURATION, THICKNESS AND ELEVATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

3. VERIFICATION TESTING

- 1 DENSITY TEST FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 90% OF MAXIMUM DRY DENSITY).
- 1 MOISTURE CONTENT TEST ($\pm 3\%$ OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS.

4. DUST CONTROL

ACTION TAKEN Water Truck was used

5. LOCATION (APPROXIMATE) Road From Gates To Dump Site

6. REMARKS For Trench & Slope 290 TON

INSPECTOR

Joseph A. Colaninno

DATE 5/27/93

REVIEWED BY

Jonathan Bandes

DATE 5/28/93

PLACEMENT OF COMMON FILL

MAY 28 1993



FORM A-10
SHEET 1 OF 1
INSPECTION DATE 5/28/93

1. MATERIAL

- COMMON FILL SOIL OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.
- FREE FROM SOD, BRUSH, ROOTS OR OTHER PERISHABLE MATERIALS, ROCKS LARGER THAN 3 INCHES.
- CLAYMAX, VLDPE LINER, GAS VENTING LAYER AND PIPES AND GEOSYNTHETIC DRAINAGE LINER IS ACCEPTED BY THE CONSTRUCTION MGR.

ACCEPT REJECT N/A

✓
✓
✓

2. PLACEMENT

- MAXIMUM LOOSE LIFT OF 12 INCHES
- INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT ($\pm 3\%$ OF OPTIMUM)
- SURVEYOR VERIFY SLOPES, CONFIGURATION, THICKNESS AND ELEVATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

✓
✓
✓

3. VERIFICATION TESTING

- 1 DENSITY TEST FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 90% OF MAXIMUM DRY DENSITY).
- 1 MOISTURE CONTENT TEST ($\pm 3\%$ OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS.

✓
✓

4. DUST CONTROL

ACTION TAKEN WATER TRUCK USED ON ACCESS ROADS

5. LOCATION (APPROXIMATE) CELA CAP 760 TON

Imported Today.

6. REMARKS

INSPECTOR

Joseph L. Colaninno

DATE 5/28/93

REVIEWED BY

Jonathan Brandes

DATE 5/28/93

STATEMENT OF COMMON FILL

JUN 1 1993



FORM A-10
SHEET 1 OF 1
INSPECTION DATE 6/1/93

| | ACCEPT | REJECT | N/A |
|--|--------|--------|-----|
| 1. MATERIAL | | | |
| - COMMON FILL SOIL OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | ✓ | | |
| - FREE FROM SOD, BRUSH, ROOTS OR OTHER PERISHABLE MATERIALS, ROCKS LARGER THAN 3 INCHES. | ✓ | | |
| - CLAYMAX, VLDPE LINER, GAS VENTING LAYER AND PIPES AND GEOSYNTHETIC DRAINAGE LINER IS ACCEPTED BY THE CONSTRUCTION MGR. | | | ✓ |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES | ✓ | | |
| - INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT ($\pm 3\%$ OF OPTIMUM) | | | ✓ |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION, THICKNESS AND ELEVATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. | | | ✓ |
| 3. VERIFICATION TESTING | | | |
| - 1 DENSITY TEST FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 90% OF MAXIMUM DRY DENSITY). | | | ✓ |
| - 1 MOISTURE CONTENT TEST ($\pm 3\%$ OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | | | ✓ |
| 4. DUST CONTROL | | | |
| ACTION TAKEN <u>water truck used</u> | | | |
| 5. LOCATION (APPROXIMATE) <u>ON CELA CAP</u> | | | |
| <u>2,491.72 ± 49,534.72 ton</u> | | | |
| 6. REMARKS | | | |
| INSPECTOR <u>Joseph L. Colantuono</u> DATE <u>6/1/93</u> | | | |
| REVIEWED BY <u>Jonathan Bravels</u> DATE <u>6/1/93</u> | | | |

JUN 02 1993

FORM A-10

SHEET 1 OF 1
INSPECTION DATE 6/2/93

PLACEMENT OF COMMON FILL

JEB

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - COMMON FILL SOIL OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FREE FROM SOD, BRUSH, ROOTS OR OTHER PERISHABLE MATERIALS, ROCKS LARGER THAN 3 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - CLAYMAX, VLDPE LINER, GAS VENTING LAYER AND PIPES AND GEOSYNTHETIC DRAINAGE LINER IS ACCEPTED BY THE CONSTRUCTION MGR. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT ($\pm 3\%$ OF OPTIMUM) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - SURVEYOR VERIFY SLOPES, CONFIGURATION, THICKNESS AND ELEVATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 DENSITY TEST FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 90% OF MAXIMUM DRY DENSITY). | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - 1 MOISTURE CONTENT TEST ($\pm 3\%$ OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4. BEST CONTROL | | | |
| ACTION TAKEN <u>YES, WATER TRUCK USED ON ROADWAY</u> | | | |
| 5. LOCATION (APPROXIMATE) <u>ON CELA, ALSO ON WEST</u> <u>SIDE OUTSIDE OF CHANNEL.</u> | | | |
| 6. REMARKS <u>THICKNESS WILL CHANGE TO 12" INSTEAD OF</u> <u>18" BY ROGER NORTH; LOCATION OUTSIDE PERIMETER CHANNEL</u> | | | |
| INSPECTOR <u>Joseph A. Colaninno</u> | | | DATE <u>6/2/93</u> |
| REVIEWED BY <u>Jonathan Brando</u> | | | DATE <u>6/3/93</u> |

PLACEMENT OF COMMON FILL

JUN 03 1993



FORM A-10
SHEET 1 OF 1
INSPECTION DATE 6/3/93

| | ACCEPT | REJECT | N/A |
|--|--------|--------------------|-----|
| 1. MATERIAL | | | |
| - COMMON FILL SOIL OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | ✓ | | |
| - FREE FROM SOD, BRUSH, ROOTS OR OTHER PERISHABLE MATERIALS, ROCKS LARGER THAN 3 INCHES. | ✓ | | |
| - CLAYMAN, SLOPE LINER, GAS VENTING LAYER AND PIPES AND GEOSYNTHETIC DRAINAGE LINER IS ACCEPTED BY THE CONSTRUCTION MGR. | | | ✓ |
| 2. PLACEMENT | | | |
| - MAXIMUM LOOSE LIFT OF 12 INCHES | ✓ | | |
| - INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT ($\pm 3\%$ OF OPTIMUM) | | | ✓ |
| - SUPERVISOR VERIFY SLOPES, CONFIGURATION, THICKNESS AND ELEVATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. | | | ✓ |
| 3. VERIFICATION TESTING | | | |
| - 1 DENSITY TEST FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 90% OF MAXIMUM DRY DENSITY). | | | ✓ |
| - 1 MOISTURE CONTENT TEST ($\pm 3\%$ OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. | | | ✓ |
| 4. DUST CONTROL | | | |
| ACTION TAKEN <u>Water Truck Used on Access Roadways</u> | | | |
| 5. LOCATION (APPROXIMATE) <u>Outside Perimeter Channel on 10' wide Area covering it to 1' Thick of Common Fill.</u> | | | |
| 6. REMARKS <u>224.77 Ton Placed Today</u> | | | |
| INSPECTOR <u>Joseph L. Colonista</u> | | DATE <u>6/3/93</u> | |
| REVIEWED BY <u>Jonathan Brandes</u> | | DATE <u>6/4/93</u> | |

STATEMENT OF COMMON FILL

JUN 16 1993

RECEIVED
JES

FORM A-10

SHEET 1 OF 1

INSPECTION DATE 6/15/93

1. MATERIAL

- COMMON FILL SOIL OBTAINED FROM THE BOSECON AREA ACCEPTED BY THE CONSTRUCTION MANAGER.
- FREE FROM SOD, BRUSH, ROOTS OR OTHER PERISHABLE MATERIALS, ROCKS LARGER THAN 3 INCHES.
- CLAYMAX, VLDPE LINER, GAS VENTING LAYER AND PIPES AND GEOSYNTHETIC DRAINAGE LINER IS ACCEPTED BY THE CONSTRUCTION MGR.

ACCEPT

REJECT

N/A

2. PLACEMENT

- MAXIMUM LOOSE LIFT OF 12 INCHES
- INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT ($\pm 3\%$ OF OPTIMUM)
- SURVEYOR VERIFY SLOPES, CONFIGURATION, THICKNESS AND ELEVATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

3. VERIFICATION TESTING

- 1 DENSITY TEST FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 90% OF MAXIMUM DRY DENSITY).
- 1 MOISTURE CONTENT TEST ($\pm 3\%$ OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS.

4. DUST CONTROL

ACTION TAKEN WATER TRUCK USED

5. LOCATION (APPROXIMATE) NORTH CELA CAP (no common fill placed - nuclear density test performed)

| REMARKS | % Pro | D.D. | W.D. | %m |
|---------|-------|-------|-------|-----|
| 40 | 105.7 | 137.7 | 144.8 | 5.1 |
| 41 | 89.5 | 114.1 | 120.2 | 5.3 |
| 42 | 91.4 | 119.4 | 125.3 | 4.6 |
| 43 | 100.5 | 131.0 | 137.1 | |

INSPECTOR Joseph J. Calomata

DATE 6/16/93

REVIEWED BY Jonathan Brancos

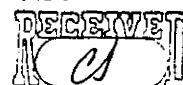
DATE 6/16/93

PLACEMENT OF TOPSOIL

FORM A-11
SHEET 1 OF 1
INSPECTION DATE 8-18-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - TOP SOIL OBTAINED FROM BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FREE FROM HEAVY CLAY, COARSE SAND, STONES, PLANTS, ROOTS, STICKS AND OTHER FOREIGN MATERIAL. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SUBGRADE IS NOT FROZEN, EXCESSIVELY WET, EXTREMELY DRY OR IN POOR CONDITION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - TOPSOILED AREAS ARE SMOOTH AND UNIFORMLY GRADED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - TOP SOIL THICKNESS IS AT LEAST 6 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. DUST CONTROL | | | |
| ACTION TAKEN <u>WATERED HAUL ROAD AS REQUIRED</u> | | | |
| 4. LOCATION (APPROXIMATE) | | | |
| <u>CURRENT CONTROLS</u> | | | |
| 5. REMARKS <u>PLAN TO FINISH PLACING TOP SOIL TOMORROW,</u> | | | |
| <u>AT WHICH TIME THE FERTILIZER AND SEED WILL BE</u> | | | |
| <u>PLACED.</u> | | | |

AUG 20 1992



INSPECTOR Frederick J. Mastitis

DATE 8-18-92

REVIEWED BY Colin P. Sullivan

DATE 8-20-92

PLACEMENT OF TOPSOIL

FORM A-11
SHEET 1 OF 1
INSPECTION DATE 8-19-92

1 MATERIAL

ACCEPT REJECT N/A

- TOP SOIL OBTAINED FROM BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.
- FREE FROM HEAVY CLAY, COARSE SAND, STONES, PLANTS, ROOTS, STICKS AND OTHER FOREIGN MATERIAL.
- SUBGRADE IS NOT FROZEN, EXCESSIVELY WET, EXTREMELY DRY OR IN POOR CONDITION.

| | | |
|---|--|--|
| ✓ | | |
| ✓ | | |
| ✓ | | |

2. PLACEMENT

- TOPSOILED AREAS ARE SMOOTH AND UNIFORMLY GRADED.
- TOP SOIL THICKNESS IS AT LEAST 6 INCHES.

| | | |
|---|--|--|
| ✓ | | |
| ✓ | | |

3. DUST CONTROL

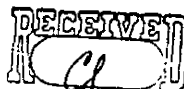
ACTION TAKEN WATERED HAUL ROADS AS REQUIRED

4. LOCATION (APPROXIMATE)

CURRENT CONTROLS

5. REMARKS STONE AND TOP SOIL PLACEMENT WAS FINISHED.
THE AREA WAS FERTILIZED AND SEEDED. STRAW/HAY
WILL BE PLACED TOMORROW AND CURRENT CONTROLS
SHOULD BE COMPLETE.

AUG 20 1992



INSPECTOR

Frederick J. Martlet

DATE 8-19-92

REVIEWED BY

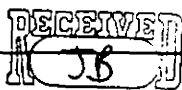
Allen P. Lukan

DATE 8-20-92

AUG 25 1992

FORM A-11

SHEET 1 OF 1
INSPECTION DATE 8-24-42








| ACCEPT | REJECT | N/A |
|--------|--------|-----|
|--------|--------|-----|

1 MATERIAL

- TOP SOIL OBTAINED FROM BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.
- FREE FROM HEAVY CLAY, COARSE SAND, STONES, PLANTS, ROOTS, STICKS AND OTHER FOREIGN MATERIAL.
- SUBGRADE IS NOT FROZEN, EXCESSIVELY WET, EXTREMELY DRY OR IN POOR CONDITION.

2. PLACEMENT

- TOPSOILED AREAS ARE SMOOTH AND UNIFORMLY GRADED.
- TOP SOIL THICKNESS IS AT LEAST 6 INCHES.

| | | |
|--|---|---|
|  |  |  |
|  |  |  |

3. DUST CONTROL

ACTION TAKEN AS REQUIRED

4. LOCATION (APPROXIMATE)

PLAN B, C, E + F AREAS RECEIVED TOP SOIL.

5. REMARKS TOP SOIL WAS PLACED ON 8-22-92.

REMARKS TOP SOIL WAS PLACED ON 8-22-92.

INSPECTOR

Fredrick J. Marshall

DATE 8-24-92

8-24-92

REVIEWED BY

Jonathan Brandes

DATE 8/25/92

8/15/92

PLACEMENT OF TOPSOIL

SEP 3 1992



FORM A-11

SHEET 1 OF 1

INSPECTION DATE 8-24-92

1. MATERIAL

- TOP SOIL OBTAINED FROM BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.
- FREE FROM HEAVY CLAY, COARSE SAND, STONES, PLANTS, ROOTS, STICKS AND OTHER FOREIGN MATERIAL.
- SUBGRADE IS NOT FROZEN, EXCESSIVELY WET, EXTREMELY DRY OR IN POOR CONDITION.

ACCEPT REJECT N/A

✓

✓

DUE TO ITS LOCATION, THIS AREA IS ALWAYS WET

2. PLACEMENT

- TOPSOILED AREAS ARE SMOOTH AND UNIFORMLY GRADED.
- TOP SOIL THICKNESS IS AT LEAST 6 INCHES.

✓

✓

3. DUST CONTROL

ACTION TAKEN NONE REQUIRED

4. LOCATION (APPROXIMATE)

REFINERY AREA 9

5. REMARKS

INSPECTOR Chris Bate DATE 9-3-92

REVIEWED BY Jonathan E. Brando DATE 9/4/92

PLACEMENT OF TOPSOIL

NOV 6 1992



FORM A-11
SHEET 1 OF 1
INSPECTION DATE 11-5-92

1. MATERIAL

- TOP SOIL OBTAINED FROM BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.
- FREE FROM HEAVY CLAY, COARSE SAND, STONES, PLANTS, ROOTS, STICKS AND OTHER FOREIGN MATERIAL.
- SUBGRADE IS NOT FROZEN, EXCESSIVELY WET, EXTREMELY DRY OR IN POOR CONDITION.

ACCEPT REJECT N/A

| | | |
|---|--|--|
| ✓ | | |
| ✓ | | |
| ✓ | | |

2. PLACEMENT

- TOPSOILED AREAS ARE SMOOTH AND UNIFORMLY GRADED.
- TOP SOIL THICKNESS IS AT LEAST 6 INCHES.

| | | |
|---|--|--|
| ✓ | | |
| ✓ | | |

* SURVEY IS RESPONSIBILITY OF GEOSYNTEC

3. DUST CONTROL

ACTION TAKEN NONE REQUIRED

4. LOCATION (APPROXIMATE)

CURRENT CONTROLS

5. REMARKS

ADDITIONAL REFINERY EXCAVATION AREA #1 & 4 AT
CURRENT CONTROLS WERE TOPSOILED AS WELL AS THOSE WHICH
WERE EXCAVATED YESTERDAY AT CEMENT CONTROLS. NO AREAS AT
THE POWERHOUSE WERE TOPSOILED AS THESE ARE IN TRAFFIC
AREAS.

INSPECTOR

Chris Bates

DATE 11-5-92

REVIEWED BY

Jonathan Bravos

DATE 11/7/92

PLACEMENT OF TOPSOIL

JUN 11 1993

FORM A-11

SHEET _____ OF _____

INSPECTION DATE 6/14/93



1. MATERIAL

TOP SOIL OBTAINED FROM BORROW
AREA ACCEPTED BY THE
CONSTRUCTION MANAGER.

- FREE FROM HEAVY CLAY, COARSE SAND,
STONES, PLANTS, ROOTS, STICKS AND
OTHER FOREIGN MATERIAL.

- SUBGRADE IS NOT FROZEN,
EXCESSIVELY WET, EXTREMELY DRY OR
IN POOR CONDITION.

2. PLACEMENT

- TOPSOILED AREAS ARE SMOOTH AND
UNIFORMLY GRADED.

- TOP SOIL THICKNESS IS AT LEAST
6 INCHES.

3. DUST CONTROL

ACTION TAKEN N/A

4. LOCATION (APPROXIMATE)

NO material hauled in on this

5. REMARKS

DOT - material was placed to 6" on
EAST CELA.

INSPECTOR

Joseph L. Colaninno

DATE 6/14/93

REVIEWED BY

Jonathan Sanchez

DATE 6/14/93

PLACEMENT OF TOPSOIL

JUN 14 1993



FORM A-11
SHEET 6 OF 1
INSPECTION DATE 6/14/93

1. MATERIAL

- TOP SOIL OBTAINED FROM BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.
- FREE FROM HEAVY CLAY, COARSE SAND, STONES, PLANTS, ROOTS, STICKS AND OTHER FOREIGN MATERIAL.
- SUBGRADE IS NOT FROZEN, EXCESSIVELY WET, EXTREMELY DRY OR IN POOR CONDITION.

ACCEPT REJECT N/A

✓
✓
✓

2. PLACEMENT

- TOPSOILED AREAS ARE SMOOTH AND UNIFORMLY GRADED.
- TOP SOIL THICKNESS IS AT LEAST 6 INCHES.

✓
✓

3. DUST CONTROL

ACTION TAKEN

WATER TRUCK used

4. LOCATION (APPROXIMATE)

WEST CELA

5. REMARKS

Imported 1,665.93 tons

INSPECTOR

Joseph L. Colaninno

DATE

6/14/93

REVIEWED BY

Jonathan Brando

DATE

6/14/93

PLACEMENT OF TOPSOIL

JUN 14 1993

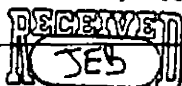


FORM A-11
SHEET 1 OF 1
INSPECTION DATE 6/14/93

| | | ACCEPT | REJECT | N/A |
|--|--|-------------------------------------|--------------------------|--------------------------|
| MATERIAL | | | | |
| - TOP SOIL OBTAINED FROM BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FREE FROM HEAVY CLAY, COARSE SAND, STONES, PLANTS, ROOTS, STICKS AND OTHER FOREIGN MATERIAL. | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SUBGRADE IS NOT FROZEN, EXCESSIVELY WET, EXTREMELY DRY OR IN POOR CONDITION. | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | | |
| - TOPSOILED AREAS ARE SMOOTH AND UNIFORMLY GRADED. | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - TOP SOIL THICKNESS IS AT LEAST 6 INCHES. | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. DUST CONTROL | | | | |
| ACTION TAKEN <u>WATER TRUCK WAS IN USE</u> | | | | |
| 4. LOCATION (APPROXIMATE) | | | | |
| <u>NORTH WEST CELA AREA</u> | | | | |
| 5. REMARKS | | | | |
| <u>SPREAD TO 6" in APPROPRIATE LOCATIONS</u> | | | | |
| <u>IMPORTED 1,738.96 TON AS OF</u> | | | | |
| <u>THIS DATE 8,849.77 TON</u> | | | | |
| | | | | |
| | | | | |
| | | | | |
| INSPECTOR <u>Joseph D. Colomanti</u> | | DATE <u>6/14/93</u> | | |
| REVIEWED BY <u>Armand Brando</u> | | DATE <u>6/16/93</u> | | |

PLACEMENT OF TOPSOIL

JUN 03 1993



FORM A-11
SHEET 1 OF 1
INSPECTION DATE 6/3/93

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - TOP SOIL OBTAINED FROM BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FREE FROM HEAVY CLAY, COARSE SAND, STONES, PLANTS, ROOTS, STICKS AND OTHER FOREIGN MATERIAL. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SURGRADE IS NOT FROZEN, EXCESSIVELY WET, EXTREMELY DRY OR IN POOR CONDITION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - TOPSOILED AREAS ARE SMOOTH AND UNIFORMLY GRADED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - TOP SOIL THICKNESS IS AT LEAST 6 INCHES. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. DUST CONTROL | | | |
| ACTION TAKEN <u>WATER TRUCK USED ON ROADWAYS</u> | | | |
| 4. LOCATION (APPROXIMATE) | | | |
| <u>STOCK PILING ON NORTH CECLA</u> | | | |
| 5. REMARKS <u>1,001.75 Ton Placed Today</u> | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| INSPECTOR <u>Joseph A. Colonaster</u> | | DATE <u>6/3/93</u> | |
| REVIEWED BY <u>Jonathan Brandes</u> | | DATE <u>6/4/93</u> | |

PLACEMENT OF TOPSOIL

JUN 15 1993
RECEIVED
JED

FORM 2411
SHEET 1 OF 1
INSPECTION

ACCEPTANCE

1. MATERIAL

- TOP SOIL OBTAINED FROM BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.
- FREE FROM HEAVY CLAY, COARSE SAND, STONES, PLANTS, ROOTS, STICKS AND OTHER FOREIGN MATERIAL.
- SUBGRADE IS NOT FROZEN, EXCESSIVELY WET, EXTREMELY DRY OR IN POOR CONDITION.

✓
✓
✓

2. PLACEMENT

- TOPSOILED AREAS ARE SMOOTH AND UNIFORMLY GRADED.
- TOP SOIL THICKNESS IS AT LEAST 6 INCHES.

✓
✓

3. DUST CONTROL

ACTION TAKEN WATER TRUCK USED

4. LOCATION (APPROXIMATE)

REMARKS Place TOP Soil 6" on the west GELA CAP
Tonage TODAY 2,001.66 TONDATE: 11,600.43 TON

INSPECTOR

REVIEWED BY

DATE

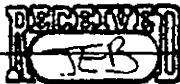
DATE

Joseph D. Clemente
Jonathan Brandoles

6/14/93
6/16/93

PLACEMENT OF TOPSOIL

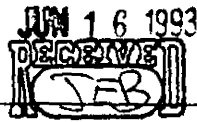
JUN 04 1993



FORM A-11
SHEET 1 OF 1
INSPECTION DATE 6/4/93

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - TOP SOIL OBTAINED FROM BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FREE FROM HEAVY CLAY, COARSE SAND, STONES, PLANTS, ROOTS, STICKS AND OTHER FOREIGN MATERIAL. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SUBGRADE IS NOT FROZEN, EXCESSIVELY WET, EXTREMELY DRY OR IN POOR CONDITION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - TOPSOILED AREAS ARE SMOOTH AND UNIFORMLY GRADED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - TOP SOIL THICKNESS IS AT LEAST 6 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. DUST CONTROL | | | |
| ACTION TAKEN <u>WATER TRUCK RAN ON HAUL ROADS TO</u> <u>KEEP DUST TO A MIN.</u> | | | |
| 4. LOCATION (APPROXIMATE) | | | |
| <u>SOUTH END OF CELA</u> | | | |
| 5. REMARKS <u>1,460.68 tons today</u> <u>2,462.33 tons to date</u> | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| INSPECTOR <u>Joseph J. Colonatus</u> | | | DATE <u>6/4/93</u> |
| REVIEWED BY <u>Jonathan Brancos</u> | | | DATE <u>6/7/93</u> |

PLACEMENT OF TOPSOIL



FORM A-11
SHEET 1 OF 1
INSPECTION DATE 6/16/93

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - TOP SOIL OBTAINED FROM BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FREE FROM HEAVY CLAY, COARSE SAND, STONES, PLANTS, ROOTS, STICKS AND OTHER FOREIGN MATERIAL. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SUBGRADE IS NOT FROZEN, EXCESSIVELY WET, EXTREMELY DRY OR IN POOR CONDITION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - TOPSOILED AREAS ARE SMOOTH AND UNIFORMLY GRADED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - TOP SOIL THICKNESS IS AT LEAST 6 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. DUST CONTROL | | | |
| ACTION TAKEN <u>WATER TRUCK USED</u> | | | |
| 4. LOCATION (APPROXIMATE) | | | |
| <u>WEST CELA ALSO NORTHWEST</u> | | | |
| 5. REMARKS <u>Imported 1,467.83 ton = 13,068.26 ton</u> | | | |
| | | | |
| | | | |
| | | | |
| | | | |

INSPECTOR Joseph L. Colaninno DATE 6/16/93
REVIEWED BY Jonathan Brandes DATE 6/16/93

AM 08 1993
RECEIVED
JEB

SHEET 1 OF 1
INSPECTION DATE 6/5/93

| MATERIAL | | ACCEPT | REJECT | N/A |
|--|--|--------|--------|--------|
| - TOP SOIL OBTAINED FROM BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | | | |
| - FREE FROM HEAVY CLAY, COARSE SAND, STONES, PLANTS, ROOTS, STICKS AND OTHER FOREIGN MATERIAL. | <input checked="" type="checkbox"/> | | | |
| - SURGRADE IS NOT FROZEN, EXCESSIVELY WET, EXTREMELY DRY OR IN POOR CONDITION. | <input checked="" type="checkbox"/> | | | |
| 2. PLACEMENT | | | | |
| - TOPSOILED AREAS ARE SMOOTH AND UNIFORMLY GRADED. | <input checked="" type="checkbox"/> | | | |
| - TOP SOIL THICKNESS IS AT LEAST 6 INCHES. | <input checked="" type="checkbox"/> | | | |
| 3. DUST CONTROL | | | | |
| ACTION TAKEN | Rain | | | |
| 4. LOCATION (APPROXIMATE) | | | | |
| | CALA CAP South end | | | |
| 5. REMARKS | 749.0 Ton Imported TOTAL TO DATE 3211.33 Ton | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| INSPECTOR | Jorge A. Gilman | | DATE | 4/8/93 |
| REVIEWED BY | Jonathan Brando | | DATE | 6/8/93 |

PLACEMENT OF TOPSOIL

FORM A-11
SHEET 1 OF 1
INSPECTION DATE: 6/16/93

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - TOP SOIL OBTAINED FROM BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FREE FROM HEAVY CLAY, COARSE SAND, STONES, PLANTS, ROOTS, STICKS AND OTHER FOREIGN MATERIAL. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SUBGRADE IS NOT FROZEN, EXCESSIVELY WET, EXTREMELY DRY OR IN POOR CONDITION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - TOPSOILED AREAS ARE SMOOTH AND UNIFORMLY GRADED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - TOP SOIL THICKNESS IS AT LEAST 6 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. DUST CONTROL | | | |
| ACTION TAKEN <u>WATER TRUCK USED</u> | | | |
| 4. LOCATION (APPROXIMATE) | | | |
| <u>SOUTH WEST CORNER C-6-17</u> | | | |
| 5. REMARKS | | | |
| <u>THIS IS ALL THE TOPSOIL UNTIL WE CAN</u> | | | |
| <u>PLACE IT TO 6" AND SOME WILL IMPROVE CRUSHED</u> | | | |
| <u>STONE TOMORROW FIRST THING</u> | | | |
| <u>TOPSOIL 2,231.18 TON TODAY</u> | | | |
| <u>" 15,299.44 TON TO DATE</u> | | | |
| <p>JUN 17 1993 RECEIVED R&D</p> | | | |
| INSPECTOR <u>[Signature]</u> | DATE: <u>6/16/93</u> | | |
| REVIEWED BY <u>[Signature]</u> | DATE: <u>17/JUN/93</u> | | |

PLACEMENT OF TOPSOIL

FORM A-11
SHEET 1 OF 1
INSPECTION DATE 6/17/93

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - TOP SOIL OBTAINED FROM BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FREE FROM HEAVY CLAY, COARSE SAND, STONES, PLANTS, ROOTS, STICKS AND OTHER FOREIGN MATERIAL. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SUBGRADE IS NOT FROZEN, EXCESSIVELY WET, EXTREMELY DRY OR IN POOR CONDITION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - TOPSOILED AREAS ARE SMOOTH AND UNIFORMLY GRADED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - TOP SOIL THICKNESS IS AT LEAST 6 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. DUST CONTROL | | | |
| ACTION TAKEN <u>WATER TRUCK USED</u> | | | |
| 4. LOCATION (APPROXIMATE) | | | |
| <u>OUTSIDE CELA PERIMETER CHANNEL</u> | | | |
| 5. REMARKS <u>Imported 513.55 Ton Today</u> | | | |
| <u>15,812.99 Ton To Date</u> | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| INSPECTOR <u>Joseph A. Colamartino</u> | | DATE <u>6/17/93</u> | |
| REVIEWED BY _____ | | DATE _____ | |

JUN 18 1993



JUN 06 1993



FORM A-11

SHEET 1 OF 1
INSPECTION DATE 6/7/93

PLACEMENT OF TOPSOIL

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| TOP SOIL OBTAINED FROM BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FREE FROM HEAVY CLAY, COARSE SAND, STONES, PLANTS, ROOTS, STICKS AND OTHER FOREIGN MATERIAL. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SUBGRADE IS NOT FROZEN, EXCESSIVELY WET, EXTREMELY DRY OR IN POOR CONDITION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - TOPSOILED AREAS ARE SMOOTH AND UNIFORMLY GRADED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - TOP SOIL THICKNESS IS AT LEAST 6 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. DUST CONTROL | | | |
| ACTION TAKEN <u>WATER TRUCK IN USE</u> | | | |
| 4. LOCATION (APPROXIMATE) | | | |
| <u>CELA EAST</u> | | | |
| 5. REMARKS | | | |
| <u>IMPORT 1,622.69 TON TOPSOIL 4,834.02 TON</u> | | | |
| | | | |
| | | | |
| | | | |
| | | | |

INSPECTOR Joseph J. Colaneri

REVIEWED BY Anthony Brando

DATE 6/8/93

DATE 6/8/93

PLACEMENT OF TOPSOIL



FORM A-11
SHEET 1 OF 1
INSPECTION DATE 6/8/93

JUN 09 1993

ACCEPT REJECT N/A

1. MATERIAL

- TOP SOIL OBTAINED FROM BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.
- FREE FROM HEAVY CLAY, COARSE SAND, STONES, PLANTS, ROOTS, STICKS AND OTHER FOREIGN MATERIAL.
- SUBGRADE IS NOT FROZEN, EXCESSIVELY WET, EXTREMELY DRY OR IN POOR CONDITION.

| | | |
|---|--|--|
| ✓ | | |
| ✓ | | |
| ✓ | | |

2. PLACEMENT

- TOPSOILED AREAS ARE SMOOTH AND UNIFORMLY GRADED.
- TOP SOIL THICKNESS IS AT LEAST 6 INCHES.

| | | |
|---|--|--|
| ✓ | | |
| ✓ | | |

DUST CONTROL

ACTION TAKEN

Rain, not needed

4. LOCATION (APPROXIMATE)

EAST CELA

5. REMARKS

STOP, Import of Topsoil AT Noon due to
Excessive Rain.

INSPECTOR

Joseph A. Clemente

DATE 6/9/93

REVIEWED BY

Jonathan Bravels

DATE 6/10/93

INSPECTION DATE 4-25-94

N/A

REVIEWED BY

DATE 10/1/92



GEOTEXTILE

FORM A-12
SHEET 1 OF 1
INSPECTION DATE 9-28-92

| MATERIAL | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|-------------------------------------|
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. (ATTACH COPY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FINAL IN-PLACE LOCATION OF GEOTEXTILE COMPLIES WITH CONTRACT DRAWING. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - INSTALLATION INCLUDING SEAMS, IS PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 INSPECTION OF OVERLAPS AND SECURING METHODS AT 25' SPACING ALONG SEAM OR ONCE PER PIECE. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - 1 SEAM STRENGTH TEST FOR EVERY 2500 FEET LENGTH OF SEAM. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

SAMPLE TAKEN

4. GEOTEXTILE LOCATION (APPROXIMATE)

PLACED TO N 400 AND ALL THE WAY EAST AND TO N 450, E 800

5. REMARKS SEAM STRENGTH SAMPLE GD-1 TAKEN TODAY

AT APPROXIMATELY N 400, E 600. SINGLE J STITCH WAS CAUSING PROBLEMS WITH THE SEWING MACHINE, SO WE HAVE SWITCHED TO A DOUBLE STITCH. COLLIN SUKOW IS AWARE OF THE CHANGE IN STITCHING AND HAS APPROVED.



SEP 29 1992

INSPECTOR

Friedrich J. Markle

DATE: 9-28-92

REVIEWED BY


Collin R. Sukow

DATE: 9/29/92

GEOTEXTILE

FORM A-12
SHEET 1 OF 1
INSPECTION DATE 9-30-92

| | ACCEPT | REJECT | N/A |
|--|----------|---------------|---------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. (ATTACH COPY). | <u>✓</u> | <u> </u> | <u> </u> |
| - FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE. | <u>✓</u> | <u> </u> | <u> </u> |
| 2. PLACEMENT | | | |
| - SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS. | <u>✓</u> | <u> </u> | <u> </u> |
| - FINAL IN-PLACE LOCATION OF GEOTEXTILE COMPLIES WITH CONTRACT DRAWING. | <u>✓</u> | <u> </u> | <u> </u> |
| - INSTALLATION INCLUDING SEAMS, IS PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION. | <u>✓</u> | <u> </u> | <u> </u> |
| 3. VERIFICATION TESTING | | | |
| - 1 INSPECTION OF OVERLAPS AND SECURING METHODS AT 25' SPACING ALONG SEAM OR ONCE PER PIECE. | <u>✓</u> | <u> </u> | <u> </u> |
| - 1 SEAM STRENGTH TEST FOR EVERY 2500 FEET LENGTH OF SEAM. | <u>✓</u> | <u> </u> | <u> </u> |
| 4. GEOTEXTILE LOCATION (APPROXIMATE) | | | |
| <u>EXTENDED GEOTEXTILE EASTWARD FROM INTERSECTION TO ADJ N500</u> | | | |
| 5. REMARKS | | | |
| <u>RESULTS OF GEOTEXTILE DESTRUCTIVE SAMPLE</u> | | | |
| <u>GDI ATTACHED</u> | | | |
| <u> </u> | | | |
| <u> </u> | | | |
| <u> </u> | | | |


 OCT 01 1992

INSPECTOR Chris B. [Signature]
 REVIEWED BY Collin P. [Signature]

DATE 9-30-92
 DATE 10/1/92

GEOTEXTILE

FORM A-12
SHEET 1 OF 1
INSPECTION DATE 10-1-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. (ATTACH COPY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FINAL IN-PLACE LOCATION OF GEOTEXTILE COMPLIES WITH CONTRACT DRAWING. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - INSTALLATION INCLUDING SEAMS, IS PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 INSPECTION OF OVERLAPS AND SECURING METHODS AT 25' SPACING ALONG SEAM OR ONCE PER PIECE. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - 1 SEAM STRENGTH TEST FOR EVERY 2500 FEET LENGTH OF SEAM. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. GEOTEXTILE LOCATION (APPROXIMATE) | | | |
| <u>500 to approx 600' N line</u> | | | |
| 5. REMARKS | | | |
| <u>tot. sq. footage deployed,</u> | | | |
| <u>sewed per spec 37,800² TS 700</u> | | | |
| <u>2520 LINEAR FT SEAM</u> | | | |
| | | | |
| | | | |
| | | | |



OCT 02 1992

INSPECTOR

Chris Bala

DATE 10-1-92

REVIEWED BY

Calvin P. J. Shaw

DATE 10/2/92

GEOTEXTILE

FORM A-12
SHEET 1 OF 1
INSPECTION DATE 10-2-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. (ATTACH COPY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FINAL IN-PLACE LOCATION OF GEOTEXTILE COMPLIES WITH CONTRACT DRAWING. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - INSTALLATION INCLUDING SEAMS, IS PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 INSPECTION OF OVERLAPS AND SECURING METHODS AT 25' SPACING ALONG SEAM OR ONCE PER PIECE. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - 1 SEAM STRENGTH TEST FOR EVERY 2500 FEET LENGTH OF SEAM. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. GEOTEXTILE LOCATION (APPROXIMATE) | | | |
| <u>GEOTEXTILE PLACED TO N710, E1000</u> | | | |
| 5. REMARKS | | | |
| <u>SE TODAY = 54,000 ; SE TO DATE 115 157,492</u> | | | |
| | | | |
| | | | |
| | | | |



OCT 05 1992

INSPECTOR

Chris Banta

DATE

10-2-92

REVIEWED BY

Colin P. Siskew

DATE

10/5/92

GEOTEXTILE

FORM A-12

SHEET 1 OF 1

INSPECTION DATE 10-5-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. (ATTACH COPY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FINAL IN-PLACE LOCATION OF GEOTEXTILE COMPLIES WITH CONTRACT DRAWING. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - INSTALLATION INCLUDING SEAMS, IS PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 INSPECTION OF OVERLAPS AND SECURING METHODS AT 25' SPACING ALONG SEAM OR ONCE PER PIECE. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - 1 SEAM STRENGTH TEST FOR EVERY 2500 FEET LENGTH OF SEAM. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. GEOTEXTILE LOCATION (APPROXIMATE) | | | |

5. REMARKS

Install 10,800' TS 200
to R line N900

OCT 05 1992



INSPECTOR

Chris Cook

DATE 10-5-92


REVIEWED BY

Collin P. Schow

DATE 10/5/92

GEOTEXTILE

FORM A-12
SHEET 1 OF 1
INSPECTION DATE 10-5

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. (ATTACH COPY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FINAL IN-PLACE LOCATION OF GEOTEXTILE COMPLIES WITH CONTRACT DRAWING. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - INSTALLATION INCLUDING SEAMS, IS PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 INSPECTION OF OVERLAPS AND SECURING METHODS AT 25' SPACING ALONG SEAM OR ONCE PER PIECE. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - 1 SEAM STRENGTH TEST FOR EVERY 2500 FEET LENGTH OF SEAM. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. GEOTEXTILE LOCATION (APPROXIMATE) | | | |
| 5. REMARKS <u>Install, sew 16,200² to 3 line Pull</u> <u>D/S 2, 3+4. Send to Murray & Assoc. for</u> <u>lab testing as per spec.</u> | | | |
| OCT 06 1992 | | | |
| <div style="display: flex; justify-content: space-between;"> <div>  </div> <div> <p><i>J.D.</i> 10-5-92</p> </div> </div> | | | |
| INSPECTOR <u><i>Chris [Signature]</i></u> | | DATE <u>10-5-92</u> | |
| REVIEWED BY <u><i>Collin P. Johnson</i></u> | | DATE <u>10/7/92</u> | |

GEOTEXTILE

FORM A-12
SHEET 1 OF 1
INSPECTION DATE 10-6-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. (ATTACH COPY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FINAL IN-PLACE LOCATION OF GEOTEXTILE COMPLIES WITH CONTRACT DRAWING. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - INSTALLATION INCLUDING SEAMS, IS PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 INSPECTION OF OVERLAPS AND SECURING METHODS AT 25' SPACING ALONG SEAM OR ONCE PER PIECE. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - 1 SEAM STRENGTH TEST FOR EVERY 2500 FEET LENGTH OF SEAM. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. GEOTEXTILE LOCATION (APPROXIMATE) | | | |

5. REMARKS Install, per recording according to specs. 43, 485² TS 700.

OCT 07 1992



INSPECTOR

Chris Banta

DATE 10-6-92

REVIEWED BY

Colleen P. Johnson

DATE 10/7/92

GEOTEXTILE

FORM A-12

SHEET 1 OF 1
INSPECTION DATE 10-7-92

1. MATERIAL

- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. (ATTACH COPY).

- FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE.

2. PLACEMENT

- SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS.

- FINAL IN-PLACE LOCATION OF GEOTEXTILE COMPLIES WITH CONTRACT DRAWING.

- INSTALLATION INCLUDING SEAMS, IS PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.

3. VERIFICATION TESTING

- 1 INSPECTION OF OVERLAPS AND SECURING METHODS AT 25' SPACING ALONG SEAM OR ONCE PER PIECE.

- 1 SEAM STRENGTH TEST FOR EVERY 2500 FEET LENGTH OF SEAM.

4. GEOTEXTILE LOCATION (APPROXIMATE)

"O" Line

5. REMARKS L rock B 10-12 A.M. 2 tests 10.12;
2 tests 4-5 P.M.; 2-tests 5-7 P.M.
Install 26, 970' TS 700. TOOL DESTRUCTIVE
SAMPLES DS #5 & DS #6. RESULTS OF DESTRUCTIVES DS #2,
3 & 4 ARE ATTACHED.

OCT 8 1992



INSPECTOR

Chris D. [Signature]

DATE 10-7-92

REVIEWED BY

Collin P. [Signature]

DATE 10/8/92

ACCEPT REJECT N/A

✓

✓

✓

✓

✓

✓

✓

J.P. 10-7-92

GEOTEXTILE

FORM A-12
SHEET 1 OF 1
INSPECTION DATE 10-9-92

| | ACCEPT | REJECT | N/A |
|--|--------|--------|--------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. (ATTACH COPY). | _____ | _____ | _____✓ |
| - FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE. | _____ | _____ | _____✓ |
| 2. PLACEMENT | | | |
| - SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS. | _____ | _____ | _____✓ |
| - FINAL IN-PLACE LOCATION OF GEOTEXTILE COMPLIES WITH CONTRACT DRAWING. | _____ | _____ | _____✓ |
| - INSTALLATION INCLUDING SEAMS, IS PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION. | _____ | _____ | _____✓ |
| 3. VERIFICATION TESTING | | | |
| - 1 INSPECTION OF OVERLAPS AND SECURING METHODS AT 25' SPACING ALONG SEAM OR ONCE PER PIECE. | _____ | _____ | _____✓ |
| - 1 SEAM STRENGTH TEST FOR EVERY 2500 FEET LENGTH OF SEAM. | _____ | _____ | _____✓ |
| 4. GEOTEXTILE LOCATION (APPROXIMATE) | | | |
| <u>N/A</u> | | | |
| 5. REMARKS | | | |
| <u>RESULTS OF DESTRUCTIVE SAMPLES</u> | | | |
| <u>DS #5 & DS #6 ATTACHED.</u> | | | |
| | | | |
| | | | |
| | | | |

OCT 10 1992



INSPECTOR

Chris Bailey

DATE 10-9-92

REVIEWED BY

Colin P. Jackson

DATE 10/10/92

FORM A-12
SHEET 1 OF 1
INSPECTION DATE 10-10-92

1. MATERIAL

- MANUFACTURER'S MILL CERTIFICATE OR
AFFIDAVIT HAS BEEN PROVIDED.
(ATTACH COPY).

- FREE FROM DEFECTS, RIPS, HOLES,
FLAWS, DETERIORATION OR DAMAGE.

✓

- SURFACES TO RECEIVE GEOTEXTILE
ARE FREE OF DEBRIS.

✓

- FINAL IN-PLACE LOCATION OF
GEOTEXTILE COMPLIES WITH CONTRACT
DRAWING.

✓

- INSTALLATION INCLUDING SEAMS,
IS PERFORMED IN ACCORDANCE WITH
MANUFACTURER'S RECOMMENDATION.

✓

- 1 INSPECTION OF OVERLAPS AND SECURING METHODS AT 25' SPACING ALONG SEAM OR ONCE PER PIECE.

✓

- 1 SEAM STRENGTH TEST FOR EVERY 2500 FEET LENGTH OF SEAM.

✓

5055² South end to anchor trench to finish under stone

5. REMARKS 41, 42.5' top of stone layer from "K" line south
to approx "G" line

OCT 12 1992



INSPECTOR

Chris Bailey

DATE 10-12-92

REVIEWED BY

Collin P. Schow

DATE 10/12/92

GEOTILE

FORM A-12
SHEET _____ OF _____
INSPECTION DATE 10-12-92

ACCEPT REJECT N/A

1. MATERIAL

- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. (ATTACH COPY).
- FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE.

✓
✓

2. PLACEMENT

- SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS.
- FINAL IN-PLACE LOCATION OF GEOTEXTILE COMPLIES WITH CONTRACT DRAWING.
- INSTALLATION INCLUDING SEAMS, IS PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.

✓
✓
✓

3. VERIFICATION TESTING

1 INSPECTION OF OVERLAPS AND SECURING METHODS AT 25' SPACING ALONG SEAM OR ONCE PER PIECE.

- 1 SEAM STRENGTH TEST FOR EVERY 2500 FEET LENGTH OF SEAM.

✓
✓

4. GEOTEXTILE LOCATION (APPROXIMATE)

Primary geotextile TS700 from to primary

5. REMARKS

Channel at south end of cell.
20,235' TS700 primary installed.

OCT 13 1992
RECEIVED

INSPECTOR

Chris Banta

DATE

10-12-92

REVIEWED BY

Colin P. Jackson

10/13/92

DATE

J-R

GEOTEXTILE

FORM A-12
SHEET 1 OF 1
INSPECTION DATE 10-14-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. (ATTACH COPY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FINAL IN-PLACE LOCATION OF GEOTEXTILE COMPLIES WITH CONTRACT DRAWING. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - INSTALLATION INCLUDING SEAMS, IS PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 INSPECTION OF OVERLAPS AND SECURING METHODS AT 25' SPACING ALONG SEAM OR ONCE PER PIECE. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - 1 SEAM STRENGTH TEST FOR EVERY 2500 FEET LENGTH OF SEAM. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. GEOTEXTILE LOCATION (APPROXIMATE) | | | |
| <u>Deploy 42,810² TS 700 secondary from 0</u> | | | |
| 5. REMARKS <u>Line to W Line to E 975'</u> | | | |
| <u>Will pull 2 destructives for lab testing</u> | | | |
| <u>10-15-92</u> | | | |


OCT 15 1992



INSPECTOR Chris Bault DATE 10-14
REVIEWED BY Collin P. Johnson 10/15/92 DATE 10-14-92
J.D.

GEOTEXTILE

FORM A-12
SHEET 1 OF 1
INSPECTION DATE 10-15-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|--------------------------|
| MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FINAL IN-PLACE LOCATION OF GEOTEXTILE COMPLIES WITH CONTRACT DRAWING. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - INSTALLATION INCLUDING SEAMS, IS PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 INSPECTION OF OVERLAPS AND SECURING METHODS AT 25' SPACING ALONG SEAM OR ONCE PER PIECE. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - 1 SEAM STRENGTH TEST FOR EVERY 2500 FEET LENGTH OF SEAM. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. GEOTEXTILE LOCATION (APPROXIMATE) | | | |
| 5. REMARKS <u>TS 1000 used as a cushion for underlives</u> <u>installed in channel from P to W line.</u> | | | |
| PRODUCT = <u>TS 1000</u> | | | |
| SF INSTALLED TODAY = <u>3,000 SF</u> | | | |
| SF INSTALLED TO DATE = <u>3,000 SF</u> | | | |
| OCT 16 1992 | | | |
|  | | | |
| INSPECTOR <u>[Signature]</u> | DATE <u>10-15-92</u> | | |
| REVIEWED BY <u>[Signature]</u> | DATE <u>10-15-92</u> | | |
| <u>[Signature]</u> | | | <u>10/16/92</u> |

GEOTEXTILE

FORM A-12
SHEET 7 OF 1
INSPECTION DATE 10-16-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FINAL IN-PLACE LOCATION OF GEOTEXTILE COMPLIES WITH CONTRACT DRAWING. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - INSTALLATION INCLUDING SEAMS, IS PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 INSPECTION OF OVERLAPS AND SECURING METHODS AT 25' SPACING ALONG SEAM OR ONCE PER PIECE. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - 1 SEAM STRENGTH TEST FOR EVERY 2500 FEET LENGTH OF SEAM. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

4. GEOTEXTILE LOCATION (APPROXIMATE)

INSTALLED PRIMARY GEOTEXTILE IN SOUTHERN PORTION OF CELA

5. ~~REMARKS~~ COMPLETING THE SOUTHERN SCOPE

PRODUCT = TS 700

SF INSTALLED TODAY = 25,500²

SF INSTALLED TO DATE = 390,405

TS 1000 3,000² installed to date

INSPECTOR

Chris Bates

DATE 10-16-92

REVIEWED BY

John H. Fox

DATE 10-19-92

L.D.

May 2004

5/12

GEOTEXTILE

FORM A-12
SHEET 1 OF 1
INSPECTION DATE 10-17-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FINAL IN-PLACE LOCATION OF GEOTEXTILE COMPLIES WITH CONTRACT DRAWING. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - INSTALLATION INCLUDING SEAMS, IS PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 INSPECTION OF OVERLAPS AND SECURING METHODS AT 25' SPACING ALONG SEAM OR ONCE PER PIECE. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - 1 SEAM STRENGTH TEST FOR EVERY 2500 FEET LENGTH OF SEAM. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

4. GEOTEXTILE LOCATION (APPROXIMATE)

5. REMARKS

PRODUCT = TS 700 primary

SF INSTALLED TODAY = 65,418

SF INSTALLED TO DATE = 455,820

INSPECTOR

Chris Bault

DATE 10-17-92

REVIEWED BY

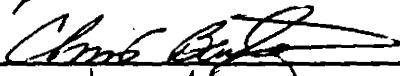
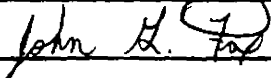
John H. Fox

DATE 10-19-92

GEOTEXTILE

19215

FORM A-12
SHEET 1 OF 1
INSPECTION DATE 10-19-92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FINAL IN-PLACE LOCATION OF GEOTEXTILE COMPLIES WITH CONTRACT DRAWING. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - INSTALLATION INCLUDING SEAMS, IS PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 INSPECTION OF OVERLAPS AND SECURING METHODS AT 25' SPACING ALONG SEAM OR ONCE PER PIECE. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - 1 SEAM STRENGTH TEST FOR EVERY 2500 FEET LENGTH OF SEAM. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. GEOTEXTILE LOCATION (APPROXIMATE) | | | |
| EAST SIDE OF STR | | | |
| 5. REMARKS None | | | |
| PRODUCT = TS 700 | | | |
| SF INSTALLED TODAY = 23,340 | | | |
| SF INSTALLED TO DATE = 45,820 479,160 ² | | | |
| 2. O. 10-19-92 | | | |
| INSPECTOR  | | DATE 10-19-92 | |
| REVIEWED BY  | | DATE 10-20-92 | |

GEOTEXTILE

FORM A-12
SHEET 1 OF 1
INSPECTION DATE 10-20-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FINAL IN-PLACE LOCATION OF GEOTEXTILE COMPLIES WITH CONTRACT DRAWING. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - INSTALLATION INCLUDING SEAMS, IS PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 INSPECTION OF OVERLAPS AND SECURING METHODS AT 25' SPACING ALONG SEAM OR ONCE PER PIECE. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - 1 SEAM STRENGTH TEST FOR EVERY 2500 FEET LENGTH OF SEAM. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

4. GEOTEXTILE LOCATION (APPROXIMATE)

~~to be channel to channel~~ 20' N. of K line to

5. REMARKS Channel

PRODUCT = 95700

SF INSTALLED TODAY = 1500² primary

SF INSTALLED TO DATE = 480,660²

INSPECTOR

F.P. 10-10-92

Chris B.

DATE 10-20-92

REVIEWED BY

John H. Fox (Deputy)

DATE 10-21-92

GEOTEXTILE

FORM A-12
SHEET 1 OF 1
INSPECTION DATE 10-24-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FINAL IN-PLACE LOCATION OF GEOTEXTILE COMPLIES WITH CONTRACT DRAWING. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - INSTALLATION INCLUDING SEAMS, IS PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 INSPECTION OF OVERLAPS AND SECURING METHODS AT 25' SPACING ALONG SEAM OR ONCE PER PIECE. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - 1 SEAM STRENGTH TEST FOR EVERY 2500 FEET LENGTH OF SEAM. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

4. GEOTEXTILE LOCATION (APPROXIMATE)

to R line

5. REMARKS

PRODUCT = TS 700 gram Secondary
SF INSTALLED TODAY = 13,500
SF INSTALLED TO DATE = ~~83,154~~ 492,660²

INSPECTOR Chris B... DATE 10-24-92
REVIEWED BY John H. Fox (Desyntec) DATE 10-27-92

GEOTEXTILE

FORM A-12
SHEET 9 OF C
INSPECTION DATE 10-26-92

| MATERIAL | ACCEPT | REJECT | N/A |
|--|---------------|---------------|----------------------------|
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | <u>✓</u> | <u> </u> | <u> </u> |
| - FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE. | <u>✓</u> | <u> </u> | <u> </u> |
| 2. PLACEMENT | | | |
| - SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS. | <u>✓</u> | <u> </u> | <u> </u> |
| - FINAL IN-PLACE LOCATION OF GEOTEXTILE COMPLIES WITH CONTRACT DRAWING. | <u>✓</u> | <u> </u> | <u> </u> |
| - INSTALLATION INCLUDING SEAMS, IS PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION. | <u>✓</u> | <u> </u> | <u> </u> |
| 3. VERIFICATION TESTING | | | |
| - 1 INSPECTION OF OVERLAPS AND SECURING METHODS AT 25' SPACING ALONG SEAM OR ONCE PER PIECE. | <u> </u> | <u> </u> | <u>SAMPLES TO .32 AREN</u> |
| - 1 SEAM STRENGTH TEST FOR EVERY 2500 FEET LENGTH OF SEAM. | <u>NA</u> | <u> </u> | <u> </u> |
| 4. GEOTEXTILE LOCATION (APPROXIMATE) | | | |
| <u>to r line at east end</u> | | | |
| 5. REMARKS | | | |
| <u>PRODUCT = 93700</u> | | | |
| <u>SF INSTALLED TODAY = 13,905 secondary</u> | | | |
| <u>SF INSTALLED TO DATE = 508,065</u> | | | |
| INSPECTOR <u><i>[Signature]</i></u> ¹⁰⁻²⁶⁻⁹² DATE <u>10-26-92</u> | | | |
| REVIEWED BY <u>John H. Fox (Geologist)</u> DATE <u>10-27-92</u> | | | |

GEOTEXTILE

FORM A-12
SHEET 1 OF 1
INSPECTION DATE 10-27-92

| MATERIAL | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|--------------------------|
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FINAL IN-PLACE LOCATION OF GEOTEXTILE COMPLIES WITH CONTRACT DRAWING. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - INSTALLATION INCLUDING SEAMS, IS PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 INSPECTION OF OVERLAPS AND SECURING METHODS AT 25' SPACING ALONG SEAM OR ONCE PER PIECE. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - 1 SEAM STRENGTH TEST FOR EVERY 2500 FEET LENGTH OF SEAM. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. GEOTEXTILE LOCATION (APPROXIMATE) | | | |
| 5. REMARKS | | | |
| <p>PRODUCT = <u>TS 1000 2,000² in channel</u> <u>TS 700 20,057</u> <u>12,510 primary; 7557 secondary</u> SF INSTALLED TODAY = <u>20,057 TS 700; 2000² TS 1000</u> SF INSTALLED TO DATE = <u>528,122²</u></p> | | | |
| INSPECTOR <u>Chris B. [Signature]</u> | DATE <u>10-27-92</u> | | |
| REVIEWED BY <u>John H. Fox (Hedgcock)</u> | DATE <u>10-28-92</u> | | |

J.D. 10-27-92

OTEXTILE

FORM A-12
SHEET 1 OF 1
INSPECTION DATE 10-28-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FINAL IN-PLACE LOCATION OF GEOTEXTILE COMPLIES WITH CONTRACT DRAWING. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - INSTALLATION INCLUDING SEAMS, IS PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 INSPECTION OF OVERLAPS AND SECURING METHODS AT 25' SPACING ALONG SEAM OR ONCE PER PIECE. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - 1 SEAM STRENGTH TEST FOR EVERY 2500 FEET LENGTH OF SEAM. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. GEOTEXTILE LOCATION (APPROXIMATE) | | | |
| <u>N.E. side of Curve</u> | | | |
| 5. REMARKS | | | |
| <u>SMOOTHED RUT IN GAS JET STONE AS PER REQUEST BY GEDSYNTEL</u> | | | |
| PRODUCT = <u>93700</u> | | | |
| SF INSTALLED TODAY = <u>9225</u> | | | |
| SF INSTALLED TO DATE = <u>537351</u> | | | |

10-28-92 f. 12

INSPECTOR Chris Bate DATE 10-28-92

REVIEWED BY John H. Fox 10-29-92 DATE 10-29-92

GEOTEXTILE

FORM A-12
SHEET 1 OF 1
INSPECTION DATE 10-29-92

| | ACCEPT | REJECT | N/A |
|--|----------|---------------|---------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | <u>✓</u> | <u> </u> | <u> </u> |
| - FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE. | <u>✓</u> | <u> </u> | <u> </u> |
| 2. PLACEMENT | | | |
| - SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS. | <u>✓</u> | <u> </u> | <u> </u> |
| - FINAL IN-PLACE LOCATION OF GEOTEXTILE COMPLIES WITH CONTRACT DRAWING. | <u>✓</u> | <u> </u> | <u> </u> |
| - INSTALLATION INCLUDING SEAMS, IS PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION. | <u>✓</u> | <u> </u> | <u> </u> |
| 3. VERIFICATION TESTING | | | |
| - 1 INSPECTION OF OVERLAPS AND SECURING METHODS AT 25' SPACING ALONG SEAM OR ONCE PER PIECE. | <u>✓</u> | <u> </u> | <u> </u> |
| - 1 SEAM STRENGTH TEST FOR EVERY 2500 FEET LENGTH OF SEAM. | <u>✓</u> | <u> </u> | <u> </u> |

4. GEOTEXTILE LOCATION (APPROXIMATE)
To stone stockpile

5. REMARKS None

PRODUCT = TS 700
SF INSTALLED TODAY = 77,420² primary and 5,400² secondary
SF INSTALLED TO DATE = 614,771²

10-29-92 2. P.

INSPECTOR Chris Bady DATE 10-29-92
REVIEWED BY John L. Fox (Geosyntec) DATE 10-30-92

GEOTEXTILE

FORM A-12
SHEET 1 OF 1
INSPECTION DATE 10-30-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FINAL IN-PLACE LOCATION OF GEOTEXTILE COMPLIES WITH CONTRACT DRAWING. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - INSTALLATION INCLUDING SEAMS, IS PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 INSPECTION OF OVERLAPS AND SECURING METHODS AT 25' SPACING ALONG SEAM OR ONCE PER PIECE. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - 1 SEAM STRENGTH TEST FOR EVERY 2500 FEET LENGTH OF SEAM. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. GEOTEXTILE LOCATION (APPROXIMATE) | | | |
| <u>NORTH END SECONDARY & PRIMARY</u> | | | |
| 5. REMARKS <u>NONE</u> | | | |
| <u>RESULTS OF GEOTEXTILE SEAM STRENGTH TEST RESULTS ATTACHED FOR # 7-13</u> | | | |
| <u>PRODUCT = TS 700</u> | | | |
| <u>SF INSTALLED TODAY = 32,355' 30,000' PRIMARY 2355' SECONDARY</u> | | | |
| <u>SF INSTALLED TO DATE = 647,126'</u> | | | |
| <u>11-1-92 Jm.</u> | | | |
| INSPECTOR <u>Chris B. [Signature]</u> | | DATE <u>11-2-92</u> | |
| REVIEWED BY <u>John D. [Signature] (Geologist)</u> | | DATE <u>11-2-92</u> | |

GEOTEXTILE

FORM A-12
SHEET 1 OF 1
INSPECTION DATE 10-31-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FINAL IN-PLACE LOCATION OF GEOTEXTILE COMPLIES WITH CONTRACT DRAWING. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - INSTALLATION INCLUDING SEAMS, IS PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 INSPECTION OF OVERLAPS AND SECURING METHODS AT 25' SPACING ALONG SEAM OR ONCE PER PIECE. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - 1 SEAM STRENGTH TEST FOR EVERY 2500 FEET LENGTH OF SEAM. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. GEOTEXTILE LOCATION (APPROXIMATE) | | | |
| <u>N END SECONDARY</u> | | | |
| 5. REMARKS <u>NONE</u> | | | |
| PRODUCT = <u>TS 200</u> | | | |
| SF INSTALLED TODAY = <u>4500</u> | | | |
| SF INSTALLED TO DATE = <u>4500 651,26</u> | | | |
| INSPECTOR <u>Chris Bell</u> | | DATE <u>11-2-92</u> | |
| REVIEWED BY <u>John L. Lee (Volunteer)</u> | | DATE <u>11-2-92</u> | |

OTEXTILE

FORM A-12
SHEET 1 OF 1
INSPECTION DATE 11-1-92

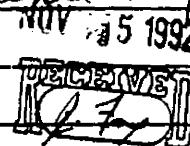
| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FINAL IN-PLACE LOCATION OF GEOTEXTILE COMPLIES WITH CONTRACT DRAWING. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - INSTALLATION INCLUDING SEAMS, IS PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 INSPECTION OF OVERLAPS AND SECURING METHODS AT 25' SPACING ALONG SEAM OR ONCE PER PIECE. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - 1 SEAM STRENGTH TEST FOR EVERY 2500 FEET LENGTH OF SEAM. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. GEOTEXTILE LOCATION (APPROXIMATE) | | | |
| <u>CHANNEL</u> | | | |
| 5. REMARKS <u>R. R. SHEET IN NORTH CHANNEL</u> | | | |
| PRODUCT = <u>TS 1000</u> | | | |
| SF INSTALLED TODAY = <u>1000 SF</u> | | | |
| SF INSTALLED TO DATE = <u>12500 SF</u> | | | |
| INSPECTOR <u>Chris Bate</u> | | DATE <u>11-2-92</u> | |
| REVIEWED BY <u>John H. For (Holysta)</u> | | DATE <u>11-2-92</u> | |

GEOTEXTILE

FORM A-12
SHEET 1 OF 1
INSPECTION DATE 11-4-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FINAL IN-PLACE LOCATION OF GEOTEXTILE COMPLIES WITH CONTRACT DRAWING. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - INSTALLATION INCLUDING SEAMS, IS PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 INSPECTION OF OVERLAPS AND SECURING METHODS AT 25' SPACING ALONG SEAM OR ONCE PER PIECE. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - 1 SEAM STRENGTH TEST FOR EVERY 2500 FEET LENGTH OF SEAM. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. GEOTEXTILE LOCATION (APPROXIMATE) | | | |
| <u>North slope up to "X" LINE & EAST of g/s 900</u> | | | |
| 5. REMARKS <u>None</u> | | | |

PRODUCT = 18,000² TS FOR secondary
SF INSTALLED TODAY = 18,000²
SF INSTALLED TO DATE = 334,902²



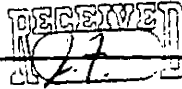
11-4-92 J. P.

INSPECTOR [Signature] DATE 11-4-92
REVIEWED BY [Signature] (Geolyte) DATE 11-5-92

NOV 6 1992

FORM A-12
SHEET 1 OF 1
INSPECTION DATE 11-5-92

GEOTEXTILE



ACCEPT REJECT N/A

1. MATERIAL

- MANUFACTURER'S MILL CERTIFICATE OR
AFFIDAVIT HAS BEEN PROVIDED.

☒☐☐

- FREE FROM DEFECTS, RIPS, HOLES,
FLAWS, DETERIORATION OR DAMAGE.

☒☐☐

2. PLACEMENT

- SURFACES TO RECEIVE GEOTEXTILE
ARE FREE OF DEBRIS.

☒☐☐

- FINAL IN-PLACE LOCATION OF
GEOTEXTILE COMPLIES WITH CONTRACT
DRAWING.

☒☐☐

- INSTALLATION INCLUDING SEAMS,
IS PERFORMED IN ACCORDANCE WITH
MANUFACTURER'S RECOMMENDATION.

☒☐☐

3. VERIFICATION TESTING

- 1 INSPECTION OF OVERLAPS AND
SECURING METHODS AT 25' SPACING
ALONG SEAM OR ONCE PER PIECE.

☒☐☐

- 1 SEAM STRENGTH TEST FOR EVERY
2500 FEET LENGTH OF SEAM.

☒☐☐

4. GEOTEXTILE LOCATION (APPROXIMATE)

West of subgrade

5. REMARKS

None

PRODUCT = TS 700

SF INSTALLED TODAY = 6120² ~~seam~~ standing

SF INSTALLED TO DATE = 323,012²

INSPECTOR

11-5-92 J.D.
Chris B.

DATE 11-5-92

REVIEWED BY

John H. Fox (Geograde)

DATE 11-10-92

NOV 27 1992



FORM A-12
SHEET 1 OF 1
INSPECTION DATE 11-6-92

GEOTEXTILE

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FINAL IN-PLACE LOCATION OF GEOTEXTILE COMPLIES WITH CONTRACT DRAWING, | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - INSTALLATION INCLUDING SEAMS, IS PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 INSPECTION OF OVERLAPS AND SECURING METHODS AT 25' SPACING ALONG SEAM OR ONCE PER PIECE. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - 1 SEAM STRENGTH TEST FOR EVERY 2500 FEET LENGTH OF SEAM. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. GEOTEXTILE LOCATION (APPROXIMATE) | | | |
| <u>NORTHEAST CORNER, EAST OF 0/5 900 & ON CENTER OF C&A UP TO PEAK &</u> | | | |
| 5. REMARKS <u>None</u> | | | |
| PRODUCT = <u>TS 700 TS 700</u> | | | |
| SF INSTALLED TODAY = <u>64,000 SF</u> | | | |
| SF INSTALLED TO DATE = <u>739,746 SF</u> (406,641 SF 333,105 SF) (SECONDARY + PRIMARY) | | | |
| INSPECTOR <u>Chris B...</u> | | DATE <u>11-6-92</u> | |
| REVIEWED BY <u>John H. Fox (Geolyte)</u> | | DATE <u>11-10-92</u> | |

NOV 8 1992



FORM A-12
SHEET 1 OF 1
INSPECTION DATE 11-7-92

TEXTILE

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FINAL IN-PLACE LOCATION OF GEOTEXTILE COMPLIES WITH CONTRACT DRAWING. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - INSTALLATION INCLUDING SEAMS, IS PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 INSPECTION OF OVERLAPS AND SECURING METHODS AT 25' SPACING ALONG SEAM OR ONCE PER PIECE. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - 1 SEAM STRENGTH TEST FOR EVERY 2500 FEET LENGTH OF SEAM. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. GEOTEXTILE LOCATION (APPROXIMATE) | | | |
| <u>NORTH SURF BETWEEN 0/5 750 & 0/5 900 & BETWEEN "X" GRID & EDGE OF STONE</u> | | | |
| 5. REMARKS | | | |
| <u>GEOTEXTILE WAS OVERLAPPED 2' WITH PREVIOUSLY PLACED GEOTEXTILE BECAUSE IT WAS FROZEN & COULD NOT BE STITCHED. OK'D W/ R. NORTA.</u> | | | |
| <u>PRODUCT = SECONDARY TS 700</u> | | | |
| <u>SF INSTALLED TODAY = 24,750 SF</u> | | | |
| <u>SF INSTALLED TO DATE = 764,496 SF (431,391 SF SECONDARY + 333,105 SF PRIMARY)</u> | | | |
| INSPECTOR | <u>Chris Burt</u> | | DATE <u>11-7-92</u> |
| REVIEWED BY | <u>John H. Fox (Geologist)</u> | | DATE <u>11-10-92</u> |

GEOTEXTILE

FORM A-12
SHEET 1 OF 1
INSPECTION DATE 11-11-92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|-------------------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FINAL IN-PLACE LOCATION OF GEOTEXTILE COMPLIES WITH CONTRACT DRAWING, | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - INSTALLATION INCLUDING SEAMS, IS PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 INSPECTION OF OVERLAPS AND SECURING METHODS AT 25' SPACING ALONG SEAM OR ONCE PER PIECE. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - 1 SEAM STRENGTH TEST FOR EVERY 2500 FEET LENGTH OF SEAM. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. GEOTEXTILE LOCATION (APPROXIMATE) | | | |
| <u>North end (ELA Primary Secondary)</u> | | | |
| 5. REMARKS <u>DEPLOYED ON WEST SIDE OF NORTH DOCK</u> | | | |
| PRODUCT = <u>TS 700</u> | | | |
| SF INSTALLED TODAY = <u>15,180 SF</u> <u>JAN 11-11-92</u> | | | |
| SF INSTALLED TO DATE = <u>779,676 SF</u> (<u>SECONDARY 446,571.51</u> + <u>PRIMARY 333,105</u>) | | | |
| <div data-bbox="1115 1808 1300 1895" data-label="Text"> <p>RECEIVED C.F.</p> </div> | | | |
| INSPECTOR <u>Chris Bate</u> | | NOV 12 1992 DATE <u>11-11-92</u> | |
| REVIEWED BY <u>John H. Fox (Geolytic)</u> | | DATE <u>11-12-92</u> | |

GEOTEXTILE

FORM A-12

SHEET 1 OF 1

INSPECTION DATE 11-15-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FINAL IN-PLACE LOCATION OF GEOTEXTILE COMPLIES WITH CONTRACT DRAWING, | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - INSTALLATION INCLUDING SEAMS, IS PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 INSPECTION OF OVERLAPS AND SECURING METHODS AT 25' SPACING ALONG SEAM OR ONCE PER PIECE. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - 1 SEAM STRENGTH TEST FOR EVERY 2500 FEET LENGTH OF SEAM. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. GEOTEXTILE LOCATION (APPROXIMATE) | | | |
| <u>BETWEEN PEAKS 3 & 4</u> | | | |
| 5. REMARKS | | | |
| <u>PLACED PRIMARY TS 700 AT ABOVE LOCATIONS</u> | | | |
| <u>WITH APPROVAL OF J. FOX</u> | | | |
| PRODUCT = <u>TS 700 (PRIMARY)</u> | | | |
| SF INSTALLED TODAY = <u>99,900 SF</u> | | | |
| SF INSTALLED TO DATE = <u>879,576 SF</u> | | | |



NOV 16 1992

INSPECTOR Chris Bailey DATE 11-16-92
 REVIEWED BY _____ DATE _____

GEOTEXTILE

FORM A-12

SHEET 1 OF 1
INSPECTION DATE 11-17-92

1. MATERIAL

- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.

ACCEPT REJECT N/A

- FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE.

2. PLACEMENT

- SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS.

- FINAL IN-PLACE LOCATION OF GEOTEXTILE COMPLIES WITH CONTRACT DRAWING,

- INSTALLATION INCLUDING SEAMS, IS PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.

3. VERIFICATION TESTING

- 1 INSPECTION OF OVERLAPS AND SECURING METHODS AT 25' SPACING ALONG SEAM OR ONCE PER PIECE.

- 1 SEAM STRENGTH TEST FOR EVERY 2500 FEET LENGTH OF SEAM.

4. GEOTEXTILE LOCATION (APPROXIMATE)

5. REMARKS SECONDARY TS700 NORTH CELA - FROM 0/5 500 -

0/5 750 - AREA APPROVED BY J. FOX OF CDSYNTEC

PRODUCT = TS 700

SF INSTALLED TODAY = 33000 SF SECONDARY

SF-INSTALLED TO DATE = 912,576 SF (SECONDARY 479,571 + PRIMARY 433,005)

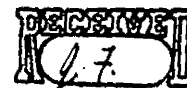
INSPECTOR

DATE 11-17-92

REVIEWED BY

DATE 11-18-92

NOV 18 1992



GEOTEXTILE

FORM A-12
SHEET 1 OF 1
INSPECTION DATE 11-18-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|----------------------|-----|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | <input checked="" type="checkbox"/> | | |
| - FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE. | <input checked="" type="checkbox"/> | | |
| 2. PLACEMENT | | | |
| - SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS. | <input checked="" type="checkbox"/> | | |
| - FINAL IN-PLACE LOCATION OF GEOTEXTILE COMPLIES WITH CONTRACT DRAWING, | <input checked="" type="checkbox"/> | | |
| - INSTALLATION INCLUDING SEAMS, IS PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION. | <input checked="" type="checkbox"/> | | |
| 3. VERIFICATION TESTING | | | |
| - 1 INSPECTION OF OVERLAPS AND SECURING METHODS AT 25' SPACING ALONG SEAM OR ONCE PER PIECE. | <input checked="" type="checkbox"/> | | |
| - 1 SEAM STRENGTH TEST FOR EVERY 2500 FEET LENGTH OF SEAM. | <input checked="" type="checkbox"/> | | |
| 4. GEOTEXTILE LOCATION (APPROXIMATE) | | | |
| <u>PLACED SECONDARY GEOTEXTILE ON NORTH SLOPE AS APPROVED BY J. Fox of GEOSYNTEC</u> | | | |
| 5. REMARKS | | | |
| <u>INSTALLED BOTH TS 700 & TS 1000 AS THE SECONDARY GEOTEXTILE - THIS OK'D BY R. WORTH OF GEOSYNTEC</u> | | | |
| <u>PRODUCT = TS 1000 & TS 700 - BOTH INSTALLED AS SECONDARY GEOTEXTILE</u> | | | |
| <u>SE INSTALLED TODAY = TS 700 - 3,600 SF TS 1000 - 3,000 SF</u> | | | |
| <u>SE INSTALLED TO DATE = 15,500 SF TS 1000 916,176 TS 700</u> | | | |
| NOV 19 1992 | | | |
| <div style="border: 1px solid black; padding: 5px; display: inline-block;"> RECEIVED J.F. </div> | | | |
| INSPECTOR <u>Chris Gault</u> | | DATE <u>11-18-92</u> | |
| REVIEWED BY <u>John H. Fox (Geosyntec)</u> | | DATE <u>11-19-92</u> | |

NOV 21 1992

FORM A-12

SHEET 1 OF 1

INSPECTION DATE 11-20-92

GEOTEXTILE



ACCEPT REJECT N/A

1. MATERIAL

- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.

✓

- FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE.

✓

2. PLACEMENT

- SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS.

✓

- FINAL IN-PLACE LOCATION OF GEOTEXTILE COMPLIES WITH CONTRACT DRAWING,

✓

- INSTALLATION INCLUDING SEAMS, IS PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.

✓

.. VERIFICATION TESTING

- 1 INSPECTION OF OVERLAPS AND SECURING METHODS AT 25' SPACING ALONG SEAM OR ONCE PER PIECE.

✓

- 1 SEAM STRENGTH TEST FOR EVERY 2500 FEET LENGTH OF SEAM.

✓

4. GEOTEXTILE LOCATION (APPROXIMATE)

TS 700 10800' WEST SIDE PRIMARY
TS 1000 3000' NORTH CHANNEL

5. REMARKS

None Required

JHM 11-20

PRODUCT = TS 700 / TS 1000

SE INSTALLED TODAY = TS 700 10800' TS 1000 3000'

SE INSTALLED TO DATE = 926976' TS 700 ~~10800'~~ TS 1000 19,700'

INSPECTOR

Chris Baily

DATE 11-20-92

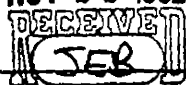
REVIEWED BY

Frederick Bando

DATE 11/21/92

GEOTEXTILE

NOV 22 1992



FORM A-12

SHEET 1 OF 1
INSPECTION DATE 11-21

ACCEPT REJECT N/A

1. MATERIAL

- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.

✓

- FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE.

✓

2. PLACEMENT

- SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS.

✓

- FINAL IN-PLACE LOCATION OF GEOTEXTILE COMPLIES WITH CONTRACT DRAWING,

✓

- INSTALLATION INCLUDING SEAMS, IS PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.

✓

3. VERIFICATION TESTING

- 1 INSPECTION OF OVERLAPS AND SECURING METHODS AT 25' SPACING ALONG SEAM OR ONCE PER PIECE.

✓

- 1 SEAM STRENGTH TEST FOR EVERY 2500 FEET LENGTH OF SEAM.

✓

4. GEOTEXTILE LOCATION (APPROXIMATE)

NORTHWEST CORNER OF SITE & NORTH SLOPE

5. REMARKS SECONDARY GEOTEXTILE LAYER COMPLETED TODAY

17,100 Secondary
PRODUCT = TS 700 93,150 Primary TS 1000 15,200

SF INSTALLED TODAY = 110,250 TS 700 15,200 TS 1000

SF INSTALLED TO DATE = 1,037,226 SF (TS 700) 34,900 SF (TS 1000)

INSPECTOR

Chris Barty

DATE 11-21-92

REVIEWED BY

Jonathan Brando

DATE 11/20/92

DEC 01 1992

FORM A-12

SHEET 1 OF 1
INSPECTION DATE 11-30-92

GEOTEXTILE



ACCEPT REJECT N/A

1. MATERIAL

- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.

 ✓

- FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE.

 ✓

2. PLACEMENT

- SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS.

 ✓

- FINAL IN-PLACE LOCATION OF GEOTEXTILE COMPLIES WITH CONTRACT DRAWING.

 ✓

- INSTALLATION INCLUDING SEAMS, IS PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.

 ✓

VERIFICATION TESTING

- 1 INSPECTION OF OVERLAPS AND SECURING METHODS AT 25' SPACING ALONG SEAM OR ONCE PER PIECE.

 ✓

- 1 SEAM STRENGTH TEST FOR EVERY 2500 FEET LENGTH OF SEAM.

 ✓

4. GEOTEXTILE LOCATION (APPROXIMATE)

N/A - NO GEOTEXTILE PLACED TODAY5. REMARKS RESULTS OF DESTRUCTIVE TESTS 14-19 AREATTACHED.PRODUCT = T3 700SF INSTALLED TODAY = 0SF INSTALLED TO DATE = 1,037,226 SFINSPECTOR Chris Bate DATE 11-30-92REVIEWED BY Jonathan Brandes DATE 12/1/92

GEOTEXTILE

DEC 02 1992



FORM A-12

SHEET 1 OF 1
INSPECTION DATE 12/1/92

1. MATERIAL

- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.

ACCEPT REJECT N/A

☒ ☐ ☐

- FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE.

☒ ☐ ☐

2. PLACEMENT

- SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS.

☒ ☐ ☐

- FINAL IN-PLACE LOCATION OF GEOTEXTILE COMPLIES WITH CONTRACT DRAWING.

☒ ☐ ☐

- INSTALLATION INCLUDING SEAMS, IS PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.

☒ ☐ ☐

3. VERIFICATION TESTING

- 1 INSPECTION OF OVERLAPS AND SECURING METHODS AT 25' SPACING ALONG SEAM OR ONCE PER PIECE.

☒ ☐ ☐

- 1 SEAM STRENGTH TEST FOR EVERY 2500 FEET LENGTH OF SEAM.

☒ ☐ ☐

4. GEOTEXTILE LOCATION (APPROXIMATE)

NW CORNER

5. REMARKS

NONE

PRODUCT = TS 1000 & TS 700

SF INSTALLED TODAY = 32,400 SF (5,400 SF ^{TS 700} + 27,000 SF ^{TS 1000})

SF INSTALLED TO DATE = 1,087,826 ~~826~~ SF

INSPECTOR

Chris R. [Signature]

DATE 12-1-92

REVIEWED BY

Jonathan Brandes

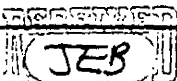
DATE 12/3/92

GEOTEXTILE

DEC 03 1992

FORM A-12

SHEET 1 OF 12/2/92
INSPECTION DATE



| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|--------------------------|
| MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FINAL IN-PLACE LOCATION OF GEOTEXTILE COMPLIES WITH CONTRACT DRAWING. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - INSTALLATION INCLUDING SEAMS, IS PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 INSPECTION OF OVERLAPS AND SECURING METHODS AT 25' SPACING ALONG SEAM OR ONCE PER PIECE. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - 1 SEAM STRENGTH TEST FOR EVERY 2500 FEET LENGTH OF SEAM. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. GEOTEXTILE LOCATION (APPROXIMATE) | | | |
| <u>NORTHWEST CORNER</u> | | | |
| 5. REMARKS <u>INSTALLING TS1000 AS PRIMARY GEOTEXTILE - OVERLAPPING</u> | | | |
| <u>NOT STITCHING MATERIAL - RESULTS OF DESTUCTIVE TESTS 20-25 ARE</u> <u>ATTACHED</u> | | | |
| PRODUCT = <u>TS 1000</u> | | | |
| SF INSTALLED TODAY = <u>21,000 SF</u> | | | |
| SF INSTALLED TO DATE = <u>1103,426 SF</u> | | | |
| INSPECTOR <u>Charles A. [Signature]</u> DATE <u>12-2-92</u> | | | |
| REVIEWED BY <u>Jonathan Brandes</u> DATE <u>12/3/92</u> | | | |

SC

GEOTEXTILE

DEC 04 1992



FORM A-12

SHEET 1 OF 1
INSPECTION DATE 12/3/92

1. MATERIAL

- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.

ACCEPT

REJECT

N/A

- FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE.

2. PLACEMENT

- SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS.

- FINAL IN-PLACE LOCATION OF GEOTEXTILE COMPLIES WITH CONTRACT DRAWING.

- INSTALLATION INCLUDING SEAMS, IS PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.

3. VERIFICATION TESTING

- 1 INSPECTION OF OVERLAPS AND SECURING METHODS AT 25' SPACING ALONG SEAM OR ONCE PER PIECE.

- 1 SEAM STRENGTH TEST FOR EVERY 2500 FEET LENGTH OF SEAM.

4. GEOTEXTILE LOCATION (APPROXIMATE)

Northwest corner

5. REMARKS

INSTALLING TS 1000 AS PRIMARY GEOTEXTILE IN

AREA PREVIOUSLY APPROVED BY GEDSYNTEL

PRODUCT = TS 1000

SF INSTALLED TODAY = 7,500 SF

SF INSTALLED TO DATE = 1098,126 SF

INSPECTOR

Chris B...

DATE 12-3-92

REVIEWED BY

Jonathan Brancos

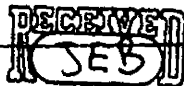
DATE 12/4/92

DEC 07 1992

FORM A-12

SHEET 1 OF 1INSPECTION DATE 12/4/92

GEOTEXTILE



| | ACCEPT | REJECT | N/A |
|--|----------|---------------------|---------------|
| MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | <u>✓</u> | <u> </u> | <u> </u> |
| - FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE. | <u>✓</u> | <u> </u> | <u> </u> |
| 2. PLACEMENT | | | |
| - SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS. | <u>✓</u> | <u> </u> | <u> </u> |
| - FINAL IN-PLACE LOCATION OF GEOTEXTILE COMPLIES WITH CONTRACT DRAWING. | <u>✓</u> | <u> </u> | <u> </u> |
| - INSTALLATION INCLUDING SEAMS, IS PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION. | <u>✓</u> | <u> </u> | <u> </u> |
| 3. VERIFICATION TESTING | | | |
| - 1 INSPECTION OF OVERLAPS AND SECURING METHODS AT 25' SPACING ALONG SEAM OR ONCE PER PIECE. | <u>✓</u> | <u> </u> | <u> </u> |
| - 1 SEAM STRENGTH TEST FOR EVERY 2500 FEET LENGTH OF SEAM. | <u>✓</u> | <u> </u> | <u> </u> |
| 4. GEOTEXTILE LOCATION (APPROXIMATE) | | | |
| <u>NORTHWEST CORNER, NEAR NORTHERN HAUL ROAD INTO CEM.</u> | | | |
| 5. REMARKS | | | |
| <u>COMPLETED PRIMARY GEOTEXTILE TIGHT USING</u> | | | |
| <u>T31000, OVERLAPPED NOT STITCHED</u> | | | |
| PRODUCT = <u>T3 1000</u> | | | |
| SF INSTALLED TODAY = <u>27,000 SF</u> | | | |
| SF INSTALLED TO DATE = <u>1,143,326 SF*</u> * CORRECTED FROM 12-3 | | | |
| <u>TOTAL</u> | | | |
| INSPECTOR <u>Chris. [Signature]</u> | | DATE <u>12-1-92</u> | |
| REVIEWED BY <u>Jonathan Brancos</u> | | DATE <u>12/1/92</u> | |

GEOTEXTILE

JUN 02 1993

FORM A-12

SHEET _____ OF _____

INSPECTION DATE 5-27-93

RECEIVED
JEB

1. MATERIAL

- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.

ACCEPT

REJECT

N/A

✓

- FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE.

✓

2. PLACEMENT

- SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS.

✓

- FINAL IN-PLACE LOCATION OF GEOTEXTILE COMPLIES WITH CONTRACT DRAWING.

✓

- INSTALLATION INCLUDING SEAMS, IS PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.

✓

3. VERIFICATION TESTING

- 1 INSPECTION OF OVERLAPS AND SECURING METHODS AT 25' SPACING ALONG SEAM OR ONCE PER PIECE.

✓

- 1 SEAM STRENGTH TEST FOR EVERY 2500 FEET LENGTH OF SEAM.

✓

4. GEOTEXTILE LOCATION (APPROXIMATE)

5. REMARKS

PRODUCT = TS 1000

SF INSTALLED TODAY = 10,000

SF INSTALLED TO DATE =

INSPECTOR

Ja Martin

DATE 6-1-93

REVIEWED BY

Jonathan Braneles

DATE 6/2/93

JUN 02 1993

FORM A-12

SHEET _____ OF _____

INSPECTION DATE 5-28-93

GEOTEXTILE



| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FINAL IN-PLACE LOCATION OF GEOTEXTILE COMPLIES WITH CONTRACT DRAWING. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - INSTALLATION INCLUDING SEAMS, IS PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 INSPECTION OF OVERLAPS AND SECURING METHODS AT 25' SPACING ALONG SEAM OR ONCE PER PIECE. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - 1 SEAM STRENGTH TEST FOR EVERY 2500 FEET LENGTH OF SEAM. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. GEOTEXTILE LOCATION (APPROXIMATE) | | | |
| 5. REMARKS | | | |
| PRODUCT = <u>TS 1000</u> 3 Channels on <u>CELA</u> | | | |
| SF INSTALLED TODAY = <u>5,000²</u> | | | |
| SF INSTALLED TO DATE = _____ | | | |
| INSPECTOR <u>JA Martin</u> DATE <u>6-1-93</u> | | | |
| REVIEWED BY <u>Jonathan Bravels</u> DATE <u>6/2/93</u> | | | |

JUN 05 1997



FORM A-12

SHEET 1 OF 1

INSPECTION DATE: 6/11/97

TEXTILE

1. MATERIAL

- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.

- FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE.

2. PLACEMENT

- SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS.

- EQUAL IN-PLACE LOCATION OF GEOTEXTILE COMPLIES WITH CONTRACT DRAWING.

- INSTALLATION INCLUDING SEAMS, IS PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.

VERIFICATION TESTING

- 1 INSPECTION OF OVERLAPS AND SECURING METHODS AT 25' SPACING ALONG SEAM OR ONCE PER PIECE.

- 1 SEAM STRENGTH TEST FOR EVERY 100 FEET LENGTH OF SEAM.

4. GEOTEXTILE LOCATION (APPROXIMATE)

NORTH CHANNEL

5. REMARKS

PRODUCT TS-1000

SE INSTALLED TODAY = 18,000 SF

SE INSTALLED TO DATE = 33,000 SF

INSPECTOR

Joseph S. Colantonio

DATE

6/11/97

REVIEWED BY

Jonathan Brandes

DATE

6/11/97

JUN 05 1993



FORM A-12
SHEET 1 OF 1
INSPECTION DATE 6/5/93

C TEXTILE

1. MATERIAL

- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.

- FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE.

2. PLACEMENT

- SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS.

- FINAL IN-PLACE LOCATION OF GEOTEXTILE COMPLIES WITH CONTRACT DRAWING.

- INSTALLATION INCLUDING SEAMS, IS PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.

VERIFICATION TESTING

- 1 INSPECTION OF OVERLAPS AND SECURING METHODS AT 25' SPACING ALONG SEAM OR ONCE PER PIECE.

- 1 SEAM STRENGTH TEST FOR EVERY 500 FEET LENGTH OF SEAM.

4. GEOTEXTILE LOCATION (APPROXIMATE)

EAST Primary Channel

5. REMARKS

PRODUCT TS-1000

SE INSTALLED TODAY = 18,000SF

SE INSTALLED TO DATE = 51,000SF

INSPECTOR

REVIEWED BY

DATE

DATE

TEXTILE

JUN 05 1993



FORM A-12

SHEET 1 OF 1

INSPECTION DATE

6/3/93

1. MATERIAL

- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.

ACCEPT

REJECT

N/A

✓

- FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE.

✓

2. PLACEMENT

- SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS.

✓

- FINAL IN-PLACE LOCATION OF GEOTEXTILE COMPLIES WITH CONTRACT DRAWING.

✓

- INSTALLATION INCLUDING SEAMS, IS PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.

✓

VERIFICATION TESTING

- 1 INSPECTION OF OVERLAPS AND SECURING METHODS AT 25' SPACING ALONG SEAM OR ONCE PER PIECE.

✓

- 1 SEAM STRENGTH TEST FOR EVERY 2500 FEET LENGTH OF SEAM.

✓

4. GEOTEXTILE LOCATION (APPROXIMATE)

South Primary Channel

5. REMARKS

PRODUCT TS-1000

FE INSTALLED TODAY = 18,000 SF

FE INSTALLED TO DATE = 69,000 SF

INSPECTOR

Joseph J. Calhoun

DATE 6/5/93

REVIEWED BY

Jonathan Beaneles

DATE 6/8/93

JUN 05 1993



FORM A-12

SHEET 1 OF 1

INSPECTION DATE 6/5/93

TEXTILE

ACCEPT

REJECT

N/A

1. MATERIAL

- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.

✓

- FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE.

✓

2. PLACEMENT

- SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS.

✓

- FINAL IN-PLACE LOCATION OF GEOTEXTILE COMPLIES WITH CONTRACT DRAWING.

✓

- INSTALLATION INCLUDING SEAMS, IS PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.

✓

VERIFICATION TESTING

- 1 INSPECTION OF OVERLAPS AND SECURING METHODS AT 25' SPACING ALONG SEAM OR ONCE PER PIECE.

✓

- 1 SEAM STRENGTH TEST FOR EVERY 2500 FEET LENGTH OF SEAM.

✓

4. GEOTEXTILE LOCATION (APPROXIMATE)

West Primary Channel

5. REMARKS

PRODUCT - TS-1000

SF INSTALLED TODAY = 15,000 SF

SF INSTALLED TO DATE = 84,000 SF

INSPECTOR

Joseph J. Calabrese

DATE

6/5/93

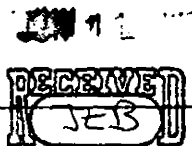
REVIEWED BY

Jonathan Brandes

DATE

6/5/93

GEOTEXTILE



FORM A-12,
SHEET 1 OF 1
INSPECTION DATE 6/10/93

1. MATERIAL

- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. (ATTACH COPY).

ACCEPT REJECT N/A

☒ ☐ ☐

- FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE.

☒ ☐ ☐

2. PLACEMENT

- SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS.
- FINAL IN-PLACE LOCATION OF GEOTEXTILE COMPLIES WITH CONTRACT DRAWING.
- INSTALLATION INCLUDING SEAMS, IS PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.

☒ ☐ ☐

☐ ☐ ☒

☒ ☐ ☐

3. VERIFICATION TESTING

- 1 INSPECTION OF OVERLAPS AND SECURING METHODS AT 25' SPACING ALONG SEAM OR ONCE PER PIECE.
- 1 SEAM STRENGTH TEST FOR EVERY 2500 FEET LENGTH OF SEAM.

☐ ☐ ☒

☐ ☐ ☒

4. GEOTEXTILE LOCATION (APPROXIMATE)

Combined Channel (no dwg. to locate placement)

5. REMARKS Roger North, John Brandie and myself came to an agreement on how to lay out this combined channel. All seams were stitched; AAA anchor track was placed and FS-1000 was used as underlayment of bedding, stone and rip rap.

INSPECTOR

Joseph J. Colaninno

DATE

6/10/93

REVIEWED BY

Jonathan Brumley

DATE

6/14/93

BEDDING

MAY 28 1993

FORM A-13
SHEET 1 OF 1
INSPECTION DATE 5/27/93

1. MATERIAL

- BEDDING MATERIAL OBTAINED FROM QUARRY ACCEPTED BY CONSTRUCTION MANAGER.
- FREE FROM SOFT, NON-DURABLE PARTICLES, ORGANIC MATERIALS AND THIN OR ELONGATED PARTICLES.
- MATERIALS COMPLY WITH GRADATION REQUIREMENTS.

ACCEPT

REJECT

N/A

☒☐☐☒☐☐☒☐☐

2. PLACEMENT

FINAL IN-PLACE LOCATION AND THICKNESS OF BEDDING IS AS SHOWN ON CONTRACT DRAWINGS.

☒☐☐

3. DUST CONTROL

ACTION TAKEN

ONSITE WATER TRUCK used TO
CONTROL DUST

4. BEDDING LOCATION

SWALES ON CELA

5. REMARKS

STARTED THIS ACTIVITY LATE AFTERNOON IN
STOCK PILE MOST OF IMPORTED Bedding STONE on-site
360-92 TON

INSPECTOR

Joseph A. Colaninno

DATE 5/27/93

REVIEWED BY

Jonathan Branch

DATE 5/28/93

BEDDING

MAY 28 1993



FORM A-13

SHEET 1 OF 1

INSPECTION DATE 5/28/93

1. MATERIAL

- BEDDING MATERIAL OBTAINED FROM QUARRY ACCEPTED BY CONSTRUCTION MANAGER.

ACCEPT

REJECT

N/A

✓

- FREE FROM SOFT, NON-DURABLE PARTICLES, ORGANIC MATERIALS AND THIN OR ELONGATED PARTICLES.

✓

- MATERIALS COMPLY WITH GRADATION REQUIREMENTS.

✓

2. PLACEMENT

FINAL IN-PLACE LOCATION AND THICKNESS OF BEDDING IS AS SHOWN ON CONTRACT DRAWINGS.

✓

3. DUST CONTROL

ACTION TAKEN ON SITE WATER TRUCK USED TO WATER ACROSS
ROADS

4. BEDDING LOCATION

SURFACE ON CELA & STOCKPILE

5. REMARKS Imported 180.34 Tons

INSPECTOR

DATE 5/28/93

REVIEWED BY

DATE 5/28/93

BEDDING

JUN 02 1993



FORM A-13

SHEET 1 OF 1

INSPECTION DATE 6/2/93

1. MATERIAL

- BEDDING MATERIAL OBTAINED FROM QUARRY ACCEPTED BY CONSTRUCTION MANAGER.

ACCEPT

REJECT

N/A

☒☐☐

- FREE FROM SOFT, NON-DURABLE PARTICLES, ORGANIC MATERIALS AND THIN OR ELONGATED PARTICLES.

☒☐☐

- MATERIALS COMPLY WITH GRADATION REQUIREMENTS.

☒☐☐

2. PLACEMENT

FINAL IN-PLACE LOCATION AND THICKNESS OF BEDDING IS AS SHOWN ON CONTRACT DRAWINGS.

☒☐☐

3. DUST CONTROL

ACTION TAKEN YES - WATER TRUCK USED ON HAUL ROADS

4. BEDDING LOCATION

SUBS ON CELA; ALSO IN EAST DIKE AREA.

5. REMARKS

INSPECTOR

Joseph D. Colaninno

DATE

6/2/93

REVIEWED BY

Jonathan Bennis

DATE

6/3/93

BEDDING

JUN 03 1993



FORM A-13

SHEET 1 OF 1INSPECTION DATE 6/3/93

1. MATERIAL

- BEDDING MATERIAL OBTAINED FROM QUARRY ACCEPTED BY CONSTRUCTION MANAGER.

ACCEPT

REJECT

N/A

☒☐☐

- FREE FROM SOFT, NON-DURABLE PARTICLES, ORGANIC MATERIALS AND THIN OR ELONGATED PARTICLES.

☒☐☐

- MATERIALS COMPLY WITH GRADATION REQUIREMENTS.

☒☐☐

2. PLACEMENT

FINAL IN-PLACE LOCATION AND THICKNESS OF BEDDING IS AS SHOWN ON CONTRACT DRAWINGS.

☒☐☐

3. DUST CONTROL

ACTION TAKEN Water Truck used on Roadways

4. BEDDING LOCATION

Perimeter Channel

5. REMARKS

273.17 Ton Received To Day 906.66 Ton To Date

INSPECTOR

Joseph L. ColaninnoDATE 6/3/93

REVIEWED BY

Jonathan BrancasDATE 6/4/93

JUN 04 1993



FORM A-13

SHEET 1 OF 1
INSPECTION DATE 6/16/93

BEDDING

ACCEPT REJECT N/A

1. MATERIAL

- BEDDING MATERIAL OBTAINED FROM QUARRY ACCEPTED BY CONSTRUCTION MANAGER.
- FREE FROM SOFT, NON-DURABLE PARTICLES, ORGANIC MATERIALS AND THIN OR ELONGATED PARTICLES.
- MATERIALS COMPLY WITH GRADATION REQUIREMENTS.

✓
✓
✓

2. PLACEMENT

FINAL IN-PLACE LOCATION AND THICKNESS OF BEDDING IS AS SHOWN ON CONTRACT DRAWINGS.

✓

3. DUST CONTROL

ACTION TAKEN WATER TRUCK USED FOR DUST CONTROL

4. BEDDING LOCATION

Placed on the South Primary Channel West Channel

5. REMARKS 4" OF Bedding Stone Being Placed in Primary

Channel & UP Slopes.

INSPECTOR

Joseph J. Colaninno

DATE 6/16/93

REVIEWED BY

Jonathan Branches

DATE 6/16/93

RECEIVED
58

ACCEPT REJECT N/A

· PENDING MATERIAL OBTAINED FROM
QUARRY ACCEPTED BY CONSTRUCTION
MANAGER.

- FREE FROM SOFT, NON-DURABLE PARTICLES, ORGANIC MATERIALS AND THIN OR ELONGATED PARTICLES.

- MATERIALS COMPLY WITH GRADATION REQUIREMENTS.

FINAL IN-PLACE LOCATION AND THICKNESS OF BEDDING IS AS SHOWN ON CONTRACT DRAWINGS.

ACTION TAKEN *Rain*

West Channel Placement

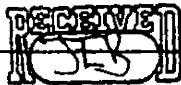
5. REMARKS

REVIEWED BY

DATE 6/8/93

BEDDING

JUN 08 1993



FORM A-13
SHEET 1 OF 1
INSPECTION DATE 6/7/93

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - BEDDING MATERIAL OBTAINED FROM QUARRY ACCEPTED BY CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FREE FROM SOFT, NON-DURABLE PARTICLES, ORGANIC MATERIALS AND THIN OR ELONGATED PARTICLES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - MATERIALS COMPLY WITH GRADATION REQUIREMENTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| FINAL IN-PLACE LOCATION AND THICKNESS OF BEDDING IS AS SHOWN ON CONTRACT DRAWINGS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. DUST CONTROL | | | |
| ACTION TAKEN <u>water truck in use</u> | | | |
| 4. BEDDING LOCATION | | | |
| <u>North Channel</u> | | | |
| 5. REMARKS | | | |
| <u>Import 271.58 Ton ~ 1,450.72 Ton to date</u> | | | |
| | | | |
| | | | |
| | | | |
| INSPECTOR <u>Joseph L. Calver</u> DATE <u>6/8/93</u> | | | |
| REVIEWED BY <u>Jonathan Brandes</u> DATE <u>6/8/93</u> | | | |

REINNING

JUN 11 1993



FORM A-13
SHEET 1 OF 1
INSPECTION DATE 6/14/93

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - BEDDING MATERIAL OBTAINED FROM QUARRY ACCEPTED BY CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FREE FROM SOFT, NON-DURABLE PARTICLES, ORGANIC MATERIALS AND THIN OR ELONGATED PARTICLES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - MATERIALS COMPLY WITH GRADATION REQUIREMENTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| FINAL IN-PLACE LOCATION AND THICKNESS OF BEDDING IS AS SHOWN ON CONTRACT DRAWINGS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. DUST CONTROL | | | |
| ACTION TAKEN <u>N/A</u> | | | |
| 4. BEDDING LOCATION | | | |
| <u>Combined Channel</u> | | | |
| 5. REMARKS | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| INSPECTOR <u>Joseph S. Cotnam</u> | | | DATE: <u>6/14/93</u> |
| REVIEWED BY <u>Jonathan Brando</u> | | | DATE: <u>6/14/93</u> |

INSPECTION DATE 6/17/93

1. MATERIAL

N/A

- ~~CRUSHED~~ ^{GRANULE} MATERIAL OBTAINED FROM QUARRY ACCEPTED BY CONSTRUCTION MANAGER.
- FREE FROM SOFT, NON-DURABLE PARTICLES, ORGANIC MATERIALS AND THIN OR ELONGATED PARTICLES.
- MATERIALS COMPLY WITH GRADATION REQUIREMENTS.

FINAL IN-PLACE LOCATION AND THICKNESS OF BEDDING IS AS SHOWN ON CONTRACT DRAWINGS.

ACTION TAKEN

WATER TRUCK USED

ACCESS ROAD TO UTILITY POLE

(611.42 Ton Complete.

RECEIVED

INSPECTOR

DATE 6/17/93

REVIEWED BY

DATE 6/18/93

RIPRAP

FORM A-14
SHEET 1 OF 1
INSPECTION DATE 10-21-92

| | ACCEPT | REJECT | N/A |
|--|---------------|---------------|----------|
| 1. MATERIAL | | | |
| - RIPRAP OBTAINED FROM QUARRY ACCEPTED BY CONSTRUCTION MANAGER | <u> </u> | <u> </u> | <u>✓</u> |
| - FREE FROM DIRT, SAND, CLAY AND ROCK FINES. | <u> </u> | <u> </u> | <u>✓</u> |
| - MATERIALS COMPLY WITH GRADATION REQUIREMENTS. | <u>✓</u> | <u> </u> | <u>✓</u> |
| 2. PLACEMENT | | | |
| - FINAL IN-PLACE LOCATION AND THICKNESS OF RIPRAP AS SHOWN ON DRAWINGS WITH A TOLERANCE OF +3, -0 INCHES | <u> </u> | <u> </u> | <u>✓</u> |
| 3. DUST CONTROL | | | |
| ACTION TAKEN <u>NONE REQUIRED</u> | | | |
| 4. RIPRAP LOCATION | | | |
| <u>NORTHERN END OF CHANNEL</u> | | | |
| 5. REMARKS <u>1 GRADATION PERFORMED. SEE ATTACHED</u> | | | |
| <u>REPORT FORMS.</u> | | | |
| | | | |
| | | | |
| | | | |

INSPECTOR

Fredrick J. Mastitis

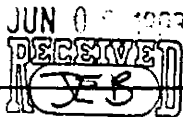
DATE 10-21-92

REVIEWED BY

John H. Fox (Geosyntec)

DATE 10-22-92

RIPRAP



FORM A-14
SHEET 1 OF 1
INSPECTION DATE 6/2/93

1. MATERIAL

- RIPRAP OBTAINED FROM QUARRY
ACCEPTED BY CONSTRUCTION MANAGER
- FREE FROM DIRT, SAND, CLAY AND
ROCK FINES.
- MATERIALS COMPLY WITH GRADATION
REQUIREMENTS.

ACCEPT

REJECT

N/A

✓
✓
✓

2. PLACEMENT

- FINAL IN-PLACE LOCATION AND THICKNESS
OF RIPRAP AS SHOWN ON DRAWINGS
WITH A TOLERANCE OF +3, -0 INCHES

✓

3. DUST CONTROL

ACTION TAKEN YES. WATER TRUCK WAS USED TO DRY.

4. RIPRAP LOCATION

SWALES ON CELA -

REMARKS PLACED IN SWALES AND WILL BE HANDLED TO
MAINT. SPEC.

INSPECTOR

REVIEWED BY

DATE 6/2/93

DATE 6/3/93

JUN 03 1993



FORM A-14

SHEET 1 OF 1INSPECTION DATE 6/3/93

RIPRAP

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - RIPRAP OBTAINED FROM QUARRY ACCEPTED BY CONSTRUCTION MANAGER | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FREE FROM DIRT, SAND, CLAY AND ROCK FINES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - MATERIALS COMPLY WITH GRADATION REQUIREMENTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - FINAL IN-PLACE LOCATION AND THICKNESS OF RIPRAP AS SHOWN ON DRAWINGS WITH A TOLERANCE OF +3, -0 INCHES | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. DUST CONTROL | | | |
| ACTION TAKEN <u>WATER TRUCK used on ROADWAYS</u> | | | |
| 4. RIPRAP LOCATION | | | |
| <u>MORE FROM STOCK PILE AND PLACED IN PERIMETER CHANNEL.</u> | | | |
| <u>THIS IS NOT TO PROPER TOLERANCE AS OF YET.</u> | | | |
| 5. REMARKS | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

INSPECTOR Joseph L. Columbus
REVIEWED BY Jonathan Brandes

DATE 6/3/93
DATE 6/4/93

JUN 04 1993



RIPRAP

FORM A-14
SHEET 1 OF 1
INSPECTION DATE 6/4/93

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - RIPRAP OBTAINED FROM QUARRY ACCEPTED BY CONSTRUCTION MANAGER | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FREE FROM DIRT, SAND, CLAY AND ROCK FINES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - MATERIALS COMPLY WITH GRADATION REQUIREMENTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - FINAL IN-PLACE LOCATION AND THICKNESS OF RIPRAP AS SHOWN ON DRAWINGS WITH A TOLERANCE OF +3, -0 INCHES | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

3. DUST CONTROL

ACTION TAKEN WATER TRUCK IS USED FOR THIS.

4. RIPRAP LOCATION

FROM 1ST SWALE CLOSEST TO SOUTH END ALL THE WAY
ALONG THE SOUTH END TO THE TEMPORARY ACCESS ROAD.

5. REMARKS RIP RAP IS BEING PLACED AND SHAPED AS WE
GO, BUT FINAL DRESS UP WILL BE AS NEEDED.

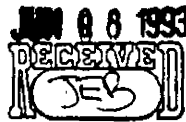
INSPECTOR

REVIEWED BY

Joseph L. Colomantre
Jonathan Brandes

DATE 6/4/93

DATE 6/4/93



FORM A-14
SHEET 1 OF 1
INSPECTION DATE 6/7/93

RIPPRAP

JUN 08 1993

ACCEPT REJECT N/A

1. MATERIAL

- RIPRAP OBTAINED FROM QUARRY
ACCEPTED BY CONSTRUCTION MANAGER
- FREE FROM DIRT, SAND, CLAY AND
ROCK FINES.
- MATERIALS COMPLY WITH GRADATION
REQUIREMENTS.

✓
✓
✓

2. PLACEMENT

- FINAL IN-PLACE LOCATION AND THICKNESS
OF RIPRAP AS SHOWN ON DRAWINGS
WITH A TOLERANCE OF +3, -0 INCHES

✓

3. DUST CONTROL

ACTION TAKEN

Rain

4. RIPRAP LOCATION

North channel placement

5. REMARKS

INSPECTOR

Joseph L. Calomata

DATE

6/7/93

REVIEWED BY

Jonathan Brando

DATE

6/8/93

JUN 08 1993

FORM A-14

SHEET 1 OF 1

INSPECTION DATE 6/8/93

RIPRAP

RECEIVED
YES

ACCEPT

REJECT

1. MATERIAL

- RIPRAP OBTAINED FROM QUARRY
ACCEPTED BY CONSTRUCTION MANAGER
- FREE FROM DIRT, SAND, CLAY AND
ROCK FINES.
- MATERIALS COMPLY WITH GRADATION
REQUIREMENTS.

✓

✓

✓

2. PLACEMENT

- FINAL IN-PLACE LOCATION AND THICKNESS
OF RIPRAP AS SHOWN ON DRAWINGS
WITH A TOLERANCE OF +3, -0 INCHES

✓

3. DUST CONTROL

ACTION TAKEN WATER TRUCK IN USE

4. RIPRAP LOCATION

North Channel

5. REMARKS

INSPECTOR

Joseph A. Colaninno

DATE 6/8/93





REVIEWED BY

Jonathan Brancos

DATE 6/8/93

RECEIVED
SEP

SHEET OF
INSPECTION DATE 6/10/93

| | | |
|---|--|--|
|  | | |
|  | | |
|  | | |
|  | | |

PIPPIN OBTAINED FROM QUARRY
ACCEPTED BY CONSTRUCTION MANAGER

- FREE FROM DIRT, SAND, CLAY AND
ROCK FINES.

- MATERIALS COMPLY WITH GRADATION REQUIREMENTS.

- FINAL IN-PLACE LOCATION AND THICKNESS
OF RIPRAP AS SHOWN ON DRAWINGS
WITH A TOLERANCE OF +3,-0 INCHES

ACTION TAKEN N/A

West channel

5. REMARKS _____

DATE 4/10/83

DATE 6/4/93

RIPRAP

JUN 14 1993



FORM A-11
SHEET 1 OF 1
INSPECTOR

ACCEPTANCE

1. MATERIAL

- RIPRAP OBTAINED FROM QUARRY
ACCEPTED BY CONSTRUCTION MANAGER
- FREE FROM DIRT, SAND, CLAY AND
ROCK FINES.
- MATERIALS COMPLY WITH GRADATION
REQUIREMENTS.

✓
✓
✓

2. PLACEMENT

- FINAL IN-PLACE LOCATION AND THICKNESS
OF RIPRAP AS SHOWN ON DRAWINGS
WITH A TOLERANCE OF +3,-0 INCHES

✓

3. DUST CONTROL

ACTION TAKEN

WATER TRUCK USED

4. RIPRAP LOCATION

NORT END OF CULVERT
COMBINATION CHANNEL

5. REMARKS

more RIPRAP TO BE INSTALLED
ON ROAD 6/14/93 IF POSSIBLE

INSTALLED ON 6/14/93
4,930.14 TON

INSPECTOR

REVIEWED BY

Joseph L. Colomito
Jonathan Brandes

DATE

DATE

6/14/93

6/14/93

RIPRAP

JUN 15 1993



FORM A-14
SHEET 1 OF 1
INSPECTION DATE

ACCEPT REGION

1. MATERIAL

- RIPRAP OBTAINED FROM QUARRY
ACCEPTED BY CONSTRUCTION MANAGER
- FREE FROM DIRT, SAND, CLAY AND
ROCK FINES.
- MATERIALS COMPLY WITH GRADATION
REQUIREMENTS.

✓

✓

✓

2. PLACEMENT

- FINAL IN-PLACE LOCATION AND THICKNESS
OF RIPRAP AS SHOWN ON DRAWINGS
WITH A TOLERANCE OF +3, -0 INCHES

✓

3. DUST CONTROL

ACTION TAKEN water truck used

4. RIPRAP LOCATION

Combination Channel

5. REMARKS Imported 149.87 Ton

5,080.0 Ton To Date

INSPECTOR

Joseph L. Colaninno

REVIEWED BY

Jonathan Brandes

DATE 6/15/93

RIPRAP

JUN 16 1993



FORM A-14

SHEET 1 OF 1

INSPECTION DATE 6/15/93

1. MATERIAL

- RIPRAP OBTAINED FROM QUARRY
ACCEPTED BY CONSTRUCTION MANAGER

ACCEPT

REJECT

N/A

☒

☐

☐

- FREE FROM DIRT, SAND, CLAY AND
ROCK FINES.

☒

☐

☐

- MATERIALS COMPLY WITH GRADATION
REQUIREMENTS.

☒

☐

☐

2. PLACEMENT

- FINAL IN-PLACE LOCATION AND THICKNESS
OF RIPRAP AS SHOWN ON DRAWINGS
WITH A TOLERANCE OF +3, -0 INCHES

☒

☐

☐

3. DUST CONTROL

ACTION TAKEN water Truck used

4. RIPRAP LOCATION

Combined Channel

5. REMARKS Imported 235.23 ton = 5,315.23 ton

Placed in combining channel

INSPECTOR

Joseph D. Coleman

DATE

6/14/93

REVIEWED BY

Jonathan Bravels

DATE

6/16/93

RIPRAP

FORM A-14
SHEET 1 OF 1
INSPECTION DATE 6/14/93

| | ACCEPT | REJECT | N/A |
|---|----------|---------------|---------------|
| 1. MATERIAL | | | |
| - RIPRAP OBTAINED FROM QUARRY ACCEPTED BY CONSTRUCTION MANAGER | <u>✓</u> | <u> </u> | <u> </u> |
| - FREE FROM DIRT, SAND, CLAY AND ROCK FINES. | <u>✓</u> | <u> </u> | <u> </u> |
| - MATERIALS COMPLY WITH GRADATION REQUIREMENTS. | <u>✓</u> | <u> </u> | <u> </u> |
| 2. PLACEMENT | | | |
| - FINAL IN-PLACE LOCATION AND THICKNESS OF RIPRAP AS SHOWN ON DRAWINGS WITH A TOLERANCE OF +3,-0 INCHES | <u>✓</u> | <u> </u> | <u> </u> |
| 3. DUST CONTROL | | | |
| ACTION TAKEN <u> CENTRAL TRUCK USED </u> | | | |
| 4. RIPRAP LOCATION | | | |
| <u> DRESS UP OF Edges OF Scales And Channel </u> | | | |
| <u> ALSO Finish Combination Channel </u> | | | |
| 5. REMARKS | | | |
| <u> Imported 234.00 Ton </u> | | | |
| <u> 5,549.33 Ton To DATE </u> | | | |
| | | | |
| | | | |
| | | | |

JUN 17 1993

RECEIVED
RBS

INSPECTOR Joseph A. Colomato

REVIEWED BY Ryan [Signature]

DATE 6/14/93

DATE 17/JUN/93

SEED AND FERTILIZER

JUN 02 1993



FORM A-15

SHEET 1 OF 1

INSPECTION DATE 6/2/93

ACCEPT REJECT N/A

1. MATERIAL

- MANUFACTURER'S LABEL OR CERTIFICATE
COMPLIES WITH SPECIFICATION
REQUIREMENTS.

- SEEDS ARE DRY AND FREE OF DAMAGE.

- FERTILIZER IS FREE OF MOISTURE
AND LUMPS.

2. PLACEMENT

- AREA RECEIVING SEEDS AND
FERTILIZERS IS SCARIFIED OR LOOSE,
AND FREE OF STONES LARGER THAN
6 INCHES.

- PLANTING SEASON IS IN ACCORDANCE
WITH MANUFACTURER'S REQUIREMENTS AND
ACCEPTED BY CONSTRUCTION MANAGER.

3. VERIFICATION TESTING

- 1 TEST SAMPLE FOR EVERY 200 LBS.
OF SEED MIXTURE OR 1 SAMPLE FROM
EACH LOT WHICHEVER GOVERNS IS TAKEN
AND SENT FOR TESTING.

- TEST RESULTS MEET OR EXCEED THE
REQUIREMENTS OF THE SPECIFICATIONS.

4. REMARKS Seed was placed on north & east slope of

Dike Area to help hold material in place.

FIELD INSPECTOR

FIELD REVIEWED BY

DATE 6/2/93

DATE 6/3/93

MAY 27 1993

SEED AND FERTILIZER



FORM A-15
SHEET 1 OF 1
INSPECTION DATE

| | ACCEPT | REJECT | N/A |
|---|--------|---------------------|-----|
| 1. MATERIAL | | | |
| - MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH SPECIFICATION REQUIREMENTS. | ✓ | | |
| - SEEDS ARE DRY AND FREE OF DAMAGE. | ✓ | | |
| - FERTILIZER IS FREE OF MOISTURE AND LUMPS. | ✓ | | |
| 2. PLACEMENT | | | |
| - AREA RECEIVING SEEDS AND FERTILIZERS IS SCARIFIED OR LOOSE, AND FREE OF STONES LARGER THAN 6 INCHES. | ✓ | | |
| - PLANTING SEASON IS IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS AND ACCEPTED BY CONSTRUCTION MANAGER. | ✓ | | |
| 3. VERIFICATION TESTING | | | |
| - 1 TEST SAMPLE FOR EVERY 200 LBS. OF SEED MIXTURE OR 1 SAMPLE FROM EACH LOT WHICHEVER GOVERNS IS TAKEN AND SENT FOR TESTING. | | | ✓ |
| - TEST RESULTS MEET OR EXCEED THE REQUIREMENTS OF THE SPECIFICATIONS. | | | ✓ |
| 4. REMARKS <u>BROOKS SPECIAL MIXTURE #110LB</u> | | | |
| <u>WHITE CLOVER #10LB</u> | | | |
| <u>THIS MIX WAS OK'ED BY ROBERT LUY WHILE</u> | | | |
| <u>JOHN BRANDINE WAS PRESENT.</u> | | | |
| <u>TESTING WAKED BY ARCO.</u> | | | |
| INSPECTOR <u>Joseph J. Colquhoun</u> | | DATE <u>5/27/93</u> | |
| REVIEWED BY <u>Jonathan Daniels</u> | | DATE <u>5/29/93</u> | |

SEED AND FERTILIZER

MAY 25 1993

FORM A-15
SHEET 1 OF 1
INSPECTION DATE 5/19/93

ACCEPT REJECT N/A

1. MATERIAL

- MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH SPECIFICATION REQUIREMENTS.
- SEEDS ARE DRY AND FREE OF DAMAGE.
- FERTILIZER IS FREE OF MOISTURE AND LUMPS.

| | | |
|---|--|---|
| ✓ | | |
| ✓ | | |
| | | ✓ |

2. PLACEMENT

- AREA RECEIVING SEEDS AND FERTILIZERS IS SCARIFIED OR LOOSE, AND FREE OF STONES LARGER THAN 6 INCHES.
- PLANTING SEASON IS IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS AND ACCEPTED BY CONSTRUCTION MANAGER.

| | | |
|---|--|--|
| ✓ | | |
| ✓ | | |

3. VERIFICATION TESTING

- 1 TEST SAMPLE FOR EVERY 200 LBS. OF SEED MIXTURE OR 1 SAMPLE FROM EACH LOT WHICHEVER GOVERNS IS TAKEN AND SENT FOR TESTING.
- TEST RESULTS MEET OR EXCEED THE REQUIREMENTS OF THE SPECIFICATIONS.

| | | |
|---|--|--|
| ✓ | | |
| ✓ | | |

4. REMARKS 2-men Seeding Dike Area with seed
Refinery Area (B)
Used from V. Seeding meets all Requirements.

INSPECTOR

Joseph D. Colaninno

DATE 5/19/93

REVIEWED BY

Jonathan Brandes

DATE 5/25/93

SEED AND FERTILIZER

MAY 19 1983



FORM A-19

SHEET 1

INSPECTION

DATE

ACCEPT

1. MATERIAL

- MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH SPECIFICATION REQUIREMENTS.
- SEEDS ARE DRY AND FREE OF DAMAGE.
- FERTILIZER IS FREE OF MOISTURE AND LUMPS.

2. PLACEMENT

- AREA RECEIVING SEEDS AND FERTILIZERS IS SCARIFIED OR LOOSE, AND FREE OF STONES LARGER THAN 6 INCHES.
- PLANTING SEASON IS IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS AND ACCEPTED BY CONSTRUCTION MANAGER.

3. VERIFICATION TESTING

- 1 TEST SAMPLE FOR EVERY 200 LBS. OF SEED MIXTURE OR 1 SAMPLE FROM EACH LOT WHICHEVER GOVERNS IS TAKEN AND SENT FOR TESTING.
- TEST RESULTS MEET OR EXCEED THE REQUIREMENTS OF THE SPECIFICATIONS.

REMARKS: This action was taken AFTER talk with Plant
IVY, John Brandis, and myself. To help keep the dike from
on the dike slope from ending up in the channel. It is
Agreed to seed now and mark out a price at a later date.
John & I could estimate the area. This will continue
until which time the dike slope is fully seeded.

INSPECTOR

REVIEWED BY

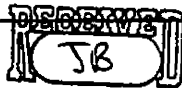
DATE 5/18/83

DATE 5/18/83

SEED AND FERTILIZER

AUG 25 1992

FORM A-15

SHEET 1 OF 1
INSPECTION DATE 8-24-92

ACCEPT REJECT N/A

MATERIAL

- MANUFACTURER'S LABEL OR CERTIFICATE
COMPLIES WITH SPECIFICATION
REQUIREMENTS.

- SEEDS ARE DRY AND FREE OF DAMAGE.

- FERTILIZER IS FREE OF MOISTURE,
AND LUMPS.

2. PLACEMENT

- AREA RECEIVING SEEDS AND
FERTILIZERS IS SCARIFIED OR LOOSE,
AND FREE OF STONES LARGER THAN
6 INCHES.

- PLANTING SEASON IS IN ACCORDANCE
WITH MANUFACTURER'S REQUIREMENTS AND
ACCEPTED BY CONSTRUCTION MANAGER.

3. VERIFICATION TESTING

- 1 TEST SAMPLE FOR EVERY 200 LBS.
OF SEED MIXTURE OR 1 SAMPLE FROM
EACH LOT WHICHEVER GOVERNS IS TAKEN
AND SENT FOR TESTING.

- TEST RESULTS MEET OR EXCEED THE
REQUIREMENTS OF THE SPECIFICATIONS.

RESULTS PENDING

4. REMARKS PLACED SEED, FERTILIZER AND MULCH ON
PLAN B, F, E AND G, C also done this date *(signature)*

INSPECTOR

Frederick J. Maithe

DATE 8-24-92

REVIEWED BY

Jonathan Brandes

DATE 8/25/92

SEED AND FERTILIZER.

FORM A-15
SHEET 1 OF 1
INSPECTION DATE 8-19-92

| MATERIAL | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|--------------------------|
| - MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH SPECIFICATION REQUIREMENTS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SEEDS ARE DRY AND FREE OF DAMAGE. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FERTILIZER IS FREE OF MOISTURE AND LUMPS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - AREA RECEIVING SEEDS AND FERTILIZERS IS SCARIFIED OR LOOSE, AND FREE OF STONES LARGER THAN 6 INCHES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - PLANTING SEASON IS IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS AND ACCEPTED BY CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. VERIFICATION TESTING | | | |
| - 1 TEST SAMPLE FOR EVERY 200 LBS. OF SEED MIXTURE OR 1 SAMPLE FROM EACH LOT WHICHEVER GOVERNS IS TAKEN AND SENT FOR TESTING. | <u>Will Be Tested</u> | | |
| - TEST RESULTS MEET OR EXCEED THE REQUIREMENTS OF THE SPECIFICATIONS. | <u>Test Results Pending</u> | | |
| 4. REMARKS <u>SAMPLES OF THE SEED BEING USED WILL BE SENT FOR TESTING. THE CURRENT CONTROLS AREA WAS SEEDED AND FERTILIZED. STRAW WILL BE PLACED ON IT 8-20-92. ATTACHED IS THE INFORMATION ABOUT THE SEED BLEND AND FERTILIZER.</u> | | | |

AUG 20 1992
RECEIVED
CAINSPECTOR Frederick J. Maslitz DATE 8-19-92
REVIEWED BY Colin P. Arkon DATE 8-20-92

EROSION AND SEDIMENT CONTROL

FORM A-16

SHEET 1 OF 1

INSPECTION DATE W/E 6-19

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------|-------------------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN. | | | <input checked="" type="checkbox"/> |
| 2. PLACEMENT | | | |
| - SILT FENCES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN. | <input checked="" type="checkbox"/> | | |
| 3. LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES. | <input checked="" type="checkbox"/> | | |
| 4. REMARKS <u>CELA AREA:</u> | | | |
| <u>CONSTRUCTED COLLECTION BASIN & INSTALLED</u> | | | |
| <u>SILT FENCE AROUND IT</u> | | | |
| | | | |
| | | | |

SEP - 3 1992



INSPECTOR

Chris Barty

DATE

8-3-92

REVIEWED BY

Rj

DATE

3/SEP/92

EROSION AND SEDIMENT CONTROL

FORM A-16
SHEET 1 OF 1
INSPECTION DATE W/E 8-22

- | | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------|-------------------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN. | | | <input checked="" type="checkbox"/> |
| 2. PLACEMENT | | | |
| - SILT FENCES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN. | <input checked="" type="checkbox"/> | | |
| 3. LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES. | <input checked="" type="checkbox"/> | | |
| 4. REMARKS | | | |

CELA E/S CONTROLS INTACT
CONSTRUCTING STORM WATER MANAGEMENT CEM

SEP 2 1992
234

SEP 3 1992
RECEIVED
RA

INSPECTOR

Chris Potts

DATE 9-3-92

REVIEWED BY

R. J. Potts

DATE 3/20/92

EROSION AND SEDIMENT CONTROL

FORM A-16

SHEET 1 OF 1
INSPECTION DATE 9/2-92

1. MATERIAL

- MANUFACTURER'S LABEL OR CERTIFICATE
COMPLIES WITH CERTIFIED EROSION AND
SEDIMENT CONTROL PLAN.

ACCEPT

REJECT

N/A

2. PLACEMENT

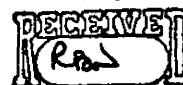
- SILT FENCES AND OTHER EROSION
CONTROL MEASURES ARE INSTALLED
AS SHOWN ON CERTIFIED EROSION AND
SEDIMENT CONTROL PLAN.

3. LOCATION OF EROSION AND SEDIMENT
CONTROL MEASURES.

4. REMARKS

STORM WATER MANAGEMENT BASIN & OTHER BASIN
E&S CONTROLS INTACT

SEP - 3 1992



INSPECTOR

Chris Gentry

DATE 9-3-92

REVIEWED BY

R. J. Kline

DATE 9/20/92

EROSION AND SEDIMENT CONTROL

FORM A-16

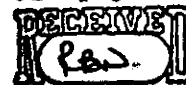
SHEET 1 OF 1

INSPECTION DATE 4/8 7-10

- | | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------|-------------------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN. | | | <input checked="" type="checkbox"/> |
| 2. PLACEMENT | | | |
| - SILT FENCES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN. | <input checked="" type="checkbox"/> | | |
| 3. LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES. | <input checked="" type="checkbox"/> | | |
| 4. REMARKS | | | |

CELA E&S CONTROLS INTACT

SEP 3 1992



INSPECTOR

Chris Bailey

DATE 2-3-92

REVIEWED BY

Ry Jones

DATE 3/20/92

EROSION AND SEDIMENT CONTROL

FORM A-16

SHEET 1 OF 1
INSPECTION DATE 9/2-7-92

1. MATERIAL

- MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

ACCEPT

REJECT

N/A

2. PLACEMENT

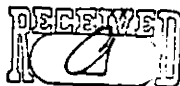
- SILT FENCES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

3. LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES:

4. REMARKS

CELA E/S CONTROLS INTACT

SEP 3 1992



INSPECTOR

Chris Bailey

DATE 9-3-92

REVIEWED BY

Colin P. Lukow

DATE 9-3-92

EROSION AND SEDIMENT CONTROL

FORM A-16
SHEET 1 OF 1
INSPECTION DATE W/C 7-29

ACCEPT REJECT N/A

1. MATERIAL

- MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

2. PLACEMENT

- SILT FENCES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

3. LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES.

4. REMARKS

CEA E&S CONTROLS INTACT

SEP 3 1992



INSPECTOR

DATE 9-3-92

REVIEWED BY

DATE 9-3-92

RECEIVED
FEB 10 1964

FORM A-16

SHEET 1 OF 1
INSPECTION DATE 7-30-92

| ACCEPT | REJECT | N/A |
|--------|--------|-----|
|--------|--------|-----|

- MANUFACTURER'S LABEL OR CERTIFICATE
COMPLIES WITH CERTIFIED EROSION AND
SEDIMENT CONTROL PLAN.

- SILT FENCES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

3. LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES.

4. REMARKS

REFINERY AREA "B" E & S CONTROLS INSTALLED

- SILT FENCES & BEAMS INSTALLED

INSPECTOR

DATE 9-3-92

REVIEWED BY

DATE 9/4/92

EROSION AND SEDIMENT CONTROL

SEP 3 1992

FORM A-10

SHEET 1 OF 1

INSPECTION DATE 7-30-92



ACCEPT REJECT N/A

1. MATERIAL

- MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

2. PLACEMENT

- SILT FENCES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

3. LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES.

4. REMARKS

REINFORCE AREA "E" E & S CONTROLS INSTALLED

- SILT FENCES & BERM'S INSTALLED

INSPECTOR

Chris B...

DATE 9-3-92

REVIEWED BY

Jonathan E. Brando

DATE 9/4/92

EROSION AND SEDIMENT CONTROL

FORM A-16

SHEET 1 OF 1

INSPECTION DATE W/E 2-3-72

1. MATERIAL

- MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

ACCEPT

REJECT

N/A

2. PLACEMENT

- SILT FENCES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

3. LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES.

4. REMARKS

CELA E&S CONTROLS INTACT



INSPECTOR

Chris Bate

DATE 2-3-72

REVIEWED BY

Collin P. Baker

DATE 9-3-72

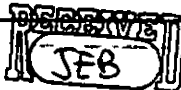
EROSION AND SEDIMENT CONTROL

SEP - 3 1992

FORM A-16

SHEET 1 OF 1

INSPECTION DATE 4/2 8/2



ACCEPT _____ REJECT _____ N/A _____

1. MATERIAL

- MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN. ☒

2. PLACEMENT

- SILT FENCES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN. ☒

3. LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES. ☒

4. REMARKS

Refinery Area "F" E/S CONTROLS INTACT

INSPECTOR Chris Bailey

DATE 9-3-92

REVIEWED BY Jonathan E. Brando

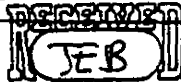
DATE 9/4/92

EROSION AND SEDIMENT CONTROL

SEP 3 1992

FORM A-10

SHEET 1 OF 1
INSPECTION DATE 9/6 8/7



1. MATERIAL

- MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

ACCEPT REJECT N/A

2. PLACEMENT

- SILT FENCES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

3. LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES.

4. REMARKS REFINERY AREA "B"

E/S CONTROLS & INTACT

INSPECTOR

DATE 9-3-92

REVIEWED BY

DATE 9/4/92

EROSION AND SEDIMENT CONTROL

FORM A-16
SHEET 1 OF 1
INSPECTION DATE 4/8-8-7

1. MATERIAL

- MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

ACCEPT REJECT N/A

2. PLACEMENT

- SILT FENCES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

3. LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES.

4. REMARKS

CELA- ETS CONTROL INTACT

SEP 3 1992



INSPECTOR

Chris Barty

DATE 9-3-92

REVIEWED BY

William P. Lister

DATE 9-3-92

RECEIVED BY

EROSION AND SEDIMENT CONTROL

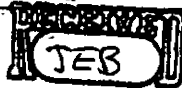
SEP 3 1992

FORM A-16

SHEET 1 OF 1

INSPECTION DATE 8-10-92

1. MATERIAL



ACCEPT

REJECT

N/A

- MANUFACTURER'S LABEL OR CERTIFICATE
COMPLIES WITH CERTIFIED EROSION AND
SEDIMENT CONTROL PLAN.

2. PLACEMENT

- SILT FENCES AND OTHER EROSION
CONTROL MEASURES ARE INSTALLED
AS SHOWN ON CERTIFIED EROSION AND
SEDIMENT CONTROL PLAN.

3. LOCATION OF EROSION AND SEDIMENT
CONTROL MEASURES.

4. REMARKS

REFINERY AREA "A"

- FLAT TOPOGRAPHY OF AREA DOES NOT

REQUIRE E & S CONTROLS

INSPECTOR

Chris P. [Signature]

DATE 9-3-92

REVIEWED BY

Jonathan E. [Signature]

DATE 9/4/92

SEP 3 1992

FORM A-16

EROSION AND SEDIMENT CONTROL



SHEET 1 OF 1
INSPECTION DATE 9/6/92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------|-------------------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN. | | | <input checked="" type="checkbox"/> |
| 2. PLACEMENT | | | |
| - SILT FENCES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN. | <input checked="" type="checkbox"/> | | |
| 3. LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES. | <input checked="" type="checkbox"/> | | |
| 4. REMARKS | | | |

REFINERY AREA "E" E & S CONTROLS INTACT

INSPECTOR Chris Bady DATE 9-3-92
REVIEWED BY Jonathan E. Brander DATE 9/6/92

SEP 3 1992

EROSION AND SEDIMENT CONTROL

FORM A-10

SHEET 1 OF 1
INSPECTION DATE W/E 8/19



ACCEPT REJECT N/A

1. MATERIAL

- MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

2. PLACEMENT

- SILT FENCES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

3. LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES.

4. REMARKS

RESILIENT AREA "B" E/S CONTROLS INTACT

INSPECTOR

DATE 9-3-92

REVIEWED BY

DATE 9/4/92

EROSION AND SEDIMENT CONTROL

FORM A-16

SHEET 1 OF 1
INSPECTION DATE 9/3/92

1. MATERIAL

- MANUFACTURER'S LABEL OR CERTIFICATE
COMPLIES WITH CERTIFIED EROSION AND
SEDIMENT CONTROL PLAN.

ACCEPT REJECT N/A

2. PLACEMENT

- SILT FENCES AND OTHER EROSION
CONTROL MEASURES ARE INSTALLED
AS SHOWN ON CERTIFIED EROSION AND
SEDIMENT CONTROL PLAN.

3. LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES.

4. REMARKS

CELA ETS CONTAINS INTREX

SEP 3 1992



INSPECTOR

DATE

REVIEWED BY

DATE 9-3-92

DATE 9-3-92

RECEIVED

SEP 3 1992

FORM A-16

SHEET 1 OF 1
INSPECTION DATE 8-10-92

EROSION AND SEDIMENT CONTROL



ACCEPT REJECT N/A

1. MATERIAL

- MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

_____ ✓

2. PLACEMENT

- SILT FENCES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

_____ ✓

3. LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES.

_____ ✓

4. REMARKS

REFINERY AREA "D"
- FLAT TOPOGRAPHY IF AREA DOES
NOT REQUIRE E/S CONTROLS

INSPECTOR

Chris Pinsky

DATE 9-3-92

REVIEWED BY

Jonathan E. Branks

DATE 9/4/92

SEP 23 1992

FORM A-16

SHEET 1 OF 1

INSPECTION DATE 8-20-92

EROSION AND SEDIMENT CONTROL

RECEIVED
SEB

ACCEPT REJECT N/A

1. MATERIAL

- MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

2. PLACEMENT

- SILT FENCES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

3. LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES.

4. REMARKS

REFINERY AREA "C"

- FLAT TOPOGRAPHY IF AREA TO

BE EXCAVATED DOES NOT REQUIRE

E&S CONTROLS

INSPECTOR

Chris P. [Signature]

DATE 9-3-92

REVIEWED BY

Jonathan E. Brandes

DATE 9/4/92

SEP 3 1992

FORM A-16

SHEET 1 OF 1

INSPECTION DATE 8-21-92

EROSION AND SEDIMENT CONTROL



ACCEPT REJECT N/A

1. MATERIAL

- MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

2. PLACEMENT

- SILT FENCES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

3. LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES.

4. REMARKS

REFINERY AREA "F"

- THIS AREA BACKFILLED THE DAY FOLLOWING

EXCAVATION - NO E/S CONTROLS NECESSARY

INSPECTOR

Chris Bally

DATE 9-3-92

REVIEWED BY

Jonathan E. Brandes

DATE 9/4/92

SEP 3 1992

EROSION AND SEDIMENT CONTROL



FORM A-16

SHEET 1 OF 1
INSPECTION DATE 2/28/21

ACCEPT REJECT N/A

1. MATERIAL

- MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

ACCEPT REJECT N/A

2. PLACEMENT

- SILT FENCES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

ACCEPT REJECT N/A

3. LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES.

ACCEPT REJECT N/A

4. REMARKS

REFINERY AREA "E" E&S CONTROLS INTACT

INSPECTOR

Chris Bates

DATE 2-3-92

REVIEWED BY

Jonathan E. Daniels

DATE

EROSION AND SEDIMENT CONTROL

FORM A-16

SHEET 1 OF 1
INSPECTION DATE 9-21-92

1. MATERIAL

- MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

ACCEPT REJECT N/A

2. PLACEMENT

- SILT FENCES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

3. LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES.

4. REMARKS

CELA E/S CONTROLS INSTALLED

RECEIVED

INSPECTOR

Chris Galt

DATE 9-3-92

REVIEWED BY

William P. Sullivan

DATE 9-3-92

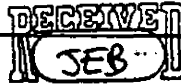
EROSION AND SEDIMENT CONTROL

SEP 3 1992

FORM A-16

SHEET 1 OF 1

INSPECTION DATE 9-21-92



ACCEPT REJECT N/A

1. MATERIAL

- MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

2. PLACEMENT

- SILT FENCES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

3. LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES.

4. REMARKS

REFINERY AREA "G"

- AREA WAS BACKFILLED IMMEDIATELY

FOLLOWING EXCAVATION THUS E/S CONTROLS

WERE NOT NECESSARY

INSPECTOR

Chris Boyle

DATE 9-3-92

REVIEWED BY

Jonathan A. Banks

DATE 9/4/92

EROSION AND SEDIMENT CONTROL

FORM A-16

SHEET 1 OF 1

INSPECTION DATE W/E-9-28

1. MATERIAL

- MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

ACCEPT

REJECT

N/A

2. PLACEMENT

- SILT FENCES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

3. LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES.

4. REMARKS

LEFT OF S CONTROL MEASURES

SEP 3 1992



INSPECTOR

DATE 9-3-92

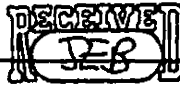
REVIEWED BY

DATE 9-3-92

SEP 4 1992

FORM A-16

EROSION AND SEDIMENT CONTROL



SHEET 1 OF 1
INSPECTION DATE 9/4/92

ACCEPT REJECT N/A

1. MATERIAL

- MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

2. PLACEMENT

- SILT FENCES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

3. LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES.

4. REMARKS

CELA E & S CONTROLS INTACT

INSPECTOR

DATE 9-4-92

REVIEWED BY

DATE 9/4/92

EROSION AND SEDIMENT CONTROL

FORM 7-10
SHEET 1 OF 1
INSPECTION DATE W/E 9-11-92

| | ACCEPT | REJECT | N/A |
|---|--------|--------|-----|
| 1. MATERIAL | | | |
| - MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN. | | | ✓ |
| 2. PLACEMENT | | | |
| - SILT FENCES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN. | ✓ | | |
| 3. LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES. | ✓ | | |
| 4. REMARKS <u>CELA EROSION AND SEDIMENT CONTROLS</u> | | | |
| <u>ARE INTACT.</u> | | | |
| | | | |
| | | | |
| | | | |

SEP 11 1992



INSPECTOR

Frederick J. Wasth

DATE 9-11-92

REVIEWED BY

Jonathan Brandes

DATE 9/14/92

EROSION AND SEDIMENT CONTROL

FORM NO. 10
SHEET 1 OF 1
INSPECTION DATE W/E 9-18-92

| | ACCEPT | REJECT | N/A |
|---|--------|--------|-----|
| 1. MATERIAL | | | |
| - MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN. | | | ✓ |
| 2. PLACEMENT | | | |
| - SILT FENCES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN. | ✓ | | |
| 3. LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES. | ✓ | | |
| 4. REMARKS <u>CELA EROSION AND SEDIMENT CONTROLS</u> <u>ARE INTACT.</u> | | | |
| | | | |
| | | | |
| | | | |

837

SEP 21 1992

RECEIVED
JEB

INSPECTOR Frederick J. Mastle DATE 9-18-92
REVIEWED BY Jonathan Brando DATE 9/21/92

EROSION AND SEDIMENT CONTROL

FORM 10
SHEET 1 OF 1
INSPECTION DATE W/E 9-25-92

| | ACCEPT | REJECT | N/A |
|---|--------|--------|-----|
| 1. MATERIAL | | | |
| - MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN. | | | ✓ |
| 2. PLACEMENT | | | |
| - SILT FENCES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN. | ✓ | | |
| 3. LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES. | ✓ | | |
| 4. REMARKS | | | |
| <p><u>CELA EROSION AND SEDIMENT CONTROLS</u> <u>ARE INTACT. THE SEDIMENTATION BASIN WAS</u> <u>ENLARGED TO ACCEPT WATER FROM RUNOFF WHEN</u> <u>IT RAINED EARLIER THIS WEEK.</u></p> | | | |

SEP 26 1992
RECEIVED
JEB

INSPECTOR

Frederick J. Mastitis

DATE 9-25-92

REVIEWED BY

Jonathan Brandes

DATE 9/26/92

EROSION AND SEDIMENT CONTROL

FORM A-19
SHEET 1 OF 1
INSPECTION DATE 10/5/92

| | ACCEPT | REJECT | N/A |
|---|--------|--------|-----|
| 1. MATERIAL | | | |
| - MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN. | | | ✓ |
| 2. PLACEMENT | | | |
| - SILT FENCES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN. | ✓ | | |
| 3. LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES. | ✓ | | |
| 4. REMARKS <u>EVERYTHING IN PLACE AND OPERABLE.</u> | | | |
| | | | |
| | | | |
| | | | |
| | | | |

OCT 05 1992
RECEIVED

INSPECTOR Frederick J. Marshall DATE 10-2-92
REVIEWED BY Collin P. Lukow DATE 10/5/92
VE RECEIVED

EROSION AND SEDIMENT CONTROL

FORM A-16

SHEET 1 OF 1
INSPECTION DATE 10-9-92

| | ACCEPT | REJECT | N/A |
|---|--|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - SILT FENCES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. REMARKS | <p><u>ALL EROSION & SEDIMENT CONTROL STRUCTURES IN TACT.</u></p> <p><u>REMOVED ORIGINAL SEDIMENT BASIN, BUILT NEW ONE</u></p> <p><u>TODAY.</u></p> | | |

OCT 10 1992



INSPECTOR

REVIEWED BY

DATE 10-9-92

DATE 10/10/92

EROSION AND SEDIMENT CONTROL

FORM A-16
SHEET 1 OF 1
INSPECTION DATE 10-16-92 (WEEK ENDING)

| | ACCEPT | REJECT | N/A |
|---|----------|---------------|---------------|
| MATERIAL | | | |
| - MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN. | <u>/</u> | <u> </u> | <u> </u> |
| 2. PLACEMENT | | | |
| - SILT FENCES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN. | <u>/</u> | <u> </u> | <u> </u> |
| 3. LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES. | <u>/</u> | <u> </u> | <u> </u> |
| 4. REMARKS <u>THE IMPOUNDMENT ON THE NORTH END WAS REINFORCED</u> <u>AND WATER PUMPED INTO IT. THE IMPOUNDMENT IS IN</u> <u>GOOD CONDITION AND HOLDING WATER.</u> | | | |
| | | | |
| | | | |

INSPECTOR

REVIEWED BY

DATE 10-16-92

DATE 10-19-92

EROSION AND SEDIMENT CONTROL

FORM A-16
SHEET 1 OF 1
INSPECTION DATE 10-23-92

| | ACCEPT | REJECT | N/A |
|---|---|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - SILT FENCES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. REMARKS | <p><u>ALL SEDIMENT & EROSION CONTROLS INTACT</u></p> <p><u>THIS WEEK A NEW SEDIMENT/HOLDING POND WAS CONSTRUCTED ON</u></p> <p><u>THE SOUTHERN PORTION OF THE SITE. THE POND ON THE</u></p> <p><u>NORTH SLOPE WAS DEMOLISHED.</u></p> | | |

INSPECTOR:

Chris B. [Signature]

DATE 10-23-92

REVIEWED BY

John H. Fox (Geosyntec)

DATE 10-24-92

EROSION AND SEDIMENT CONTROL

FORM A-16

SHEET 1 OF 1

INSPECTION DATE 10/10/92

ACCEPT REJECT N/A

MATERIAL

- MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

2. PLACEMENT

- SILT FENCES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

3. LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES.

4. REMARKS

All E & S structures intact

INSPECTOR

Chris B...

DATE 10-10-92

REVIEWED BY

John L. Fox (Deputy)

DATE 11-25-92

VE. CIVILIAN

NOV 7 1992
RECEIVED
17

FORM A-16
SHEET 1 OF 1
INSPECTION DATE 11-6-92

EROSION AND SEDIMENT CONTROL

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - SILT FENCES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. REMARKS | | | |
| <u>BEGAN BUILDING SECOND SEDIMENT BASIN TODAY, ALL</u> | | | |
| <u>OTHER E & S STRUCTURES ARE INTACT.</u> | | | |
| | | | |
| | | | |

INSPECTOR

Chris G. Gable

DATE 11-6-92

REVIEWED BY

John H. Lee (Hydrologist)

DATE 11-10-92

EROSION AND SEDIMENT CONTROL

FORM A-16

SHEET 1 OF 1

INSPECTION DATE 11-13-92

MATERIAL

- MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

ACCEPT

REJECT

N/A

2. PLACEMENT

- SILT FENCES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

3. LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES.

4. REMARKS

All F&S STRUCTURES ARE INTACT

NOV 14 1992



INSPECTOR

REVIEWED BY

DATE: 11-13-92

DATE: 11-14-92

RECEIVED
JES

FORM A-16

SHEET 1 OF 1
INSPECTION DATE 11-20-92

ACCEPT REJECT N/A

- _____

44. 23

- Figure 1.** A schematic diagram illustrating the experimental design. The subjects were divided into two groups: a control group and an intervention group. The control group received standard care, while the intervention group received a combination of standard care and a specific intervention. The outcomes measured were mortality, morbidity, and quality of life. The results showed that the intervention group had significantly better outcomes than the control group.

4-1

4

[illegible]

Chris Bul
Jonathan Daniels

DATE 11-20-92

DATE 11/21/92

NOV 30 1992



EROSION AND SEDIMENT CONTROL

FORM A-16

SHEET 1 OF 1

INSPECTION DATE W/A 11/27/92

ACCEPT REJECT N/A

1. MATERIAL

- MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

2. PLACEMENT

- SILT FENCES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

3. LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES.

4. REMARKS

All E/S structures intact

INSPECTOR

DATE 11/27/92

REVIEWED BY

DATE 11/30/92

EROSION AND SEDIMENT CONTROL

DEC 07 1992



FORM A-16

SHEET 1 OF 1
INSPECTION DATE 12-4-92

ACCEPT REJECT N/A

1. MATERIAL

- MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

✓

2. PLACEMENT

- SILT FENCES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

✓

3. LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES.

✓

4. REMARKS

ALL E&S STRUCTURES INTACT

INSPECTOR

REVIEWED BY

DATE 12-4-92

DATE 12/7/92

EROSION AND SEDIMENT CONTROL

FORM A-16

SHEET 1 OF 1

INSPECTION DATE 12-12-11

ACCEPT REJECT N/A

1. MATERIAL

- MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

2. PLACEMENT

- SILT FENCES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

3. LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES.

4. REMARKS

All E&S structures intact

DEC 15 1992



INSPECTOR

[Signature]

DATE 12-14-12

REVIEWED BY

DATE

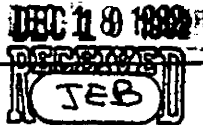
CSF

EROSION AND SEDIMENT CONTROL

FORM A-16

SHEET 1 OF 1

INSPECTION DATE 12-18-92



ACCEPT REJECT N/A

MATERIAL

- MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

✓

2. PLACEMENT

- SILT FENCES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

✓

3. LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES.

✓

4. REMARKS

ALL E&S STRUCTURES INTACT - SEVERAL ADDED
THIS WEEK - INCLUDING THOSE AT THE ENDS
OF THE VALLEYS & AT THE CULVERT INLET.

The effectiveness of these additional E&S structures is being reviewed. There may be a need for more E&S Control. JEB

INSPECTOR

DATE 12-18-92

REVIEWED BY

DATE 12/19/92

EROSION AND SEDIMENT CONTROL

DEC 23 1992

FORM A-16

SHEET 1 OF 1

INSPECTION DATE 12-23-92



ACCEPT REJECT N/A

MATERIAL

- MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

✓

2. PLACEMENT

- SILT FENCES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

✓

3. LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES.

✓

4. REMARKS

All erosion / sediment control structures are intact. Additional structures placed on north side and around west strip pile this week.

INSPECTOR

Chris B...

DATE 12-23-92

REVIEWED BY

Jonathan Br...

DATE 12-23-92

EROSION AND SEDIMENT CONTROL

JAN 04 1993

FORM A-16

SHEET 1 OF 1

INSPECTION DATE 1/1/93



ACCEPT REJECT N/A

1. MATERIAL

- MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

✓

2. PLACEMENT

- SILT FENCES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

✓

3. LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES.

✓

4. REMARKS

ALL EROSION & SEDIMENT CONTROL STRUCTURES ARE INTACT. ADDITIONAL STRUCTURES WERE PLACED IN THIS PAST WEEK IN THE WEST & NORTH CHANNELS.

INSPECTOR

REVIEWED BY

DATE 1-4-93

DATE 1/4/93

EROSION AND SEDIMENT CONTROL

JAN 08 1993



FORM A-16

SHEET 1 OF 1

INSPECTION DATE 1/8-93

ACCEPT REJECT N/A

MATERIAL

- MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

✓

2. PLACEMENT

- SILT FENCES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

✓

3. LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES.

✓

4. REMARKS

ALL EROSION & SEDIMENT CONTROL STRUCTURES ARE IN PLACE. SOME OF THE SILT FENCE HAS TO BE REWORKED.

INSPECTOR

Frederick J. Washburn

DATE 1-8-93

REVIEWED BY

Jonathan Brando

DATE 11/Jan/93

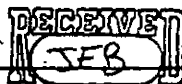
EROSION AND SEDIMENT CONTROL

JAN 13 1993

FORM A-16

SHEET 1 OF 1

INSPECTION DATE 1/13/93



| MATERIAL | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|--------------------------|
| 1. - MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - SILT FENCES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. REMARKS <u>REINFORCED SILT STRUCTURES WITH ADDITIONAL</u> <u>HAY BALES AND TIGHTENED UP THOSE SILT FENCES</u> <u>WHICH WERE SAGGING. SILT STRUCTURES ARE IN</u> <u>PLACE.</u> | | | |

INSPECTOR

Fredrick J. Martin

DATE 1-15-93

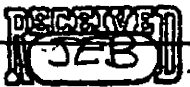
REVIEWED BY

Jonathan Brandes

DATE 1/15/93

EROSION AND SEDIMENT CONTROL

MAY 25 1993



FORM A-16

SHEET 1 OF 1

INSPECTION DATE 5/21/93

ACCEPT REJECT N/A

1. MATERIAL

- MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN:

✓

2. PLACEMENT

- SILT FENCES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

✓

3. LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES.

✓

4. REMARKS ALL SILT FENCES ARE INTACT AND FUNCTIONING PROPERLY. IN THE CHANNELS ALL STRAW BALES ARE PROPERLY PLACED.

INSPECTOR

Joseph A. Colomartino
Jonathan Sanders

DATE 5/21/93

REVIEWED BY

DATE 5/25/93

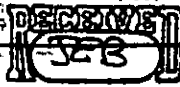
MAY 25 1993

FORM A-16

SHEET 1 OF 1

INSPECTION DATE

EROSION AND SEDIMENT CONTROL



ACCEPT

REJECT

1. MATERIAL

- MANUFACTURER'S LABEL OR CERTIFICATE
- COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

2. PLACEMENT

- SILT FENCES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED
- AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

3. LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES.

4. REMARKS: ALL SILT FENCE & HAY BALES ARE PROPERLY PLACED AND FUNCTIONING.

INSPECTOR

Joseph L. Colonates

REVIEWED BY

Jonathan Brando

DATE 5/25/93

DATE 5/25/93

EROSION AND SEDIMENT CONTROL

MAY 21 1993

FORM A-16

SHEET 1 OF 1

INSPECTION DATE 5/21/93



ACCEPT

REJECT

1. MATERIAL

- MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

✓

2. PLACEMENT

- SILT FENCES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

✓

3. LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES.

✓

4. REMARKS

START TO EXISTING DRAINAGE SLOPE FROM WEST CHANNEL WEST P.T. SLOPE RAMP IN SLOPE TO EFFECT SEDIMENT CONTROL

INSPECTOR

Joseph A. Colaninno

DATE 5/21/93

REVIEWED BY

Jonathan Brando

DATE 5/21/93

MAY 28 1993

FORM A-16

SHEET 1 OF 1

INSPECTION DATE 5/28/93

EROSION AND SEDIMENT CONTROL



ACCEPT

REJECT

N/A

1. MATERIAL

- MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

✓

2. PLACEMENT

- SILT FENCES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

✓

3. LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES.

✓

4. REMARKS EACH SWALE ON CELA HAS HAYBALS WITH
Geocumposit PLANT IT TO ACT AS Sediment-CONTROL
EROSION CONTROL MAT IS ORDERED TO PLACE ON DIKE SLOPE
WHEN IT ARRIVES IT WILL BE PLACED AND SEEDING WILL
START ON DIKE SLOPE AND POND AREA WHICH HAS BEEN
WILL ALSO BE SEEDING.

INSPECTOR

REVIEWED BY

Joseph D. Clemente
Jonathan Banks

NOTED BY

DATE

5/28/93

RECEIVED BY

DATE

5/28/93

EROSION AND SEDIMENT CONTROL

JUN 02 1993



FORM A-16

SHEET 1 OF 1
INSPECTION DATE 6/2/93

ACCEPT REJECT N/A

1. MATERIAL

- MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

✓

2. PLACEMENT

- SILT FENCES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

✓

3. LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES.

✓

4. REMARKS EROSION MAT WAS PLACED ON SLOPE OF DIKE AND
SEDED TO HOLD MAT IN PLACE.

INSPECTOR

Joseph D. Colaninno
Nathan Brancos

DATE 6/2/93

REVIEWED BY

NOTES

DATE 6/3/93

EROSION AND SEDIMENT CONTROL

14 1993

FORM A-16

SHEET _____ OF _____

INSPECTION DATE: 6/1/93



ACCEPT REJECT N/A

1. MATERIAL

- MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

✓

2. PLACEMENT

- SILT FENCES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

✓

3. LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES.

✓

4. REMARKS

Sediment Control Area in effect

INSPECTOR

Jonathan Brant

DATE

6/6/93

REVIEWED BY

Jonathan Brant

DATE

6/16/93

EROSION AND SEDIMENT CONTROL

JUN 0 1993
DECEMBER
1993

FORM A-16
SHEET 1 OF 1
INSPECTION DATE 6/14/93

ACCEPT REJECT N/A

1. MATERIAL

- MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

✓

2. PLACEMENT

- SILT FENCES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

✓

3. LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES.

✓

4. REMARKS EARLIER IN THE WEEK EROSION CONTROL MAT WAS
INSTALLED ON DIKE SLOPE AND IT WAS SEEDING.

INSPECTOR

*Joseph L. C...
Jonathan Bonds*

DATE 6/14/93

REVIEWED BY

DATE 6/7/93

EROSION AND SEDIMENT CONTROL

JUN 15 1993
RECEIVED
38

FORM A-16

SHEET 1 OF 1
INSPECTION DATE

ACCEPTED

REJECTED

1. MATERIAL

- MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

✓

2. PLACEMENT

- SILT FENCES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

✓

3. LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES.

✓

4. REMARKS

Place Jute mat on East Dike slope.

INSPECTOR

Joseph L. Colonatis

DATE

6/14/93

REVIEWED BY

Jonathan Brando

DATE

6/16/93

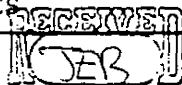
INSTALLATION OF FENCES AND GATES

JUN 1 - 1993

FORM A-17

SHEET 1 OF 1

INSPECTION DATE 6/11/93



ACCEPT REJECT N/A

1. MATERIAL

- POSTS, RAILS, GATE FRAMES, AND POST BRACES ARE HOT-DIP GALVANIZED.
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. (ATTACH COPY).
- MATERIALS AND COATINGS FURNISHED ARE TESTED AND MEET THE REQUIREMENTS OF SPECIFICATIONS (ATTACH RESULTS).

✓
✓
✓

2. VERIFICATION INSPECTION

- CONCRETE FOOTING DEPTH AND DIAMETER IS ACCORDING TO DESIGN DRAWINGS (BEFORE PLACEMENT OF CONCRETE).
- SPACING OF FOOTINGS IS ACCORDING TO DESIGN DRAWINGS.
- LOCATION OF FENCES AND GATES ARE IN ACCORDANCE WITH DESIGN DRAWINGS (SURVEYOR VERIFY).

✓
✓
✓

3. LOCATION (APPROXIMATE) EAST ~~Side~~ A-D

North ~~Side~~ Side of West Dike

4. REMARKS Post holes will be 12" dia.

And additional cement will be used to fill voids.

INSPECTOR

Joseph L. Colanto
Jonathan Brancos

DATE

6/11/93

REVIEWED

DATE

6/16/93

INSTALLATION OF FENCES AND GATES

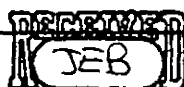
JUN 11 1993

FORM A-17

SHEET OF

INSPECTION DATE

6/11/93



ACCEPT

REJECT

N/A

1. MATERIAL

- POSTS, RAILS, GATE FRAMES, AND POST BRACES ARE HOT-DIP GALVANIZED.
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. (ATTACH COPY).
- MATERIALS AND COATINGS FURNISHED ARE TESTED AND MEET THE REQUIREMENTS OF SPECIFICATIONS (ATTACH RESULTS).

✓

✓

✓

2. VERIFICATION INSPECTION

- CONCRETE FOOTING DEPTH AND DIAMETER IS ACCORDING TO DESIGN DRAWINGS (BEFORE PLACEMENT OF CONCRETE).
- SPACING OF FOOTINGS IS ACCORDING TO DESIGN DRAWINGS.
- LOCATION OF FENCES AND GATES ARE IN ACCORDANCE WITH DESIGN DRAWINGS (SURVEYOR VERIFY).

✓

✓

✓

3. LOCATION (APPROXIMATE)

West Dike

4. REMARKS

Holes for fence post will be
All 12" dia 5'-6' deep all holes will
be filled with appropriate cement

INSPECTOR

Joseph L. Colburn

DATE

6/11/93

REVIEWED BY

Jonathan Brando

DATE

6/14/93

FORM N-10
SHEET 1 OF 1
INSPECTION DATE 9-17-92

1. MATERIAL

- MONITORING WELL AND PIEZOMETER:
MANUFACTURER'S CERTIFICATE HAS BEEN
PROVIDED FOR MATERIAL (ATTACH COPY).

PENDING

- ANNULAR BACKFILL MATERIAL CONFORMS WITH SPECIFICATIONS.

2. PLACEMENT

- MONITORING WELL AND PIEZOMETER
BOREHOLE DIAMETER, DEPTH AND LOCATION
CONFORM WITH CONTRACT DRAWING.

3. DUST CONTROL

ACTION TAKEN

NONE REQUIRED

4. LOCATION (N/E COORDINATE)

P-3 N 767275 E 675340

REMARKS DRILLING COMPLETED, INSTALLATION WILL BE
DONE TOMORROW



INSPECTOR

DATE 9-17-92

REVIEWED BY

DATE 7/18/92

MONITORING WELL AND PIEZOMETER
INSTALLATIONS

FORM A-15
SHEET 1 OF 1
INSPECTION DATE 9-18-92

ACCEPT REJECT N/A

1. MATERIAL

- MONITORING WELL AND PIEZOMETER:
MANUFACTURER'S CERTIFICATE HAS BEEN
PROVIDED FOR MATERIAL (ATTACH COPY).

To Be Provided

- ANNULAR BACKFILL MATERIAL CONFORMS
WITH SPECIFICATIONS.

✓

2. PLACEMENT

- MONITORING WELL AND PIEZOMETER
BOREHOLE DIAMETER, DEPTH AND LOCATION
CONFORM WITH CONTRACT DRAWING.

✓

3. DUST CONTROL

ACTION TAKEN NONE REQUIRED

4. LOCATION (N/E COORDINATE)

P-3

REMARKS SET WELL P-3 TODAY. COVER TO BE PLACED
LATER.

23 11 1992

JEB

INSPECTOR

Frederick J. Mastile

DATE

9-18-92

REVIEWED BY

Jonathan Branks

DATE

9/21/92

MONITORING WELL AND PIEZOMETER
INSTALLATIONS

FORM A-13
SHEET 1 OF 1
INSPECTION DATE 9-21-92

| | ACCEPT | REJECT | N/A |
|--|------------------------|--------|-----|
| 1. MATERIAL | | | |
| - MONITORING WELL AND PIEZOMETER: MANUFACTURER'S CERTIFICATE HAS BEEN PROVIDED FOR MATERIAL (ATTACH COPY). | <u>To Be Submitted</u> | | |
| - ANNULAR BACKFILL MATERIAL CONFORMS WITH SPECIFICATIONS. | <u>✓</u> | | |
| 2. PLACEMENT | | | |
| - MONITORING WELL AND PIEZOMETER BOREHOLE DIAMETER, DEPTH AND LOCATION CONFORM WITH CONTRACT DRAWING. | <u>✓</u> | | |
| 3. DUST CONTROL | | | |
| ACTION TAKEN <u>NONE REQUIRED</u> | | | |
| 4. LOCATION (N/E COORDINATE) | | | |
| <u>P2 ON EAST SIDE</u> | | | |
| REMARKS <u>DRILLED AND SET EXCEPT FOR GROUT.</u> | | | |
| <u>GROUTING WILL BE COMPLETED TOMORROW.</u> | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| INSPECTOR <u>Frederick J. Mastella</u> | | | |
| REVIEWED BY <u>Jonathan Brancos</u> | | | |
| | | | |



DATE 9-21-92

DATE 9/22/92

MONITORING WELL AND PIEZOMETER
INSTALLATIONS

FORM A-15
SHEET 1 OF 1
INSPECTION DATE 9-22-92

ACCEPT REJECT N/A

1. MATERIAL

- MONITORING WELL AND PIEZOMETER:
MANUFACTURER'S CERTIFICATE HAS BEEN
PROVIDED FOR MATERIAL (ATTACH COPY).

To BE SUPPLIED

- ANNULAR BACKFILL MATERIAL CONFORMS
WITH SPECIFICATIONS.

✓

2. PLACEMENT

- MONITORING WELL AND PIEZOMETER
BOREHOLE DIAMETER, DEPTH AND LOCATION
CONFORM WITH CONTRACT DRAWING.

✓

3. DUST CONTROL

ACTION TAKEN NONE REQUIRED

4. LOCATION (N/E COORDINATE)

P-1 (NORTH EAST SIDE)

REMARKS FINISHED P-2, DRILLED, ADDED SAND AND
BENTONITE PELLETS TO P-1. WILL ADD GROUT TO
P-1 TOMORROW

DECISIVE
JEB

INSPECTOR

Frederick Washburn

DATE 9-22-92

REVIEWED BY

Jonathan Brantley

DATE 9/23/92

MONITORING WELL AND PIEZOMETER
INSTALLATIONS

FORM A-15
SHEET 1 OF 1
INSPECTION DATE 9-23-92

1. MATERIAL

ACCEPT REJECT N/A

- MONITORING WELL AND PIEZOMETER:
MANUFACTURER'S CERTIFICATE HAS BEEN
PROVIDED FOR MATERIAL (ATTACH COPY).

~~REJECTED~~ SUBMITTED

- ANNULAR BACKFILL MATERIAL CONFORMS
WITH SPECIFICATIONS.

✓

2. PLACEMENT

- MONITORING WELL AND PIEZOMETER
BOREHOLE DIAMETER, DEPTH AND LOCATION
CONFORM WITH CONTRACT DRAWING.

✓

3. DUST CONTROL

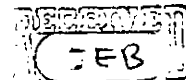
ACTION TAKEN AS REQUIRED

4. LOCATION (N/E COORDINATE)

P-6 (NORTH END OF SITE)

REMARKS DRILLED AND SET P-6 WILL DO P-4

TOMORROW DRILLING LOGS FOR P-1 & P-2 ARE
ATTACHED.



INSPECTOR

Fredrick J. Mastella

DATE 9-23-92

REVIEWED BY

Jonathan Branks

DATE 9/24/92

MONITORING WELL AND PIEZOMETER
INSTALLATIONS

FORM A-13
SHEET 1 OF 1
INSPECTION DATE 9-24-92

ACCEPT REJECT N/A

1. MATERIAL

- MONITORING WELL AND PIEZOMETER:
MANUFACTURER'S CERTIFICATE HAS BEEN
PROVIDED FOR MATERIAL (ATTACH COPY).

WERE SUBMITTED

- ANNULAR BACKFILL MATERIAL CONFORMS
WITH SPECIFICATIONS.

✓

2. PLACEMENT

- MONITORING WELL AND PIEZOMETER
BOREHOLE DIAMETER, DEPTH AND LOCATION
CONFORM WITH CONTRACT DRAWING.

✓

3. DUST CONTROL

ACTION TAKEN AS REQUIRED

4. LOCATION (N/E COORDINATE)

P-4 SOUTH WEST SIDE

REMARKS STARTED AND COMPLETED AS MUCH AS POSSIBLE, P-4
GROUT WAS ADDED TO WITHIN 3 FT OF SUB GRADE TO
ALLOW FOR SETTING THE OUTER CASING.

RECEIVED
JES

INSPECTOR

Frederick J. Mastile

DATE 9-24-92

REVIEWED BY

Jonathan Brannides

DATE 9/26/92

FORM A-10
SHEET 1 OF 1
INSPECTION DATE 9-25-92

1. MATERIAL

- MONITORING WELL AND PIEZOMETER:
MANUFACTURER'S CERTIFICATE HAS BEEN
PROVIDED FOR MATERIAL (ATTACH COPY).

HAVE BEEN SUBMITTED

- ANNULAR BACKFILL MATERIAL CONFORMS WITH SPECIFICATIONS.

- MONITORING WELL AND PIEZOMETER
BOREHOLE DIAMETER, DEPTH AND LOCATION
CONFORM WITH CONTRACT DRAWING.

✓

ACTION TAKEN

NONE REQUIRED

PIEZOMETER P-5. NORTH ^{WEST} ~~EAST~~ SIDE

REMARKS DRILLED AND SET P-5 TODAY. DECONED THE
DRILLING EQUIPMENT AND WILL BEGIN DRILLING THE
MONITORING WELLS ON MONDAY.

RECEIVED
JEB

INSPECTOR

Fredrick J Maslitz

DATE 9-25-92

REVIEWED BY

Jonathan Brandes

DATE 9/26/92

MONITORING WELL AND PIEZOMETER
INSTALLATIONS

FORM A-10
SHEET 1 OF 1
INSPECTION DATE 9-29-92

ACCEPT REJECT N/A

1. MATERIAL

- MONITORING WELL AND PIEZOMETER:
MANUFACTURER'S CERTIFICATE HAS BEEN
PROVIDED FOR MATERIAL (ATTACH COPY).
- ANNULAR BACKFILL MATERIAL CONFORMS
WITH SPECIFICATIONS.

AWAITING APPROVAL

✓

2. PLACEMENT

- MONITORING WELL AND PIEZOMETER
BOREHOLE DIAMETER, DEPTH AND LOCATION
CONFORM WITH CONTRACT DRAWING.

✓

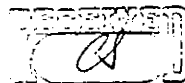
3. DUST CONTROL

ACTION TAKEN NONE REQUIRED

4. LOCATION (N/E COORDINATE)

MWR-1

REMARKS DRILLED TO 32' DEPTH AND SET.



INSPECTOR

Frederick J. Martello

DATE 9-29-92

REVIEWED BY

Colin P. Johnson

DATE 9/30/92

MONITORING WELL AND PIEZOMETER
INSTALLATIONS

FORM A-13
SHEET 1 OF 1
INSPECTION DATE 9-30-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - MONITORING WELL AND PIEZOMETER: MANUFACTURER'S CERTIFICATE HAS BEEN PROVIDED FOR MATERIAL (ATTACH COPY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ANNULAR BACKFILL MATERIAL CONFORMS WITH SPECIFICATIONS. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. PLACEMENT | | | |
| - MONITORING WELL AND PIEZOMETER BOREHOLE DIAMETER, DEPTH AND LOCATION CONFORM WITH CONTRACT DRAWING. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. DUST CONTROL | | | |
| ACTION TAKEN <u>NOTE REQUIRED</u> | | | |
| 4. LOCATION (N/E COORDINATE) | | | |
| <u>MWR-11</u> | | | |
| REMARKS <u>DRILLED TO 27' DEPTH. BECAUSE OF EQUIPMENT</u> | | | |
| <u>BREAKDOWN, WELL CORDS NOT BE SET TODAY.</u> | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| INSPECTOR <u>Chris Bates</u> | | DATE <u>9-30-92</u> | |
| REVIEWED BY <u>Collin E. Johnson</u> | | DATE <u>10/1/92</u> | |

MONITORING WELL AND PIEZOMETER
INSTALLATIONS

FORM A-13
SHEET 1 OF 1
INSPECTION DATE 10-1-92

ACCEPT REJECT N/A

1. MATERIAL

- MONITORING WELL AND PIEZOMETER:
MANUFACTURER'S CERTIFICATE HAS BEEN
PROVIDED FOR MATERIAL (ATTACH COPY).
- ANNULAR BACKFILL MATERIAL CONFORMS
WITH SPECIFICATIONS.

✓
✓

2. PLACEMENT

- MONITORING WELL AND PIEZOMETER
BOREHOLE DIAMETER, DEPTH AND LOCATION
CONFORM WITH CONTRACT DRAWING.

✓

3. DUST CONTROL

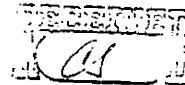
ACTION TAKEN NONE REQUIRED

4. LOCATION (N/E COORDINATE)

MWR-11 & MWR-7

REMARKS

COMPLETED MWR-11 TODAY BY SETTING WELL.
STARTED MWR-7 & COMPLETED DRILLING IT.



INSPECTOR

Chris Bault

DATE

10-1-92

REVIEWED BY

Colvin P. Schow

DATE

10/2/92

FORM A-13
SHEET 1 OF 1
INSPECTION DATE 10-2-92

1. MATERIAL

- MONITORING WELL AND PIEZOMETER:
MANUFACTURER'S CERTIFICATE HAS BEEN
PROVIDED FOR MATERIAL (ATTACH COPY).

HAS BEEN SUBMITTED

- ANNULAR BACKFILL MATERIAL CONFORMS WITH SPECIFICATIONS.

- MONITORING WELL AND PIEZOMETER
BOREHOLE DIAMETER, DEPTH AND LOCATION
CONFORM WITH CONTRACT DRAWING.

✓

ACTION TAKEN

NONE REQUIRED

MWR-7 ON DIKE.

REMARKS HIT CLAY AT 38' AND DRILLED TO 40'

MOVED EQUIPMENT TO DRILL MWR-6. SEE

UW-7.

INSPECTOR

R Frederick J. Mastile

DATE 10-2-92

REVIEWED BY

Collins, J. Scrum

DATE 10/5/92

MONITORING WELL AND PIEZOMETER
INSTALLATIONS

FORM A-15
SHEET 1 OF 1
INSPECTION DATE 10-5-92

ACCEPT REJECT N/A

1. MATERIAL

- MONITORING WELL AND PIEZOMETER:
MANUFACTURER'S CERTIFICATE HAS BEEN
PROVIDED FOR MATERIAL (ATTACH COPY).
- ANNULAR BACKFILL MATERIAL CONFORMS
WITH SPECIFICATIONS.

WAITING FOR APPROVAL

✓

2. PLACEMENT

- MONITORING WELL AND PIEZOMETER
BOREHOLE DIAMETER, DEPTH AND LOCATION
CONFORM WITH CONTRACT DRAWING.

✓

3. DUST CONTROL

ACTION TAKEN NONE REQUIRED

4. LOCATION (N/E COORDINATE)

MWR-6

REMARKS MWR-6 WAS DRILLED AND FINISHED
TO THE BENTONITE ADDITION. WILL FINISH
TOMORROW. OUTER CASINGS WERE PLACED ON
MWR-1, 7+11 AND PIEZOMETER P-5.

103
TECHNICAL
CS

INSPECTOR

Fredrick C. Mastels

DATE 10-5-92

REVIEWED BY

Colin G. Brown

DATE 10/7/92

MONITORING WELL AND PIEZOMETER
INSTALLATIONS

FORM A-15
SHEET 1 OF 1
INSPECTION DATE 10-6-92

| | ACCEPT | REJECT | N/A |
|--|----------|---------------|---------------------|
| 1. MATERIAL | | | |
| - MONITORING WELL AND PIEZOMETER: MANUFACTURER'S CERTIFICATE HAS BEEN PROVIDED FOR MATERIAL (ATTACH COPY). | <u>/</u> | <u> </u> | <u> </u> |
| - ANNULAR BACKFILL MATERIAL CONFORMS WITH SPECIFICATIONS. | <u>/</u> | <u> </u> | <u> </u> |
| 2. PLACEMENT | | | |
| - MONITORING WELL AND PIEZOMETER BOREHOLE DIAMETER, DEPTH AND LOCATION CONFORM WITH CONTRACT DRAWING. | <u>/</u> | <u> </u> | <u> </u> |
| 3. DUST CONTROL | | | |
| ACTION TAKEN <u>NONE REQUIRED</u> | | | |
| 4. LOCATION (N/E COORDINATE) | | | |
| <u>MWR-5 ON DIKE</u> | | | |
| REMARKS <u>DRILLED AND SET TO BENTONITE PELLETS.</u> | | | |
| <u>OUTER CASING AND GROUT WILL BE DONE TOMORROW.</u> | | | |
| <u>DRILLING - LOGS FOR WELLS MWR-5 & MWR-6 ATTACHED.</u> | | | |
| | | | |
| | | | |
| | | | |
| INSPECTOR <u>Fredrick J. Mastilo</u> | | | DATE <u>10-6-92</u> |
| REVIEWED BY <u>Colin P. Sullivan</u> | | | DATE <u>10/7/92</u> |

MONITORING WELL AND PIEZOMETER
INSTALLATIONS


FORM A-15
SHEET 1 OF 1
INSPECTION DATE 10-7-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MONITORING WELL AND PIEZOMETER: MANUFACTURER'S CERTIFICATE HAS BEEN PROVIDED FOR MATERIAL (ATTACH COPY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ANNULAR BACKFILL MATERIAL CONFORMS WITH SPECIFICATIONS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - MONITORING WELL AND PIEZOMETER BOREHOLE DIAMETER, DEPTH AND LOCATION CONFORM WITH CONTRACT DRAWING. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. DUST CONTROL | | | |
| ACTION TAKEN <u>WATER REQUIRED</u> | | | |
| 4. LOCATION (N/E COORDINATE) | | | |
| <u>MWR-4</u> | | | |
| REMARKS | | | |
| <u>COMPLETED SETTING MWR-5, PLACED PROTECTIVE</u> | | | |
| <u>CASINGS AROUND P-4 & P-3 DRAINED MWR-4</u> | | | |
| <u>TO DEPTH. WILL RACE WELL TOMORROW. NOTIFIED R. NORTH</u> | | | |
| <u>PIEZOMETER P-4 TIP ELEVATION = 1983 NOT 1980.</u> | | | |
| INSPECTOR <u>Chris Barty</u> | | | |
| REVIEWED BY <u>Collin P. Brown</u> | | | |
| DATE <u>10-7-92</u> | | | |
| DATE <u>10/8/92</u> | | | |



MONITORING WELL AND PIEZOMETER
INSTALLATIONS

FORM A-13
SHEET 1 OF 1
INSPECTION DATE 10-8-92

| | ACCEPT | REJECT | N/A |
|--|--------------------------|--------|-----|
| 1. MATERIAL | | | |
| - MONITORING WELL AND PIEZOMETER: MANUFACTURER'S CERTIFICATE HAS BEEN PROVIDED FOR MATERIAL (ATTACH COPY). | <u>Awaiting Approval</u> | | |
| - ANNULAR BACKFILL MATERIAL CONFORMS WITH SPECIFICATIONS. | <u>✓</u> | | |
| 2. PLACEMENT | | | |
| - MONITORING WELL AND PIEZOMETER BOREHOLE DIAMETER, DEPTH AND LOCATION CONFORM WITH CONTRACT DRAWING. | <u>✓</u> | | |
| 3. DUST CONTROL | | | |
| ACTION TAKEN <u>NONE REQUIRED</u> | | | |
| 4. LOCATION (N/E COORDINATE) | | | |
| <u>MONITORING WELLS MWR-3 + MWR-4 ON DIKE.</u> | | | |
| REMARKS <u>MONITORING WELL MWR-4 WAS COMPLETED AND</u> <u>MWR-3 WAS STARTED AND COMPLETED TO THE</u> <u>ADDITION OF BENTONITE PELLETS.</u> | | | |
| <u>DRILLING LOGS FOR MWR-3 & MWR-4 ARE ATTACHED</u> | | | |
|  | | | |
| INSPECTOR <u>Frederick J. Mastels</u> | DATE <u>10-8-92</u> | | |
| REVIEWED BY <u>Colin P. J. J. J.</u> | DATE <u>10/9/92</u> | | |

SHEET 1 OF 1
INSPECTION DATE 10-9-92

| ACCEPT | REJECT | N/A |
|--------|--------|-----|
|--------|--------|-----|

- MONITORING WELL AND PIEZOMETER: MANUFACTURER'S CERTIFICATE HAS BEEN PROVIDED FOR MATERIAL (ATTACH COPY).
- ANNULAR BACKFILL MATERIAL CONFORMS WITH SPECIFICATIONS.

✓ _____

✓ _____

- MONITORING WELL AND PIEZOMETER
BOREHOLE DIAMETER, DEPTH AND LOCATION
CONFORM WITH CONTRACT DRAWING.

ACTION TAKEN None Required

COMPLETED SETTING MWR-3 DRILLED 13' ON MWR-2

REMARKS _____

_____

DATE 10-9-92

DATE 10/10/92

MONITORING WELL AND PIEZOMETER
INSTALLATIONS

SHEET 1 OF 1
INSPECTION DATE 10-12-92

| | ACCEPT | REJECT | N/A |
|--|--------|--------|-----|
|--|--------|--------|-----|

1. MATERIAL

- MONITORING WELL AND PIEZOMETER:
MANUFACTURER'S CERTIFICATE HAS BEEN
PROVIDED FOR MATERIAL (ATTACH COPY).

✓

- ANNULAR BACKFILL MATERIAL CONFORMS
WITH SPECIFICATIONS.

✓

2. PLACEMENT

- MONITORING WELL AND PIEZOMETER
BOREHOLE DIAMETER, DEPTH AND LOCATION
CONFORM WITH CONTRACT DRAWING.

✓

3. DUST CONTROL

ACTION TAKEN NONE REQUIRED

4. LOCATION (N/E COORDINATE)

MWR-2

REMARKS Well MWR-2 WAS COMPLETED TODAY.

THERE ARE 3 WELLS REMAINING WHICH MUST BE
DRILLED - MWR- 8, 9 & 10. WHEN THE WELLS ARE
COMPLETED DEVELOPMENT WILL BEGIN.



INSPECTOR

Frederick S. Martile

DATE 10-12-92

REVIEWED BY

Colin P. Larson

DATE 10/13/92

MONITORING WELL AND PIEZOMETER
INSTALLATIONS

SHEET 1 OF 1
INSPECTION DATE 10-13-92

ACCEPT REJECT N/A

1. MATERIAL

- MONITORING WELL AND PIEZOMETER:
MANUFACTURER'S CERTIFICATE HAS BEEN
PROVIDED FOR MATERIAL (ATTACH COPY).
- ANNULAR BACKFILL MATERIAL CONFORMS
WITH SPECIFICATIONS.

✓

✓

2. PLACEMENT

- MONITORING WELL AND PIEZOMETER
BOREHOLE DIAMETER, DEPTH AND LOCATION
CONFORM WITH CONTRACT DRAWING.

✓

3. DUST CONTROL

ACTION TAKEN

NONE REQUIRED

4. LOCATION (N/E COORDINATE)

MWR-9 ALONG THE WEST SIDE.

REMARKS R NORTH APPROVED MOVING MWR-10 SOUTH 10'
TO KEEP FROM DAMAGING TREES ALONG THE HAUL ROAD.
MWR-9 WAS COMPLETED AND TWO WELLS REMAIN FOR
DRILLING. INSTALLED PIPE SLEEVE PE-3.



INSPECTOR

Frederick J. Mastella

DATE 10-13-92

REVIEWED BY

Colin P. Lukan

DATE 10/13/92

MONITORING WELL AND PIEZOMETER
INSTALLATIONS

SHEET 1 OF 1
INSPECTION DATE 10-14-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MONITORING WELL AND PIEZOMETER: MANUFACTURER'S CERTIFICATE HAS BEEN PROVIDED FOR MATERIAL (ATTACH COPY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ANNULAR BACKFILL MATERIAL CONFORMS WITH SPECIFICATIONS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - MONITORING WELL AND PIEZOMETER BOREHOLE DIAMETER, DEPTH AND LOCATION CONFORM WITH CONTRACT DRAWING. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. DUST CONTROL | | | |
| ACTION TAKEN <u>NONE REQUIRED</u> | | | |

4. LOCATION (N/E COORDINATE)

MWR-10 NORTH WEST SIDE OF SITE

REMARKS MONITORING WELL MWR-10 WAS MOVED 10' SOUTH
OF ITS NEW LOCATION TO AVOID DAMAGE TO THE TREES. IT
WAS COMPLETED AND ONLY MWR-3 REMAINS TO BE DRILLED
AND SET.

DRILLING LOGS FOR MWR-7 & MWR-10 ARE ATTACHED



INSPECTOR

Frederick J. Washburn

DATE

10-14-92

REVIEWED BY

Collin P. Johnson

DATE

10/15/92

MONITORING WELL AND PIEZOMETER
INSTALLATIONS

SHEET 1 OF 1
INSPECTION DATE 10-15-92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - MONITORING WELL AND PIEZOMETER: MANUFACTURER'S CERTIFICATE HAS BEEN PROVIDED FOR MATERIAL (ATTACH COPY). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ANNULAR BACKFILL MATERIAL CONFORMS WITH SPECIFICATIONS. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. PLACEMENT | | | |
| - MONITORING WELL AND PIEZOMETER BOREHOLE DIAMETER, DEPTH AND LOCATION CONFORM WITH CONTRACT DRAWING. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. DUST CONTROL | | | |
| ACTION TAKEN <u>NONE REQUIRED</u> | | | |
| 4. LOCATION (N/E COORDINATE) | | | |
| <u>MWR-8</u> | | | |
| REMARKS | | | |
| <u>COMPLETED DRILLING & SETTING MWR-8. ALL</u> | | | |
| <u>WELLS & PIEZOMETERS ARE INSTALLED.</u> | | | |
| <u>DEVELOPMENT OF WELLS TO BEGIN</u> | | | |
| <u>TOMORROW. DRILLING LOG FOR MWR-8 IS</u> | | | |
| <u>ATTACHED.</u> | | | |
| INSPECTOR <u>Chris Bate</u> | | | |
| REVIEWED BY <u>Collin P. Jensen</u> | | | |
| DATE <u>10-15-92</u> | | | |
| DATE <u>10/16/92</u> | | | |



MONITORING WELL AND PIEZOMETER
INSTALLATIONS

SHEET 1 OF 1
INSPECTION DATE 10-16-92

| | ACCEPT | REJECT | N/A |
|--|--------|--------|-----|
| 1. MATERIAL | | | |
| - MONITORING WELL AND PIEZOMETER: MANUFACTURER'S CERTIFICATE HAS BEEN PROVIDED FOR MATERIAL (ATTACH COPY). | / | | |
| - ANNULAR BACKFILL MATERIAL CONFORMS WITH SPECIFICATIONS. | / | | |
| 2. PLACEMENT | | | |
| - MONITORING WELL AND PIEZOMETER BOREHOLE DIAMETER, DEPTH AND LOCATION CONFORM WITH CONTRACT DRAWING. | / | | |
| 3. DUST CONTROL | | | |
| ACTION TAKEN <u>NONE REQUIRED</u> | | | |

4. LOCATION (N/E COORDINATE)

N/A

REMARKS DEVELOPED MONITORING WELL MWR-11. THE
WELL WAS SURGED AND DEVELOPED FOR 8 HOURS AS PER
THE SPECS, BUT THE NTU'S WERE NOT LESS THAN 10.
THE NTU READING WAS 195. CLARIFICATION OF THE
SPECIFICATIONS WOULD BE APPRECIATED.

INSPECTOR

Frederick Mastitis

DATE 10-16-92

REVIEWED BY

John H. Fox (Galgator)

DATE 10-19-92

MONITORING WELL AND PIEZOMETER
INSTALLATIONS

INSPECTION DATE 10-21-92
SHEET 1 OF 1

ACCEPT REJECT N/A

1. MATERIAL

- MONITORING WELL AND PIEZOMETER:
MANUFACTURER'S CERTIFICATE HAS BEEN
PROVIDED FOR MATERIAL (ATTACH COPY).
- ANNULAR BACKFILL MATERIAL CONFORMS
WITH SPECIFICATIONS.

✓

✓

2. PLACEMENT

- MONITORING WELL AND PIEZOMETER
BOREHOLE DIAMETER, DEPTH AND LOCATION
CONFORM WITH CONTRACT DRAWING.

✓

3. DUST CONTROL

ACTION TAKEN

NONE REQUIRED

4. LOCATION (N/E COORDINATE)

N/A

5. REMARKS CONTINUED TO WORK ON DEVELOPING THE
REMAINING WELLS.

INSPECTOR

Fredrick J. Mastitis

DATE 10-21-92

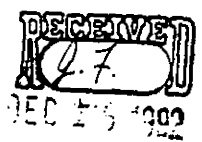
REVIEWED BY

John L. Fox (Geogtec)

DATE 10-22-92

MONITORING WELL AND PIEZOMETER
INSTALLATIONS

FORM A-15
SHEET 1 OF 1
INSPECTION DATE 12-15-92

| | ACCEPT | REJECT | N/A |
|--|--------|--------|----------------------|
| 1. MATERIAL | | | |
| - MONITORING WELL AND PIEZOMETER: MANUFACTURER'S CERTIFICATE HAS BEEN PROVIDED FOR MATERIAL (ATTACH COPY). | _____ | _____ | ✓ |
| - ANNULAR BACKFILL MATERIAL CONFORMS WITH SPECIFICATIONS. | _____ | _____ | ✓ |
| 2. PLACEMENT | | | |
| - MONITORING WELL AND PIEZOMETER BOREHOLE DIAMETER, DEPTH AND LOCATION CONFORM WITH CONTRACT DRAWING. | _____ | _____ | ✓ |
| 3. DUST CONTROL | | | |
| ACTION TAKEN <u>NONE REQUIRED</u> | | | |
| 4. LOCATION (N/E COORDINATE) | | | |
| <u>MWR-7 ON DIKE</u> | | | |
| 5. REMARKS | | | |
| <u>MONITORING WELL MWR-7 WAS</u> | | | |
| <u>DEVELOPED TODAY. 300 GALLONS OF WATER</u> | | | |
| <u>WAS PUMPED FROM THE WELL OVER A 1 HOUR</u> | | | |
| <u>PERIOD THE ESTIMATED VOLUME OF THE WELL</u> | | | |
| <u>WAS 22 GALLONS. THE WATER FROM DEVELOPING THE</u> | | | |
| <u>WELL WAS PLACED IN THE WATER IMPOUNDMENT.</u> | | | |
|  | | | |
| INSPECTOR <u>Frederick J. Wasth</u> | | | DATE <u>12-15-92</u> |
| REVIEWED BY <u>John L. Fox</u> | | | DATE <u>12-16-92</u> |

MONITORING WELL AND PIEZOMETER
INSTALLATIONS

FORM A-1b
SHEET 1 OF 1
INSPECTION DATE 12-16-92

ACCEPT REJECT N/A

1. MATERIAL

- MONITORING WELL AND PIEZOMETER:
MANUFACTURER'S CERTIFICATE HAS BEEN
PROVIDED FOR MATERIAL (ATTACH COPY).
- ANNULAR BACKFILL MATERIAL CONFORMS
WITH SPECIFICATIONS.

2. PLACEMENT

- MONITORING WELL AND PIEZOMETER
BOREHOLE DIAMETER, DEPTH AND LOCATION
CONFORM WITH CONTRACT DRAWING.

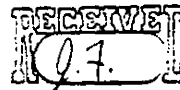
3. DUST CONTROL

ACTION TAKEN None Required

4. LOCATION (N/E COORDINATE)

MONITORING WELL DEVELOPMENT MWR-6, 54, 3, 2, 10

5. REMARKS DEVELOPED 6 MONITORING WELLS TODAY AS
LISTED ABOVE. THE AMOUNT TAKEN TO DEVELOP EACH
WELL IS MWR-6, 100 GAL; MWR-5, 90 GAL; MWR-4,
55 GAL; MWR-3, 90 GAL; MWR-2, 140 GAL, AND MWR-10,
110 GAL.



INSPECTOR Fredrick S. Mathis

DATE 12-16-92

REVIEWED BY John H. Fox

DATE 12-17-92

MONITORING WELL AND PIEZOMETER
INSTALLATIONS

FORM A-16
SHEET 1 OF 1
INSPECTION DATE 12/17/92

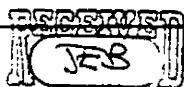
| | ACCEPT | REJECT | N/A |
|--|--------|--------|----------------------|
| 1. MATERIAL | | | |
| - MONITORING WELL AND PIEZOMETER: MANUFACTURER'S CERTIFICATE HAS BEEN PROVIDED FOR MATERIAL (ATTACH COPY). | _____ | _____ | ✓ |
| - ANNULAR BACKFILL MATERIAL CONFORMS WITH SPECIFICATIONS. | _____ | _____ | ✓ |
| 2. PLACEMENT | | | |
| - MONITORING WELL AND PIEZOMETER BOREHOLE DIAMETER, DEPTH AND LOCATION CONFORM WITH CONTRACT DRAWING. | _____ | _____ | ✓ |
| 3. DUST CONTROL | | | |
| ACTION TAKEN <u>None Required</u> | | | |
| 4. LOCATION (N/E COORDINATE) | | | |
| <u>monitoring wells & Piezometers</u> | | | |
| REMARKS <u>monitoring wells Relined & Volume</u> <u>Piezometers & Volume monitoring wells done both</u> <u>mark 1, mark 9, mark B; Piezometers wells no. P1, P5, P4</u> <u>P6 contained from product & was not Relined.</u> <u>Volumes: mark-1 115gal, mark-9 105gal; mark-B 80gal;</u> <u>Piezometers 40gal each. monitoring wells finished, Piezometers</u> <u>2 wells left.</u> | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| INSPECTOR <u>J. Columarino / Federal, Martins</u> | | | DATE <u>12/17/92</u> |
| REVIEWED BY <u>John R. Fox</u> | | | DATE <u>12-18-92</u> |

DEC 19 1992



MONITORING WELL AND PIEZOMETER
INSTALLATIONS

FORM A-1b
SHEET 1 OF 1
INSPECTION DATE 12-18-92



ACCEPT REJECT N/A

1. MATERIAL

- MONITORING WELL AND PIEZOMETER:
MANUFACTURER'S CERTIFICATE HAS BEEN
PROVIDED FOR MATERIAL (ATTACH COPY).
- ANNULAR BACKFILL MATERIAL CONFORMS
WITH SPECIFICATIONS.

2. PLACEMENT

- MONITORING WELL AND PIEZOMETER
BOREHOLE DIAMETER, DEPTH AND LOCATION
CONFORM WITH CONTRACT DRAWING.

3. DUST CONTROL

ACTION TAKEN NONE REQUIRED

4. LOCATION (N/E COORDINATE)

DEVELOPED PIEZOMETER WELLS

5. REMARKS FINISHED DEVELOPING THE PIEZOMETERS TODAY

P-2 AND P-3 WERE COMPLETED. P-2 HAD 35 GALLONS
PUMPED FROM IT AND P-3 HAD 50 GALLONS PUMPED FROM IT.
ALL MONITORING WELLS AND PIEZOMETERS HAVE BEEN
COMPLETED THE MONITORING WELLS ON THE DIKE HAVE
BEEN MARKED WITH CRANGE STAKES AND PINK FLAGS
TO SHOW WHERE THEY ARE LOCATED.

INSPECTOR

Fredrick S. Maslett

DATE 12-18-92

REVIEWED BY

Jonathan Brant

DATE 12/17/92

MONITORING WELL AND PIEZOMETER
INSTALLATIONS



FORM A-18
SHEET 1 OF 1
INSPECTION DATE 6/4/93

| | ACCEPT | REJECT | N/A |
|--|--------|--------------------|-------|
| 1. MATERIAL | | | |
| MONITORING WELL AND PIEZOMETER: MANUFACTURER'S CERTIFICATE HAS BEEN PROVIDED FOR MATERIAL (ATTACH COPY). | _____ | _____ | ✓ |
| - ANNULAR BACKFILL MATERIAL CONFORMS WITH SPECIFICATIONS. | _____ | _____ | ✓ |
| 2. PLACEMENT | | | |
| - MONITORING WELL AND PIEZOMETER BOREHOLE DIAMETER, DEPTH AND LOCATION CONFORM WITH CONTRACT DRAWING. | ✓ | _____ | _____ |
| 3. DUST CONTROL | | | |
| ACTION TAKEN <u>Water Truck</u> | | | |
| 4. LOCATION (N/E COORDINATE) | | | |
| <u>PS5- was extended and also P-6 as per ARCO Changeorder</u> | | | |
| 5. REMARKS <u>Empire Soils Investigation L-C. Came out 5:30 PM</u> | | | |
| <u>and installed a Pipe Stake extension and also extended the</u> | | | |
| <u>Piezometer well P-6.</u> | | | |
| | | | |
| | | | |
| | | | |
| INSPECTOR <u>Joseph A. Colaninno</u> | | DATE <u>6/4/93</u> | |
| REVIEWED BY <u>Jonathan Brande</u> | | DATE <u>6/7/93</u> | |

**QUALITY ASSURANCE FORMS
COMPLETED BY
GEOSYNTEC CONSULTANTS**

- **FORM A-2A PLACEMENT OF SOIL-BENTONITE
CUTOFF WALL**

PLACEMENT OF SOIL BENTONITE CUTOFF WALL
(cont'd)

FORM A-2A
SHEET 2 OF 2
INSPECTION DATE 7/9/92

| | ACCEPT | REJECT | N/A |
|---|----------|--------|----------|
| BACKFILL | | | |
| - SLUMP TEST (EVERY 2000 CY) | _____ | _____ | <u>✓</u> |
| - DENSITY (EVERY 2000 CY) | _____ | _____ | <u>✓</u> |
| - PERMEABILITY (SHELBY) (EVERY 5000 CY) | _____ | _____ | <u>✓</u> |
| - SIEVE ANALYSIS (EVERY 2000 CY) | _____ | _____ | <u>✓</u> |
| - SLOPE | _____ | _____ | <u>✓</u> |
| - DISTANCE | _____ | _____ | <u>✓</u> |
| - CLAY CLOD SIZE | _____ | _____ | <u>✓</u> |
| - AGGREGATE SIZE | _____ | _____ | <u>✓</u> |
| KEY IN THE CLAY | | | |
| - DEPTH TO CLAY (EVERY 100 FEET) | <u>✓</u> | _____ | <u>✓</u> |
| - SAMPLE OF CLAY FOR RECORD (EVERY 100 FEET OF WALL LENGTH) | _____ | _____ | <u>✓</u> |
| - ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH) | _____ | _____ | <u>✓</u> |
| TRENCH | | | |
| - VERTICALITY (EVERY 300 FEET) | _____ | _____ | <u>✓</u> |
| TRAFFIC CAP | | | |
| - THICKNESS OF CAP (EVERY 300 FEET) | _____ | _____ | <u>✓</u> |
| - MOISTURE CONTENT (EVERY 250 CY) | _____ | _____ | <u>✓</u> |
| - IN-PLACE DENSITY (EVERY 250 CY) | _____ | _____ | <u>✓</u> |
| - PERMEABILITY (EVERY 500 CY) | _____ | _____ | <u>✓</u> |

3. DUST CONTROL _____
4. LOCATION _____
5. REMARKS Depth checked at st. 2+70

INSPECTOR _____ DATE _____

REVIEWED BY _____ DATE _____

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2A

SHEET 1 OF 2

INSPECTION DATE 7/9/92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. QC AND VERIFICATION TESTINGS | | | |
| <u>FRESH SLURRY</u> | | | |
| - DENSITY (1 TEST PER WEEK) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - VISCOSITY (1 TEST PER WEEK) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - FILTRATE LOSS (1 TEST PER WEEK) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - PH (1 TEST PER WEEK) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| ALL ABOVE TESTS SHALL BE PERFORMED FOR THE SLURRY READY TO BE PLACED IN THE TRENCH. | | | |
| <u>SLURRY IN TRENCH</u> | | | |
| - DENSITY OF THE SLURRY (1 TEST PER WEEK). | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - VISCOSITY OF THE SLURRY (1 TEST PER WEEK) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

PLACEMENT OF SOIL BENTONITE CUTOFF WALL
(cont'd)

FORM A-2A
SHEET 2 OF 2
INSPECTION DATE 11/12/92

BACKFILL

- SLUMP TEST (EVERY 2000 CY)
- DENSITY (EVERY 2000 CY)
- PERMEABILITY (SHELBY) (EVERY 5000 CY)
- SIEVE ANALYSIS (EVERY 2000 CY)

- SLOPE
- DISTANCE
- CLAY CLOD SIZE
- AGGREGATE SIZE

KEY IN THE CLAY

- DEPTH TO CLAY (EVERY 100 FEET)
- SAMPLE OF CLAY FOR RECORD (EVERY 100 FEET OF WALL LENGTH)
- ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH)

TRENCH

- VERTICALITY (EVERY 300 FEET)

TRAFFIC CAP

- THICKNESS OF CAP (EVERY 300 FEET)
- MOISTURE CONTENT (EVERY 250 CY)
- IN-PLACE DENSITY (EVERY 250 CY)
- PERMEABILITY (EVERY 500 CY)

3. DUST CONTROL _____
4. LOCATION _____
5. REMARKS Depth checked at St. 1400 and 1450

INSPECTOR

William P. Hoover

DATE

9-3-92

REVIEWED BY

DATE

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2A
SHEET 1 OF 2
INSPECTION DATE 7/10/92

| | ACCEPT | REJECT | N/A |
|---|---------------|---------------|---------------|
| 1. MATERIAL | | | |
| - BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <u>✓</u> | <u> </u> | <u> </u> |
| - ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <u>✓</u> | <u> </u> | <u> </u> |
| - WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR. | <u>✓</u> | <u> </u> | <u> </u> |
| - SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <u>✓</u> | <u> </u> | <u> </u> |
| 2. QC AND VERIFICATION TESTINGS | | | |
| <u>FRESH SLURRY</u> | | | |
| - DENSITY (1 TEST PER WEEK) | <u> </u> | <u> </u> | <u>✓</u> |
| - VISCOSITY (1 TEST PER WEEK) | <u> </u> | <u> </u> | <u>✓</u> |
| - FILTRATE LOSS (1 TEST PER WEEK) | <u> </u> | <u> </u> | <u>✓</u> |
| - PH (1 TEST PER WEEK) | <u> </u> | <u> </u> | <u>✓</u> |
| ALL ABOVE TESTS SHALL BE PERFORMED FOR THE SLURRY READY TO BE PLACED IN THE TRENCH. | | | |
| <u>SLURRY IN TRENCH</u> | | | |
| - DENSITY OF THE SLURRY (1 TEST PER WEEK). | <u> </u> | <u> </u> | <u>✓</u> |
| - VISCOSITY OF THE SLURRY (1 TEST PER WEEK) | <u> </u> | <u> </u> | <u>✓</u> |

PLACEMENT OF SOIL BENTONITE CUTOFF WALL
(cont'd)

FORM A-2A
SHEET 2 OF 2
INSPECTION DATE 7/14/92

BACKFILL

- SLUMP TEST (EVERY 2000 CY)
- DENSITY (EVERY 2000 CY)
- PERMEABILITY (SHELBY) (EVERY 5000 CY)
- SIEVE ANALYSIS (EVERY 2000 CY)

- SLOPE
- DISTANCE
- CLAY CLOD SIZE
- AGGREGATE SIZE

KEY IN THE CLAY

- DEPTH TO CLAY (EVERY 100 FEET)
- SAMPLE OF CLAY FOR RECORD (EVERY 100 FEET OF WALL LENGTH)
- ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH)

TRENCH

- VERTICALITY (EVERY 300 FEET)

TRAFFIC CAP

- THICKNESS OF CAP (EVERY 300 FEET)
- MOISTURE CONTENT (EVERY 250 CY)
- IN-PLACE DENSITY (EVERY 250 CY)
- PERMEABILITY (EVERY 500 CY)

3. DUST CONTROL _____
4. LOCATION _____
5. REMARKS Depth of Trench checked at St. 0+00
Verticality checked at St. 0+00

INSPECTOR Colin P. Brown DATE 9-3-92
REVIEWED BY _____ DATE _____

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2A
SHEET 1 OF 2
INSPECTION DATE 7/14/92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. QC AND VERIFICATION TESTINGS | | | |
| <u>FRESH SLURRY</u> | | | |
| - DENSITY (1 TEST PER WEEK) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - VISCOSITY (1 TEST PER WEEK) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - FILTRATE LOSS (1 TEST PER WEEK) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - pH (1 TEST PER WEEK) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| ALL ABOVE TESTS SHALL BE PERFORMED FOR THE SLURRY READY TO BE PLACED IN THE TRENCH. | | | |
| <u>SLURRY IN TRENCH</u> | | | |
| - DENSITY OF THE SLURRY (1 TEST PER WEEK). | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - VISCOSITY OF THE SLURRY (1 TEST PER WEEK) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

PLACEMENT OF SOIL BENTONITE CUTOFF WALL
(cont'd)

FORM A-2A
SHEET 2 OF 2
INSPECTION DATE 7/15/92

| | ACCEPT | REJECT | N/A |
|---|----------|--------|----------|
| BACKFILL | | | |
| - SLUMP TEST (EVERY 2000 CY) | _____ | _____ | <u>✓</u> |
| - DENSITY (EVERY 2000 CY) | _____ | _____ | <u>✓</u> |
| - PERMEABILITY (SHELBY) (EVERY 5000 CY) | _____ | _____ | <u>✓</u> |
| - SIEVE ANALYSIS (EVERY 2000 CY) | _____ | _____ | <u>✓</u> |
| - SLOPE | _____ | _____ | <u>✓</u> |
| - DISTANCE | _____ | _____ | <u>✓</u> |
| - CLAY CLOD SIZE | _____ | _____ | <u>✓</u> |
| - AGGREGATE SIZE | _____ | _____ | <u>✓</u> |
| KEY IN THE CLAY | | | |
| - DEPTH TO CLAY (EVERY 100 FEET) | <u>✓</u> | _____ | _____ |
| - SAMPLE OF CLAY FOR RECORD (EVERY 100 FEET OF WALL LENGTH) | _____ | _____ | <u>✓</u> |
| - ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH) | _____ | _____ | _____ |
| TRENCH | | | |
| - VERTICALITY (EVERY 300 FEET) | _____ | _____ | <u>✓</u> |
| TRAFFIC CAP | | | |
| - THICKNESS OF CAP (EVERY 300 FEET) | _____ | _____ | <u>✓</u> |
| - MOISTURE CONTENT (EVERY 250 CY) | _____ | _____ | <u>✓</u> |
| - IN-PLACE DENSITY (EVERY 250 CY) | _____ | _____ | <u>✓</u> |
| - PERMEABILITY (EVERY 500 CY) | _____ | _____ | <u>✓</u> |
| 3. DUST CONTROL _____ | | | |
| 4. LOCATION _____ | | | |
| 5. REMARKS <u>Depth checked at St. 27+00</u> | | | |

INSPECTOR Collin P. Schow DATE 9-3-92
REVIEWED BY _____ DATE _____

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2A
SHEET 1 OF 2
INSPECTION DATE 7/15/92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. QC AND VERIFICATION TESTINGS | | | |
| <u>FRESH SLURRY</u> | | | |
| - DENSITY (1 TEST PER WEEK) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - VISCOSITY (1 TEST PER WEEK) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - FILTRATE LOSS (1 TEST PER WEEK) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - pH (1 TEST PER WEEK) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| ALL ABOVE TESTS SHALL BE PERFORMED FOR THE SLURRY READY TO BE PLACED IN THE TRENCH. | | | |
| <u>SLURRY IN TRENCH</u> | | | |
| - DENSITY OF THE SLURRY (1 TEST PER WEEK). | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - VISCOSITY OF THE SLURRY (1 TEST PER WEEK) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

PLACEMENT OF SOIL BENTONITE CUTOFF WALL
(cont'd)

FORM A-2A
SHEET 2 OF 2
INSPECTION DATE 7/16/92

ACCEPT REJECT N/A

BACKFILL

- SLUMP TEST (EVERY 2000 CY)
- DENSITY (EVERY 2000 CY)
- PERMEABILITY (SHELBY) (EVERY 5000 CY)
- SIEVE ANALYSIS (EVERY 2000 CY)
- SLOPE
- DISTANCE
- CLAY CLOD SIZE
- AGGREGATE SIZE

| | | |
|---|--|---|
| ✓ | | ✓ |
| | | ✓ |
| | | ✓ |
| | | ✓ |
| | | ✓ |
| | | ✓ |
| | | ✓ |
| | | ✓ |

KEY IN THE CLAY

- DEPTH TO CLAY (EVERY 100 FEET)
- SAMPLE OF CLAY FOR RECORD (EVERY 100 FEET OF WALL LENGTH)
- ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH)

| | | |
|---|--|---|
| ✓ | | ✓ |
| | | ✓ |
| | | ✓ |

TRENCH

- VERTICALITY (EVERY 300 FEET)

| | | |
|--|--|---|
| | | ✓ |
|--|--|---|

TRAFFIC CAP

- THICKNESS OF CAP (EVERY 300 FEET)
- MOISTURE CONTENT (EVERY 250 CY)
- IN-PLACE DENSITY (EVERY 250 CY)
- PERMEABILITY (EVERY 500 CY)

| | | |
|--|--|---|
| | | ✓ |
| | | ✓ |
| | | ✓ |
| | | ✓ |

3. DUST CONTROL _____

4. LOCATION _____

5. REMARKS Depth checked at St. 26+00

Verticality checked at St. 26+00

TRENCH SLURRY
VISCOSITY: 42 SEC
DENSITY: 67 PCF

BACKFILL
SLUMP: 3 1/2"

FRESH SLURRY
FILTRATE: 13 ML/30 MIN
PH: 7

INSPECTOR

Collin P. Johnson

DATE

9/3/92

REVIEWED BY

DATE

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2A
SHEET 1 OF 2
INSPECTION DATE 7/16/92

| | ACCEPT | REJECT | N/A |
|---|---------------|---------------|---------------|
| 1. MATERIAL | | | |
| - BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <u>✓</u> | <u> </u> | <u> </u> |
| - ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <u>✓</u> | <u> </u> | <u> </u> |
| - WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR. | <u>✓</u> | <u> </u> | <u> </u> |
| - SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <u>✓</u> | <u> </u> | <u> </u> |
| 2. QC AND VERIFICATION TESTINGS | | | |
| <u>FRESH SLURRY</u> | | | |
| - DENSITY (1 TEST PER WEEK) | <u> </u> | <u> </u> | <u>✓</u> |
| - VISCOSITY (1 TEST PER WEEK) | <u> </u> | <u> </u> | <u>✓</u> |
| - FILTRATE LOSS (1 TEST PER WEEK) | <u>✓</u> | <u> </u> | <u> </u> |
| - pH (1 TEST PER WEEK) | <u>✓</u> | <u> </u> | <u> </u> |
| ALL ABOVE TESTS SHALL BE PERFORMED FOR THE SLURRY READY TO BE PLACED IN THE TRENCH. | | | |
| <u>SLURRY IN TRENCH</u> | | | |
| - DENSITY OF THE SLURRY (1 TEST PER WEEK) | <u>✓</u> | <u> </u> | <u> </u> |
| - VISCOSITY OF THE SLURRY (1 TEST PER WEEK) | <u>✓</u> | <u> </u> | <u> </u> |

PLACEMENT OF SOIL BENTONITE CUTOFF WALL
(cont'd)

FORM A-2A
SHEET 2 OF 2
INSPECTION DATE 7/17/92

BACKFILL

- SLUMP TEST (EVERY 2000 CY)
- DENSITY (EVERY 2000 CY)
- PERMEABILITY (SHELBY) (EVERY 5000 CY)
- SIEVE ANALYSIS (EVERY 2000 CY)

- SLOPE
- DISTANCE
- CLAY CLOD SIZE
- AGGREGATE SIZE

ACCEPT REJECT N/A

| | | |
|-------|-------|---|
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |

KEY IN THE CLAY

- DEPTH TO CLAY (EVERY 100 FEET)
- SAMPLE OF CLAY FOR RECORD (EVERY 100 FEET OF WALL LENGTH)
- ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH)

| | | |
|-------|-------|-------|
| ✓ | _____ | _____ |
| _____ | _____ | ✓ |

TRENCH

- VERTICALITY (EVERY 300 FEET)

| | | |
|-------|-------|---|
| _____ | _____ | ✓ |
|-------|-------|---|

TRAFFIC CAP

- THICKNESS OF CAP (EVERY 300 FEET)
- MOISTURE CONTENT (EVERY 250 CY)
- IN-PLACE DENSITY (EVERY 250 CY)
- PERMEABILITY (EVERY 500 CY)

| | | |
|-------|-------|---|
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |

3. DUST CONTROL _____

4. LOCATION _____

5. REMARKS Depth checked at 24100 @ 25100
27400 and 28400

INSPECTOR

Collin P. Perdue

DATE

9/3/92

REVIEWED BY

DATE

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2A
SHEET 1 OF 2
INSPECTION DATE 7/17/92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. QC AND VERIFICATION TESTINGS | | | |
| <u>FRESH SLURRY</u> | | | |
| - DENSITY (1 TEST PER WEEK) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - VISCOSITY (1 TEST PER WEEK) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - FILTRATE LOSS (1 TEST PER WEEK) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - pH (1 TEST PER WEEK) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| ALL ABOVE TESTS SHALL BE PERFORMED FOR THE SLURRY READY TO BE PLACED IN THE TRENCH. | | | |
| <u>SLURRY IN TRENCH</u> | | | |
| - DENSITY OF THE SLURRY (1 TEST PER WEEK) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - VISCOSITY OF THE SLURRY (1 TEST PER WEEK) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

PLACEMENT OF SOIL BENTONITE CUTOFF WALL
(cont'd)

FORM A-2A
SHEET 2 OF 2
INSPECTION DATE 7/20/92

ACCEPT REJECT N/A

BACKFILL

- SLUMP TEST (EVERY 2000 CY)
- DENSITY (EVERY 2000 CY)
- PERMEABILITY (SHELBY) (EVERY 5000 CY)
- SIEVE ANALYSIS (EVERY 2000 CY)

- SLOPE
- DISTANCE
- CLAY CLOD SIZE
- AGGREGATE SIZE

| | | |
|-------|-------|---|
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |

KEY IN THE CLAY

- DEPTH TO CLAY (EVERY 100 FEET)
- SAMPLE OF CLAY FOR RECORD (EVERY 100 FEET OF WALL LENGTH)
- ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH)

| | | |
|-------|-------|-------|
| ✓ | _____ | _____ |
| _____ | _____ | ✓ |
| _____ | _____ | _____ |

TRENCH

- VERTICALITY (EVERY 300 FEET)

| | | |
|-------|-------|---|
| _____ | _____ | ✓ |
|-------|-------|---|

TRAFFIC CAP

- THICKNESS OF CAP (EVERY 300 FEET)
- MOISTURE CONTENT (EVERY 250 CY)
- IN-PLACE DENSITY (EVERY 250 CY)
- PERMEABILITY (EVERY 500 CY)

| | | |
|-------|-------|---|
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |

3. DUST CONTROL _____
4. LOCATION _____
5. REMARKS Depth checked at st. 23100

FRESH SLURRY
DENSITY: 60 10/100
VISCOSITY: 52 500

INSPECTOR _____ DATE _____

REVIEWED BY _____ DATE _____

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2A
SHEET 1 OF 2
INSPECTION DATE 7/20/92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. QC AND VERIFICATION TESTINGS | | | |
| <u>FRESH SLURRY</u> | | | |
| - DENSITY (1 TEST PER WEEK) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - VISCOSITY (1 TEST PER WEEK) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FILTRATE LOSS (1 TEST PER WEEK) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - PH (1 TEST PER WEEK) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| ALL ABOVE TESTS SHALL BE PERFORMED FOR THE SLURRY READY TO BE PLACED IN THE TRENCH. | | | |
| <u>SLURRY IN TRENCH</u> | | | |
| - DENSITY OF THE SLURRY (1 TEST PER WEEK) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - VISCOSITY OF THE SLURRY (1 TEST PER WEEK) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

PLACEMENT OF SOIL BENTONITE CUTOFF WALL
(cont'd)

FORM A-2A
SHEET 2 OF 2
INSPECTION DATE 7/21/92

ACCEPT REJECT N/A

BACKFILL

- SLUMP TEST (EVERY 2000 CY)
- DENSITY (EVERY 2000 CY)
- PERMEABILITY (SHELBY) (EVERY 5000 CY)
- SIEVE ANALYSIS (EVERY 2000 CY)
- SLOPE
- DISTANCE
- CLAY CLOD SIZE
- AGGREGATE SIZE

| ACCEPT | REJECT | N/A |
|--------|--------|-----|
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |

KEY IN THE CLAY

- DEPTH TO CLAY (EVERY 100 FEET)
- SAMPLE OF CLAY FOR RECORD (EVERY 100 FEET OF WALL LENGTH)
- ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH)

| ACCEPT | REJECT | N/A |
|--------|--------|-------|
| ✓ | _____ | _____ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |

TRENCH

- VERTICALITY (EVERY 300 FEET)

| ACCEPT | REJECT | N/A |
|--------|--------|-----|
| ✓ | _____ | ✓ |

TRAFFIC CAP

- THICKNESS OF CAP (EVERY 300 FEET)
- MOISTURE CONTENT (EVERY 250 CY)
- IN-PLACE DENSITY (EVERY 250 CY)
- PERMEABILITY (EVERY 500 CY)

| ACCEPT | REJECT | N/A |
|--------|--------|-----|
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |

3. DUST CONTROL _____

4. LOCATION _____

5. REMARKS Depth checked at St. 21+00 and 22+00.

Verticality checked at St. 21+00

FRESH SLURRY
Viscosity : 99 SSBS
DENSITY : 64 pcf
FILTRATE : 13 ml/30 min
PH : 8

INSPECTOR

Colvin P. Lukow

DATE

9/3/92

REVIEWED BY

DATE

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2A
SHEET 1 OF 2
INSPECTION DATE 7/21/92

| | ACCEPT | REJECT | N/A |
|---|---------------|---------------|---------------|
| 1. MATERIAL | | | |
| - BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <u>✓</u> | <u> </u> | <u> </u> |
| - ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <u>✓</u> | <u> </u> | <u> </u> |
| - WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR. | <u>✓</u> | <u> </u> | <u> </u> |
| - SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <u>✓</u> | <u> </u> | <u> </u> |
| 2. QC AND VERIFICATION TESTINGS | | | |
| <u>FRESH SLURRY</u> | | | |
| - DENSITY (1 TEST PER WEEK) | <u>✓</u> | <u> </u> | <u> </u> |
| - VISCOSITY (1 TEST PER WEEK) | <u>✓</u> | <u> </u> | <u> </u> |
| - FILTRATE LOSS (1 TEST PER WEEK) | <u>✓</u> | <u> </u> | <u> </u> |
| - pH (1 TEST PER WEEK) | <u>✓</u> | <u> </u> | <u> </u> |
| ALL ABOVE TESTS SHALL BE PERFORMED FOR THE SLURRY READY TO BE PLACED IN THE TRENCH. | | | |
| <u>SLURRY IN TRENCH</u> | | | |
| - DENSITY OF THE SLURRY (1 TEST PER WEEK) | <u> </u> | <u> </u> | <u>✓</u> |
| - VISCOSITY OF THE SLURRY (1 TEST PER WEEK) | <u> </u> | <u> </u> | <u>✓</u> |

PLACEMENT OF SOIL BENTONITE CUTOFF WALL
(cont'd)

FORM A-2A
SHEET 2 OF 2
INSPECTION DATE 7/22/92

| | ACCEPT | REJECT | N/A |
|--|-------------------------------------|--|-------------------------------------|
| BACKFILL | | | |
| - SLUMP TEST (EVERY 2000 CY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - DENSITY (EVERY 2000 CY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - PERMEABILITY (SHELBY) (EVERY 5000 CY) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - SIEVE ANALYSIS (EVERY 2000 CY) | <input checked="" type="checkbox"/> | IN PROGRESS (N/A DATE) <input checked="" type="checkbox"/> | |
| - SLOPE | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - DISTANCE | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - CLAY CLOD SIZE | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - AGGREGATE SIZE | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| KEY IN THE CLAY | | | |
| - DEPTH TO CLAY (EVERY 100 FEET) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - SAMPLE OF CLAY FOR RECORD (EVERY 100 FEET OF WALL LENGTH) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| TRENCH | | | |
| - VERTICALITY (EVERY 300 FEET) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| TRAFFIC CAP | | | |
| - THICKNESS OF CAP (EVERY 300 FEET) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - MOISTURE CONTENT (EVERY 250 CY) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - IN-PLACE DENSITY (EVERY 250 CY) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - PERMEABILITY (EVERY 500 CY) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. DUST CONTROL <u>N/A</u> | | | |
| 4. LOCATION <u>Depth check at St. 19+00 and 20+00; Vert. checked st. 18+40</u> | | | |
| 5. REMARKS _____ | | | |

TRENCH SLURRY
Viscosity: 74 sec
DENSITY: 82 lb/cu ft

BACKFILL
Slump: 4"
DENSITY: 133 lb/cu ft
SIEVE COLLECTED 23+20

INSPECTOR

William P. Johnson

DATE

9/3/92

REVIEWED BY

DATE

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2A

SHEET 1 OF 2
INSPECTION DATE 7/22/92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. QC AND VERIFICATION TESTINGS | | | |
| <u>FRESH SLURRY</u> | | | |
| - DENSITY (1 TEST PER WEEK) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - VISCOSITY (1 TEST PER WEEK) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - FILTRATE LOSS (1 TEST PER WEEK) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - PH (1 TEST PER WEEK) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| ALL ABOVE TESTS SHALL BE PERFORMED FOR THE SLURRY READY TO BE PLACED IN THE TRENCH. | | | |
| <u>SLURRY IN TRENCH</u> | | | |
| - DENSITY OF THE SLURRY (1 TEST PER WEEK) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - VISCOSITY OF THE SLURRY (1 TEST PER WEEK) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

PLACEMENT OF SOIL BENTONITE CUTOFF WALL
(cont'd)

FORM A-2A
SHEET 2 OF 2
INSPECTION DATE 7/23/92

| | ACCEPT | REJECT | N/A |
|---|--------|--------|-------|
| BACKFILL | | | |
| - SLUMP TEST (EVERY 2000 CY) | _____ | _____ | ✓ |
| - DENSITY (EVERY 2000 CY) | _____ | _____ | ✓ |
| - PERMEABILITY (SHELBY) (EVERY 5000 CY) | _____ | _____ | ✓ |
| - SIEVE ANALYSIS (EVERY 2000 CY) | _____ | _____ | ✓ |
| - SLOPE | _____ | _____ | ✓ |
| - DISTANCE | _____ | _____ | ✓ |
| - CLAY CLOD SIZE | _____ | _____ | ✓ |
| - AGGREGATE SIZE | _____ | _____ | ✓ |
| KEY IN THE CLAY | | | |
| - DEPTH TO CLAY (EVERY 100 FEET) | ✓ | _____ | _____ |
| - SAMPLE OF CLAY FOR RECORD (EVERY 100 FEET OF WALL LENGTH) | _____ | _____ | ✓ |
| - ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH) | _____ | _____ | _____ |
| TRENCH | | | |
| - VERTICALITY (EVERY 300 FEET) | _____ | _____ | ✓ |
| TRAFFIC CAP | | | |
| - THICKNESS OF CAP (EVERY 300 FEET) | _____ | _____ | ✓ |
| - MOISTURE CONTENT (EVERY 250 CY) | _____ | _____ | ✓ |
| - IN-PLACE DENSITY (EVERY 250 CY) | _____ | _____ | ✓ |
| - PERMEABILITY (EVERY 500 CY) | _____ | _____ | ✓ |
| 3. DUST CONTROL _____ | | | |
| 4. LOCATION _____ | | | |
| 5. REMARKS <u>Depth checked at St. 17+00 and 18+00</u> | | | |

INSPECTOR

Colin P. Larson

DATE

7/3/92

REVIEWED BY

DATE

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2A
SHEET 1 OF 2
INSPECTION DATE 9/23/92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. QC AND VERIFICATION TESTINGS | | | |
| <u>FRESH SLURRY</u> | | | |
| - DENSITY (1 TEST PER WEEK) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - VISCOSITY (1 TEST PER WEEK) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - FILTRATE LOSS (1 TEST PER WEEK) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - pH (1 TEST PER WEEK) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| ALL ABOVE TESTS SHALL BE PERFORMED FOR THE SLURRY READY TO BE PLACED IN THE TRENCH. | | | |
| <u>SLURRY IN TRENCH</u> | | | |
| - DENSITY OF THE SLURRY (1 TEST PER WEEK) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - VISCOSITY OF THE SLURRY (1 TEST PER WEEK) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

PLACEMENT OF SOIL BENTONITE CUTOFF WALL
(cont'd)

FORM A-2A
SHEET 2 OF 2
INSPECTION DATE 7/24/92

BACKFILL

- SLUMP TEST (EVERY 2000 CY)
- DENSITY (EVERY 2000 CY)
- PERMEABILITY (SHELBY) (EVERY 5000 CY)
- SIEVE ANALYSIS (EVERY 2000 CY)

- SLOPE
- DISTANCE
- CLAY CLOD SIZE
- AGGREGATE SIZE

ACCEPT REJECT N/A

| | | |
|-------|-------|-------|
| _____ | _____ | ✓ |
| ✓ | _____ | ✓ |
| _____ | _____ | ✓ |
| ✓ | _____ | _____ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |

KEY IN THE CLAY

- DEPTH TO CLAY (EVERY 100 FEET)
- SAMPLE OF CLAY FOR RECORD (EVERY 100 FEET OF WALL LENGTH)
- ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH)

| | | |
|-------|-------|-------|
| ✓ | _____ | _____ |
| _____ | _____ | ✓ |
| _____ | _____ | _____ |

TRENCH

- VERTICALITY (EVERY 300 FEET)

| | | |
|-------|-------|---|
| _____ | _____ | ✓ |
|-------|-------|---|

TRAFFIC CAP

- THICKNESS OF CAP (EVERY 300 FEET)
- MOISTURE CONTENT (EVERY 250 CY)
- IN-PLACE DENSITY (EVERY 250 CY)
- PERMEABILITY (EVERY 500 CY)

| | | |
|-------|-------|---|
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |

3. DUST CONTROL _____
4. LOCATION _____
5. REMARKS Depth checked at 16+00

BACKFILL
DENSITY: 131 lb/ft³
SIEVE COLLECTED AT ST. 18+40

INSPECTOR Colin P. Swann DATE 9/3/92
REVIEWED BY _____ DATE _____

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2A

SHEET 1 OF 2
INSPECTION DATE 7/24/92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. QC AND VERIFICATION TESTINGS | | | |
| <u>FRESH SLURRY</u> | | | |
| - DENSITY (1 TEST PER WEEK) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - VISCOSITY (1 TEST PER WEEK) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - FILTRATE LOSS (1 TEST PER WEEK) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - PH (1 TEST PER WEEK) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| ALL ABOVE TESTS SHALL BE PERFORMED FOR THE SLURRY READY TO BE PLACED IN THE TRENCH. | | | |
| <u>SLURRY IN TRENCH</u> | | | |
| - DENSITY OF THE SLURRY (1 TEST PER WEEK) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - VISCOSITY OF THE SLURRY (1 TEST PER WEEK) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

PLACEMENT OF SOIL BENTONITE CUTOFF WALL
(cont'd)

FORM A-2A
SHEET 2 OF 2
INSPECTION DATE 7/27/92

BACKFILL

- SLUMP TEST (EVERY 2000 CY)
- DENSITY (EVERY 2000 CY)
- PERMEABILITY (SHELBY) (EVERY 5000 CY)
- SIEVE ANALYSIS (EVERY 2000 CY)
- SLOPE
- DISTANCE
- CLAY CLOD SIZE
- AGGREGATE SIZE

| ACCEPT | REJECT | N/A |
|--------------------------|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

KEY IN THE CLAY

- DEPTH TO CLAY (EVERY 100 FEET)
- SAMPLE OF CLAY FOR RECORD (EVERY 100 FEET OF WALL LENGTH)
- ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH)

| | | |
|-------------------------------------|--------------------------|-------------------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

TRENCH

- VERTICALITY (EVERY 300 FEET)

| | | |
|--------------------------|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|--------------------------|--------------------------|-------------------------------------|

TRAFFIC CAP

- THICKNESS OF CAP (EVERY 300 FEET)
- MOISTURE CONTENT (EVERY 250 CY)
- IN-PLACE DENSITY (EVERY 250 CY)
- PERMEABILITY (EVERY 500 CY)

| | | |
|--------------------------|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

3. DUST CONTROL _____
4. LOCATION Depth checked at st. 15+00
5. REMARKS _____

INSPECTOR William P. Jackson DATE 9/3/92
REVIEWED BY _____ DATE _____

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2A
SHEET 1 OF 2
INSPECTION DATE 7/27/92

| | ACCEPT | REJECT | N/A |
|---|---------------|---------------|---------------|
| 1. MATERIAL | | | |
| - BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <u>✓</u> | <u> </u> | <u> </u> |
| - ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <u>✓</u> | <u> </u> | <u> </u> |
| - WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR. | <u>✓</u> | <u> </u> | <u> </u> |
| - SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <u>✓</u> | <u> </u> | <u> </u> |
| 2. QC AND VERIFICATION TESTINGS | | | |
| <u>FRESH SLURRY</u> | | | |
| - DENSITY (1 TEST PER WEEK) | <u> </u> | <u> </u> | <u>✓</u> |
| - VISCOSITY (1 TEST PER WEEK) | <u> </u> | <u> </u> | <u>✓</u> |
| - FILTRATE LOSS (1 TEST PER WEEK) | <u> </u> | <u> </u> | <u>✓</u> |
| - pH (1 TEST PER WEEK) | <u> </u> | <u> </u> | <u>✓</u> |
| ALL ABOVE TESTS SHALL BE PERFORMED FOR THE SLURRY READY TO BE PLACED IN THE TRENCH. | | | |
| <u>SLURRY IN TRENCH</u> | | | |
| - DENSITY OF THE SLURRY (1 TEST PER WEEK) | <u> </u> | <u> </u> | <u>✓</u> |
| - VISCOSITY OF THE SLURRY (1 TEST PER WEEK) | <u> </u> | <u> </u> | <u>✓</u> |

PLACEMENT OF SOIL BENTONITE CUTOFF WALL
(cont'd)

FORM A-2A
SHEET 2 OF 2
INSPECTION DATE 8/4/92

ACCEPT REJECT N/A

BACKFILL

- SLUMP TEST (EVERY 2000 CY)
- DENSITY (EVERY 2000 CY)
- PERMEABILITY (SHELBY) (EVERY 5000 CY)
- SIEVE ANALYSIS (EVERY 2000 CY)
- SLOPE
- DISTANCE
- CLAY CLOD SIZE
- AGGREGATE SIZE

| | | |
|-------|-------|---|
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |

KEY IN THE CLAY

- DEPTH TO CLAY (EVERY 100 FEET)
- SAMPLE OF CLAY FOR RECORD (EVERY 100 FEET OF WALL LENGTH)
- ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH)

| | | |
|-------|-------|-------|
| ✓ | _____ | _____ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |

TRENCH

- VERTICALITY (EVERY 300 FEET)

| | | |
|---|-------|-------|
| ✓ | _____ | _____ |
|---|-------|-------|

TRAFFIC CAP

- THICKNESS OF CAP (EVERY 300 FEET)
- MOISTURE CONTENT (EVERY 250 CY)
- IN-PLACE DENSITY (EVERY 250 CY)
- PERMEABILITY (EVERY 500 CY)

| | | |
|-------|-------|---|
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |
| _____ | _____ | ✓ |

3. DUST CONTROL _____

4. LOCATION _____

5. REMARKS Depth checked at St. 15+00 and 16+00
Verticality checked at St. 14+00

INSPECTOR Collin P. Jackson DATE 9/3/92
REVIEWED BY _____ DATE _____

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2A
SHEET 1 OF 2
INSPECTION DATE 8/4/92

| | ACCEPT | REJECT | N/A |
|---|---------------|---------------|---------------|
| 1. MATERIAL | | | |
| - BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <u>✓</u> | <u> </u> | <u> </u> |
| - ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <u>✓</u> | <u> </u> | <u> </u> |
| - WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR. | <u>✓</u> | <u> </u> | <u> </u> |
| - SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <u>✓</u> | <u> </u> | <u> </u> |
| 2. QC AND VERIFICATION TESTINGS | | | |
| <u>FRESH SLURRY</u> | | | |
| - DENSITY (1 TEST PER WEEK) | <u> </u> | <u> </u> | <u>✓</u> |
| - VISCOSITY (1 TEST PER WEEK) | <u> </u> | <u> </u> | <u>✓</u> |
| - FILTRATE LOSS (1 TEST PER WEEK) | <u> </u> | <u> </u> | <u>✓</u> |
| - PH (1 TEST PER WEEK) | <u> </u> | <u> </u> | <u>✓</u> |
| ALL ABOVE TESTS SHALL BE PERFORMED FOR THE SLURRY READY TO BE PLACED IN THE TRENCH. | | | |
| <u>SLURRY IN TRENCH</u> | | | |
| - DENSITY OF THE SLURRY (1 TEST PER WEEK) | <u> </u> | <u> </u> | <u>✓</u> |
| - VISCOSITY OF THE SLURRY (1 TEST PER WEEK) | <u> </u> | <u> </u> | <u>✓</u> |

PLACEMENT OF SOIL BENTONITE CUTOFF WALL
(cont'd)

FORM A-2A
SHEET 2 OF 2
INSPECTION DATE 8/5/92

| | ACCEPT | REJECT | N/A |
|---|----------|--------|----------|
| BACKFILL | | | |
| - SLUMP TEST (EVERY 2000 CY) | _____ | _____ | <u>✓</u> |
| - DENSITY (EVERY 2000 CY) | _____ | _____ | <u>✓</u> |
| - PERMEABILITY (SHELBY) (EVERY 5000 CY) | _____ | _____ | <u>✓</u> |
| - SIEVE ANALYSIS (EVERY 2000 CY) | _____ | _____ | <u>✓</u> |
| - SLOPE | _____ | _____ | <u>✓</u> |
| - DISTANCE | _____ | _____ | <u>✓</u> |
| - CLAY CLOD SIZE | _____ | _____ | <u>✓</u> |
| - AGGREGATE SIZE | _____ | _____ | <u>✓</u> |
| KEY IN THE CLAY | | | |
| - DEPTH TO CLAY (EVERY 100 FEET) | <u>✓</u> | _____ | _____ |
| - SAMPLE OF CLAY FOR RECORD (EVERY 100 FEET OF WALL LENGTH) | _____ | _____ | <u>✓</u> |
| - ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH) | _____ | _____ | _____ |
| TRENCH | | | |
| - VERTICALITY (EVERY 300 FEET) | _____ | _____ | <u>✓</u> |
| TRAFFIC CAP | | | |
| - THICKNESS OF CAP (EVERY 300 FEET) | _____ | _____ | <u>✓</u> |
| - MOISTURE CONTENT (EVERY 250 CY) | _____ | _____ | <u>✓</u> |
| - IN-PLACE DENSITY (EVERY 250 CY) | _____ | _____ | <u>✓</u> |
| - PERMEABILITY (EVERY 500 CY) | _____ | _____ | <u>✓</u> |

3. DUST CONTROL _____

4. LOCATION 1 _____

5. REMARKS Depth checked at St. 13400 _____

INSPECTOR Collin P. Lukow

DATE 9/3/92

REVIEWED BY _____

DATE _____

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2A
SHEET 1 OF 2
INSPECTION DATE 8/5/92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. QC AND VERIFICATION TESTINGS | | | |
| <u>FRESH SLURRY</u> | | | |
| - DENSITY (1 TEST PER WEEK) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - VISCOSITY (1 TEST PER WEEK) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - FILTRATE LOSS (1 TEST PER WEEK) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - pH (1 TEST PER WEEK) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| ALL ABOVE TESTS SHALL BE PERFORMED FOR THE SLURRY READY TO BE PLACED IN THE TRENCH. | | | |
| <u>SLURRY IN TRENCH</u> | | | |
| - DENSITY OF THE SLURRY (1 TEST PER WEEK) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - VISCOSITY OF THE SLURRY (1 TEST PER WEEK) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

PLACEMENT OF SOIL BENTONITE CUTOFF WALL
(cont'd)

FORM A-2A

SHEET 2 OF 2
INSPECTION DATE 8/6/92

ACCEPT REJECT N/A

BACKFILL

- SLUMP TEST (EVERY 2000 CY) ☒
- DENSITY (EVERY 2000 CY) ☒
- PERMEABILITY (SHELBY) (EVERY 5000 CY) ☒
- SIEVE ANALYSIS (EVERY 2000 CY) ☒
- SLOPE ☐
- DISTANCE ☐
- CLAY CLOD SIZE ☐
- AGGREGATE SIZE ☐

KEY IN THE CLAY

- DEPTH TO CLAY (EVERY 100 FEET) ☒
- SAMPLE OF CLAY FOR RECORD (EVERY 100 FEET OF WALL LENGTH) ☒
- ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH) ☐

TRENCH

- VERTICALITY (EVERY 300 FEET) ☒

TRAFFIC CAP

- THICKNESS OF CAP (EVERY 300 FEET) ☒
- MOISTURE CONTENT (EVERY 250 CY) ☒
- IN-PLACE DENSITY (EVERY 250 CY) ☒
- PERMEABILITY (EVERY 500 CY) ☒

3. DUST CONTROL _____
4. LOCATION _____
5. REMARKS Depth checked at St. 11+00

FRESH SLURRY
VISCOSITY: 37 sec
DENSITY: 65.9 lb/cu ft
FILTRATE: 15 ml/30 min
PH: 7

BACKFILL
SLUMP: 4 1/2"
PLASTICITY: 127 lb/cu ft
SIEVE COMPLETION: 14+00

INSPECTOR Callin P. Lukow DATE 9/3/92
REVIEWED BY _____ DATE _____

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2A

SHEET 1 OF 2

INSPECTION DATE 8/6/92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. QC AND VERIFICATION TESTINGS | | | |
| <u>FRESH SLURRY</u> | | | |
| - DENSITY (1 TEST PER WEEK) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - VISCOSITY (1 TEST PER WEEK) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FILTRATE LOSS (1 TEST PER WEEK) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - pH (1 TEST PER WEEK) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| ALL ABOVE TESTS SHALL BE PERFORMED FOR THE SLURRY READY TO BE PLACED IN THE TRENCH. | | | |
| <u>SLURRY IN TRENCH</u> | | | |
| - DENSITY OF THE SLURRY (1 TEST PER WEEK) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - VISCOSITY OF THE SLURRY (1 TEST PER WEEK) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

PLACEMENT OF SOIL BENTONITE CUTOFF WALL
(cont'd)

FORM A-2A

SHEET 2 OF 2
INSPECTION DATE 8/7/92

BACKFILL

- SLUMP TEST (EVERY 2000 CY)
- DENSITY (EVERY 2000 CY)
- PERMEABILITY (SHELBY) (EVERY 5000 CY)
- SIEVE ANALYSIS (EVERY 2000 CY)
- SLOPE
- DISTANCE
- CLAY CLOD SIZE
- AGGREGATE SIZE

ACCEPT REJECT N/A

| ACCEPT | REJECT | N/A |
|--------|--------|-------|
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |

KEY IN THE CLAY

- DEPTH TO CLAY (EVERY 100 FEET)
- SAMPLE OF CLAY FOR RECORD (EVERY 100 FEET OF WALL LENGTH)
- ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH)

| ACCEPT | REJECT | N/A |
|--------|--------|-------|
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |

TRENCH

- VERTICALITY (EVERY 300 FEET)

| ACCEPT | REJECT | N/A |
|--------|--------|-------|
| _____ | _____ | _____ |

TRAFFIC CAP

- THICKNESS OF CAP (EVERY 300 FEET)
- MOISTURE CONTENT (EVERY 250 CY)
- IN-PLACE DENSITY (EVERY 250 CY)
- PERMEABILITY (EVERY 500 CY)

| ACCEPT | REJECT | N/A |
|--------|--------|-------|
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |

3. DUST CONTROL _____

4. LOCATION _____

5. REMARKS Depth Checked at St. 9180 and 9100

INSPECTOR

Colin P. Jirka

DATE

9/3/92

REVIEWED BY

DATE

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2A

SHEET 1 OF 2
INSPECTION DATE 8/7/92

1. MATERIAL

ACCEPT

REJECT

N/A

- BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY)
- ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY)
- WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR.
- SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.

| | | |
|-------------------------------------|--------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

2. QC AND VERIFICATION TESTINGS

FRESH SLURRY

- DENSITY (1 TEST PER WEEK)
- VISCOSITY (1 TEST PER WEEK)
- FILTRATE LOSS (1 TEST PER WEEK)
- PH (1 TEST PER WEEK)

| | | |
|--------------------------|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

ALL ABOVE TESTS SHALL BE PERFORMED FOR THE SLURRY READY TO BE PLACED IN THE TRENCH.

SLURRY IN TRENCH

- DENSITY OF THE SLURRY (1 TEST PER WEEK).
- VISCOSITY OF THE SLURRY (1 TEST PER WEEK)

| | | |
|--------------------------|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

PLACEMENT OF SOIL BENTONITE CUTOFF WALL
(cont'd)

FORM A-2A
SHEET 2 OF 2
INSPECTION DATE 8/8/92

ACCEPT REJECT N/A

BACKFILL

- SLUMP TEST (EVERY 2000 CY)
- DENSITY (EVERY 2000 CY)
- PERMEABILITY (SHELBY) (EVERY 5000 CY)
- SIEVE ANALYSIS (EVERY 2000 CY)

- SLOPE
- DISTANCE
- CLAY CLOD SIZE
- AGGREGATE SIZE

KEY IN THE CLAY

- DEPTH TO CLAY (EVERY 100 FEET)
- SAMPLE OF CLAY FOR RECORD (EVERY 100 FEET OF WALL LENGTH)
- ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH)

TRENCH

- VERTICALITY (EVERY 300 FEET)

TRAFFIC CAP

- THICKNESS OF CAP (EVERY 300 FEET)
- MOISTURE CONTENT (EVERY 250 CY)
- IN-PLACE DENSITY (EVERY 250 CY)
- PERMEABILITY (EVERY 500 CY)

3. DUST CONTROL _____

4. LOCATION _____

5. REMARKS Depth Checked at St. 8+00 and 7+00.

Verticality Checked at St 7+00

TRENCH
VISCOSITY : 51 SECS
DENSITY : 90 lb/cu

INSPECTOR Collin P. Larkew DATE 9/3/92

REVIEWED BY _____ DATE _____

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2A

SHEET 1 OF 2

INSPECTION DATE 8/8/92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. QC AND VERIFICATION TESTINGS | | | |
| <u>FRESH SLURRY</u> | | | |
| - DENSITY (1 TEST PER WEEK) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - VISCOSITY (1 TEST PER WEEK) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - FILTRATE LOSS (1 TEST PER WEEK) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - PH (1 TEST PER WEEK) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| ALL ABOVE TESTS SHALL BE PERFORMED FOR THE SLURRY READY TO BE PLACED IN THE TRENCH. | | | |
| <u>SLURRY IN TRENCH</u> | | | |
| - DENSITY OF THE SLURRY (1 TEST PER WEEK). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - VISCOSITY OF THE SLURRY (1 TEST PER WEEK) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

PLACEMENT OF SOIL BENTONITE CUTOFF WALL
(cont'd)

FORM A-2A
SHEET 2 OF 2
INSPECTION DATE 8/13/92

BACKFILL

- SLUMP TEST (EVERY 2000 CY)
- DENSITY (EVERY 2000 CY)
- PERMEABILITY (SHELBY) (EVERY 5000 CY)
- SIEVE ANALYSIS (EVERY 2000 CY)
- SLOPE
- DISTANCE
- CLAY CLOD SIZE
- AGGREGATE SIZE

| ACCEPT | REJECT | N/A |
|-------------------------------------|--------------------------|-------------------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

KEY IN THE CLAY

- DEPTH TO CLAY (EVERY 100 FEET)
- SAMPLE OF CLAY FOR RECORD (EVERY 100 FEET OF WALL LENGTH)
- ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH)

| | | |
|-------------------------------------|--------------------------|-------------------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

TRENCH

- VERTICALITY (EVERY 300 FEET)

| | | |
|-------------------------------------|--------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|-------------------------------------|--------------------------|--------------------------|

TRAFFIC CAP

- THICKNESS OF CAP (EVERY 300 FEET)
- MOISTURE CONTENT (EVERY 250 CY)
- IN-PLACE DENSITY (EVERY 250 CY)
- PERMEABILITY (EVERY 500 CY)

| | | |
|--------------------------|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

3. DUST CONTROL _____

4. LOCATION _____

5. REMARKS Depth checked at St. 6+00 and 5+30

Verticality checked at 6+00 and 5+30

FRESH SLURRY
VISCOSITY: 47 cP
DENSITY: 6.21 g/cc
FILTRATE: 10 ml/30 min
PH: 11

BALANCE
SLUMP: 4"
DENSITY: 1.28 g/cc
Sieve collected 5+50

TRENCH SLURRY
VISCOSITY: 57 cP
DENSITY: 6.26 g/cc

INSPECTOR Collin R. Luskow

DATE 9/3/92

REVIEWED BY _____

DATE _____

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2A

SHEET 1 OF 2

INSPECTION DATE 8/10/92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|--------------------------|
| 1. MATERIAL | | | |
| - BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. QC AND VERIFICATION TESTINGS | | | |
| <u>FRESH SLURRY</u> | | | |
| - DENSITY (1 TEST PER WEEK) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - VISCOSITY (1 TEST PER WEEK) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FILTRATE LOSS (1 TEST PER WEEK) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - PH (1 TEST PER WEEK) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| ALL ABOVE TESTS SHALL BE PERFORMED FOR THE SLURRY READY TO BE PLACED IN THE TRENCH. | | | |
| <u>SLURRY IN TRENCH</u> | | | |
| - DENSITY OF THE SLURRY (1 TEST PER WEEK) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - VISCOSITY OF THE SLURRY (1 TEST PER WEEK) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

PLACEMENT OF SOIL BENTONITE CUTOFF WALL
(cont'd)

FORM A-2A
SHEET 2 OF 2
INSPECTION DATE 10/1/92

BACKFILL

- SLUMP TEST (EVERY 2000 CY)
- DENSITY (EVERY 2000 CY)
- PERMEABILITY (SHELBY) (EVERY 5000 CY)
- SIEVE ANALYSIS (EVERY 2000 CY)

- SLOPE
- DISTANCE
- CLAY CLOD SIZE
- AGGREGATE SIZE

KEY IN THE CLAY

- DEPTH TO CLAY (EVERY 100 FEET)
- SAMPLE OF CLAY FOR RECORD (EVERY 100 FEET OF WALL LENGTH)
- ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH)

TRENCH

- VERTICALITY (EVERY 300 FEET)

TRAFFIC CAP

- THICKNESS OF CAP (EVERY 300 FEET)
- MOISTURE CONTENT (EVERY 250 CY)
- IN-PLACE DENSITY (EVERY 250 CY)
- PERMEABILITY (EVERY 500 CY)

3. DUST CONTROL _____
4. LOCATION _____
5. REMARKS Depth checked at 5+30 3'

FRESH SLURRY
Viscosity 40 sec
Density 65 lb/cu yd

INSPECTOR

Collins P. Jackson

DATE 10/1/92

REVIEWED BY

DATE _____

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2A

SHEET 1 OF 2
INSPECTION DATE 10/1/92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. QC AND VERIFICATION TESTINGS | | | |
| <u>FRESH SLURRY</u> | | | |
| - DENSITY (1 TEST PER WEEK) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - VISCOSITY (1 TEST PER WEEK) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - FILTRATE LOSS (1 TEST PER WEEK) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - pH (1 TEST PER WEEK) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| ALL ABOVE TESTS SHALL BE PERFORMED FOR THE SLURRY READY TO BE PLACED IN THE TRENCH. | | | |
| <u>SLURRY IN TRENCH</u> | | | |
| - DENSITY OF THE SLURRY (1 TEST PER WEEK). | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - VISCOSITY OF THE SLURRY (1 TEST PER WEEK) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

PLACEMENT OF SOIL BENTONITE CUTOFF WALL
(cont'd)

FORM A-2A
SHEET 2 OF 2
INSPECTION DATE 10/2/92

BACKFILL

- SLUMP TEST (EVERY 2000 CY)
- DENSITY (EVERY 2000 CY)
- PERMEABILITY (SHELBY) (EVERY 5000 CY)
- SIEVE ANALYSIS (EVERY 2000 CY)
- SLOPE
- DISTANCE
- CLAY CLOD SIZE
- AGGREGATE SIZE

ACCEPT REJECT N/A

KEY IN THE CLAY

- DEPTH TO CLAY (EVERY 100 FEET)
- SAMPLE OF CLAY FOR RECORD (EVERY 100 FEET OF WALL LENGTH)
- ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH)

TRENCH

- VERTICALITY (EVERY 300 FEET)

TRAFFIC CAP

- THICKNESS OF CAP (EVERY 300 FEET)
- MOISTURE CONTENT (EVERY 250 CY)
- IN-PLACE DENSITY (EVERY 250 CY)
- PERMEABILITY (EVERY 500 CY)

3. DUST CONTROL _____

4. LOCATION _____

5. REMARKS Depth checked at 5+00 as 31', 4+00 as 31'

Verticality checked at 4+80 and 4+00

TRENCH SLURRY

Viscosity: 53 sec.
Density: 67 lb/cu ft

FRESH SLURRY

FILTRATE: 12 ml/30 sec
PH = 8

INSPECTOR Collin P. Jackson

DATE 10/2/92

REVIEWED BY _____

DATE _____

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2A

SHEET 1 OF 2
INSPECTION DATE 10/2/92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------|-------------------------------------|
| 1. MATERIAL | | | |
| - BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <input checked="" type="checkbox"/> | | |
| - ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <input checked="" type="checkbox"/> | | |
| - WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR. | <input checked="" type="checkbox"/> | | |
| - SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | | |
| 2. QC AND VERIFICATION TESTINGS | | | |
| <u>FRESH SLURRY</u> | | | |
| - DENSITY (1 TEST PER WEEK) | | | <input checked="" type="checkbox"/> |
| - VISCOSITY (1 TEST PER WEEK) | | | <input checked="" type="checkbox"/> |
| - FILTRATE LOSS (1 TEST PER WEEK) | <input checked="" type="checkbox"/> | | |
| - PH (1 TEST PER WEEK) | <input checked="" type="checkbox"/> | | |
| ALL ABOVE TESTS SHALL BE PERFORMED FOR THE SLURRY READY TO BE PLACED IN THE TRENCH. | | | |
| <u>SLURRY IN TRENCH</u> | | | |
| - DENSITY OF THE SLURRY (1 TEST PER WEEK) | <input checked="" type="checkbox"/> | | |
| - VISCOSITY OF THE SLURRY (1 TEST PER WEEK) | <input checked="" type="checkbox"/> | | |

PLACEMENT OF SOIL BENTONITE CUTOFF WALL
(cont'd)

FORM A-2A
SHEET 2 OF 2
INSPECTION DATE 10/3/92

BACKFILL

- SLUMP TEST (EVERY 2000 CY)
- DENSITY (EVERY 2000 CY)
- PERMEABILITY (SHELBY) (EVERY 5000 CY)
- SIEVE ANALYSIS (EVERY 2000 CY)

| ACCEPT | REJECT | N/A |
|-------------------------------------|--------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

KEY IN THE CLAY

- DEPTH TO CLAY (EVERY 100 FEET)
- SAMPLE OF CLAY FOR RECORD (EVERY 100 FEET OF WALL LENGTH)
- ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH)

| | | |
|-------------------------------------|--------------------------|-------------------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

TRENCH

- VERTICALITY (EVERY 300 FEET)

| | | |
|-------------------------------------|--------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|-------------------------------------|--------------------------|--------------------------|

TRAFFIC CAP

- THICKNESS OF CAP (EVERY 300 FEET)
- MOISTURE CONTENT (EVERY 250 CY)
- IN-PLACE DENSITY (EVERY 250 CY)
- PERMEABILITY (EVERY 500 CY)

| | | |
|--------------------------|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

3. DUST CONTROL _____
4. LOCATION _____
5. REMARKS Depth checked at St. 3+40 (32'), 3+00 (32'), and
2+70 (31') Verticality checked at 3+00

BACKFILL
SLUMP: 4"
DENSITY: 125.7 lb/cu ft } at 4+50
Sieve Sample taken }

(260)

INSPECTOR Collin P. Parker DATE 10/3/92
REVIEWED BY _____ DATE _____

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2A

SHEET 1 OF 2
INSPECTION DATE 10/3/92

| | ACCEPT | REJECT | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1. MATERIAL | | | |
| - BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. QC AND VERIFICATION TESTINGS | | | |
| <u>FRESH SLURRY</u> | | | |
| - DENSITY (1 TEST PER WEEK) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - VISCOSITY (1 TEST PER WEEK) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - FILTRATE LOSS (1 TEST PER WEEK) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - PH (1 TEST PER WEEK) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| ALL ABOVE TESTS SHALL BE PERFORMED FOR THE SLURRY READY TO BE PLACED IN THE TRENCH. | | | |
| <u>SLURRY IN TRENCH</u> | | | |
| - DENSITY OF THE SLURRY (1 TEST PER WEEK). | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| - VISCOSITY OF THE SLURRY (1 TEST PER WEEK) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |