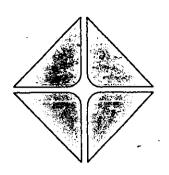
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### **Atlantic Richfield Company**

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

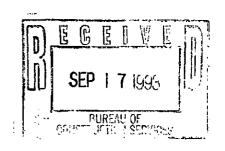


### GEOSYNTEC CONSULTANTS

5775 Peachtree Dunwoody Road Atlanta, Georgia 30342

Project Number: GQ3201

September 1993



### **APPENDIX B**

# GEOSYNTEC CONSULTANTS' WEEKLY FIELD REPORTS



GEO SYNTEC CONSULTANTS FILE NO. 1-05

WEEKLY FIELD REPORT	DATE: 2_day_J_ue_mo_9<_year
PROJECT: Sinclair Referring Lamedin LOCATION: Wellswille, D.P.	MEEK ENDING: 7 day Jule mo 92 year
During the following key	activities were performed
· a submittal log sur review form were der	eloped.
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COPY TO: R. IVY, ARCO	PER: J.L. Leac



WEEKLY FIELD REPORT	DATE: 9 day Tome mo 92 year
PROJECT: Sirelair Refincy leme tinhit	PROJECT NO.: 602201 TASK NO.: 02
LOCATION: Nell' Will Now Est	PROJECT NO.: 603201 TASK NO.: 02  WEEK ENDING: 7 day True mo 92 year
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CODY TO: TUY ARCO	THBeat



## ARCO ❖

WEEKLY FIELD REPORT	DATE: 16 day Jine mo 1992 year
PROJECT: SINCLAIR REFINERY REMED	IATION PROJECT NO.: GQ3201 TASK NO.: 02
LOCATION: WELLSVILLE, NEW YORK	WEEK ENDING: 14 day Jun mo 92 year
During the week em	ting 14 June 1992 tinities took place:
	equinements were reviewed by
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USEPA ENC MY	· , , , ∈ , , , , , , , , , , , , , , ,
	olysis Plan and Health and It reviewed
· Two test bining along slurry were taken by	ys were drilled by Geo-Com bring you alignment. Samples from with you Geo-Con to continu soil-bostonite  Dailling was monitored by Itants.
Mix design. Boin GeoSyntec Comsus	Thats. Was monitored by
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With Plan are	meeting was submitted
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GEO SYNTEC CONSULTANTS FILE NO. 1-05-WFR	REPORT PAGE NO SHEET NO OF

	GEOSYNTEC	CONSULTANTS
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GEO SYNTEC CONSULTANTS FILE NO. 1-05-WFR

### ARCO ❖

SHEET NO. /

WEEKLY FIELD REPORT	DATE: 29 dayかいをmo 1992 year
PROJECT: SINCLAIR REFINERY REMEDIATION PLOCATION: WELLSVILLE, NEW YORK	
The Blosing Key acquire work ending 21 June 19	s tok place during the
R. North arrived site departed site on 196	June 15 June of J. Beech
· Site dearing along s Started on 17 June	stung usell alignment
· Questions Russed with 1 coordinates of location	hun Patal, BBABCO, regarding Shing war with respect
	esting procedures/protects.
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· Subnittals reviews - Evidence of Medic	als: - cipproved
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GEO SYNTEC CONSULTANTS FILE NO. 1-05-WFR

### ARCO ❖

SHEET NO. / OF\_

WEEKLY FIELD REPORT	DATE: <u>29</u> day ರು ನ್ e mo <u>1992</u> year
PROJECT: SINCLAIR REFINERY REMEDIATION	PROJECT NO.: GQ3201 TASK NO.: 02
LOCATION: WELLSVILLE, NEW YORK	WEEK ENDING: 28 day but mo 92 year
The planing Key acknities weak ending 28 Thre	took prace during the
week ending 38 due	7992
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· Shing war alignmen	t excavated to design
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· Most of Slung war	equipment mobilised to
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· Established with EPA	the locations to Schiples
of texted for load of a	the locations to Schiplest serie outside Northern 1 Refinery trea - 21 locations.
, all so jacung	med - 21 rocking.
· wark through of pow	er house building. Inspector
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GEO SYNTEC CONSULTANTS FILE NO. 1-05-WFR

### ARCO ❖

SHEET NO. 2 OF 2

WEEKLY FIELD REPORT	DATE: 24 day June mo 1992 year
PROJECT: SINCLAIR REFINERY REMEDIATION PROJECT	NO.: GQ3201 TASK NO.: 02
	NDING: 28 day dunemo 1992 year
· Subnittals reviewed for	
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- 8 lung war work	bian.
- oc. Management	, Да.
- Field Charge req - Ension & Sediment	tken
- Ension & Sediment	for
· weekly construction meeting	ig hold with Geo-Con
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### ARCO ♦

	ANCO
WEEKLY FIELD REPORT	DATE: 11 day dsufmo 1992 yea
PROJECT: SINCLAIR REFINERY REMEDIATION	ON PROJECT NO.: GQ3201 TASK NO.: \$ 03
LOCATION: WELLSVILLE, NEW YORK	WEEK ENDING: 5 day JULY mo 1992 year
···The following key activities took pla	ce during the week ending 5 July 1992,
-	lished control and some of the points from l obtain soil samples in the refinery area s.
laboratory analyses of soil samp and documentation to be on site	ted Law Environmental Inc. to perform oles. Arranged for all necessary shipping before 6 July. Forwarded to Lou DiGuardia t Law Environmental supplied in order for boratory.
sedimentation basin area. Comp moisture/density tests performe	placement commenced; starting within the pleted in this area on 30 June. In situed by Geo Con. All test results indicate compliance with specification requirement
Grubbing started within limits outside this area until s	le site essentially completed by 2 July. of sedimentation pond and did not extend storm-water controls completed around es stockpiled and await grinding.
Drum carcasses stockpiled is shredding.	in interior of CELA in preparation for
that the slurry wall alignmen	sh center line of slurry wall. It appears t encroaches on the toe of the dike at tions 4+00 and 12+00. Requested that this area.

COPY TO: R. TYY

GEO SYNTEC CONSULTANTS FILE NO. 1-05-WFR

REPORT PAGE NO.



### GEOSYNTEC CONSULTANTS

### ARCO ❖

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<ul> <li>Weekly progress meetir</li> </ul>	g held on 1 July.		• • • • • • • • • • • • • • • • • • • •
,	to add to a cutting	• • • • • • • • • • • • • • • • • • • •	
_	nd compliance test; an (requires change		
• Submittals reviewed for			
Cubmitted a maniana d S.			***************************************
• All slurry wall equipm	ent on site. Assemb	ly of Link b	pack-hoe continues.
	<u> </u>		
LOCATION: WELLSVILLE, NEW YORK			_daysty mo 1992 year
PROJECT: SINCLAIR REFINERY REA	MEDIATION PROJECT	NO.: <u>GQ32</u>	01 TASK NO.: 203
			_day dur mo 1992 year
WEEKLY FIELD REPORT		DATE U	



### GEOSYNTEC CONSULTANTS

### ARCO ♦

SESSION SOLIZIONIS SELECTION SELECTI	ARCO
WEEKLY FIELD REPORT	DATE: 11 day will mo 1992 year
PROJECT: SINCLAIR REFINERY REMEDIATION	PROJECT NO.: GQ3201 TASK NO.: # 03
LOCATION: WELLSVILLE, NEW YORK	WEEK ENDING: 12 day Jour mo 1992 year
The following key activities took place	during the week ending 12 July 1992.
J. Beech of GeoSyntec Consulta     wall construction activities.	nts on site to observe start of slurry
Tony Esponosa of GeoSyntec Co     perform soil sampling in refinery	
- Lou DiGuardia of EPA or	
	dures and protocols to be followed and
observed start of sampling	
	cella of Weston Sper on site from 6 to 9
	observe all sampling operations and to
	amples obtained by GeoSyntec Consultants.
· · · · · · · · · · · · · · · · · · ·	pled total 47 locations from Areas A, B,
	rea A (12 No.) to be tested for both lead
	.) to be tested for arsenic only. EPA
will test all its split sa arsenic.	mples (approx 10 No.) for both lead and
- laboratory tosting to be	e performed by ICP (inductively coupled
olasma) at OA level 3 as ac	reed by Lou DiGuardia.
- sample locations (21 No.)	on National Fuels property could not be
sampled since National Fue	Is would not permit access.
<ul> <li>Installation of traffic cap and</li> </ul>	working pad continued from sedimentation
	ection around the site. Due to space
limitations the working pad has	been installed outside the traffic cap
	to Station 24+00. In this section only
fresh grout and imported process	ed soil will be used to form the soil-
bentonite backfill; neither tre	nch spoil nor pre-used slurry will be

COPY TO: R. IVY PER: PER:

incorporated into the backfill.



### GEOSYNTEC CONSULTANTS

### ARCO ❖

WEEKLY FIELD REPORT	DATE: 11 day by mo 1992 year
PROJECT: SINCLAIR REFINERY REMEDIATION F	PROJECT NO.: GQ3201 TASK NO.: \$\\ \text{PROJECT NO. 1992-year}
• Assembly of slurry wall equipmen	t, including Link back-hoe completed.
progressing in an anticlockwise d with a 1:1 slope. Trench excavatio 10 July (no slurry work performed	ted on 9 July at Station 3+00 and irection. Lead in trench constructed n reached approximately Station 0+90 on on 11 and 12 July). Depth of trench 13 m). Field quality control checks fications.
perform a stability check where to the toe and slope of the dike. - Surveyors from D. Myers Stations 4+00 and 12+00.	agreed that GeoSyntec Consultants will he slurry wall alignment encroaches on obtained cross section data between ded to GeoSyntec Consultants' Atlanta es started.
and east part of site. Geo Con's greater than 95% compaction and color of greater than 90% compaction.	continues to be installed around south in situ moisture/density tests indicate mpliance with specification requirement
Submittals reviewed for:     Water source and test resu	ion of test pad started.  Ilts; nce tests (addendum 1); and
- Chemical compatibility of  • Weekly progress meeting held on	soil-bentonite cutoff wall mix.

COPY TO: R. INY GEO SYNTEC CONSULTANTS FILE NO. 1-05-WFR

PER: 🖳

TO:

Mr. Robert E. Ivy, ARCO

FROM:

Roger B. North, P.E., GeoSyntec Consultants RD

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 (ft²)	21,267	27,667

13 July to 19 July 1992, Weekly Field Report 23 July 1992 Page 2

Quantity Excavated	This Week	Cumulative
Area (m²)	1,976	2,570
Volume (yd³)	1,834	2,384
Volume (m³)	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 excedences (>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 (27QCO3);
  - Emergency response addenda (27HS10 and 28HS10);
  - Geotextile filter fabric (28WPO5);
  - Low permeability geosynthetic (28WP05, Add 1);
  - Low permeability geosynthetic (28WP05, Add 2);
  - 60 mil VLDPE geomembrane (28WP05, Add 3); and
- Geosynthetic drainage layer (28WPO5, 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

T0:

Mr. Robert E. Ivy, ARCO

FROM:

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



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 (ft²)	24,855	52,522
Area (m²)	2,311	4,879
Volume (yd³)	2,205	4,589

20 July to 26 July 1992, Weekly Field Report 5 August 1992 Page 2

Quantity Excavated	This Week	Cumulative
Volume (m³)	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  $2x10^{-8}$  cm/sec obtained for backfill from Station 2+60. Meets specification requirement of permeability less than  $1x10^{-7}$  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.

20 July to 26 July 1992, Weekly Field Report 5 August 1992 Page 3

- 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 yd<sup>3</sup> 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 (27SRO1 and 28SRO1);
  - Submittal list:
  - Geosynthetic drainage layer (28WP05, Add 5);
  - Low permeability geosynthetic (28WPO5, Add 1); and

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

- Low permeability geosynthetic (28WPO5, Add 2).
- Weekly progress meeting held on 24 July.

. . . . .

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

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 (ft²)	2,250	54,772
Area (m²)	209	5,092
Volume (yd³)	194	4,783
Volume (m³)	148	3,660

<sup>•</sup> 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.

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

- 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  $4x10^{-8}$  cm/sec obtained for backfill from Station 26+00. Meets specification requirement of permeability less than  $1x10^{-7}$  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 (27QCO3);
  - Construction work plan for RCRA cap (28WP01);
  - Borrow source and compliance (28QCO2); and
  - Borrow source and compliance (28QCO2, Add 1).
- Weekly progress meeting held on 30 July.

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

Mike Hrywnak, COE

TO:

Mr. Robert E. Ivy, ARCO

FROM:

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

RED

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 <sup>2</sup> )	26,560	81,332
Area (m²)	2,468	7,556
Volume (yd³)	2,359	7,141
Volume (π³)	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, 5 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 yd<sup>3</sup>; 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

TO:

Mr. Robert E. Ivy, ARCO

FRON:

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

280

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 <sup>2</sup> )	2,105	83,450
Area (m²)	196	7,753
Volume (yd³)	187	7,328
Volume (m³)	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  $19,500 \text{ yd}^3$  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 (280C19);
  - Low permeability geosynthetic (28WPO5, Add 6);
  - Borrow source compliance, gas vent stone (280C04, Add 2); and
  - Borrow source compliance, chemical analysis (28QCO4, Add 3).
- · Geo-Con weekly progress meeting held on 14 August.
- Separator pre-mobilization meeting held with Sevenson Environmental Services, Inc. on 14 August.

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

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 yd<sup>3</sup> 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 Sevenson 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

TO:

Mr. Robert E. Ivy, ARCO

FROM:

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

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, Work being performed in level B selected for treatment. protection.
- GeoSyntec Consultants completed adjustment of CELA cap geometry to provide approximately 19,500 yd<sup>3</sup> 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

24 to 30 August 1992, Weekly Field Report 31 August 1992 Page 2

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<sub>3</sub>"; 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 (28QCO2, 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.
- Sevenson 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.
- Sevenson weekly progress meeting held on 27 August.

\* \* \* \* \*

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

TO:

Mr. Robert E. Ivy, ARCO

FROM:

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

RBO.

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  $yd^2$  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.

31 August to 6 September 1992. Weekly Field Report 4 September 1992 Page 2

- 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 (28WPO3).
- · 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

31 August to 6 September 1992, Weekly Field Report 4 September 1992
Page 3

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.
- Sevenson 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

T0:

Mr. Robert E. Ivy, ARCO

FROM:

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

(B)

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.

- 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  $\rm ft^2$  (1,409  $\rm m^2$ ) 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

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.

- 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 ft<sup>2</sup> (1,392 m<sup>2</sup>) placed from Station 20+95 to 16+70 entailing approximately 792 linear ft (241m) of seam.

14 to 20 September 1992, Weekly Field Report 19 September 1992 Page 2

- 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.

- 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.

14 to 20 September 1992, Weekly Field Report 19 September 1992 Page 3

- Plugged 16 inch diameter CMP from Current Controls to separator with air bag at up stream end.
- Track hoe delivered on 16 September.
- JEB 16/mm/93

 Temporary bypass pumping started on 16 September and will continued until permanent bypass is installed. 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

TO: Mr. Robert E. Ivy, ARCO

FROM: Jonathan E. Brandes, GeoSyntec Consultants  $\mathcal{I} \in \mathcal{L}$ 

Collin P. Sukow, GeoSyntec Consultants

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.

- 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. Ponded 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 ft $^2$  (2,556 m $^2$ ) 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.

21 to 27 September 1992, Weekly Field Report 26 September 1992 Page 2

- 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

TO: Mr. Robert E. Ivy, ARCO

Jonathan E. Brandes, GeoSyntec Consultants JEB FROM:

Collin P. Sukow, GeoSyntec Consultants

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.

- 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 ft<sup>2</sup> (13,171 m<sup>2</sup>) of Polyfelt 7 oz. geotextile was deployed throughout week for a total of 168,219 ft<sup>2</sup> (15,634  $m^2$
- · 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.

28 September to 4 October 1992, Weekly Field Report 4 October 1992 Page 2

- · 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 ft $^2$  (1,145 m $^2$ ) of VLDPE this week and a total of 45,648 ft $^2$  (4,242 m $^2$ ) 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



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

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

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.

- 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 yd<sup>2</sup>  $(11,620 \text{ m}^2)$ .
- CELA grading continues; more than half of CELA to final grade.
- Approximately 86,655  $ft^2$  (8,053  $m^2$ ) of Polyfelt 7 oz. geotextile (TS 700) deployed for a total of 269,454 ft<sup>2</sup> (25,042  $m^2$ )
- 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 CFLA.

- 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 ft $^2$  (436 m $^2$ ) of VLDPE this week and a total of 50,338 ft $^2$  (4,678 m $^2$ ) to date.
- Geo-Con obtained shelby tubes from slurry wall at stations 5+00 and 3+80 on 6 October.
- GeoSyntec Consultants obtained shelby 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.

- 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.

5 to 11 October 1992, Weekly Field Report 15 October 1992 Page 3

- 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

TO: Mr. Robert E. Ivy, ARCO

FROM: Jonathan E. Brandes, GeoSyntec Consultants  $\Sigma \in \mathcal{S}$ 

Roger B. North, P.E., GeoSyntec Consultants Pars.

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 ft<sup>2</sup> (12,428 m<sup>2</sup>) of Polyfelt 7 oz. geotextile (TS 700) deployed for a total of 403,180 ft<sup>2</sup> (37,470 m<sup>2</sup>)
- 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-

- I,7 and II around perimeter of CELA. Monitoring well MWR-II developed on 16 October.
- Gundseal and VLDPE drainage channel underliner was deployed on 15 October for a total of 4,400 ft $^2$  (409 m $^2$ ) of VLDPE this week and a total of 54,738 ft $^2$  (5,087 m $^2$ ) 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<sup>-8</sup> 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.

12 to 18 October 1992, Weekly Field Report 2 November 1992 Page 3

 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

12 to 18 October 1992, Weekly Field Report 2 November 1992 Page 4

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

TO:

Mr. Robert E. Ivy, ARCO

FROM:

Jonathan E. Brandes, GeoSyntec Consultants JES Roger B. North, P.E., GeoSyntec Consultants LBD

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.

19 to 25 October 1992, Weekly Field Report 4 November 1992 Page 2

Item	Quantity This Week	Cumulative Quantity
Gas Vent Stone (tons)	5,929	25,062
Geotextile (TS700) (ft <sup>2</sup> )	38,340	487,037
Geotextile (TS700) (m <sup>2</sup> )	3,562	45,247
VLDPE in Channel (ft <sup>2</sup> )	0	30,138
VLDPE in Channel (m²)	0	2,800
Gundseal in CELA (ft <sup>2</sup> )	78,042	78,042
Gundseal in CELA (m²)	7,250	7,250
VLDPE in CELA (ft <sup>2</sup> )	83,754	83,754
VLDPE in CELA (m <sup>2</sup> )	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.

19 to 25 October 1992, Weekly Field Report 4 November 1992 Page 3

• 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

	W/E 4 00	CTOBER	W/E 11	OCTOBER	W/E 18	OCTOBER
ITEM	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

	W/E 25	OCTOBER
ITEM	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

T0: Mr. Robert E. Ivy, ARCO

FROM: Jonathan E. Brandes, GeoSyntec Consultants

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

**JEB** 

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.

26 October to 1 November 1992, Weekly Field Report 5 November 1992
Page 2

 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 <sup>2</sup> )	162,862	649,899
Geotextile (TS700) (m <sup>2</sup> )	15,130	60,378
VLDPE in Channel (ft <sup>2</sup> )	10,140	66,088
VLDPE in Channel (m²)	942	6,142
Gundseal in CELA (ft <sup>2</sup> )	100,045	178,087
Gundseal in CELA (m²)	9,298	16,551
VLDPE in CELA (ft <sup>2</sup> )	105,864	189,618
VLDPE in CELA (m²)	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.

26 October to 1 November 1992, Weekly Field Report 5 November 1992 Page 3

- 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 (28QCO4, Addendum 17);
  - Gas vent stone permeability results (28QCO4, Addendum 18); and
  - Submittal register update (28QCO4, 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.

26 October to 1 November 1992, Weekly Field Report 5 November 1992 Page 4

#### 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

Volume filtrate treated (gal.)

Volume filtrate to POTW (gal.)

UNIT 2, SEPARATOR REMEDIATION

	₩/₽ A C	CTORED	62 / fz 11	OGRODED	ta/n 10	OCTORED.
ITEM	•	CTOBER	•	OCTOBER	•	OCTOBER
IIEM	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	· o	. 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
	W/E 25	OCTOBER	W/E 1 N	OVEMBER		
ITEM	WEEK	TOTAL	WEEK	TOTAL		
Volume aqueous phase removed (gal.)	0	82,000	0	82,000		
Volume aqueous phase treated (gal.)		-		76,564		
Volume of aqueous phase to POTW (gal.)		. 0	23,362	-		
Volume sludge treated (gal.)		112,976		· ·		
Weight filter-cake off-site (tons)			0	0		
Volume filtrate produced (gal.)		Unknown	Unknown	88,610		

0

0

by 29 Oct

0

0

TO:

Mr. Robert E. Ivy, ARCO

FROM:

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

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 <sup>2</sup> )	112,870	762,769
Geotextile (TS700) (m <sup>2</sup> )	10,490	70,889
VLDPE in Channel (ft <sup>2</sup> )	0	66,088
VLDPE in Channel (m²)	0	6,142
Gundseal in CELA (ft <sup>2</sup> )	74,175	252,262
Gundseal in CELA (m²)	6,894	23,444
VLDPE in CELA (ft <sup>2</sup> )	65,032	254,550
VLDPE in CELA (m <sup>2</sup> )	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 Carrolton, 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.

2 to 8 November 1992, Weekly Field Report 8 November 1992 Page 4

### 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

	W/E 4 OCTOBER		/E 4 OCTOBER W/E 11 OCTOBER		W/E 18 OCTOBER	
ITEM	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

	W/E 25	OCTOBER	W/E 1 1	NOVEMBER	W/E 8 1	NOVEMBER	
ITEM	WEEK	TOTAL	WEEK	TOTAL	WEEK	TOTAL	
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.)	0 13,210 0	82,000 49,610 0	0 26,954 23,362		0 5,436 26,248	49,610	
Volume sludge treated (gal.) Weight filter-cake off-site (tons)	51,576 0	112,976 0	34,384 0	147,360 0	<del>34,384</del> ,	<u>196,480</u> 0	49,120
Volume filtrate produced (gal.)	Unknown	Unknown	Unknown	88,610 by 29 Oct	Unknown	140,999 by 6 Nov	JEB
Volume filtrate treated (gal.)	0	0	0	0	8,276	8,276	16/11/cm/93
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	

TO:

Mr. Robert E. Ivy, ARCO

FROM:

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

28<u>1</u>

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.

- 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.

9 to 15 November 1992, Weekly Field Report 16 November 1992 Page 2

- 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 <sup>2</sup> )	115,080	877,849
Geotextile (TS700) (m²)	10,691	81,555
VLDPE in Channel (ft <sup>2</sup> )	0	66,088
VLDPE in Channel (m <sup>2</sup> )	0	6,142
Gundseal in CELA (ft²)	29,440	281,702
Gundseal in CELA (m²)	2,735	26,171
VLDPE in CELA (ft <sup>2</sup> )	17,050	271,700

9 to 15 November 1992, Weekly Field Report 16 November 1992 Page 3

Item	Quantity This Week	Cumulative Quantity
VLDPE in CELA (m²)	1,584	25,242
Geocomposite Layer (ft²)	91,200	91,200
Geocomposite Layer (m²)	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<sup>-8</sup> cm/sec satisfies specification requirement of permeability less than 1 \* 10<sup>-5</sup> 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.

9 to 15 November 1992, Weekly Field Report 16 November 1992 Page 4

### 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. Sevenson requested ARCO consider use of sand-blasting as an alternate cleaning method. Sand-blasting trial performed on 12 and 13 November.

9 to 15 November 1992, Weekly Field Report 16 November 1992 Page 5

- · 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

	W/E 4 00	CTOBER	W/E 11	OCTOBER	W/E 18	OCTOBER	
ITEM	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	

	W/E 25	OCTOBER	W/E 1 N	NOVEMBER	W/E 8 1	NOVEMBER	
ITEM	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	- 49,120
Weight filter-cake off-site (tons)	0	0	0	0	o o	0	11/12
Volume filtrate produced (gal.)	Unknown	Unknown	Unknown	88,610	Unknown	140,999	JEB
				by 29 Oct		by 6 Nov	16/mur/93
Volume filtrate treated (gal.)	0	0	0	0	8,276	8,276	(B) man (
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	

## SINCLAIR REFINERY, WELLSVILLE, NEW YORK

## UNIT 2, SEPARATOR REMEDIATION

ITEM	W/E 15 WEEK	NOVEMBER 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

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

RBD

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.

GQ3201/WE0049

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 <sup>2</sup> )	157,650	1,037,218
CELA Geotextile (TS700) (m²)	14,646	96,358
CELA Geotextile (TS1000) (ft <sup>2</sup> )	18,200	18,200
CELA Geotextile (TS1000) (m²)	1,691	1,691
VLDPE in Channel (ft <sup>2</sup> )	8,865	83,845
VLDPE in Channel (m²)	824	7,792
Gundseal in CELA (ft <sup>2</sup> )	84,490	366,192
Gundseal in CELA (m²)	7,849	34,019
VLDPE in CELA (ft <sup>2</sup> )	89,254	356,994
VLDPE in CELA (m²)	8,295	33,178
Geocomposite Layer (ft²)	79,800	171,000
Geocomposite Layer (m²)	7,413	15,886
Common Fill (tons)	10,539	21,166

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

16 to 22 November 1992, Weekly Field Report 22 November 1992 Page 3

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 (28SAO2, Addendum 3)
  - Common fill borrow source and compliance tests Wayne gravel products (28QCO4, 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

16 to 22 November 1992, Weekly Field Report 22 November 1992 Page 4

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 preformed 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, ARCÓ 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

	W/E 4 00	CTOBER	W/E 11	OCTOBER	W/E 18	OCTOBER	
ITEM	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	

	W/E 25	OCTOBER	W/E 1 I	NOVEMBER	W/E 8 1	NOVEMBER	
ITEM	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	<del>34,384</del> ,	<b>196,480</b>	110
Weight filter-cake off-site (tons)	0	0	0	0	0	0	49,120
Volume filtrate produced (gal.)	Unknown	Unknown	Unknown	88,610	Unknown	140,999	JEB.
				by 29 Oct		by 6 Nov	16/mer /93
Volume filtrate treated (gal.)	0	0	0	0	8,276	8,276	(6)
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	

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	Ö	0,270
Volume extraneous water treated (gal.)	0	12,623	Ŏ	12,623
Volume extraneous water to POTW (gal.)	12,623	12,623	Õ	12,623

## WEEKLY FIELD REPORT

T0:

Mr. Robert E. Ivy, ARCO

FROM:

Jonathan E. Brandes, GeoSyntec Consultants JEB

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

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.

23 to 29 November 1992, Weekly Field Report 3 December 1992 Page 2

Item	Quantity This Week	Cumulative Quantity
Gas Vent Stone (tons)	1,060	30,095
CELA Geotextile (TS700) (ft <sup>2</sup> )	0	1,037,218
CELA Geotextile (TS700) (m²)	0	96,358
CELA Geotextile (TS1000) (ft <sup>2</sup> )	0	18,200
CELA Geotextile (TS1000) (m <sup>2</sup> )	0	1,691
VLDPE in Channel (ft <sup>2</sup> )	0	83,845
VLDPE in Channel (m²)	0	7,792
Gundseal in CELA (ft <sup>2</sup> )	36,000	379,707
Gundseal in CELA (m²)	3,346	35,289
VLDPE in CELA (ft <sup>2</sup> )	36,960	393,954
VLDPE in CELA (m²)	3,435	36,600
Geocomposite Layer (ft <sup>2</sup> )	91,770	262,770
Geocomposite Layer (m²)	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.

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

## 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 preformed 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 T				E TS1000			CHAN	NEL VLDP	Ė	CHANNEL	GUNSEAL	CELA GUNDSEAL		
	(Lir	near ft)	(sq	. ft)	(Linear ft) (sq. ft)			(Lin	ear ft)		. ft)		, 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	<b>3</b> 50	1,930	7,700	42,950	3,961	9,793		0
04-0ct		10,740		168,219		0		0		1,930		42,950		9,793		0
05-0ct	1,080	11,820	16,200	184,419		0		0		1,930		42,950		9,793		0
06-Oct		14,719		227,904		0		0		1,930		42,950		9,793		0
07-0ct	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		GEOTEX	TILE TS70	o	GEOTEXTILE 151000				CHAN	NEL VLDP	E	CHANNEL	. GUNSEAL	CELA	GUNDSEAL	
	(Lir	ear ft)	(sq.	. ft)	(Line	ear ft)	.pa)	ft)	(Line	ear ft)	(sq	. ft)	(sc	1. 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
09-0ct		16,517		254,874		0		0		2,143		51,640		14,681		G
10 <b>-0</b> ct	3,132	19,649	46,980	301,854		0		0		2,143		51,640		14,681		0
11-0ct		19,649		301,854		0		0		2,143		51,640		14,681		0
12-0ct	1,349	20,998	20,235	322,089		0		0		2,143		51,640		14,681		0
13-0ct		20,998		322,089		0		0		2,143		51,640		14,681		0
14-0ct	2,854	23,852	42,810	364,899		0		0		2,143		51,640		14,681		0
15-0ct		23,852		364,899		0		0	200	2,343	4,400	56,040	2,400	17,081		0
16-0ct	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
18-0ct		29,913		455,816		0		0		2,343		56,040		17,081		0
19-0ct	1,556	31,469	23,340	479, 156		0		0		2,343		56,040		17,081		0
20-0ct	100	31,569	1,500	480,656		0		0		2,343		56,040		17,081	7,542	7,542
21-0ct		31,569		480,656		0		0		2,343		56,040		17,081		7,542
22-0ct		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
24-0ct	900	32,469	13,500	494,156		0		0		2,343		56,040		17,081	7,500	78,042
25-0ct		32,469		494,156		0		0		2,343		56,040		17,081		78,042
26-0ct	927	33,396	13,905	508,061		0		0		2,343		56,040		17,081	19,035	97,077
27-0ct	1,337	34,733	20,057	528,118		0		0		2,343	4,400	60,440	3,000	20,081	3,000	100,077
28-0ct	615	35,348	9,225	537,343		0		0		2,343	•	60,440		20,081	45,000	145,077
29-0ct	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
31-0ct	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		<b>74,98</b> 0		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		GEOTE	KTILE TS7	' <b>0</b> 0		GEOTEXTILE TS1000				CHAN	NEL VLDP	E	CHANNEL	. GUNSEAL	CELA GUNDSEAL		
	(Lin	ear ft)	(8	q. ft)	(Line	ear ft)	ps)	. ft)	(Line	ear ft)	(so	. ft)	(sc	1. 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, <b>98</b> 0		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	CE	LA VLDPE	CELA GE	OCOMPOSITE	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	Û	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		
67-Aug	0	0	0	0	0	971 1,641		
08-Aug	0	0	0	0	0	1,641		
09-Aug	0	0	C	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	O	703 3,564		
19-Aug	0	0	0	0	0	524 4,088		
20-Aug	0	G	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	G	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 GEO	COMPOSITE	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	G	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	O	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	G	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	Đ	0	0	0	G	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	
	(Lin	ear ft)	(se	q. ft)	(Line	ear ft)	(sq	. ft)	(1	ons)	C	ions)	
	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-S <del>e</del> p		Đ		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	
01-0ct		0		0		0		0		0	709	6,701	
02-0ct		0		0		0		0		. 0	622	7,323	
03-0ct		0		0		0		0		0	856	8,178	
04-Oct		0		0		0		0		0		8,178	
05-0ct		0		0		0		. 0		0	784	8,962	
06-0ct		0		0		0		0		0	809	9,771	
07-0ct		0		0		0		0		0	871	10,642	
08-0ct		0		0		0		0		0	607	11,249	
09-0ct		0		0		0		0		0	1,154	12,403	
10-0ct		0		0		0		0		0	928	13,331	
11-0ct		0		0		0		0		0		13,331	
12-0ct		0		0		0		0		0	1,197	14,527	
13-0ct		0		0		0		0		0	1,434	15,961	
14-0ct		0		0		0		0		0	911	16,872	
15-0ct		0		0		0		0		0	934	17,805	
16-0ct		0		0		0		0		0	1,328	19,133	
17 <u>-</u> 0ct		0		0		0		0		0	738	19,871	
18-0ct		0		0		0		0		0		19,871	
19-0ct		0		0		0		0		0	2,025	21,896	
20-0ct	431	431	9,482	9,482		0		0		0	1,621	23,516	
21-0ct		431		9,482		0		0		0	1,546	25,062	
22-0ct	1,680	2,111	36,960	46,442		0		0		0		25,062	
23-0ct	1,396	3,507	30,712	77,154		0		0		0		25,062	
24-0ct	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 GE	OCOMPOS I	TE	COMMON FILL		GAS VENT STON	
	(Lin	ear ft)	( s	q. ft)	(Lir	mear ft)	(s	q. ft)	(1	fons)	C	Tons)
	Day	Total	Day	Total	Day	Total	Day	Total	Day	Total	Day	Total
26-0ct	1,097	4,904	24,134	108,328		0		0		0		25,062
27-0ct	200	5,104		108,328		0		0		0		25,062
28-0ct	2,089	7,193	45,958	154,286		0		0		0		25,062
29-0ct	374	7,567	8,228	162,514		0		0		0		25,062
30-0ct	494	8,061	10,868	173,382		0		0		0	544	25,606
31-0ct	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 C WEEK	OCTOBER TOTAL	W/E 11 WEEK	OCTOBER TOTAL	W/E 18 WEEK	OCTOBER TOTAL
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.) Weight filter-cake off-site (tons) Volume filtrate produced (gal.)	49,500 0 0 0 0	49,500 0 0 0 0	0 20,000 0 29,472 0 Unknown		32,500 16,400 0 31,928 0 Unknown	
Volume filtrate treated (gal.) Volume filtrate to POTW (gal.) Volume extraneous water present (gal.) Volume extraneous water treated (gal.) Volume extraneous water to POTW (gal.)	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0
ITEM	W/E 25 WEEK	OCTOBER TOTAL	W/E 1 N WEEK	IOVEMBER TOTAL	W/E 8 N	NOVEMBER
					WELK	TOTAL
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.) Weight filter-cake off-site (tons) Volume filtrate produced (gal.) Volume filtrate treated (gal.) Volume filtrate to POTW (gal.)	13,210 0	0 112,976 0	0 26,954 23,362	82,000 76,564 23,362 147,360 0	5,436 26,248 49,120 0 Unknown	82,000 82,000 49,610 196,480 0

# SINCLAIR REFINERY, WELLSVILLE, NEW YORK UNIT 2, SEPARATOR REMEDIATION

	W/E 15	NOVEMBER	W/E 22	NOVEMBER	W/E 29	NOVEMBER
ITEM	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.)	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	Ó
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.

30 November to 6 December, Weekly Field Report 8 December 1992 Page 2

Item	Quantity	Cumulative
	This Week	Quantity
Gas Vent Stone (tons)	O (Completed)	30,095
CELA Geotextile (TS700) (ft <sup>2</sup> )	O (Completed)	1,037,218
CELA Geotextile (TS700) (m <sup>2</sup> )	O (Completed)	96,358
CELA Geotextile (TS1000) (ft <sup>2</sup> )	82,500 (Completed)	100,700
CELA Geotextile (TS1000) (m <sup>2</sup> )	7,667 (Completed)	9,359
VLDPE in Channel (ft <sup>2</sup> )	0	83,845
VLDPE in Channel (m²)	0	7,792
Gundseal in CELA (ft <sup>2</sup> )	142,800 (Completed)	522,507
Gundseal in CELA (m²)	13,271 (Completed)	48,560
VLDPE in CELA (ft <sup>2</sup> )	141,322 (Completed)	535,276
VLDPE in CELA (m <sup>2</sup> )	13,134 (Completed)	49,747
Geocomposite Layer (ft²)	109,440	372,210
Geocomposite Layer (m²)	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

30 November to 6 December, Weekly Field Report 8 December 1992 Page 3

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.

30 November to 6 December, Weekly Field Report 8 December 1992 Page 4

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 preformed in level B. Used sand removed from Separator by vacuum truck and mixed with sludge covered debris in two roll-off boxes for offsite 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

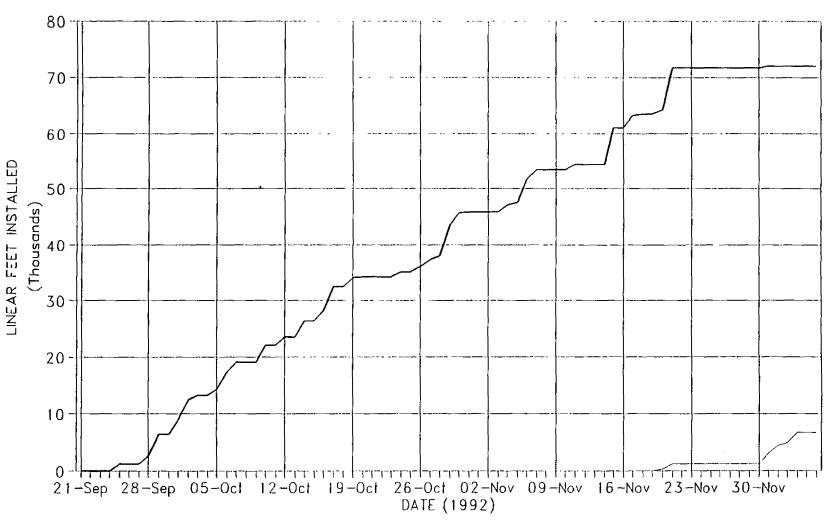
M. Hrywnak, COE

Dr. J. F. Beech, P.E., GeoSyntec Consultants

J. G. Fox, P.G., GeoSyntec Consultants

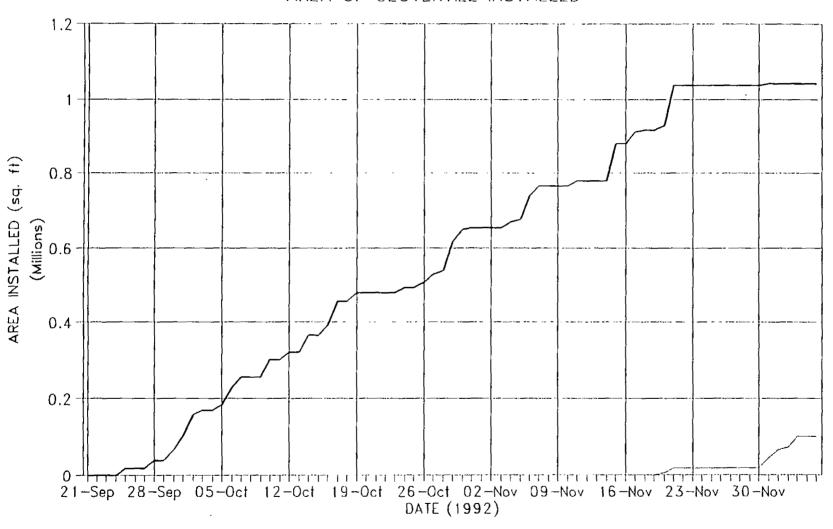
GQ3201/WE0052

# SINCLAIR REFINERY CELA CAP LINEAR FEET OF GEOTEXTILE INSTALLED



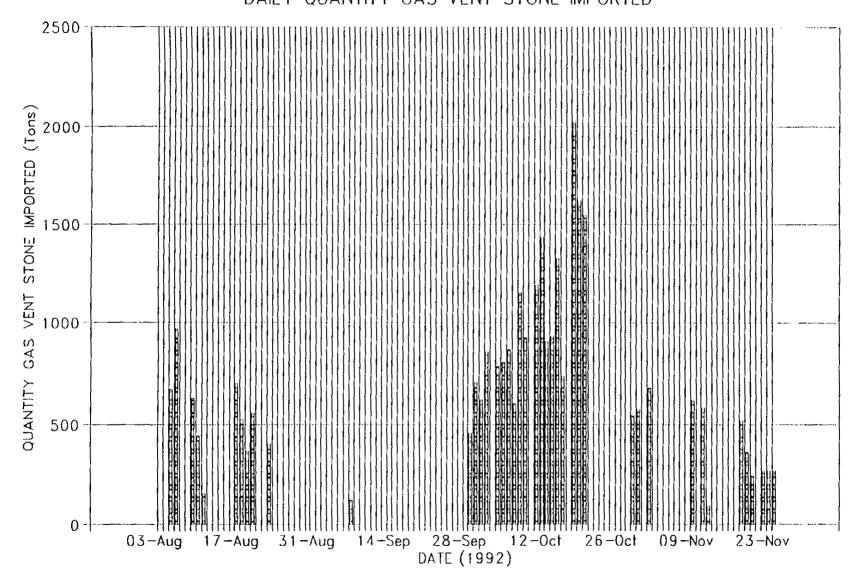
TS700 POLYFELT TS1000 POLYFELT

## SINCLAIR REFINERY CELA CAP AREA OF GEOTEXTILE INSTALLED

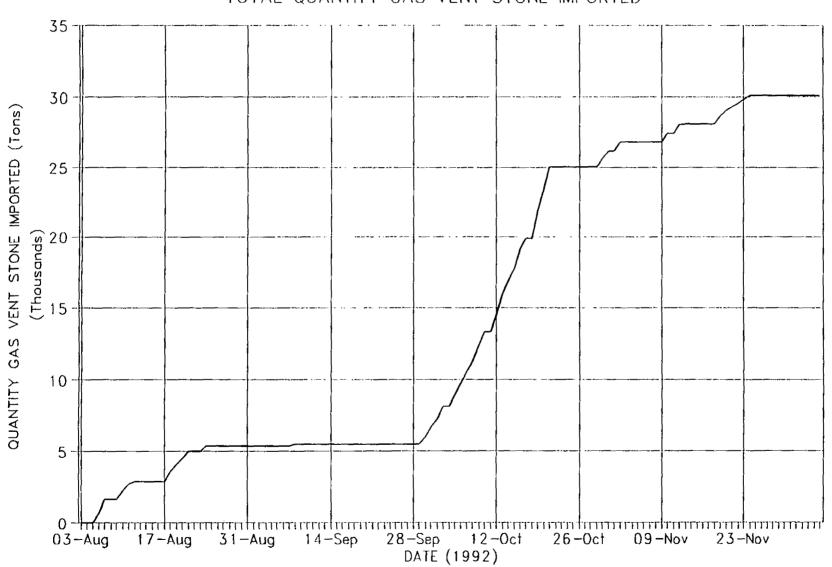


TS700 POLYFELT — TS1000 POLYFELT

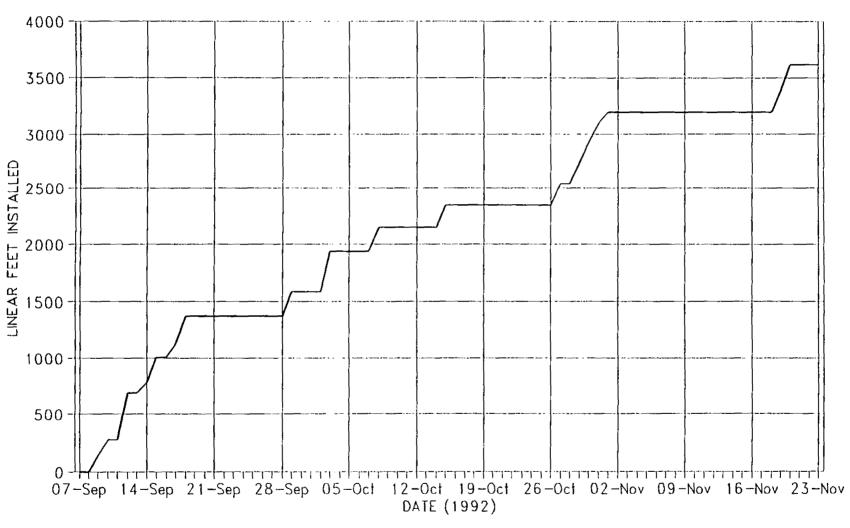
# SINCLAIR REFINERY CELA CAP DAILY QUANTITY GAS VENT STONE IMPORTED



## SINCLAIR REFINERY CELA CAP TOTAL QUANTITY GAS VENT STONE IMPORTED

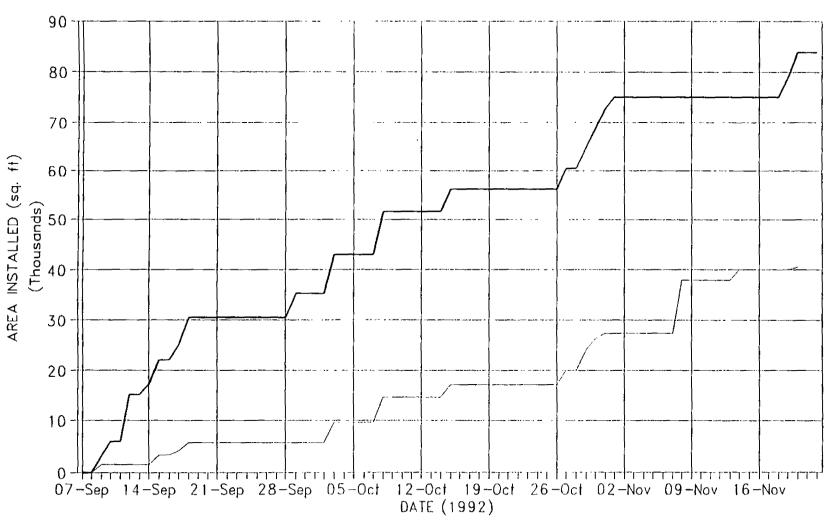


## SINCLAIR REFINERY CELA CAP LINEAR FT OF VLDPE UNDERLINER INSTALLED

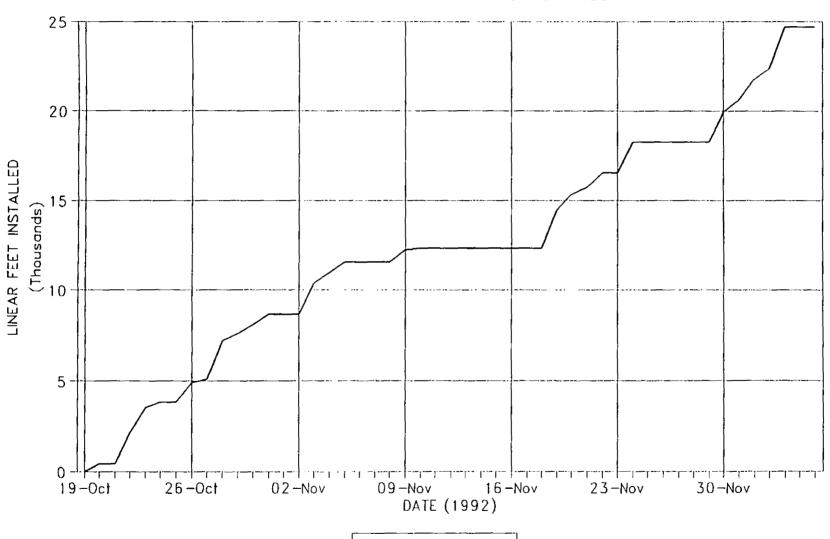


--- VLDPE UNDERLINER

# SINCLAIR REFINERY CELA CAP AREA OF UNDERLINER MATERIALS INSTALLED

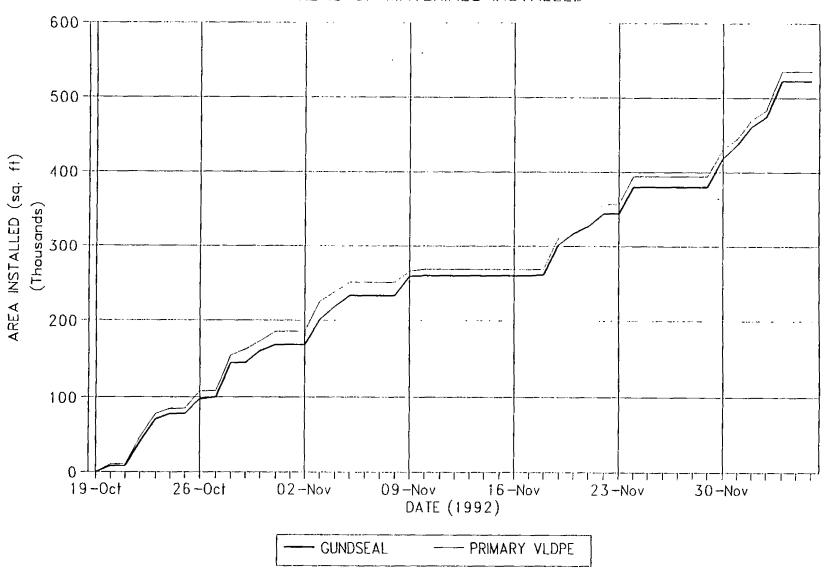


# SINCLAIR REFINERY CELA CAP LINEAR FT OF PRIMARY VLDPE INSTALLED

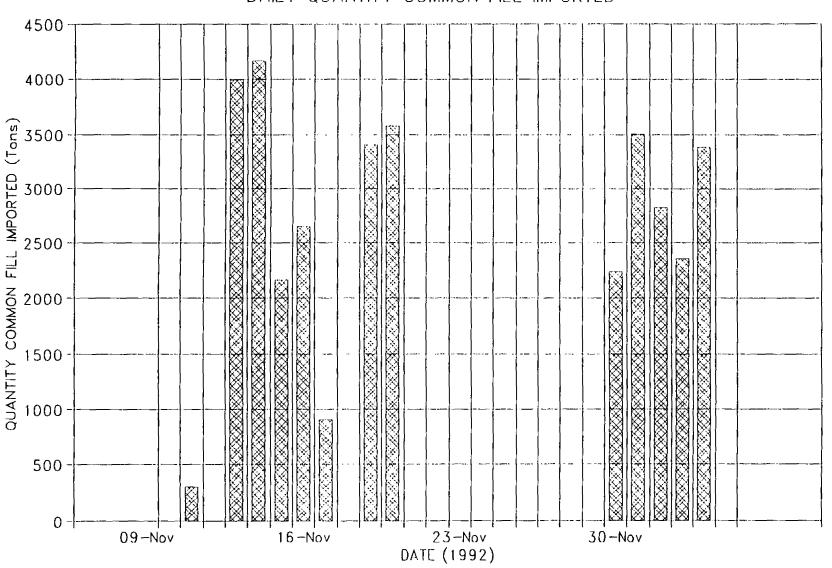


---- PRIMARY VLDPE

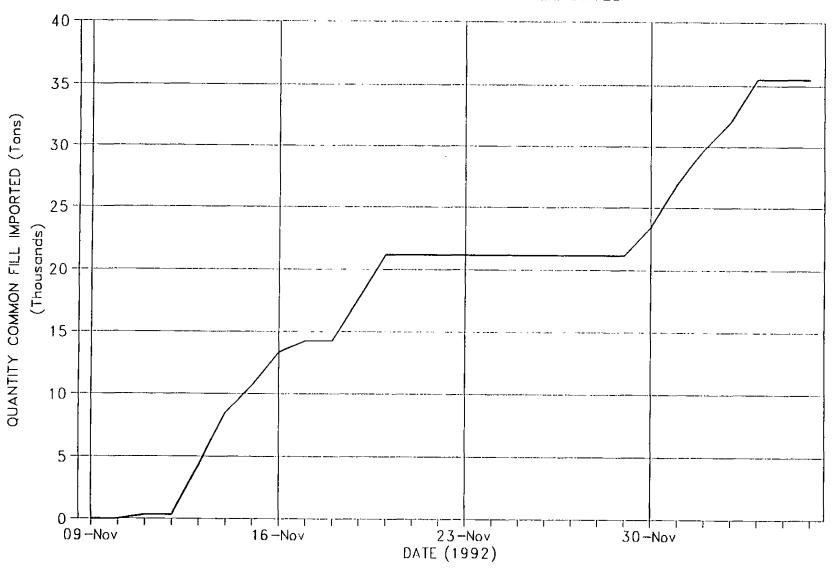
# SINCLAIR REFINERY CELA CAP AREAS OF MATERIALS INSTALLED



## 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

TTC44		OCTOBER	,	OCTOBER		OCTOBER
ITEM	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	•	16,400	36,400
Volume of aqueous phase to POTW (gal.)  Volume sludge treated (gal.)	0	0	0 29,472	20 472	21 020	0
Weight filter-cake off-site (tons)	0	0	29,4/2	29,472 0	31,928 0	61,400
Volume filtrate produced (gal.)	Ö	Ŏ	Unknown	-	Unknown	Unknown
Volume filtrate treated (gal.)	0	0	0	0	0	0
Volume filtrate to POTW (gal.)	Ŏ	Ŏ	ŏ	0	0	0
Volume extraneous water present (gal.)	Ō	Ŏ	Ö	Ŏ	ŏ	Õ
Volume extraneous water treated (gal.)	0	0	0	0	0	0
Volume extraneous water to POTW (gal.)	0	0	0	0	0	0
	W/F 25	OCTOBER	W/F 1 1	NOVEMBER	W/F a t	NOVEMBER
ITEM	WEEK		WEEK		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		82,000
Volume of aqueous phase to POTW (gal.)	0	0	23,362	23,362	26,248	49,610
Volume sludge treated (gal.)		112,976	•	•	49,120	196,480
Weight filter-cake off-site (tons) Volume filtrate produced (gal.)	0	0	0	0	0	0
volume trittate produced (gat.)	Unknown	Unknown	Unknown	88,610 by 29 Oct		140,999
Volume filtrate treated (gal.)	0	0	0	0 29 OCT	8,276	by 6 Nov 8,276
Volume filtrate to POTW (gal.)	Ö	Ö	ŏ	ő	0,270	0,2,0
Volume extraneous water present (gal.)					-	_
	0	0	12,623	12,623	0	0
Volume extraneous water treated (gal.) Volume extraneous water to POTW (gal.)	0	0 0 0	12,623 0 0	12,623 0 0	0 12,623 0	0 12,623

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.) Volume of aqueous phase to POTW (gal.)	0 32,390	82,000 82,000	0	82,000 82,000	0	82,000 82,000
Volume sludge treated (gal.)	41.752		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	Ō
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	Ō	12,623

	W/E 6 D	ECEMBER
ITEM	WEEK	TOTAL
Volume aqueous phase removed (gal.)	0	82,000
Volume aqueous phase treated (gal.)	Ō	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

TO:

Mr. Robert E. Ivy, ARCO

FROM:

Jonathan E. Brandes. GeoSyntec Consultants

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

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)	O (Completed)	30,095
CELA Geotextile (TS700) (ft <sup>2</sup> )	O (Completed)	1,037,218
CELA Geotextile (TS700) (m <sup>2</sup> )	0 (Completed)	96,358
CELA Geotextile (TS1000) (ft <sup>2</sup> )	O (Completed)	100,700

7 to 13 December 1992, Weekly Field Report 18 December 1992 Page 2

Item	Quantity This Week	Cumulative Quantity
CELA Geotextile (TS1000) (m²)	0 (Completed)	9,359
VLDPE in Channel (ft <sup>2</sup> )	0	83,845
VLDPE in Channel (m <sup>2</sup> )	0	7,792
Gundseal in CELA (ft <sup>2</sup> )	0	522,507
Gundseal in CELA (m²)	0	48,560
VLDPE in CELA (ft <sup>2</sup> )	0	535,276
VLDPE in CELA (m²)	0	49,747
Geocomposite Layer (ft <sup>2</sup> )	46,740	418,950
Geocomposite Layer (m²)	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 (28WPO4 addendum 1)
  - Gas vent stone source compliance tests (28QCO4 addendum 25)
  - Contractor QC management plan VLDPE testing lab (28QCO1 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 preformed 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

7 to 13 December 1992, Weekly Field Report 18 December 1992 Page 4

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

		OCTOBER	W/E 11	OCTOBER	W/E 18	OCTOBER
ITEM	WEEK	TOTAL	WEEK	TOTAL	WEEK	TOTAL
Volume agreeus phase persuad (gal )	40 E00	40 500	^	40 500	20 500	00 000
Volume aqueous phase removed (gal.)	49,500	49,500	0	,	•	•
Volume aqueous phase treated (gal.)	0	0	20,000		16,400	36,400
Volume of aqueous phase to POTW (gal.)	Ü	0	0	0	0	0
Volume sludge treated (gal.)	0	0	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	Ō	Ō	Ŏ
Volume extraneous water present (gal.)	0	0	0	Ö	Ŏ	Ö
Volume extraneous water treated (gal.)	Ō	0	Ō	Õ	ō	Ŏ
Volume extraneous water to POTW (gal.)	0	0	0	0	Ō	. 0
ITEM	W/E 25 WEEK	OCTOBER TOTAL	W/E 1 N WEEK	IOVEMBER TOTAL	W/E 8 N	IOVEMBER Total
	WEEK	TOTAL	WEEK	TOTAL	WEEK	TOTAL
Volume aqueous phase removed (gal.)	WEEK O	TOTAL 82,000	WEEK O	TOTAL 82,000	WEEK 0	TOTAL 82,000
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.)	WEEK 0 13,210	TOTAL	WEEK 0 26,954	TOTAL 82,000 76,564	WEEK 0 5,436	TOTAL 82,000 82,000
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.)	WEEK 0 13,210 0	TOTAL 82,000 49,610 0	WEEK 0 26,954 23,362	TOTAL 82,000 76,564 23,362	WEEK 0 5,436 26,248	TOTAL 82,000 82,000 49,610
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.)	WEEK 0 13,210 0	TOTAL 82,000 49,610	WEEK 0 26,954 23,362	TOTAL 82,000 76,564 23,362 147,360	WEEK 0 5,436	TOTAL 82,000 82,000 49,610
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.) Weight filter-cake off-site (tons)	WEEK 0 13,210 0 51,576 0	TOTAL 82,000 49,610 0 112,976 0	WEEK 0 26,954 23,362 34,384 0	TOTAL 82,000 76,564 23,362 147,360 0	%EEK 0 5,436 26,248 49,120 0	TOTAL 82,000 82,000 49,610 196,480 0
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.)	WEEK 0 13,210 0 51,576	TOTAL 82,000 49,610 0 112,976	WEEK 0 26,954 23,362 34,384	TOTAL 82,000 76,564 23,362 147,360 0 88,610	WEEK 0 5,436 26,248 49,120 0 Unknown	TOTAL 82,000 82,000 49,610 196,480 0 140,999
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.) Weight filter-cake off-site (tons) Volume filtrate produced (gal.)	WEEK 0 13,210 0 51,576 0	TOTAL 82,000 49,610 0 112,976 0	WEEK 0 26,954 23,362 34,384 0	TOTAL 82,000 76,564 23,362 147,360 0	WEEK 0 5,436 26,248 49,120 0 Unknown	TOTAL 82,000 82,000 49,610 196,480 0 140,999 by 6 Nov
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.) Weight filter-cake off-site (tons) Volume filtrate produced (gal.)  Volume filtrate treated (gal.)	WEEK 0 13,210 0 51,576 0 Unknown	TOTAL 82,000 49,610 0 112,976 Unknown	WEEK 0 26,954 23,362 34,384 0 Unknown	TOTAL 82,000 76,564 23,362 147,360 0 88,610 by 29 Oct	WEEK 0 5,436 26,248 49,120 0 Unknown	TOTAL 82,000 82,000 49,610 196,480 0 140,999
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.) Weight filter-cake off-site (tons) Volume filtrate produced (gal.) Volume filtrate treated (gal.) Volume filtrate to POTW (gal.)	WEEK 0 13,210 0 51,576 0 Unknown	TOTAL 82,000 49,610 0 112,976 Unknown	WEEK 0 26,954 23,362 34,384 0 Unknown	TOTAL 82,000 76,564 23,362 147,360 0 88,610 by 29 Oct 0	WEEK 0 5,436 26,248 49,120 0 Unknown	TOTAL 82,000 82,000 49,610 196,480 0 140,999 by 6 Nov
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.) Weight filter-cake off-site (tons) Volume filtrate produced (gal.)  Volume filtrate treated (gal.)	WEEK 0 13,210 0 51,576 0 Unknown	TOTAL 82,000 49,610 0 112,976 0 Unknown	WEEK 0 26,954 23,362 34,384 0 Unknown	TOTAL 82,000 76,564 23,362 147,360 0 88,610 by 29 Oct 0	WEEK 0 5,436 26,248 49,120 0 Unknown	TOTAL 82,000 82,000 49,610 196,480 0 140,999 by 6 Nov

SINCLAIR REFINERY, WELLSVILLE, NEW YORK UNIT 2, SEPARATOR REMEDIATION

ITEM	W/E 15 WEEK	NOVEMBER TOTAL		NOVEMBER TOTAL		NOVEMBER TOTAL
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.)	0	82,000 82,000		82,000	0	•
Volume sludge treated (gal.) Weight filter-cake off-site (tons)	41,752 0	238,232 0	38,06 <b>8</b> 0	0	5,912	82,000 282,212 0
Volume filtrate produced (gal.)		193,875 by 15 Nov	14,971	•	14,971	223,817
Volume filtrate treated (gal.) Volume filtrate to POTW (gal.)	8,276	8,276	19,795	8,276	5,656 0	59,178 8,276
Volume extraneous water present (gal.) Volume extraneous water treated (gal.)	0	0 12,623		0 12,623		,
Volume extraneous water to POTW (gal.)	12,623	12,623	0	12,623	0	12,623
	11/5 a b					
	W/Ł 6 D	ECEMBER	W/E 13	DECEMBER		
ITEM	WEEK	ECEMBER Total	W/E 13 WEEK	DECEMBER TOTAL		

TO:

Mr. Robert E. Ivy, ARCO

FROM:

Jonathan E. Brandes, GeoSyntec Consultants TEB

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 <sup>2</sup> )	0 (Completed)	1,037,218
CELA Geotextile (TS700) (m <sup>2</sup> )	O (Completed)	96,358
CELA Geotextile (TS1000) (ft <sup>2</sup> )	0 (Completed)	100,700
CELA Geotextile (TS1000) (m <sup>2</sup> )	0 (Completed)	9,359

Item	Quantity This Week	Cumulative Quantity
VLDPE in Channel (ft <sup>2</sup> )	0	83,845
VLDPE in Channel (m²)	0	7,792
Gundseal in CELA (ft²)	1,625	524,132
Gundseal in CELA (m <sup>2</sup> )	151	48,711
VLDPE in CELA (ft <sup>2</sup> )	1,375	536,651
VLDPE in CELA (m²)	128	49,875
Geocomposite Layer (ft <sup>2</sup> )	96,330	515,280
Geocomposite Layer (m²)	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.

14 to 20 December 1992, Weekly Field Report 5 January 1993
Page 3

- 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.
- Sevenson'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 (28QCO4 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.

14 to 20 December 1992, Weekly Field Report 5 January 1993
Page 4

- 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 preformed in level B. Sand removed from Separator by vacuum truck and placed in rolloff 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 ( WEEK	OCTOBER TOTAL	W/E 11 WEEK	OCTOBER TOTAL	W/E 18 WEEK	OCTOBER TOTAL
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.)	49,500 0 0	49,500 0 0	20,000 0	,	32,500 16,400 0	
Volume sludge treated (gal.) Weight filter-cake off-site (tons) Volume filtrate produced (gal.)	0 0 0	0 0 0	29,472 0 Unknown	29,472 0 Unknown	31,928 0 Unknown	61,400 0 Unknown
Volume filtrate treated (gal.) Volume filtrate to POTW (gal.)	0	0	0	0	0	0
Volume extraneous water present (gal.) Volume extraneous water treated (gal.) Volume extraneous water to POTW (gal.)	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
	W/E 25	OCTOBER	W/E 1 N	IOVEMBER	W/E 8 N	IOVEMBER
ITEM	WEEK	TOTAL	WEEK	TOTAL	WEEK	TOTAL
Volume aqueous phase removed (gal.)	0	82,000	0		0	,
Volume aqueous phase treated (gal.)	13,210					
Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.)	0 51,576	0 112, <b>97</b> 6	23,362 34,384	23,362 147,360	26,248	
Weight filter-cake off-site (tons)	0	0	01,301	0	49,120 0	196,480 0
Volume filtrate produced (gal.)	Unknown	Unknown	Unknown	88,610	•	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.) Volume extraneous water treated (gal.)	0	0	12,623	12,623	12 622	12 622
Volume extraneous water to POTW (gal.)	0	0	0	0	12,623 0	12,623

SINCLAIR REFINERY, WELLSVILLE, NEW YORK UNIT 2, SEPARATOR REMEDIATION

ITEM	W/E 15 WEEK	NOVEMBER Total		NOVEMBER TOTAL		NOVEMBER TOTAL
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.) Weight filter-cake off-site (tons) Volume filtrate produced (gal.)	0 0 32,390 41,752 0	82,000 82,000 82,000	0	82,000 82,000 82,000 276,300 0	0 0 0 5,912 0	82,000 82,000 82,000 282,212 0
	25,451 8,276 0 0 12,623	33,727 8,276 0 12,623	19,795 0 0 0 0		0 0	59,178 8,276 0 12,623 12,623
ITEM	W/E 6 E WEEK	DECEMBER Total	W/E 13 WEEK	DECEMBER TOTAL	W/E 20 WEEK	DECEMBER TOTAL
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.) Weight filter-cake off-site (tons) Volume filtrate produced (gal.) Volume filtrate treated (gal.) Volume filtrate to POTW (gal.) Volume extraneous water present (gal.)	0 0 0 0 0 2,579 53,023 50,902	82,000 82,000 282,212 0	0 0 0 0 0 7,445 0	82,000 82,000 282,212 0 233,841	0 0 0 0 0 50,902	82,000 82,000 82,000 282,212 0 233,841 163,103 112,201

TO:

Mr. Robert E. Ivy, ARCO

FROM:

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

KBIZ.

Jonathan E. Brandes, GeoSyntec Consultants

7E8

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)	O (Completed)	30,095
CELA Geotextile (TS700) (ft <sup>2</sup> )	0 (Completed)	1,042,618
CELA Geotextile (TS700) (m <sup>2</sup> )	O (Completed)	96,898
CELA Geotextile (TS1000) (ft <sup>2</sup> )	0	100,700
CELA Geotextile (TS1000) (m <sup>2</sup> )	0	9,359

21 to 27 December 1992, Weekly Field Report 7 January 1993 Page 2

Item	Quantity This Week	Cumulative Quantity
VLD <b>P</b> E in Channel (ft <sup>2</sup> )	0	83,845
VLDPE in Channel (m²)	0	7,792
Gundseal in CELA (ft <sup>2</sup> )	0	524,132
Gundseal in CELA (m²)	0	48,711
VLDPE in CELA (ft <sup>2</sup> )	0	536,651
VLDPE in CELA (m²)	0	49,875
Geocomposite Layer (ft <sup>2</sup> )	2,850	518,130
Geocomposite Layer (m²)	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.

21 to 27 December 1992, Weekly Field Report 7 January 1993 Page 3

- 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

•						
	W/E 4 0	CTOBER	W/E 11	OCTOBER	W/E 18	OCTOBER
ITEM	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	01,520	01,100
Volume filtrate produced (gal.)	0	Ō	Unknown	Unknown	Unknown	Unknown
Volume Siltuate Asserted (1 )	•	•		_		
Volume filtrate treated (gal.)	Ü	U	Ü	0	0	0
Volume filtrate to POTW (gal.)	Ü	Ü	Ü	0	0	0
Volume extraneous water present (gal.)	Ü	Ü	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 O WEEK	CTOBER TOTAL	W/E 1 N	OVEMBER TOTAL	W/E 8 NO WEEK	VEMBER TOTAL

•==	•	OCTOBER		NOVEMBER	W/E 8	NOVEMBER
ITEM	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		5,436	
Volume of aqueous phase to POTW (gal.)	0	. 0	23,362		26,248	
Volume sludge treated (gal.)	51,576	112,976	34,384	147,360	49,120	
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	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		NOVEMBER TOTAL
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.)	0	82,000 82,000	0	82,000 82,000	0	,
Volume of aqueous phase to POTW (gal.)		82,000		82,000	ŏ	. · ·
Volume sludge treated (gal.)	41,752		38,068		5,912	
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	•	0	8,276	0,000	8,276
Volume extraneous water present (gal.)	0	Ô	Ō	0	Ō	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 D WEEK	ECEMBER Total	W/E 13 WEEK	DECEMBER TOTAL	W/E 20 WEEK	DECEMBER TOTAL
Volume aqueous phase removed (gal.)		TOTAL 82,000				TOTAL
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.)	WEEK 0	TOTAL 82,000 82,000	WEEK 0 0	TOTAL 82,000 82,000	WEEK 0	TOTAL 82,000 82,000
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.)	WEEK 0 0 0	TOTAL 82,000 82,000 82,000	WEEK 0 0 0	TOTAL 82,000 82,000 82,000	WEEK 0 0 0	TOTAL 82,000 82,000 82,000
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.)	WEEK 0 0 0 0	TOTAL 82,000 82,000 82,000 282,212	WEEK 0 0 0 0 0 0	TOTAL 82,000 82,000 82,000 282,212	WEEK 0 0 0 0	TOTAL 82,000 82,000 82,000 282,212
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.) Weight filter-cake off-site (tons)	WEEK  0 0 0 0 0	TOTAL 82,000 82,000 82,000 282,212 0	WEEK 0 0 0 0 0 0 0 0	TOTAL 82,000 82,000 82,000 282,212 0	WEEK O O O O	TOTAL 82,000 82,000 82,000 282,212 0
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.) Weight filter-cake off-site (tons) Volume filtrate produced (gal.)	WEEK 0 0 0 0 0 0 2,579	TOTAL 82,000 82,000 82,000 282,212 0 226,396	WEEK 0 0 0 0 0 7,445	TOTAL 82,000 82,000 82,000 282,212 0 233,841	WEEK 0 0 0 0 0	TOTAL 82,000 82,000 82,000 282,212 0 233,841
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.) Weight filter-cake off-site (tons) Volume filtrate produced (gal.) Volume filtrate treated (gal.) Volume filtrate to POTW (gal.)	WEEK  0 0 0 0 0	TOTAL 82,000 82,000 82,000 282,212 0	WEEK 0 0 0 0 0 0 0 0	TOTAL 82,000 82,000 82,000 282,212 0 233,841	WEEK O O O O	TOTAL 82,000 82,000 82,000 282,212 0
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.) Weight filter-cake off-site (tons) Volume filtrate produced (gal.) Volume filtrate treated (gal.) Volume filtrate to POTW (gal.) Volume extraneous water present (gal.)	WEEK 0 0 0 0 0 2,579 53,023 50,902 0	TOTAL  82,000 82,000 82,000 282,212 0 226,396 112,201 59,178 0	WEEK 0 0 0 0 0 7,445 0 0	TOTAL  82,000 82,000 82,000 282,212 0 233,841 112,201 59,178 0	WEEK  0 0 0 0 0 0 50,902 53,023	TOTAL  82,000 82,000 82,000 282,212 0 233,841 163,103 112,201 0
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.) Weight filter-cake off-site (tons) Volume filtrate produced (gal.) Volume filtrate treated (gal.) Volume filtrate to POTW (gal.)	WEEK 0 0 0 0 0 2,579 53,023 50,902	TOTAL  82,000 82,000 82,000 282,212 0 226,396 112,201 59,178 0	WEEK 0 0 0 0 0 7,445 0	TOTAL  82,000 82,000 82,000 282,212 0 233,841 112,201 59,178	WEEK 0 0 0 0 0 0 0 50,902 53,023	TOTAL 82,000 82,000 82,000 282,212 0 233,841 163,103 112,201

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.)	Ô	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	Ō	JEB
Volume extraneous water treated (gal.)	0	12,623	JE 5
Volume extraneous water to POTW (gal.)	0	12,623	16/mar/93

TO:

Mr. Robert E. Ivy, ARCO

FROM:

Roger B. North, P.E., GeoSyntec Consultants KB

Jonathan E. Brandes, GeoSyntec Consultants

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

28 December 1992 to 3 January 1993, Weekly Field Report 8 January 1993
Page 2

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 Y

UNIT 2,	SEPARATOR	REMEDIATION
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	W/E 4 00	CTOBER	W/E 11	OCTOBER	W/E 18	OCTOBER
ITEM	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 produced (gal.)  Volume filtrate treated (gal.)	0	0	Unknown O	Unknown O	Unknown O	Unknown O
	0 0 0	0 0 0	Unknown 0 0	Unknown 0 0	Unknown 0 0	Unknown O O
Volume filtrate treated (gal.)	0 0 0	0 0 0	Unknown 0 0 0	Unknown 0 0 0	Unknown 0 0 0	Unknown 0 0 0
Volume filtrate treated (gal.) Volume filtrate to POTW (gal.)	0 0 0 0	0 0 0 0	Unknown 0 0 0 0	Unknown 0 0 0	Unknown 0 0 0 0	Unknown 0 0 0 0
Volume filtrate treated (gal.) Volume filtrate to POTW (gal.) Volume extraneous water present (gal.)	0 0 0 0 0	0 0 0 0 0	Unknown 0 0 0 0 0	Unknown 0 0 0 0 0	Unknown 0 0 0 0 0	Unknown 0 0 0 0 0

	W/E 25	OCTOBER	W/E 1	NOVEMBER	W/E 8	NOVEMBER
ITEM	WEEK	TOTAL	WEEK	TOTAL	WEEK	TOTAL
Volume aqueous phase removed (gal.)	0	82,000	0	<b>82,0</b> 00	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	
Volume sludge treated (gal.)	51,576	112,976	34,384	147,360	49,120	
Weight filter-cake off-site (tons)	0	0	0	0	0	O
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	12,623	12,623	0	0
Volume extraneous water treated (gal.)	0	0	0	Ō	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		NOVEMBER TOTAL
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.)	_	82,000 82,000 82,000	0 0 0	,	0 0 0	,
Volume sludge treated (gal.) Weight filter-cake off-site (tons)	41,752		38,068 0		5,912	282,212
Volume filtrate produced (gal.)	Unknown	193,875	14,971	•	0 14,971	0 223,817
Volume filtrate treated (gal.)	25,451	by 15 Nov 33,727	19,795	53,522	5,656	59,178
	8,276		13,733	8,276	0,000	8,276
Volume extraneous water present (gal.)	0	. 0	0	0	0	. 0
Volume extraneous water treated (gal.)	0	12,623	0	12,623		12,623
Volume extraneous water to POTW (gal.)	12,623	12,623	0	12,623	0	12,623
		ECEMBER		DECEMBER		DECEMBER
1TEM	W/E 6 E	ECEMBER TOTAL	W/E 13 WEEK	DECEMBER TOTAL	W/E 20 Week	DECEMBER TOTAL
Volume aqueous phase removed (gal.)	WEEK	TOTAL 82,000	WEEK	TOTAL 82,000	WEEK O	TOTAL 82,000
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.)	WEEK 0	TOTAL 82,000 82,000	WEEK 0 0	TOTAL 82,000 82,000	WEEK O O	TOTAL 82,000 82,000
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.)	WEEK 0	TOTAL 82,000 82,000 82,000	WEEK 0 0 0	TOTAL 82,000 82,000 82,000	WEEK 0 0 0	TOTAL 82,000 82,000 82,000
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.)	WEEK 0 0 0	TOTAL 82,000 82,000	WEEK 0 0 0 0 0 0	TOTAL 82,000 82,000 82,000 282,212	WEEK 0 0 0 0	TOTAL 82,000 82,000
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.)	WEEK 0	TOTAL 82,000 82,000 82,000 282,212 0	WEEK 0 0 0	TOTAL 82,000 82,000 82,000 282,212 0	WEEK 0 0 0	TOTAL 82,000 82,000 82,000 282,212 0
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.) Weight filter-cake off-site (tons) Volume filtrate produced (gal.) Volume filtrate treated (gal.)	WEEK 0 0 0 0 0 2,579 53,023	TOTAL 82,000 82,000 82,000 282,212 0 226,396 112,201	WEEK 0 0 0 0 0 0 0 0	TOTAL 82,000 82,000 82,000 282,212 0 233,841 112,201	WEEK 0 0 0 0 0 0 0 50,902	TOTAL 82,000 82,000 82,000 282,212 0
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.) Weight filter-cake off-site (tons) Volume filtrate produced (gal.) Volume filtrate treated (gal.) Volume filtrate to POTW (gal.)	WEEK 0 0 0 0 0 2,579 53,023 50,902	TOTAL 82,000 82,000 82,000 282,212 0 226,396 112,201 59,178	WEEK 0 0 0 0 0 7,445 0	TOTAL  82,000 82,000 82,000 282,212 0 233,841 112,201 59,178	WEEK 0 0 0 0 0 0 50,902 53,023	TOTAL 82,000 82,000 82,000 282,212 0 233,841 163,103 112,201
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.) Weight filter-cake off-site (tons) Volume filtrate produced (gal.) Volume filtrate treated (gal.) Volume filtrate to POTW (gal.) Volume extraneous water present (gal.)	WEEK 0 0 0 0 0 2,579 53,023 50,902 0	TOTAL  82,000 82,000 82,000 282,212 0 226,396 112,201 59,178 0	WEEK 0 0 0 0 0 7,445 0 0	TOTAL  82,000 82,000 82,000 282,212 0 233,841 112,201 59,178 0	WEEK 0 0 0 0 0 0 50,902 53,023	TOTAL  82,000 82,000 82,000 282,212 0 233,841 163,103 112,201 0
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.) Weight filter-cake off-site (tons) Volume filtrate produced (gal.) Volume filtrate treated (gal.) Volume filtrate to POTW (gal.)	WEEK 0 0 0 0 0 2,579 53,023 50,902	TOTAL 82,000 82,000 82,000 282,212 0 226,396 112,201 59,178 0	WEEK 0 0 0 0 0 7,445 0	TOTAL  82,000 82,000 82,000 282,212 0 233,841 112,201 59,178 0	WEEK 0 0 0 0 0 0 50,902 53,023	TOTAL 82,000 82,000 82,000 282,212 0 233,841 163,103 112,201

SINCLAIR REFINERY, WELLSVILLE, NEW YORK UNIT 2, SEPARATOR REMEDIATION

ITEM	W/E 27 WEEK	DECEMBER TOTAL	JANUARY Total	
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.) Weight filter-cake off-site (tons) Volume filtrate produced (gal.) Volume filtrate treated (gal.) Volume filtrate to POTW (gal.) Volume extraneous water present (gal.) Volume extraneous water treated (gal.) Volume extraneous water to POTW (gal.)	0 0 0 0 25,451 unknown 0 0	82,000 82,000 82,000 282,212 0 233,841 163,103 112,201 1 unknown 12,623 12,623 12,623 17,652 TEB	<del>112,201</del>	. 14-15

TO:

Mr. Robert E. Ivy, ARCO

FROM:

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

Jonathan E. Brandes, GeoSyntec Consultants

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

4 to 10 January 1993, Weekly Field Report 14 January 1993 Page 2

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., Pensocola, Florida, for KO51 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 offsite 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 ( Week	OCTOBER TOTAL	W/E 11 WEEK	OCTOBER TOTAL	W/E 18 WEEK	OCTOBER TOTAL
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.) Weight filter-cake off-site (tons) Volume filtrate produced (gal.)	49,500 0 0 0 0	49,500 0 0 0 0	0 20,000 0 29,472 0 Unknown			
Volume filtrate treated (gal.) Volume filtrate to POTW (gal.) Volume extraneous water present (gal.) Volume extraneous water treated (gal.) Volume extraneous water to POTW (gal.)	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0
ITEM	W/E 25 WEEK	OCTOBER TOTAL	W/E 1 N WEEK	OVEMBER TOTAL	W/E 8 I	NOVEMBER TOTAL
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.) Weight filter-cake off-site (tons) Volume filtrate produced (gal.)	13,210 0	82,000 49,610 0 112,976 0 Unknown	26,954 23,362	0 88,610	26,248 49,120 0 Unknown	82,000 49,610 196,480 0 140,999
Volume filtrate treated (gal.) Volume filtrate to POTW (gal.) Volume extraneous water present (gal.) Volume extraneous water treated (gal.) Volume extraneous water to POTW (gal.)	0 0 0 0	0 0 0 0	0 0 12,623 0 0	by 29 Oct 0 0 12,623 0	8,276 0 0 12,623	by 6 Nov 8,276 0 0 12,623

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.)	ŏ		ŏ		ŏ	
Volume of aqueous phase to POTW (gal.)	32,390	82,000	Ŏ		Õ	
Volume sludge treated (gal.)	41,752		38,068		5,912	
Weight filter-cake off-site (tons)	0	0	0	0	0,512	0
Volume filtrate produced (gal.)	Unknown		14,971	208,846	14,971	223,817
, ,,		by 15 Nov	,	,	- 1, - 1	420,017
Volume filtrate treated (gal.)	25,451	33,727	19,795	53,522	5,656	59,178
Volume filtrate to POTW (gal.)	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 D WEEK	ECEMBER 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.)	Ō	•	ŏ		Ŏ	
Volume of aqueous phase to POTW (gai.)	0		Ŏ		Ŏ	82,000
Volume sludge treated (gal.)	0	282,212	Ô	282,212	Ŏ	282,212
Weight filter-cake off-site (tons)	0	0	0	0	Ö	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

SINCLAIR REFINERY, WELLSVILLE, NEW YORK

## UNIT 2, SEPARATOR REMEDIATION

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

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

11 to 17 January 1993, Weekly Field Report 26 January 1993 Page 2

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.

11 to 17 January 1993, Weekly Field Report 26 January 1993 Page 3

- 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

SINCLAIR REFINERY, WELLSVILLE, NEW YORK

# UNIT 2, SEPARATOR REMEDIATION

ITEM	W/E 4 OC WEEK	CTOBER TOTAL	W/E 11 WEEK	OCTOBER TOTAL	W/E 18 WEEK	OCTOBER 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	Ó	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	Ō
Volume extraneous water present (gal.)	0	0	0	Ó	Ō	Õ
Volume extraneous water treated (gal.)	0	0	Ó	Ö	Ŏ	Ŏ
Volume extraneous water to POTW (gal.)	0	0	0	Ō	Ŏ	Ö

ITEM	W/E 25 WEEK	OCTOBER TOTAL	W/E 1   WEEK	NOVEMBER TOTAL	W/E 8 (	NOVEMBER TOTAL
• 1 m) 1	46.51	IOIAL	MLLN	IOIAL	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		
Volume sludge treated (gal.)	51,576	112,976	34,384	147,360	49,120	
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	
Volume filtrate to POTW (gal.)	0	0	0	Ö	0	0
Volume extraneous water present (gal.)	0	0	12,623	12,623	Ŏ	Ŏ
Volume extraneous water treated (gal.)	0	0	0	0	12,623	12,623
Volume extraneous water to POTW (gal.)	0	Ö	Ō	Ö	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.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.) Weight filter-cake off-site (tons) Volume filtrate produced (gal.)  Volume filtrate treated (gal.) Volume filtrate to POTW (gal.) Volume extraneous water present (gal.) Volume extraneous water treated (gal.)	0 32,390 41,752 0 Unknown 25,451 8,276 0	0 193,875 by 15 Nov 33,727 8,276 0	0 0 0 38,068 0 14,971 19,795 0	82,000 82,000 276,300 0 208,846 53,522 8,276	5,656 0 0	82,000 82,000 282,212 0 223,817 59,178 8,276 0
Volume extraneous water treated (gal.)	0 12,623	12,623 12,623	0	12,623 12,623	0	12,623 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.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.) Weight filter-cake off-site (tons) Volume filtrate produced (gal.) Volume filtrate treated (gal.) Volume filtrate to POTW (gal.)	0 0 0 0 0 2,579 53,023 50,902	82,000 82,000 282,212 0	0 0 0 0 0 7,445 0	82,000 282,212 0 233,841	0 0 0 0 0 0 50,902 53,023	82,000 282,212 0

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	Ó	163,103
Volume extraneous water present (gal.)	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

TO:

Mr. Robert E. Ivy, ARCO

FROM:

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

Jonathan E. Brandes, GeoSyntec Consultants

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 I 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

18 to 24 January 1993, Weekly Field Report 27 January 1993 Page 2

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 (28QCO4, Addendum 27);
  - Certificates of compliance, TS1000 geotextile (28QC04, Addendum 28);
  - Borrow source and compliance tests, riprap (28QCO4, Addendum 29); and
  - Borrow source and compliance tests, riprap (28QCO4, 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

18 to 24 January 1993, Weekly Field Report 27 January 1993
Page 3

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

SINCLAIR REFINERY, WELLSVILLE, NEW YORK UNIT 2, SEPARATOR REMEDIATION

		CTOBER	W/E 11	OCTOBER	W/E 18	OCTOBER
ITEM	MEEK	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	Ō	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	Ō	Ŏ	Ō
Volume extraneous water present (gal.)	0	0	0	0	Ó	Ō
Volume extraneous water treated (gal.)	0	0	0	0	0	0
Volume extraneous water to POTW (gal.)	0	0	0	0	0	0

	W/E 25	OCTOBER	W/E 1 (	NOVEMBER	W/E 8	NOVEMBER
ITEM	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	
Volume of aqueous phase to POTW (gal.)	0	. 0	23,362		26,248	
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	<b>8</b> 8,610	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	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.)	Ŏ	82,000	ŏ	82,000	Ŏ	82,000
Volume of aqueous phase to POTW (gal.)	_	82,000	ŏ		Ŏ	
Volume sludge treated (gal.)	41,752		38,068		5,912	282,212
Weight filter-cake off-site (tons)	0	0	00,000	0	0,312	202,212
Volume filtrate produced (gal.)	Unknown	193,875	14,971	208,846	14,971	223,817
(3210)		by 15 Nov	- 1, - / -	200,010	24,0/2	223,017
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	0,000	8,276
Volume extraneous water present (gal.)	0	0	Ŏ	0, _, 0	ŏ	0,2,0
Volume extraneous water treated (gal.)	Ō	12,623	Ō	12,623		12,623
Volume extraneous water to POTW (gal.)	12,623	12,623	Ō	12,623	Ŏ	12,623
ITEM	W/E 6 D	ECEMBER TOTAL	W/E 13 WEEK	DECEMBER TOTAL	W/E 20 WEEK	DECEMBER TOTAL
	WEEK	TOTAL	WEEK	TOTAL	WEEK	TOTAL
Volume aqueous phase removed (gal.)	WEEK 0	TOTAL 82,000	WEEK O	TOTAL 82,000	Ø Ø Ø Ø	TOTAL 82,000
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.)	WEEK	TOTAL 82,000 82,000	WEEK 0 0	TOTAL 82,000 82,000	WEEK 0 0	TOTAL 82,000 82,000
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.)	WEEK 0	TOTAL 82,000 82,000 82,000	WEEK 0 0 0	TOTAL 82,000 82,000 82,000	WEEK 0 0 0	TOTAL 82,000 82,000 82,000
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.)	WEEK 0	TOTAL 82,000 82,000	WEEK 0 0	TOTAL 82,000 82,000	WEEK 0 0 0 0	TOTAL 82,000 82,000
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.) Weight filter-cake off-site (tons)	WEEK 0 0 0 0 0 0 0 0	TOTAL 82,000 82,000 82,000 282,212 0	WEEK 0 0 0 0 0 0 0	TOTAL 82,000 82,000 82,000 282,212 0	WEEK 0 0 0 0	TOTAL 82,000 82,000 82,000 282,212 0
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.) Weight filter-cake off-site (tons) Volume filtrate produced (gal.)	WEEK 0 0 0 0 0 0	TOTAL 82,000 82,000 82,000 282,212 0	WEEK 0 0 0 0 0 7,445	TOTAL 82,000 82,000 82,000 282,212 0 233,841	WEEK 0 0 0 0 0	TOTAL 82,000 82,000 82,000 282,212 0 233,841
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.) Weight filter-cake off-site (tons) Volume filtrate produced (gal.) Volume filtrate treated (gal.)	WEEK 0 0 0 0 0 2,579 53,023	TOTAL 82,000 82,000 82,000 282,212 0 226,396 112,201	WEEK 0 0 0 0 0 7,445	TOTAL 82,000 82,000 82,000 282,212 0 233,841 112,201	WEEK 0 0 0 0 0 0 0 50,902	TOTAL 82,000 82,000 82,000 282,212 0 233,841 163,103
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.) Weight filter-cake off-site (tons) Volume filtrate produced (gal.) Volume filtrate treated (gal.) Volume filtrate to POTW (gal.)	WEEK 0 0 0 0 0 0 2,579	TOTAL 82,000 82,000 82,000 282,212 0 226,396	WEEK 0 0 0 0 0 7,445	TOTAL 82,000 82,000 82,000 282,212 0 233,841	WEEK 0 0 0 0 0	TOTAL 82,000 82,000 82,000 282,212 0 233,841
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.) Weight filter-cake off-site (tons) Volume filtrate produced (gal.) Volume filtrate treated (gal.)	WEEK 0 0 0 0 0 2,579 53,023 50,902	TOTAL  82,000 82,000 82,000 282,212 0 226,396 112,201 59,178 0	WEEK 0 0 0 0 0 7,445 0	TOTAL  82,000 82,000 82,000 282,212 0 233,841 112,201 59,178 0	WEEK 0 0 0 0 0 0 0 50,902 53,023	TOTAL 82,000 82,000 82,000 282,212 0 233,841 163,103 112,201 0
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.) Weight filter-cake off-site (tons) Volume filtrate produced (gal.) Volume filtrate treated (gal.) Volume filtrate to POTW (gal.) Volume extraneous water present (gal.)	WEEK  0 0 0 0 0 2,579 53,023 50,902 0	TOTAL  82,000 82,000 82,000 282,212 0 226,396 112,201 59,178	WEEK 0 0 0 0 0 7,445 0 0	TOTAL 82,000 82,000 82,000 282,212 0 233,841 112,201 59,178	WEEK 0 0 0 0 0 0 50,902 53,023 0	TOTAL 82,000 82,000 82,000 282,212 0 233,841 163,103

SINCLAIR REFINERY, WELLSVILLE, NEW YORK UNIT 2, SEPARATOR REMEDIATION

ITEM	W/E 27 Week	DECEMBER TOTAL		JANUARY Total	W/E 10 WEEK	JANUARY TOTAL
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.) Weight filter-cake off-site (tons) Volume filtrate produced (gal.) Volume filtrate treated (gal.) Volume filtrate to POTW (gal.) Volume extraneous water present (gal.) Volume extraneous water treated (gal.) Volume extraneous water to POTW (gal.)	0 0 25,451 unknown 0	82,000 282,212 0 233,841 163,103 137,652 unknown 12,623	0 0 163 0 16,897 25,451 unknown 0	163,103 unknown 12,623	0 0 128 0 34,005 0 unknown	82,000 82,000 82,000 282,212 291 233,841 214,005 163,103 unknown 12,623 12,623
ITEM	W/E 17 WEEK	JANUARY TOTAL	W/E 24 WEEK	JANUARY TOTAL		
Volume filtrate to POTW (gal.) Volume extraneous water present (gal.)	0 31 0 19,836 50,902 unknown	82,000 82,000 282,212 322 233,841 233,841 214,005	0 0 0 0 0 19,836 unknown 0	82,000 82,000 282,212 322 233,841 233,841 233,841		

TO:

Mr. Robert E. Ivy, ARCO

FROM:

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

Jonathan E. Brandes, GeoSyntec Consultants

TER

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.

25 to 31 January 1993, Weekly Field Report 6 February 1993 Page 2

- 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 Sevenson to 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.
- 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

## 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.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.) Weight filter-cake off-site (tons) Volume filtrate produced (gal.)	49,500 0 0 0 0	49,500 0 0 0 0	20,000 0 29,472 0 Unknown	20,000 0 29,472 0	16,400 0 31,928 0	36,400 0
Volume filtrate treated (gal.) Volume filtrate to POTW (gal.) Volume extraneous water present (gal.) Volume extraneous water treated (gal.) Volume extraneous water to POTW (gal.)	0	0	0	0	0	0
	0	0	0	0	0	0
	0	0	0	0	0	0
	0	0	0	0	0	0
ITEM	W/E 25	OCTOBER	W/E <sup>1</sup> 1 I	NOVEMBER	W/E 8 N	IOVEMBER
	WEEK	TOTAL	WEEK	TOTAL	WEEK	Total
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.) Weight filter-cake off-site (tons) Volume filtrate produced (gal.)  Volume filtrate treated (gal.) Volume extraneous water present (gal.) Volume extraneous water treated (gal.) Volume extraneous water to POTW (gal.)	0 13,210 0 51,576 0 Unknown 0 0 0	82,000 49,610 0 112,976 0 Unknown 0 0	26,954	82,000 76,564 23,362 147,360 0 88,610 by 29 Oct 0 12,623 0	26,248	82,000

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.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.)	0 0 32,390	82,000 82,000 82,000	0 0 0	82,000 82,000 82,000	0 0 0	,
Volume sludge treated (gal.) Weight filter-cake off-site (tons)	41,752 0		38,068 0		5,912 0	282,212
Volume filtrate produced (gal.)	Unknown	193,875 by 15 Nov	14,971	208,846	14,971	223,817
	25,451 8,276	33,727 8,276	19,795 0	53,522 8,276	5,656 0	59,178 8,276
Volume extraneous water present (gal.) Volume extraneous water treated (gal.)	0	0 12,623	0	0 12,623	0	0 12,623
Volume extraneous water to POTW (gal.)	12,623	12,623	0	12,623	0	12,623
		ECEMBER		DECEMBER	W/E 20	DECEMBER
ITEM	W/E 6 D Week	ECEMBER Total	W/E 13 WEEK	DECEMBER TOTAL	W/E 20 Week	DECEMBER TOTAL
Volume aqueous phase removed (gal.)	WEEK O	TOTAL <b>8</b> 2,000	WEEK 0	TOTAL 82,000	WEEK 0	TOTAL 82,000
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.)	WEEK O O	TOTAL 82,000 82,000 82,000	WEEK 0	TOTAL 82,000 82,000 82,000	WEEK 0 0 0	TOTAL 82,000 82,000 82,000
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.) Weight filter-cake off-site (tons)	WEEK 0 0 0 0 0 0 0 0 0	TOTAL 82,000 82,000 82,000 282,212 0	WEEK 0 0 0 0 0 0 0 0 0	TOTAL 82,000 82,000 82,000 282,212 0	WEEK 0 0 0 0 0	TOTAL 82,000 82,000 82,000 282,212 0
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.) Weight filter-cake off-site (tons) Volume filtrate produced (gal.) Volume filtrate treated (gal.)	WEEK 0 0 0 0 0 2,579 53,023	TOTAL 82,000 82,000 82,000 282,212 0 226,396 112,201	WEEK 0 0 0 0 0 0 7,445	TOTAL 82,000 82,000 82,000 282,212 0 233,841 112,201	WEEK 0 0 0 0 0 0 0 50,902	TOTAL 82,000 82,000 82,000 282,212 0 233,841 163,103
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.) Weight filter-cake off-site (tons) Volume filtrate produced (gal.)	WEEK 0 0 0 0 0 0 2,579	TOTAL 82,000 82,000 82,000 282,212 0 226,396	WEEK 0 0 0 0 0 0 7,445	TOTAL 82,000 82,000 82,000 282,212 0 233,841	WEEK 0 0 0 0 0	TOTAL 82,000 82,000 82,000 282,212 0 233,841

SINCLAIR REFINERY, WELLSVILLE, NEW YORK UNIT 2, SEPARATOR REMEDIATION

	W/E 27	DECEMBER	W/E 3 .	JANUARY	W/E 10	JANUARY
ITEM	WEEK	TOTAL	WEEK	TOTAL	WEEK	TOTAL
Valuma aquagus phasa wamayad (aa)	0	82,000	0	P2 000	0	92 000
Volume aqueous phase removed (gal.)	0	•		82,000		82,000
Volume aqueous phase treated (gal.)	Ξ	82,000	0	•	0	•
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	,
Volume filtrate treated (gal.)		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	
Volume extraneous water treated (gal.)	Ō		0	12,623	Ō	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
		TOTAL	WEEK	TOTAL	WEEK	TOTAL
Volume aqueous phase removed (gal.)	WEEK	TOTAL 82,000	WEEK O	TOTAL 82,000	WEEK 0	TOTAL 82,000
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.)	WEEK 0 0	TOTAL 82,000 82,000	WEEK 0 0	TOTAL 82,000 82,000	WEEK O O	TOTAL 82,000 82,000
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.)	WEEK 0	TOTAL 82,000 82,000 82,000	WEEK 0 0 0	TOTAL 82,000 82,000 82,000	WEEK O O O	TOTAL 82,000 82,000 82,000
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.)	WEEK 0 0 0 0	TOTAL 82,000 82,000 82,000 282,212	WEEK 0 0 0 0	TOTAL 82,000 82,000 82,000 282,212	WEEK 0 0 0 0	TOTAL 82,000 82,000 82,000 282,212
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.) Weight filter-cake off-site (tons)	WEEK 0 0 0 0 0 31	TOTAL 82,000 82,000 82,000 282,212 322	WEEK 0 0 0 0	TOTAL 82,000 82,000 82,000 282,212 322	WEEK 0 0 0 0	TOTAL 82,000 82,000 82,000 282,212 322
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.) Weight filter-cake off-site (tons) Volume filtrate produced (gal.)	WEEK 0 0 0 0 31 0	TOTAL 82,000 82,000 82,000 282,212 322 233,841	WEEK 0 0 0 0 0	TOTAL 82,000 82,000 82,000 282,212 322 233,841	WEEK 0 0 0 0 0	TOTAL 82,000 82,000 82,000 282,212 322 233,841
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.) Weight filter-cake off-site (tons) Volume filtrate produced (gal.) Volume filtrate treated (gal.)	WEEK 0 0 0 0 31 0 19,836	TOTAL 82,000 82,000 82,000 282,212 322 233,841 233,841	WEEK 0 0 0 0 0 0	TOTAL 82,000 82,000 82,000 282,212 322 233,841 233,841	WEEK 0 0 0 0 0 0	TOTAL 82,000 82,000 82,000 282,212 322 233,841 233,841
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.) Weight filter-cake off-site (tons) Volume filtrate produced (gal.) Volume filtrate treated (gal.) Volume filtrate to POTW (gal.)	WEEK 0 0 0 0 31 0 19,836 50,902	TOTAL  82,000 82,000 82,000 282,212 322 233,841 233,841 214,005	WEEK 0 0 0 0 0 0 0 0	TOTAL 82,000 82,000 82,000 282,212 322 233,841 233,841 233,841	WE EK 0 0 0 0 0 0	TOTAL  82,000 82,000 82,000 282,212 322 233,841 233,841 233,841
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.) Weight filter-cake off-site (tons) Volume filtrate produced (gal.) Volume filtrate treated (gal.) Volume filtrate to POTW (gal.) Volume extraneous water present (gal.)	WEEK 0 0 0 31 0 19,836 50,902 unknown	TOTAL  82,000 82,000 82,000 282,212 322 233,841 233,841 214,005 unknown	WEEK 0 0 0 0 0 0 0 19,836 unknown	TOTAL 82,000 82,000 82,000 282,212 322 233,841 233,841 unknown	WEEK  0 0 0 0 0 0 0 unknown	TOTAL  82,000 82,000 82,000 282,212 322 233,841 233,841 233,841 27,076
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.) Weight filter-cake off-site (tons) Volume filtrate produced (gal.) Volume filtrate treated (gal.) Volume filtrate to POTW (gal.) Volume extraneous water present (gal.) Volume extraneous water treated (gal.)	WEEK 0 0 0 31 0 19,836 50,902 unknown 5,615	TOTAL  82,000 82,000 82,000 282,212 322 233,841 233,841 214,005 unknown 18,238	WEEK 0 0 0 0 0 0 0 19,836 unknown	TOTAL  82,000 82,000 82,000 282,212 322 233,841 233,841 233,841 unknown 18,238	WEEK  0 0 0 0 0 0 0 unknown 8,838	TOTAL  82,000 82,000 82,000 282,212 322 233,841 233,841 27,076 27,076
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.) Weight filter-cake off-site (tons) Volume filtrate produced (gal.) Volume filtrate treated (gal.) Volume filtrate to POTW (gal.) Volume extraneous water present (gal.)	WEEK 0 0 0 31 0 19,836 50,902 unknown	TOTAL  82,000 82,000 82,000 282,212 322 233,841 233,841 214,005 unknown	WEEK 0 0 0 0 0 0 0 19,836 unknown	TOTAL 82,000 82,000 82,000 282,212 322 233,841 233,841 unknown	WEEK  0 0 0 0 0 0 0 unknown	TOTAL  82,000 82,000 82,000 282,212 322 233,841 233,841 233,841 27,076

TO:

Mr. Robert E. Ivy, ARCO

FROM:

Roger B. North, P.E., GeoSyntec Consultants ZBA Jonathan E. Brandes, GeoSyntec Consultants ZEB

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

Sevenson 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

TO:

Mr. Robert E. Ivy, ARCO

FROM:

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

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.

GQ3201/WE0068

1 to 7 February 1993, Weekly Field Report 4 March 1993
Page 2

- 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 KO51 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

TO: Mr. Robert E. Ivy, ARCO

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

Jonathan E. Brandes, GeoSyntec Consultants JEB

کھے

**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 I

- 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

GQ3201/WE0071

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 KO51 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

TO: Mr. Robert E. Ivy, ARCO

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

**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 Komatzu bulldozer and tool trailer on 15 February.
- Sevenson completed demobilization on 16 February except for

GQ3201/WE0072

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

TO:

Mr. Robert E. Ivy, ARCO

FROM:

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

Jonathan E. Brandes, GeoSyntec Consultants

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 I 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

TO:

Mr. Robert E. Ivy, ARCO

FROM:

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

Jonathan E. Brandes, GeoSyntec Consultants

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

TO:

Mr. Robert E. Ivv, ARCO

FROM:

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

Jonathan E. Brandes, GeoSyntec Consultants

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

TO:

Mr. Robert E. Ivy, ARCO

FROM:

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

Jonathan E. Brandes, GeoSyntec Consultants

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.

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 <sup>2</sup> )	0 (Completed)	1,042,618
CELA Geotextile (TS700) (m <sup>2</sup> )	0 (Completed)	96,898
CELA Geotextile (TS1000) (ft²)	0	100,700
CELA Geotextile (TS1000) (m <sup>2</sup> )	0	9,359
Secondary VLDPE (ft²)	0 (Completed)	83,845
Secondary VLDPE (m <sup>2</sup> )	0 (Completed)	7,792
Secondary Gundseal (ft <sup>2</sup> )	0 (Completed)	39,566
Secondary Gundseal (m <sup>2</sup> )	0 (Completed)	3,677

Item	Quantity This Week	Cumulative Quantity
Primary Gundseal (ft <sup>2</sup> )	9,000	539,132
Primary Gundseal (m²)	836	50,105
Primary VLDPE (ft <sup>2</sup> )	12,320	557,771
Primary VLDPE (m²)	1,145	51,837
Geocomposite Layer (ft²)	6.600	524,730
Geocomposite Layer (m²)	613	48,767
Common Fill (tons)	702	46,405

### **UNIT 2, SEPARATOR**

• Lynch Paving and Contracting Inc., as a subcontractor to Sevenson, 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

TO:

Mr. Robert E. Ivy, ARCO

FROM:

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

Jonathan E. Brandes, GeoSyntec Consultants

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 <sup>2</sup> )	0 (Completed)	1,042,618
CELA Geotextile (TS700) (m <sup>2</sup> )	0 (Completed)	96,898
CELA Geotextile (TS1000) (ft²)	0	100,700
CELA Geotextile (TS1000) (m <sup>2</sup> )	0	9,359
Secondary Gundseal (ft <sup>2</sup> )	0 (Completed)	39,566
Secondary Gundseal (m²)	0 (Completed)	3,677
Secondary VLDPE (ft <sup>2</sup> )	0 (Completed)	83,845
Secondary VLDPE (m²)	0 (Completed)	7,792
Primary Gundseal (ft <sup>2</sup> )	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 (m²)	558	49.269
Primary VLDPE (ft²)	8,800	545,451
Primary VLDPE (m²)	818	50,692
Geocomposite Layer (ft²)	0	518,130
Geocomposite Layer (m²)	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

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

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

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.

24 to 30 May 1993, Weekly Field Report 2 June 1993 Page 3

Item	Quantity This Week	Cumulative Quantity
Gas Vent Stone (tons)	0 (Completed)	30,095
CELA Geotextile (TS700) (ft²)	0 (Completed)	1,042,618
CELA Geotextile (TS700) (m <sup>2</sup> )	0 (Completed)	96,898
CELA Geotextile (TS1000) (ft²)	0 (Completed)	100,700
CELA Geotextile (TS1000) (m <sup>2</sup> )	0 (Completed)	9,359
Channel Geotextile (TS1000) (ft²)	15,000	15,000
Channel Geotextile(TS1000) (m <sup>2</sup> )	1,394	1,394
Secondary VLDPE (ft <sup>2</sup> )	0 (Completed)	83,845
Secondary VLDPE (m²)	0 (Completed)	7,792
Secondary Gundseal (ft²)	0 (Completed)	39,566
Secondary Gundseal (m <sup>2</sup> )	0 (Completed)	3,677
Primary Gundseal (ft²)	24,000 (Completed)	563,132
Primary Gundseal (m²)	2,230 (Completed)	52,336
Primary VLDPE (ft²)	18,998 (Completed)	576,769
Primary VLDPE (m²)	1,766 (Completed)	53,603
Geocomposite Layer (ft²)	10,000 (Completed)	534,730
Geocomposite Layer (m²)	929 (Completed)	49,696
Bedding Stone (tons)	541	541
Common Fill (tons)	1,620	48,025

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 Sevenson, 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. Chi

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 JEK

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 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

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.

31 May to 6 June 1993, Weekly Field Report 9 June 1993 Page 3

Item	Quantity This Week	Cumulative Quantity	
Gas Vent Stone (tons)	0 (Completed)	30,095	
CELA Geotextile (TS700) (ft²)	0 (Completed)	1,042,618	
CELA Geotextile (TS700) (m <sup>2</sup> )	0 (Completed)	96,898	
CELA Geotextile (TS1000) (ft²)	0 (Completed)	100,700	
CELA Geotextile (TS1000) (m <sup>2</sup> )	0 (Completed)	9,359	
Channel Geotextile (TS1000) (ft²)	69,000	84,000	
Channel Geotextile(TS1000) (m <sup>2</sup> )	6,413	7,807	
Secondary VLDPE (ft²)	0 (Completed)	83,845	
Secondary VLDPE (m²)	0 (Completed)	7,792	
Secondary Gundseal (ft <sup>2</sup> )	0 (Completed)	39,566	
Secondary Gundseal (m²)	0 (Completed)	3,677	
Primary Gundseal (ft²)	24,000 (Completed)	563,132	
Primary Gundseal (m <sup>2</sup> )	2,230 (Completed)	52,336	
Primary VLDPE (ft²)	18,998 (Completed)	576,769	
Primary VLDPE (m²)	1,766 (Completed)	53,603	
Geocomposite Layer (ft <sup>2</sup> )	10,000 (Completed)	534,730	
Geocomposite Layer (m²)	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 Page 4

# **UNIT 2, SEPARATOR**

• Lynch Paving and Contracting Inc., as a subcontractor to Sevenson, 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

#### 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.

- 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.

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) (ft²)	0 (Completed)	1,042,618
CELA Geotextile (TS700) (m <sup>2</sup> )	0 (Completed)	96,898
CELA Geotextile (TS1000) (ft <sup>2</sup> )	0 (Completed)	100,700
CELA Geotextile (TS1000) (m <sup>2</sup> )	0 (Completed)	9,359
Channel Geotextile (TS1000) (ft²)	9,000	93,000
Channel Geotextile(TS1000) (m <sup>2</sup> )	836	8,643
Secondary VLDPE (ft²)	0 (Completed)	83,845
Secondary VLDPE (m <sup>2</sup> )	0 (Completed)	7,792
Secondary Gundseal (ft <sup>2</sup> )	0 (Completed)	39,566
Secondary Gundseal (m <sup>2</sup> )	0 (Completed)	3,677
Primary Gundseal (ft²)	24,000 (Completed)	563,132
Primary Gundseal (m²)	2,230 (Completed)	52,336
Primary VLDPE (ft²)	18,998 (Completed)	576,769
Primary VLDPE (m²)	1,766 (Completed)	53,603
Geocomposite Layer (ft²)	10,000 (Completed)	534,730
Geocomposite Layer (m²)	929 (Completed)	49,696
Bedding Stone (tons)	272	1,451
Topsoil (tons)	6,387	9,598
Common Fill (tons)	0 (Complete)	52,491

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

# **APPENDIX C**

# GEOSYNTEC CONSULTANTS' MONTHLY FIELD REPORTS

# MEMORANDUM

TO:

Mr. Robert E. Ivy, ARCO

FROM:

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

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

حيقي ا

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 <sup>2</sup> )	54,772	54,772				
Area (m²)	5,092	5,092				
Volume (yd³)	4,783	4,783				
Volume (m³)	3,660	3,660				

July 1992 Monthly Field Report 6 August 1992 Page 2

- 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 yd<sup>3</sup> 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

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 Trench completely filled with soil-bentonite constructed. 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 <b>.2</b>	91
Area (ft²)	28,678	83,450
Area (m²)	2,661	7,753
Volume (yd³)	2,545	7,328
Volume (m³)	1,943	5,603

August 1992 Monthly Field Report 2 September 1992 Page 2

- 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 yd<sup>3</sup> 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.
- · Sevenson 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

and the state of

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 yd<sup>3</sup> 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 ft<sup>2</sup> (3527 m<sup>2</sup>) 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.  $60,900~\rm{ft}^2~(5660~\rm{m}^2)$  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

T0:

Mr. Robert E. Ivy, ARCO

FROM:

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

RED.

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 <sup>2</sup> )	8,550	91,690
Area (m²)	794	8,518
Volume (yd³)	753	8,055
Volume (m³)	576	6,158

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- 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 yd<sup>3</sup> 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 <sup>2</sup> )	649,899
Geotextile (TS <b>700</b> ) (m²)	60.378
VLDPE in Channel (ft <sup>2</sup> )	66,088
VLDPE in Channel (m²)	6,142
Gundseal in CELA (ft <sup>2</sup> )	78,042
Gundseal in CELA (m²)	7,250
VLDPE in CELA (ft <sup>2</sup> )	83,754
VLDPE in CELA (m²)	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

October 1992 Monthly Field Report 7 November 1992 Page 4

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

GC3201/WE0043

October 1992 Monthly Field Report 7 November 1992 Page 5

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

	W/E 4 00	CTOBER	W/E 11	OCTOBER	W/E 18	OCTOBER	
ITEM	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	

	W/E 25	OCTOBER	W/E 1 1	NOVEMBER
ITEM	WEEK	TOTAL	WEEK	TOTAL
Volume aqueous phase removed (gal.)	0	82,000	o	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

رهم

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 soilbentonite backfill from top slurry wall at Station 0+00 on 23 November. Results indicated hydraulic conductivities less than  $1 \pm 10^{-7}$  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<sup>-5</sup> 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 <sup>2</sup> )	385,600	1,037,218
CELA Geotextile (TS700) (m²)	35,823	96,358
CELA Geotextile (TS1000) (ft <sup>2</sup> )	18,200	18,200
CELA Geotextile (TS1000) (m²)	1,691	1,691
VLDPE in Channel (ft <sup>2</sup> )	11,065	83,845
VLDPE in Channel (m²)	1,028	7,792

Item	November	Cumulative Quantity		
Gundseal in CELA (ft <sup>2</sup> )	249,905	418,707		
Gundseal in CELA (m²)	23,217	38,899		
VLDPE in CELA (ft <sup>2</sup> )	245,256	430,914		
VLDPE in CELA (m <sup>2</sup> )	22,785	40,033		
Geocomposite Layer (ft²)	279,870	279,870		
Geocomposite Layer (m²)	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.

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- 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 Carrolton, 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 débris in Separator continued throughout month.
- Hyroblasting unit mobilized to site on 10 November; trial hydroblasting of separator walls performed on 11 November. Sand

November 1992 Monthly Field Report 5 December 1992 Page 5

> 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) Sludge covered rocks and small debris sand blasting waste. placed in 1 roll-off and sand blasting waste placed in 1 rolloff.
- · 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

David A. Christensen, P.E., ARCO Copy to:

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

6Linear ft)         (sq. ft)         (Linear ft)         (sq. ft)         (linear ft)         (sq. ft) <th>DATE</th> <th></th> <th colspan="4">GEOTEXTILE TS700</th> <th>OTEXTIL</th> <th>E T\$1000</th> <th></th> <th colspan="4">CHANNEL VLDPE</th> <th>CHANNEL</th> <th>GUNSEAL</th> <th colspan="3">CELA GUNDSEAL</th>	DATE		GEOTEXTILE TS700				OTEXTIL	E T\$1000		CHANNEL VLDPE				CHANNEL	GUNSEAL	CELA GUNDSEAL		
Day   Total   Day   Da		(Linear ft)		(sq	լ. ft)	(Linea	r ft)	(sq.	ft)	(Line	ear ft)	(sq	. ft)	(sq	, ft)	(sq.	ft)	
09-Sep 0 0 0 0 0 145 145 3,190 3,190 1,428 1,428 0 10-Sep 0 0 0 0 0 0 128 273 2,816 6,006 1,428 0 11-Sep 0 0 0 0 0 0 273 6,006 1,428 0 12-Sep 0 0 0 0 0 0 416 689 9,152 15,158 1,428 0 13-Sep 0 0 0 0 0 0 689 15,158 1,428 0 14-Sep 0 0 0 0 0 0 689 15,158 1,428 0 14-Sep 0 0 0 0 0 0 689 15,158 1,428 0 15-Sep 0 0 0 0 0 0 224 1,009 4,928 22,198 1,920 3,348 0 16-Sep 0 0 0 0 0 0 224 1,009 4,928 22,198 1,920 3,348 0 16-Sep 0 0 0 0 0 0 119 1,128 2,982 25,180 900 4,248 0 17-Sep 0 0 0 0 0 0 119 1,128 2,982 25,180 900 4,248 0 18-Sep 0 0 0 0 0 0 119 1,128 2,982 25,180 900 4,248 0 19-Sep 0 0 0 0 0 0 1,370 30,630 5,832 0 20-Sep 0 0 0 0 0 0 1,370 30,630 5,832 0 21-Sep 0 0 0 0 0 0 1,370 30,630 5,832 0 22-Sep 0 0 0 0 0 0 1,370 30,630 5,832 0 23-Sep 0 0 18,000 0 0 0 1,370 30,630 5,832 0 24-Sep 0 18,000 0 0 0 1,370 30,630 5,832 0 25-Sep 0 18,000 0 0 0 1,370 30,630 5,832 0 26-Sep 0 18,000 0 0 0 1,370 30,630 5,832 0 26-Sep 0 18,000 0 0 0 1,370 30,630 5,832 0 26-Sep 0 18,000 0 0 0 1,370 30,630 5,832 0 26-Sep 0 18,000 0 0 0 1,370 30,630 5,832 0 26-Sep 0 18,000 0 0 0 1,370 30,630 5,832 0 26-Sep 3,900 3,900 38,700 0 0 1,370 30,630 5,832 0 26-Sep 3,900 3,900 38,700 0 0 1,370 30,630 5,832 0 26-Sep 3,900 3,900 38,700 0 0 0 1,370 30,630 5,832 0 26-Sep 3,900 3,900 38,700 0 0 0 1,370 30,630 5,832 0 26-Sep 3,900 3,900 38,700 0 0 0 1,370 30,630 5,832 0 26-Sep 3,900 3,900 38,700 0 0 0 1,370 30,630 5,832 0 26-Sep 3,900 3,900 38,700 0 0 0 1,370 30,630 5,832 0 26-Sep 3,900 3,900 38,700 0 0 0 1,380 35,250 5,832 0 26-Sep 3,900 3,900 38,700 0 0 0 1,580 35,250 5,832 0 26-Sep 3,900 3,900 136,219 0 0 0 1,580 35,250 5,832 0 26-Sep 3,900 3,900 136,219 0 0 0 1,580 35,250 5,832 0 26-Sep 3,900 3,900 136,219 0 0 0 1,580 35,250 5,832 0 26-Sep 3,900 3,900 136,219 0 0 0 1,580 35,250 5,832 0 26-Sep 3,900 3,900 136,219 0 0 0 1,930 42,950 9,793 0 26-Oct 1,0740 10,801 18,819 0 0 0 1,930 42,950 9,793 0 26-Oct 2,280 14,719 43,485 227,904 0 0 0 1,930 42,950 9,793 0		Day	Total	Day	Total	Day	Total	Day	Total	Day	Total	Day	Total			Day	Total	
10-Sep 0 0 0 0 0 0 128 273 2,816 6,006 1,428 0 11-Sep 0 0 0 0 0 273 6,006 1,428 0 12-Sep 0 0 0 0 0 0 416 689 9,152 15,158 1,428 0 13-Sep 0 0 0 0 0 0 689 15,158 1,428 0 15-Sep 0 0 0 0 0 0 689 15,158 1,428 0 15-Sep 0 0 0 0 0 0 0 689 15,158 1,428 0 15-Sep 0 0 0 0 0 0 0 0 224 1,009 4,928 22,198 1,920 3,348 0 16-Sep 0 0 0 0 0 0 0 199 1,009 22,198 1,920 3,348 0 16-Sep 0 0 0 0 0 0 119 1,128 2,982 25,180 900 4,248 0 18-Sep 0 0 0 0 0 0 199 1,370 5,630 1,584 5,832 0 18-Sep 0 0 0 0 0 0 0 1,370 30,630 5,832 0 20-Sep 0 0 0 0 0 0 0 1,370 30,630 5,832 0 21-Sep 0 0 0 0 0 0 0 1,370 30,630 5,832 0 22-Sep 0 0 0 0 0 0 0 1,370 30,630 5,832 0 22-Sep 0 0 18,000 0 0 0 1,370 30,630 5,832 0 22-Sep 0 0 18,000 0 0 0 1,370 30,630 5,832 0 22-Sep 0 0 18,000 0 0 0 1,370 30,630 5,832 0 22-Sep 0 0 18,000 0 0 0 1,370 30,630 5,832 0 22-Sep 0 0 18,000 0 0 0 1,370 30,630 5,832 0 22-Sep 0 0 18,000 0 0 0 1,370 30,630 5,832 0 22-Sep 0 0 18,000 0 0 0 1,370 30,630 5,832 0 22-Sep 0 0 18,000 0 0 0 1,370 30,630 5,832 0 22-Sep 0 0 18,000 0 0 0 1,370 30,630 5,832 0 22-Sep 0 0 18,000 0 0 0 1,370 30,630 5,832 0 22-Sep 0 0 18,000 0 0 0 1,370 30,630 5,832 0 22-Sep 0 0 18,000 0 0 0 1,370 30,630 5,832 0 0 22-Sep 0 0 18,000 0 0 0 1,370 30,630 5,832 0 0 22-Sep 0 0 18,000 0 0 0 1,370 30,630 5,832 0 0 22-Sep 0 0 18,000 0 0 0 1,370 30,630 5,832 0 0 22-Sep 0 0 18,000 0 0 0 1,370 30,630 5,832 0 0 22-Sep 0 0 18,000 0 0 0 1,370 30,630 5,832 0 0 22-Sep 0 0 20,700 38,700 0 0 0 1,370 30,630 5,832 0 0 22-Sep 3,900 3,900 38,700 0 0 0 1,380 42,950 5,832 0 0 30-Sep 3,900 3,900 38,700 0 0 0 1,580 35,250 5,832 0 0 30-Sep 3,900 3,900 38,700 0 0 0 1,580 35,250 5,832 0 0 30-Sep 3,900 3,900 38,700 0 0 0 1,580 35,250 5,832 0 0 30-Sep 3,900 3,900 38,700 0 0 0 1,580 35,250 5,832 0 0 30-Sep 3,900 3,900 38,700 0 0 0 1,580 35,250 5,832 0 0 30-Sep 3,900 3,900 38,700 0 0 0 1,580 35,250 5,832 0 0 30-Sep 3,900 3,900 38,700 0 0 0 1,580 35,250 5,832 0 0 30-Sep 3,900 3,900 38,700 0 0 0 1,580 35,250 5,832 0 0 30-Sep 3,900 3,900 38,700 0 0 0 1,580 35,250 5,832 0 0 30-Sep 3,900 3,900 38,700 0 0 0 1,58	08 - Sep		0		0		0		0		0		0		0		0	
11·Sep 0 0 0 0 0 0 273 6,006 1,428 0 12·Sep 0 0 0 0 0 0 416 689 9,152 15,158 1,428 0 13·Sep 0 0 0 0 0 0 689 15,158 1,428 0 14·Sep 0 0 0 0 0 0 689 2,152 17,770 1,428 0 15·Sep 0 0 0 0 0 0 0 689 2,112 17,270 1,428 0 15·Sep 0 0 0 0 0 0 0 4,009 2,198 1,920 3,348 0 16·Sep 0 0 0 0 0 0 1,009 2,198 3,348 0 16·Sep 0 0 0 0 0 0 119 1,128 2,982 2,198 1,920 3,348 0 17·Sep 0 0 0 0 0 0 119 1,128 2,982 2,198 5,348 0 18·Sep 0 0 0 0 0 0 119 1,128 2,982 2,198 5,332 0 19·Sep 0 0 0 0 0 0 1,370 30,630 5,832 0 20·Sep 0 0 0 0 0 0 1,370 30,630 5,832 0 21·Sep 0 0 0 0 0 0 1,370 30,630 5,832 0 22·Sep 0 0 0 0 0 0 1,370 30,630 5,832 0 22·Sep 0 0 0 0 0 0 1,370 30,630 5,832 0 23·Sep 0 18,000 0 0 0 1,370 30,630 5,832 0 24·Sep 0 18,000 0 0 1,370 30,630 5,832 0 25·Sep 0 18,000 0 0 0 1,370 30,630 5,832 0 26·Sep 0 18,000 0 0 0 1,370 30,630 5,832 0 26·Sep 0 18,000 0 0 0 1,370 30,630 5,832 0 26·Sep 0 18,000 0 0 0 1,370 30,630 5,832 0 27·Sep 0 18,000 0 0 0 1,370 30,630 5,832 0 28·Sep 0 18,000 0 0 0 1,370 30,630 5,832 0 26·Sep 0 3,900 3,900 38,700 0 0 1,370 30,630 5,832 0 27·Sep 3,900 3,900 38,700 0 0 1,370 30,630 5,832 0 29·Sep 3,900 3,900 38,700 0 0 1,370 30,630 5,832 0 20·Sep 3,900 3,900 38,700 0 0 1,370 30,630 5,832 0 20·Sep 3,900 3,900 38,700 0 0 1,370 30,630 5,832 0 20·Sep 3,900 3,900 38,700 0 0 1,370 30,630 5,832 0 20·Sep 3,900 3,900 38,700 0 0 1,370 30,630 5,832 0 20·Sep 3,900 3,900 38,700 0 0 1,370 30,630 5,832 0 20·Sep 3,900 3,900 38,700 0 0 1,380 35,250 5,832 0 20·Sep 3,900 3,900 18,000 177,419 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 03·Set 720 10,740 10,800 168,219 0 0 1,930 42,950 9,793 0	09-Sep		0		0		0		0	145	145	3,190	3,190	1,428	1,428		0	
12-Sep 0 0 0 0 0 0 416 689 9,152 15,158 1,428 0 13-Sep 0 0 0 0 0 689 15,158 1,428 0 14-Sep 0 0 0 0 0 0 689 15,158 1,428 0 14-Sep 0 0 0 0 0 0 0 242 1,009 4,928 22,198 1,920 3,348 0 15-Sep 0 0 0 0 0 0 1,009 224 1,009 4,928 22,198 3,348 0 16-Sep 0 0 0 0 0 0 119 1,128 2,982 25,180 900 4,248 0 18-Sep 0 0 0 0 0 0 199 1,128 2,982 25,180 900 4,248 0 18-Sep 0 0 0 0 0 0 242 1,370 5,450 30,630 1,584 5,832 0 19-Sep 0 0 0 0 0 0 1,370 30,630 5,832 0 20-Sep 0 0 0 0 0 0 1,370 30,630 5,832 0 21-Sep 0 0 0 0 0 0 1,370 30,630 5,832 0 22-Sep 0 0 0 0 0 0 1,370 30,630 5,832 0 22-Sep 0 0 0 0 0 0 1,370 30,630 5,832 0 22-Sep 0 18,000 0 0 0 1,370 30,630 5,832 0 22-Sep 0 18,000 0 0 0 1,370 30,630 5,832 0 22-Sep 0 18,000 0 0 0 1,370 30,630 5,832 0 22-Sep 0 18,000 0 0 0 1,370 30,630 5,832 0 22-Sep 0 18,000 0 0 0 1,370 30,630 5,832 0 22-Sep 0 18,000 0 0 0 1,370 30,630 5,832 0 22-Sep 0 18,000 0 0 0 1,370 30,630 5,832 0 22-Sep 0 18,000 0 0 0 1,370 30,630 5,832 0 22-Sep 0 18,000 0 0 0 1,370 30,630 5,832 0 22-Sep 0 18,000 0 0 0 1,370 30,630 5,832 0 22-Sep 0 18,000 0 0 0 1,370 30,630 5,832 0 22-Sep 0 18,000 0 0 0 1,370 30,630 5,832 0 22-Sep 0 20,700 38,700 0 0 1,370 30,630 5,832 0 22-Sep 0 20,700 38,700 0 0 1,370 30,630 5,832 0 22-Sep 3,900 3,900 38,700 0 0 1,370 30,630 5,832 0 22-Sep 3,900 3,900 38,700 0 0 1,370 30,630 5,832 0 22-Sep 3,900 3,900 38,700 0 0 1,370 30,630 5,832 0 0 30-Sep 3,900 3,900 38,700 0 0 1,580 35,250 5,832 0 0 30-Sep 3,900 3,900 157,419 0 0 1,580 35,250 5,832 0 0 30-Sep 3,900 3,900 157,419 0 0 1,580 35,250 5,832 0 0 30-Sep 3,900 3,900 168,219 0 0 1,580 35,250 5,832 0 0 30-Sep 3,900 10,020 54,000 157,419 0 0 1,580 35,250 5,832 0 0 35-Sep 3,900 3,900 168,219 0 0 1,580 35,250 5,832 0 0 35-Sep 3,900 10,020 54,000 157,419 0 0 1,580 35,250 5,832 0 0 35-Sep 3,900 10,020 54,000 157,419 0 0 1,580 35,250 5,832 0 0 35-Sep 3,900 10,020 54,000 157,419 0 0 1,580 35,250 5,832 0 0 35-Sep 3,900 10,020 54,000 157,419 0 0 1,580 35,250 5,832 0 0 35-Sep 3,900 10,020 54,000 157,419 0 0 1,580 35,250 5,832 0 0 35-Sep 3,900 10,020 54,000 157,419 0 0	10-Sep		0		0		0		0	128	273	2,816	6,006		1,428		0	
13-sep 0 0 0 0 0 0 689 15,158 1,428 0 14-sep 0 0 0 0 0 0 96 785 2,112 17,270 1,428 0 15-sep 0 0 0 0 0 0 0 224 1,009 4,928 22,198 1,920 3,348 0 16-sep 0 0 0 0 0 0 1,009 22,198 3,348 0 17-sep 0 0 0 0 0 0 119 1,128 2,982 25,180 900 4,248 0 18-sep 0 0 0 0 0 0 119 1,128 2,982 25,180 900 4,248 0 18-sep 0 0 0 0 0 0 1,370 30,630 1,584 5,832 0 19-sep 0 0 0 0 0 0 1,370 30,630 5,832 0 20-sep 0 0 0 0 0 0 1,370 30,630 5,832 0 21-sep 0 0 0 0 0 0 1,370 30,630 5,832 0 22-sep 0 0 0 0 0 0 1,370 30,630 5,832 0 23-sep 0 0 0 0 0 0 1,370 30,630 5,832 0 23-sep 0 1 0 0 0 0 1,370 30,630 5,832 0 24-sep 0 0 0 0 0 0 1,370 30,630 5,832 0 25-sep 0 18,000 0 0 0 1,370 30,630 5,832 0 25-sep 0 18,000 0 0 0 1,370 30,630 5,832 0 26-sep 0 18,000 0 0 0 1,370 30,630 5,832 0 27-sep 0 18,000 0 0 0 1,370 30,630 5,832 0 27-sep 0 3,900 38,700 0 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 0 1,370 30,630 5,832 0 29-sep 3,900 3,900 38,700 0 0 0 1,370 30,630 5,832 0 29-sep 3,900 3,900 38,700 0 0 0 1,370 30,630 5,832 0 20-cet 3,600 10,020 54,000 157,419 0 0 0 1,580 35,250 5,832 0 03-oct 720 10,740 10,800 168,219 0 0 0 1,930 42,950 9,793 0	11-Sep		0		0		0		0		273		6,006		1,428		0	
14-sep 0 0 0 0 0 0 224 1,009 4,928 22,198 1,920 3,348 0 15-sep 0 0 0 0 0 0 0 224 1,009 4,928 22,198 1,920 3,348 0 16-sep 0 0 0 0 0 0 1,009 22,198 3,348 0 17-sep 0 0 0 0 0 0 119 1,128 2,982 25,180 900 4,248 0 18-sep 0 0 0 0 0 0 242 1,370 5,450 30,630 1,584 5,832 0 19-sep 0 0 0 0 0 0 1,370 30,630 5,832 0 20-sep 0 0 0 0 0 0 1,370 30,630 5,832 0 21-sep 0 0 0 0 0 0 1,370 30,630 5,832 0 22-sep 0 0 0 0 0 0 1,370 30,630 5,832 0 22-sep 0 0 0 0 0 0 1,370 30,630 5,832 0 23-sep 0 0 0 0 0 0 1,370 30,630 5,832 0 24-sep 0 18,000 0 0 0 1,370 30,630 5,832 0 25-sep 0 18,000 0 0 0 1,370 30,630 5,832 0 26-sep 0 18,000 0 0 0 1,370 30,630 5,832 0 26-sep 0 18,000 0 0 0 1,370 30,630 5,832 0 26-sep 0 18,000 0 0 0 1,370 30,630 5,832 0 26-sep 0 18,000 0 0 0 1,370 30,630 5,832 0 26-sep 0 3,900 38,700 0 0 1,370 30,630 5,832 0 27-sep 0 3,900 38,700 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 1,370 30,630 5,832 0 29-sep 3,900 3,900 38,700 0 0 1,370 30,630 5,832 0 20-oct 3,600 10,000 54,000 157,419 0 0 1,580 35,250 5,832 0 03-oct 720 10,740 10,800 168,219 0 0 1,930 42,950 9,793 0 06-oct 2,899 14,719 43,885 227,904 0 0 1,930 42,950 9,793 0	12-Sep		0		0		0		0	416	689	9,152	15,158		1,428		0	
15-Sep 0 0 0 0 0 0 1,009 4,928 22,198 1,920 3,348 0 16-Sep 0 0 0 0 0 0 1,009 22,198 3,348 0 17-Sep 0 0 0 0 0 0 119 1,128 2,982 25,180 900 4,248 0 18-Sep 0 0 0 0 0 242 1,370 5,450 30,630 1,584 5,832 0 19-Sep 0 0 0 0 0 0 1,370 30,630 5,832 0 20-Sep 0 0 0 0 0 0 1,370 30,630 5,832 0 21-Sep 0 0 0 0 0 0 1,370 30,630 5,832 0 22-Sep 0 0 0 0 0 0 1,370 30,630 5,832 0 23-Sep 0 0 0 0 0 0 1,370 30,630 5,832 0 23-Sep 0 0 0 0 0 1,370 30,630 5,832 0 24-Sep 0 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 25-Sep 0 18,000 18,000 0 0 1,370 30,630 5,832 0 26-Sep 0 18,000 18,000 0 0 1,370 30,630 5,832 0 27-Sep 0 18,000 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 1,370 30,630 5,832 0 29-Sep 3,900 3,900 38,700 0 0 1,370 30,630 5,832 0 29-Sep 3,900 3,900 38,700 0 0 1,370 30,630 5,832 0 20-Sep 3,900 3,900 5,000 103,419 0 0 1,580 35,250 5,832 0 00-Oct 2,520 6,420 37,800 103,419 0 0 1,580 35,250 5,832 0 00-Oct 2,520 6,420 37,800 103,419 0 0 1,580 35,250 5,832 0 00-Oct 1,080 11,820 16,200 184,419 0 0 1,930 42,950 9,793 0	13∙Sep		0		0		0		0		689		15,158		1,428		0	
16-Sep         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         1,370         30,630         5,832         0           23-Sep         0         0         0         1,370         30,630         5,832         0           24-Sep         0         18,000         0         0         1,370         30,630         5,832         0           26-Sep         0         18,000         0 <td>14-Sep</td> <td></td> <td>0</td> <td></td> <td>0</td> <td></td> <td>0</td> <td></td> <td>0</td> <td>96</td> <td>785</td> <td>2,112</td> <td>17,270</td> <td></td> <td>1,428</td> <td></td> <td>0</td>	14-Sep		0		0		0		0	96	785	2,112	17,270		1,428		0	
17-Sep         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         0         0         1,370         30,630         5,832         0           26-Sep         0	15-Sep		0		0		0		0	224	1,009	4,928	22,198	1,920	3,348		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       0       0       1,370       30,630       5,832       0         26-sep       0       18,000       0       0       1,370       30,630       5,832       0         28-sep       0       18,000       0       0       1,370       30,630       5,832       0         28-sep       3,900	16-Sep		0		0		0		0		1,009		22,198		3,348		0	
19-sep 0 0 0 0 0 0 1,370 30,630 5,832 0 20-sep 0 0 0 0 0 0 1,370 30,630 5,832 0 21-sep 0 0 0 0 0 0 1,370 30,630 5,832 0 22-sep 0 0 0 0 0 0 1,370 30,630 5,832 0 23-sep 0 0 0 0 0 0 1,370 30,630 5,832 0 23-sep 0 0 0 0 0 1,370 30,630 5,832 0 24-sep 0 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 25-sep 0 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 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 28-sep 3,900 3,900 38,700 0 0 1,370 30,630 5,832 0 29-sep 3,900 3,900 38,700 0 0 1,370 30,630 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 01-oct 2,520 6,420 37,800 103,419 0 0 1,580 35,250 5,832 0 03-oct 720 10,740 10,800 168,219 0 0 350 1,930 42,950 9,793 0	17-Sep		0		0		0		0	119	1,128	2,982	25,180	900	4,248		0	
20-Sep 0 0 0 0 0 1,370 30,630 5,832 0 21-Sep 0 0 0 0 0 0 1,370 30,630 5,832 0 22-Sep 0 0 0 0 0 0 1,370 30,630 5,832 0 23-Sep 0 0 0 0 0 0 1,370 30,630 5,832 0 24-Sep 0 0 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 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 1,370 30,630 5,832 0 29-Sep 3,900 3,900 38,700 0 0 1,370 30,630 5,832 0 29-Sep 3,900 26,919 65,619 0 0 1,580 4,620 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 0 1,580 35,250 5,832 0 03-Oct 720 10,740 10,800 168,219 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	18-Sep		0		0		0		0	242	1,370	5,450	30,630	1,584	5,832		0	
21-Sep 0 0 0 0 0 1,370 30,630 5,832 0 22-Sep 0 0 0 0 0 0 1,370 30,630 5,832 0 23-Sep 0 0 0 0 0 0 1,370 30,630 5,832 0 24-Sep 0 0 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 25-Sep 0 18,000 0 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 1,370 30,630 5,832 0 29-Sep 3,900 3,900 38,700 0 0 1,370 30,630 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 1,580 35,250 5,832 0 03-Oct 720 10,740 10,800 168,219 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	19-Sep		0		0		0		0		1,370		30,630		5,832		0	
22-Sep 0 0 0 0 0 1,370 30,630 5,832 0 23-Sep 0 0 0 0 0 1,370 30,630 5,832 0 24-Sep 0 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 0 1,370 30,630 5,832 0 27-Sep 0 18,000 0 0 18,000 0 0 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 1,370 30,630 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 1,930 42,950 9,793 0 04-oct 10,740 168,219 0 0 1,930 42,950 9,793 0	20-Sep		0		0		0		0		1,370		30,630		5,832		0	
22-Sep       0       0       0       1,370       30,630       5,832       0         23-Sep       0       0       0       1,370       30,630       5,832       0         24-Sep       0       0       0       1,370       30,630       5,832       0         25-Sep       0       18,000       18,000       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       1,370       30,630       5,832       0         29-Sep       3,900       38,700       0       0       1,370       30,630       5,832       0         30-Sep       3,900       38,700       0       0       1,580       4,620       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       1	21-Sep		0		0		0		0		1,370		30,630		5,832		0	
23-Sep         0         0         0         1,370         30,630         5,832         0           24-Sep         0         0         0         1,370         30,630         5,832         0           25-Sep         0         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         38,700         0         0         1,370         30,630         5,832         0           30-Sep         3,900         38,700         0         0         1,580         4,620         35,250         5,832         0           01-Oct         2,520         6,420         37,800         103,419         0         1,580         35,250         5,832         0           02-Oct         3,600         10,020	22 - Sep		0		0		0		0		1,370						0	
24·sep         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         38,700         0         0         1,370         30,630         5,832         0           30·sep         3,900         38,700         0         0         1,580         35,250         5,832         0           01·oct         2,520         6,420         37,800         103,419         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	23-Sep		0		0		0		0								0	
25-sep         0         18,000         18,000         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         38,700         0         0         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         10,801         168,219         0	24 · Sep		0		0		0		0		1,370		30,630		5,832		0	
26-sep         0         18,000         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         9,793         0           05-oct	25-Sep		0	18,000	18,000		Q		0				30,630				0	
27-Sep         0         18,000         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           05-Oct         1,080         11,820         16,200         184,419         0         0         1,930         42,950	26-Sep		0		18,000		0		0		1,370		30,630		=		8	
28-Sep       0       20,700       38,700       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	27 · Sep		0				0		0								0	
29-Sep 3,900 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 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 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 1,080 11,820 16,200 184,419 0 0 0 1,930 42,950 9,793 0         06-Oct 2,899 14,719 43,485 227,904 0 0 0 1,930 42,950 9,793 0	28 · Sep		0	20,700			0		0				-				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			3,900				0		0	210		4,620			-		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	30-Sep		3,900	26,919	65,619		0		0		-	•			-		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	-						G		0								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	02-0ct	3,600	10,020	54,000			0		0		-						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	03-0ct	720					0		0	350		7,700		3,961			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	04-0ct		-	•	-		C		0			•	-	•			0	
06-Oct 2,899 14,719 43,485 227,904 0 0 1,930 42,950 9,793 0	05-0ct	1,080		16,200			0		0								0	
	06-0ct	2,899	14,719	43,485			0		0								0	
	07-0ct	1,798	16,517	26,970	254,874		0		0								0	

DATE		GEOTEX	TILE TS700	)	+	GEOTEXTILE	TS1000	l		CHAN	NEL VLDP	E	CHANNEL	. GUNSEAL	CELA	GUNDSEAL
	(Lin	ear ft)	(sq.	ft)	(Lin	ear ft)	(sq.	ft)	(Lin	ear ft)	(sq	. ft)	(sc	q. 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
09-0ct		16,517		254,874		0		0		2,143		51,640		14,681		0
10-0ct	3,132	19,649	46,980	301,854		0		0		2,143		51,640		14,681		0
11-0ct		19,649		301,854		0		0		2,143		51,640		14,681		0
12-0ct	1,349	20,998	20,235	322,089		0		0		2,143		51,640		14,681		0
13-0ct		20,998		322,089		0		0		2,143		51,640		14,681		0
14-0ct	2,854	23,852	42,810	364,899		0		0		2,143		51,640		14,681		0
15-0ct		23,852		364,899		0		0	200	2,343	4,400	56,040	2,400	17,081		0
16-0ct	1,700	25,552	25,500	390,399		0		0		2,343		56,040		17,081		0
17-0ct	4,361	29,913	65,417	455,816		0		0		2,343		56,040		17,081		0
18-0ct		29,913		455,816		0		0		2,343		56,040		17,081		0
19-0ct	1,556	31,469	23,340	479,156		0		0		2,343		56,040		17,081		0
20-0ct	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
22-0ct		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
24-0ct	900	32,469	13,500	494, 156		0		0		2,343		56,040		17,081	7,500	78,042
25-0ct		32,469		494, 156		0		0		2,343		56,040		17,081	•	78,042
26-0ct	927	33,396	13,905	508,061		0		0		2,343		56,040		17,081	19,035	97,077
27-0ct	1,337		20,057	528,118		0		0		2,343	4,400	60,440	3,000	20,081	3,000	100,077
28-0ct	615	35,348	9,225	537,343		0		0		2,343	•	60,440	•	20,081	45,000	145,077
29-0ct		=	77,420	614,763		0		0	200	2,543	4,400	64,840	4,000	24,081		145,077
30-0ct	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
31-0ct	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-Nav	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		GEOTE	KTILE TS7	'00	1	GEOTEXT!	LE TS100	0		CHANI	NEL VLDP	Έ	CHANNEL	GUNSEAL	CELA	GUNDSEAL
	(Lir	ear ft)	(8	q. ft)	(Lin	ear ft)	(80	j. ft)	(Lin	ear ft)		. ft)	(sc	(, ft)		. 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		Đ		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
		•						-,							_,,	

DATE	CELA	VLDPE	CELA GE	OCOMPOSITE	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	G	0
06-Aug	0	0	0	0	a	670 670
07-Aug	0	0	0	0	0	971 1,641
08-Aug	0	0	0	0	0	1,641
09-Aug	0	Đ	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	O	0	0	5,415

DATE	CELA	VLDPE	CELA GE	DCOMPOSITE	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- <b>\$ep</b>	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	G	0	0	0	5,536	
15 - Sep	0	6	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	

DATE	C	ELA VLDPE		CELA GEO	COMPOSITE	COMMON FILL	GAS VENT STON
	(Linear ft	;) (s	q. ft)	(Linear ft)	(sq. ft)	(Tons)	(Tons)
	Day Tota	il Day	Total	Day Totai	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
01-0ct		0	0	0	0	0	709 6,701
02-0ct		0	0	0	0	0	622 7,323
03-Oct		0	0	0	0	0	856 8,178
04-0ct		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
07-0ct		0	0	0	0	0	871 10,642
08-0ct		0	0	0	0	0	607 11,249
09-Oct		0	0	0	0	0	1,154 12,403
10-0ct		0	0	0	0	0	928 13,331
11-0ct		0	0	0	0	0	13,331
12-0ct		0	0	0	0	0	1,197 14,527
13-0ct		0	0	0	0	0	1,434 15,961
14-0ct		0	0	0	0	0	911 16,872
15-0ct		0	0	0	0	0	934 17,805
16-0ct		0	0	0	0	0	1,328 19,133
17-0ct		0	0	0	0	0	738 19,871
18-0ct		0	0	0	0	0	19,871
19-0ct		0	0	C	0	0	2,025 21,896
20-0ct	431 43	1 9,482	9,482	0	0	0	1,621 23,516
21-0ct	43	1	9,482	0	0	0	1,546 25,062
22-0ct	1,680 2,11	1 36,960	46,442	0	0	0	25,062
23-0ct	1,396 3,50	7 30,712	77,154	0	0	0	25,062
24-0ct	300 3,80	7,040	84,194	0	0	0	25,062
25-0ct	3,80	7	84,194	0	0	0	25,062

DATE	CELA VLDPE					CELA GE	OCOMPOS!	TE	COMMO	ON FILL	GAS VENT STON		
	(Lir	eer ft)	(s	q. ft)	(Lin	ear ft)	(s	q. ft)	(1	ions)	C	(ons)	
	Day	Total	Day	Total	Day	Total	Day	Total	Day	Total	Day	Total	
26-0ct	1,097	4,904	24,134	108,328		0		0		0		25,062	
27-0ct	200	5,104		108,328		0		0		0		25,062	
28-0ct	2,089	7,193	45,958	154,286		0		0		0		25,062	
29-0ct	374	7,567	8,228	162,514		0		0		0		25,062	
30-0ct	494	8,061	10,868	173,382		0		0		0	544	25,606	
31-0ct	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	

DATE		CELA VLDPE				CELA GE	OCOMPOS1	TE	COMMON FILL		GAS VENT STON	
	(Lin	ear ft)	(s	(sq. ft)		near ft)	(5	sq. ft)	C	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 C Week	CTOBER Total	W/E 11 WEEK	OCTOBER TOTAL	W/E 18 WEEK	OCTOBER TOTAL
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.)	49,500 0 0	49,500 0 0	0 20,000 0	20,000 0	16,400 0	36,400 0
Volume sludge treated (gal.) Weight filter-cake off-site (tons) Volume filtrate produced (gal.)	0 0 0	0 0 0	29,472 0 Unknown	29,472 0 Unknown	31,928 0 Unknown	61,400 0 Unknown
Volume filtrate treated (gal.) Volume filtrate to POTW (gal.)	0	0	0	0	0	0
Volume extraneous water present (gal.) Volume extraneous water treated (gal.) Volume extraneous water to POTW (gal.)	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
ITEM	W/E 25 WEEK	OCTOBER TOTAL	W/E 1 N	OVEMBER TOTAL	W/E 8 N	NOVEMBER TOTAL
Volume aqueous phase removed (gal.)	_					
Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.) Weight filter-cake off-site (tons) Volume filtrate produced (gal.)	0 13,210 0 51,576 0 Unknown	49,610 0	26,954 23,362	0	5,436 26,248 49,120 0 Unknown	82,000 82,000 49,610 196,480 0 140,999 by 6 Nov

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	· O	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	Ó
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

Jonathan E. Brandes, GeoSyntec Consultants

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 (TS <b>700</b> ) (ft <sup>2</sup> )	5,400	1,042,618
CELA Geotextile (TS700) (m²)	502	96,898
CELA Geotextile (TS1000) (ft <sup>2</sup> )	82,500	100,700
CELA Geotextile (TS1000) (m <sup>2</sup> )	7,667	9,359
VLDPE in Channel (ft <sup>2</sup> )	0	83,845
VLDPE in Channel (m²)	0	7,792
Gundseal in CELA (ft <sup>2</sup> )	105,425	524,132
Gundseal in CELA (m²)	9,798	48,711
VLDPE in CELA (ft <sup>2</sup> )	105,737	536,651
VLDPE in CELA (m <sup>2</sup> )	9,827	49,875
Geocomposite Layer (ft²)	238,260	518,130
Geocomposite Layer (m²)	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 42in. 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 KO51 analysis. Received preliminary KO51 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 offsite 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		GEOTE	KTILE TS70	0,		GEOTEXTILE	E TS1000			CHAN	NEL VLDP	E	CHANNEL	GUNSEAL	CELA G	UNDSEAL
	(Li	near ft)	(sq	. ft)	(Line	ear ft)	.pa)	ft)	(Lin	ear ft)		. ft)		. ft)		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		n
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		n
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		٥		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		۵
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		Q		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
01-0ct	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		9	350	1,930	7,700	42,950	3,961	9,793		٥
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		Õ
06-0ct	2,899	17,299	43,485	227,904		0		0		1,930		42,950		9,793		Ó
07-Oct	1,798	19,097	26,970	254,874		0		0		1,930		42,950		9,793		Ō
										•		•				•

DATE		GEOTEX	TILE TS700	)	(	GEOTEXTILE	TS1000			CHAN	NEL VLDP	E	CHANNEL	GUNSEAL	CELA	GUNDSEAL
	(Lin	ear ft)	(sq.	. ft)	(Line	ear ft)	.pa)	ft)	(Line	ear ft)	pa)	. ft)	(sc	. ft)	(sq	. ft)
	Day	Total	Day	Total	Day	Total	Day	Total	Day	Total	Day	Total	Day	Total	Day	Total
08-0ct		19,097		254,874		0		0	213	2,143	8,690	51,640	4,888	14,681		0
09-0ct		19,097		254,874		0		ō	-1.5	2,143	0,070	51,640	4,000	14,681		n
10-Oct	3,132	-	46,980	301,854		0		0		2,143		51,640		14,681		0
11-0ct		22,229	,	301,854		0		٥		2,143		51,640		14,681		0
12-0ct	1,349	-	20.235	322,089		0		0		2,143		51,640		14,681		0
13-0ct		23,578	•	322,089		0		0		2,143		51,640		14,681		0
14-Oct	2,854	26,432	42,810	364,899		0		٥		2,143		51,640		14,681		0
15-0ct		26,432		364,899		0		0	200	2,343	4,400	56,040	2,400	17,081		0
16:0ct	1,700	28,132	25,500	390,399		0		0		2,343		56,040	•	17,081		0
17-0ct	4,361	32,493	65,417	455,816		0		0		2,343		56,040		17,081		0
18-0ct		32,493		455,816		0		0		2,343		56,040		17,081		0
19-0ct	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
26-0ct	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
31-0ct	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		GEOTE	KTILE TS7	00	1	GEOTEXT	LE TS100	00		CHAN	NEL VLDP	E	CHANNEL	GUNSEAL	CELA	GUNDSEAL
	(Lin	ear ft)	(s	q. ft)	(Lin	ear ft)	(se	q. ft)	(Lin	ear ft)	(sq	ı. ft)	(sc	q. 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	GEOTEXT	ILE TS700	GEOTEXTILE	TS1000	CHANNE	EL 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-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

DATE	CEI	LA VLDPE	CELA GE	OCOMPOSITE	COMMON FILL	GAS VENT ST	ON
	(Linear ft)	(sq. ft)	(Linear ft)	(sq. ft)	(Tons)	(Tons)	
	Day Total	Day Total	Day Total	Day Total	Day Total	Day Tota	ıL
05-Aug	0	0	0	0	0	I	0
06-Aug	0	0	0	0	0	670 67	0'
07-Aug	0	0	0	0	0	971 1,64	1
08-Aug	0	0	0	0	0	1,64	1
09-Aug	0	0	0	0	0	1,64	1
10-Aug	0	0	0	0	0	628 2,26	9
11-Aug	0	0	0	0	0	441 2,71	0
12-Aug	0	0	0	0	0	152 2,86	2
13-Aug	0	0	0	0	0	2,86	2
14-Aug	0	0	0	0	0	2,86	2
15-Aug	0	0	0	0	0	2,86	2
16-Aug	0	0	0	0	0	2,86	
17-Aug	0	0	0	0	0	2,86	2
18-Aug	0	0	0	0	0	703 3,56	4
19-Aug	0	0	0	0	0	524 4,08	
20-Aug	0	0	0	0	0	369 4,45	
21-Aug	0	0	0	0	0	556 5,01	
22-Aug	0	0	0	0	0	5,01	
23-Aug	0	0	0	0	0	5,01	
24-Aug	0	0	0	0	0	402 5,41	
25 - Aug	0	0	0	0	0	5,41	
26-Aug	0	0	0	0	0	5,41	
27-Aug	0	0	0	. 0	0	5,41	
28-Aug	0	0	0	0	0	5,41	
29-Aug	0	0	0	0	0	5,41	
30-Aug	0	0	0	0	0	5,41	
31-Aug	0	0	0	0	0	5,41	
01-Sep	0	0	0	0	0	5,41	
02-Sep	0	0	0	0	0	5,41	
03 - Sep	0	0	0	0	a	5,41	

DATE	CELA	VLOPE	CELA GEO	COMPOSITE	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-Sep	0	0	٥	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	C	0	0	0	0	5,5 <b>36</b>
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	Đ	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
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
01-0ct	0	0	0	0	0	709 6,701
02-0ct	0	0	0	0	0	622 7,323
03-0ct	0	0	0	0	0	856 8,178

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

DATE		CEL	A VLDPE			CELA GEO	COMPOSITE	Ē	COMMO	N FILL	GAS	VENT STON
	(Lin	ear ft)	( 6	q. ft)	(Line	ear ft)	(sq.	ft)	(T	ons)	C	Tons)
	Day	Total	Day	Total	Day	Total	Day	Total	Day	Total	Day	Total
04-Oct		0		0		0		0		0		8,178
05-0ct		0		0		0		0		0	784	8,962
06-0ct		0		0		0		0		0	809	9,771
07-0ct		0		0		0		0		0	871	10,642
08-0ct		0		0		0		0		0	607	11,249
09-Oct		0		0		0		0		C	1,154	12,403
10-0ct		0		0		0		0		0	928	13,331
11-0ct		0		0		0		0		0		13,331
12-0ct		0		0		0		0		0	1,197	14,527
13-0ct		0		0		0		0		0	1,434	15,961
14-0ct		0		0		0		0		0	911	16,872
15-0ct		0		0		0		0		0	934	17,805
16-0ct		0		0		0		0		0	1,328	19,133
17-0ct		0		0		0		0		0	738	19,871
18-0ct		0		0		0		0		0		19,871
19-0ct		0		0		0		· 0		0	2,025	21,896
20-0ct	431	431	9,482	9,482		0		0		0	1,621	23,516
21-0ct		431		9,482		0		0		0	1,546	25,062
22-0ct	1,680	2,111	36,960	46,442		0		0		0		25,062
23-0ct	1,396	3,507	30,712	77,154		0		0		0		25,062
24-0ct	300	3,807	7,040	84,194		0		0		0		25,062
25-0ct		3,807		84,194		0		0		0		25,062
26-0ct	1,097	4,904	24,134	108,328		0		0		0		25,062
27-0ct	200	5,104		108,328		0		0		0		25,062
28-0ct	2,089	7,193	45,958	154,286		0		0		0		25,062
29-0ct	374	7,567	8,228	162,514		0		0		C		25,062
30-0ct	494	8,061	10,868	173,382		0		٥		0	544	25,606
31-0ct	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

DATE		CEL	A VLDPE			CELA GE	OCOMPOS I	TE	COMM	ON FILL	GAS	VENT STON
	(Lir	ear ft)	(8	q. ft)	(Lîn	ear ft)	(s	q. ft)	C	Tons)	C	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

DATE		CEL	A VLDPE			CELA GE	OCOMPOSI	TE	COMMO	ON FILL	GAS \	ENT STON
	(Lin	ear ft)	(s	q. ft)	(Lin	ear ft)	(s	q. ft)	(1	(ons	(1	ions)
	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

	W/E 4 0			OCTOBER		OCTOBER
ITEM	WEEK	TOTAL	WEEK	TOTAL	WEEK	TOTAL
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.) Weight filter-cake off-site (tons) Volume filtrate produced (gal.)	49,500 0 0 0 0	49,500 0 0 0 0	0 20,000 0 29,472 0 Unknown	20,000	0	
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 Week	OCTOBER TOTAL	W/E 1 N WEEK	NOVEMBER TOTAL	W/E 8 N Week	NOVEMBER TOTAL
Volume aqueous phase removed (gal.)	WEEK O	TOTAL 82,000	WEEK O	TOTAL 82,000	WEEK O	TOTAL 82,000
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.)	WEEK 0 13,210	TOTAL	WEEK 0 26,954	TOTAL 82,000 76,564	WEEK 0 5,436	TOTAL 82,000 82,000
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.)	WEEK 0 13,210 0	TOTAL 82,000 49,610 0	WEEK 0 26,954 23,362	TOTAL 82,000 76,564 23,362	WEEK 0 5,436 26,248	TOTAL 82,000 82,000 49,610
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.)	WEEK 0 13,210 0 51,576	TOTAL 82,000 49,610 0 112,976	WEEK 0 26,954 23,362 34,384	TOTAL 82,000 76,564 23,362 147,360	WEEK 0 5,436 26,248 49,120	TOTAL 82,000 82,000 49,610 196,480
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.) Weight filter-cake off-site (tons)	WEEK 0 13,210 0 51,576	TOTAL 82,000 49,610 0 112,976	WEEK 0 26,954 23,362 34,384 0	TOTAL 82,000 76,564 23,362 147,360 0	WEEK 0 5,436 26,248 49,120 0	TOTAL 82,000 82,000 49,610 196,480 0
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.)	WEEK 0 13,210 0 51,576	TOTAL 82,000 49,610 0 112,976	WEEK 0 26,954 23,362 34,384	TOTAL 82,000 76,564 23,362 147,360 0 88,610	WEEK  0 5,436 26,248 49,120 0 Unknown	TOTAL 82,000 82,000 49,610 196,480 0 140,999
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.) Weight filter-cake off-site (tons) Volume filtrate produced (gal.)	WEEK 0 13,210 0 51,576 0 Unknown	TOTAL 82,000 49,610 0 112,976 0 Unknown	WEEK  26,954 23,362 34,384  0 Unknown	TOTAL 82,000 76,564 23,362 147,360 0 88,610 by 29 Oct	WEEK 0 5,436 26,248 49,120 0 Unknown	TOTAL 82,000 82,000 49,610 196,480 0 140,999 by 6 Nov
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.) Weight filter-cake off-site (tons) Volume filtrate produced (gal.)  Volume filtrate treated (gal.)	WEEK 0 13,210 0 51,576 0 Unknown	TOTAL 82,000 49,610 0 112,976 0 Unknown	WEEK  26,954 23,362 34,384 0 Unknown	TOTAL 82,000 76,564 23,362 147,360 0 88,610	WEEK  5,436 26,248 49,120 0 Unknown 8,276	TOTAL 82,000 82,000 49,610 196,480 0 140,999 by 6 Nov
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.) Weight filter-cake off-site (tons) Volume filtrate produced (gal.)	WEEK 0 13,210 0 51,576 0 Unknown	TOTAL 82,000 49,610 0 112,976 0 Unknown	WEEK  26,954 23,362 34,384 0 Unknown	TOTAL 82,000 76,564 23,362 147,360 0 88,610 by 29 Oct 0	WEEK 0 5,436 26,248 49,120 0 Unknown	TOTAL 82,000 82,000 49,610 196,480 0 140,999 by 6 Nov
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.) Weight filter-cake off-site (tons) Volume filtrate produced (gal.)  Volume filtrate treated (gal.) Volume extraneous water present (gal.) Volume extraneous water treated (gal.)	WEEK 0 13,210 0 51,576 0 Unknown 0 0 0	TOTAL 82,000 49,610 0 112,976 0 Unknown 0 0 0	WEEK  26,954 23,362 34,384 0 Unknown	TOTAL 82,000 76,564 23,362 147,360 0 88,610 by 29 Oct 0	WEEK  5,436 26,248 49,120 0 Unknown  8,276	TOTAL 82,000 82,000 49,610 196,480 0 140,999 by 6 Nov 8,276
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.) Weight filter-cake off-site (tons) Volume filtrate produced (gal.)  Volume filtrate treated (gal.) Volume filtrate to POTW (gal.) Volume extraneous water present (gal.)	WEEK 0 13,210 0 51,576 0 Unknown 0 0	TOTAL 82,000 49,610 0 112,976 0 Unknown	WEEK  26,954 23,362 34,384 0 Unknown 0 12,623	TOTAL  82,000 76,564 23,362 147,360 0 88,610 by 29 Oct 0 12,623	WEEK  5,436 26,248 49,120 0 Unknown  8,276 0	TOTAL 82,000 82,000 49,610 196,480 0 140,999 by 6 Nov 8,276 0 0

SINCLAIR REFINERY, WELLSVILLE, NEW YORK UNIT 2, SEPARATOR REMEDIATION

	W/E 15	NOVEMBER	W/E 22	NOVEMBER	W/E 29	NOVEMBER
ITEM	WEEK	TOTAL	WEEK	TOTAL		TOTAL
Volume aqueous phase removed (gal.)	0		0		0	82,000
Volume aqueous phase treated (gal.)	0	,	0	82,000	0	82,000
Volume of aqueous phase to POTW (gal.)		82,000		82,000		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		5,656	59,178
	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		12,623	0	12,623
Volume extraneous water to POTW (gal.)	12,623	12,623	0	12,623	0	12,623
	W/E 6 D	DECEMBER	W/E 13	DECEMBER	W/F 20	DECEMBER
ITEM		DECEMBER Total		DECEMBER TOTAL		DECEMBER TOTAL
ITEM	W/E 6 D	ECEMBER Total	W/E 13 WEEK		W/E 20 WEEK	
		TOTAL	WEEK	TOTAL		TOTAL
Volume aqueous phase removed (gal.)	WEEK	TOTAL 82,000	WEEK O	TOTAL 82,000	WEEK O	TOTAL 82,000
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.)	WEEK 0	TOTAL 82,000 82,000	WEEK	TOTAL 82,000 82,000	WEEK O O	TOTAL 82,000 82,000
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.)	WEEK 0	TOTAL 82,000 82,000 82,000	WEEK 0 0	TOTAL 82,000 82,000 82,000	WEEK 0 0 0	TOTAL 82,000 82,000 82,000
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.)	WEEK 0 0 0	TOTAL 82,000 82,000	WEEK 0 0 0 0 0	TOTAL 82,000 82,000 82,000 282,212	WEEK 0 0 0	TOTAL 82,000 82,000
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.) Weight filter-cake off-site (tons)	WEEK 0 0 0 0 0 0 0 0	TOTAL 82,000 82,000 82,000 282,212 0	WEEK 0 0 0 0 0 0 0	TOTAL 82,000 82,000 82,000 282,212 0	WEEK 0 0 0 0	TOTAL 82,000 82,000 82,000 282,212 0
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.) Weight filter-cake off-site (tons) Volume filtrate produced (gal.)	WEEK 0 0 0 0 0 0 2,579	TOTAL 82,000 82,000 82,000 282,212 0 226,396	WEEK 0 0 0 0 0 7,445	TOTAL 82,000 82,000 82,000 282,212 0 233,841	WEEK 0 0 0 0 0	TOTAL 82,000 82,000 82,000 282,212 0 233,841
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.) Weight filter-cake off-site (tons) Volume filtrate produced (gal.) Volume filtrate treated (gal.)	WEEK 0 0 0 0 0 2,579 53,023	TOTAL 82,000 82,000 82,000 282,212 0 226,396 112,201	WEEK 0 0 0 0 0 7,445	TOTAL 82,000 82,000 82,000 282,212 0 233,841 112,201	WEEK 0 0 0 0 0 0 50,902	TOTAL 82,000 82,000 82,000 282,212 0 233,841 163,103
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.) Weight filter-cake off-site (tons) Volume filtrate produced (gal.) Volume filtrate treated (gal.) Volume filtrate to POTW (gal.)	WEEK 0 0 0 0 2,579 53,023 50,902	TOTAL  82,000 82,000 82,000 282,212 0 226,396 112,201 59,178	WEEK 0 0 0 0 0 7,445 0	TOTAL 82,000 82,000 82,000 282,212 0 233,841	WEEK 0 0 0 0 0 0 50,902 53,023	TOTAL 82,000 82,000 82,000 282,212 0 233,841
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.) Weight filter-cake off-site (tons) Volume filtrate produced (gal.) Volume filtrate treated (gal.) Volume filtrate to POTW (gal.) Volume extraneous water present (gal.)	WEEK 0 0 0 0 2,579 53,023 50,902 0	TOTAL  82,000 82,000 82,000 282,212 0 226,396 112,201 59,178 0	WEEK 0 0 0 0 0 7,445 0 0	TOTAL 82,000 82,000 82,000 282,212 0 233,841 112,201 59,178	WEEK 0 0 0 0 0 0 50,902 53,023	TOTAL 82,000 82,000 82,000 282,212 0 233,841 163,103 112,201 0
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.) Weight filter-cake off-site (tons) Volume filtrate produced (gal.) Volume filtrate treated (gal.) Volume filtrate to POTW (gal.)	WEEK 0 0 0 0 2,579 53,023 50,902	TOTAL  82,000 82,000 82,000 282,212 0 226,396 112,201 59,178 0	WEEK 0 0 0 0 0 7,445 0	TOTAL 82,000 82,000 82,000 282,212 0 233,841 112,201 59,178 0	WEEK 0 0 0 0 0 0 50,902 53,023	TOTAL 82,000 82,000 82,000 282,212 0 233,841 163,103 112,201 0

SINCLAIR REFINERY, WELLSVILLE, NEW YORK

UNIT 2, SEPARATOR REMEDIATION

	W/E 27	DECEMBER	W/E 3 .	JANUARY
ITEM	WEEK	TOTAL	WEEK	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	
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

T0:

Mr. Robert E. Ivy, ARCO

FROM:

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

Jonathan E. Brandes, GeoSyntec Consultants

DEB

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

January 1993 Monthly Field Report 10 February 1993 Page 2

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 KO51 analysis. Received preliminary KO51 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 resandblasted. Sample sent to General Testing Corporation, Rochester, New York, for total petroleum hydrocarbons (TPH)

January 1993 Monthly Field Report 10 February 1993 Page 3

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

January 1993 Monthly Field Report 10 February 1993 Page 4

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 I 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 twolane 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

Volume filtrate treated (gal.)

Volume filtrate to POTW (gal.)

Volume extraneous water present (gal.) Volume extraneous water treated (gal.) Volume extraneous water to POTW (gal.)

UNIT 2, SEPARATOR REMEDIATION

ITEM	W/E 4 Week	OCTOBER TOTAL	W/E 11 WEEK	OCTOBER TOTAL	W/E 18 WEEK	OCTOBER TOTAL	
Volume aqueous phase removed (gal.)	49,500	49,500	0	49,500	32,500	<b>B</b> 2,000	
Volume aqueous phase treated (gal.)	0		20,000				
Volume of aqueous phase to POTW (gal.)		_	0	0	0	00,100	
Volume sludge treated (gal.)	0	0	29,472	_	•	61,400	
Weight filter-cake off-site (tons)	Ō	_	0	0, 2	0	01,400	
Volume filtrate produced (gal.)	Ō		Unknown	Unknown	Unknown	Unknown	
Volume filtrate treated (gal.)	0	0	0	0	0	0	
Volume filtrate to POTW (gal.)	Ŏ	Ŏ	Ö	0	: 0	0	
Volume extraneous water present (gal.)		0	Ŏ	Ŏ	. 0	0	
Volume extraneous water treated (gal.)	Ö	Ö	Ŏ	Ŏ	0	0	
Volume extraneous water to POTW (gal.)		ŏ	Õ	0	Ŏ	0	
		·	·	·	·	v	
	W/E 25 OCTOBER W/E 1 NOVEMB			OVEMBER	R W/E 8 NOVEMBER		
ITEM	WEEK		WEEK		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		82,000	
Volume of aqueous phase to POTW (gal.)	. 0	. 0		23,362			
Volume sludge treated (gal.)	51,576	112,976		147,360		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

12,623

12,623

**B,276** 

12,623

by 6 Nov

8,276

12,623

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.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.) Weight filter-cake off-site (tons) Volume filtrate produced (gal.)	0 0 32,390 41,752 0 Unknown	82,000	0 0 0 38,068 0 14,971	,	0 0 0 5,912 0 14,971	82,000
Volume filtrate treated (gal.)	25,451 8,276 0 0 12,623	by 15 Nov 33,727	19,795 0 0 0 0	53,522 8,276 0 12,623 12,623	5,656 0 0 0	59,178 8,276 0 12,623 12,623
ITEM	W/E 6 D	ECEMBER Total	W/E 13 WEEK	DECEMBER Total	W/E 20 WEEK	DECEMBER TOTAL
Volume aqueous phase removed (gal.) Volume aqueous phase treated (gal.) Volume of aqueous phase to POTW (gal.) Volume sludge treated (gal.) Weight filter-cake off-site (tons) Volume filtrate produced (gal.) Volume filtrate treated (gal.) Volume filtrate to POTW (gal.) Volume extraneous water present (gal.) Volume extraneous water treated (gal.) Volume extraneous water to POTW (gal.)	0 0 0 0 0 2,579 53,023 50,902 0 0	82,000 82,000 82,000 282,212 0 226,396 112,201 59,178 0 12,623 12,623	0 0 0 0 0 0 7,445 0 0 0	82,000 282,212 0 233,841 112,201 59,178 0	0 0 0 0 0 0 50,902 53,023	82,000 282,212 0

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	Ō	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	
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.)	Ó	82,000	Ŏ	82,000	Ŏ	82,000
Volume of aqueous phase to POTW (gal.)	Ó	82,000	Ŏ	82,000	Ŏ	82,000
Volume sludge treated (gal.) ´´	Ó	282,212	Ŏ	282,212	Ŏ	282,212
Weight filter-cake off-site (tons)	31	322	Ŏ	322	Ö	322
Volume filtrate produced (gal.)	Ō	233,841	Ō	233,841	Ŏ	233,841
Volume filtrate treated (gal.)	19,836	233,841	Ŏ	233,841	Ō	233,841
Volume filtrate to POTW (gal.)	50,902	214,005	19,836	233,841	Ō	233,841
Volume extraneous water present (gal.)	,	unknown	unknown		unknown	
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

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 rolloff 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 KOS1 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.
- Sevenson completed demobilization from site on 16 February except for contractor trailer and International utility loader.
   Sevenson 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 JER

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.

- 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 onsite 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.

- 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) (ft²)	0 (Completed)	1,042,618
CELA Geotextile (TS700) (m <sup>2</sup> )	0 (Completed)	96,898

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Item	May	Cumulative Quantity
CELA Geotextile (TS1000) (ft²)	0 (Completed)	100,700
CELA Geotextile (TS1000) (m <sup>2</sup> )	0 (Completed)	9,359
Channel Geotextile (TS1000) (ft²)	15,000	15,000
Channel Geotextile (TS1000) (m <sup>2</sup> )	1,394	1,394
Secondary VLDPE (ft²)	0 (Completed)	83,845
Secondary VLDPE (m²)	0 (Completed)	7,792
Secondary Gundseal (ft <sup>2</sup> )	0 (Completed)	39,566
Secondary Gundseal (m²)	0 (Completed)	3,677
Primary Gundseal (ft²)	39,000 (Completed)	563,132
Primary Gundseal (m <sup>2</sup> )	3,625 (Completed)	52,336
Primary VLDPE (ft²)	40,118 (Completed)	576,769
Primary VLDPE (m²)	3,728 (Completed)	53,603
Geocomposite Layer (ft²)	16,600 (Completed)	534,730
Geocomposite Layer (m²)	1,543 (Completed)	49,696
Bedding Stone (tons)	541	541
Common Fill (tons)	2,322	48,025

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### **UNIT 2, SEPARATOR**

• Lynch Paving and Contracting Inc., as a subcontractor to Sevenson, 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

\_ OF SHEET INSPECTION DATE 11-3-92 CLEARING AND GRUBBING ACCEPT REJECT N/A 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. 2. DUST CONTROL ACTION TAKEN LOCATION (APPROXIMATE) CIG ADDITIONAL EXCAVATION ALEAS AT CINET CONTROLS REMARKS HREAS SEING CLEANED & GRUEDED AS DIRECTED BY CEOSYNTEC -----NOV #4 1992 DATE 11-3-92

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- 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>		
DUST CONTROL			
ACTION TAKEN NOWE NECESSARY			
,			
·		<b></b> ,	
CLEARING AND GRUBBING OF SEPA	RATOR AR	EA STAR	TEL
CLEARING AND GRUBBING OF SEPA	RATOR AR	EA STAR	TEL
LOCATION (APPROXIMATE)  CLEARING AND GRUBBING OF SEPA  REMARKS	RATOR AR	EA STAR	
CLEARING AND GRUBBING OF SEPA	RATOR AR	EA, STAR	
CLEARING AND GRUBBING OF SEPA	RATOR AR	EA STAR	
CLEARING AND GRUBBING OF SEPA	RATOR AR	EA STAR	
CLEARING AND GRUBBING OF SEPA	RATOR AR	EA STAR	
CLEARING AND GRUBBING OF SEPA	RATOR AR	EA STAR	TEL
CLEARING AND GRUBBING OF SEPA	RATOR AR	DATE 2	

FORM A-1 OF INSPECTION DATE 7-2-92 CLEARING AND GRUBBING ACCEPT REJECT N/A 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. 2. DUST CONTROL ACTION TAKEN LOCATION (APPROXIMATE) CLEARING - CURRENT CONTROLS, AND GRUBBING, COMPLETED REMARKS \_\_\_\_ DATE 7-14-92

DATE Holden

INSPECTOR

REVIEWED BY

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.	<u> </u>		
- STUMPS, ROOTS LARGER THAN 1-1/2 INCHES IN DIAMETER AND DECAYED MATTER REMOVED TO A 12" DEPTH FROM AREA REQUIRING GRUBBING.	<u> </u>		
DUST CONTROL			
ACTION TAKEN DUST LEVELS EXCEEDED	DURING 6	RUBBING	Doze
WAS X SHUT DOWN WH	ILE DUST	CLEARED	
IOCATTON (ADDROYTMATE)			
LOCATION (APPROXIMATE)	R. Jewa	No STOMPE	
GRUBBED CAP AREA COMPLETED ALL	But GRIND	NE STUMPS	
	BUT GRIND	NE STUMPS	
GRUBBED CAP AREA COMPLETED ALL	. But GRIND.	NE STUMPS	
GRUBBED CAP AREA COMPLETED ALL	BUT GRINDI	NE STUMPS	
GRUBBED CAP AREA COMPLETED ALL	. But GRIND.	NG STUMPS	
GRUBBED CAP AREA COMPLETED ALL	BUT GRIND	NE STUMPS	
GRUBBED CAP AREA COMPLETED ALL	BUT GRIND.	NE STUMPS	
GRUBBED CAP AREA COMPLETED ALL	BUT GRIND	NE STUMPS	
GRUBBED CAP AREA COMPLETED ALL	BUT GRIND	NG STUMPS	
GRUBBED CAP AREA COMPLETED ALL	. But GRIND.	NE STUMPS	
GRUBBED CAP AREA COMPLETED ALL	BUT GRIND	NE STUMPS	
GRUBBED CAP AREA COMPLETED ALL	BUT GRIND	NE STUMPS	
CRUBBED CAP AREA, COMPLETED ALL REMARKS	BUT GRIND	DATE 7	
GRUBBED CAP AREA COMPLETED ALL	BUT GRIND		

FORM A-1 SHEET 1 OF 1 INSPECTION DATE 6-50-92

VERIFICATION	N INSPECTION	ACCEPT	REJECT	N/1
THE SURVEY	E CLEARED IS STAKED BY CREWS TO CONFORM WITH ACT DRAWINGS.			
- AREA TO BE	E GRUBBED IS STAKED BY CREW TO CONFORM WITH ACT DRAWINGS.			
	REE OF TREES, BRUSH, B WOOD, RUBBISH AND OTHER DNS.			
INCHES IN MATTER REM	OOTS LARGER THAN 1-1/2 DIAMETER AND DECAYED OVED TO A 12" DEPTH REQUIRING GRUBBING.	_	<u></u>	
DUST CONTROL	WATER TRUCK USED TO	CONTROL	Dust.	
ACTION TAKEN	The value of the v			
ACTION TAKEN				
LOCATION (AP				
LOCATION (AP	PROXIMATE)			
LOCATION (AP	PROXIMATE)			
LOCATION (AP	PROXIMATE)			
LOCATION (AP	PROXIMATE)			
LOCATION (AP	PROXIMATE)			· 15 · 42
LOCATION (AP	PROXIMATE)			
LOCATION (AP	PROXIMATE)			
LOCATION (AP	PROXIMATE)			
LOCATION (AP	PROXIMATE)		DATE	7-14-5

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

VERIFICATION INSPECTION		ACCEPT	REJECT	N/A
- AREA TO BE CLEARED IS STAKED BY THE SURVEY CREWS TO CONFORM WIT 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 OT OBSTRUCTIONS.	THER			
- 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	<del></del>	·		<del></del>
<del></del>				
LOCATION (APPROXIMATE)	M 440	4 a		c TG A
	MANAC	EMEN: AM	EEA COMPL	ETEN
LOCATION (APPROXIMATE)	Manac	EMEN: AM	EEA COMPL	ETES
LOCATION (APPROXIMATE) GRUBBEN STORM WATER	Manac	емел:- Ал	EEA COMPL	ETEN
LOCATION (APPROXIMATE) GRUBBEN STORM WATER	Manac	емель Ал	EEA COMPL	ETEN
LOCATION (APPROXIMATE) GRUBBEN STORM WATER	MANAC	емель: <u>А</u> л	ER COMPL	ETEN
LOCATION (APPROXIMATE) GRUBBEN STORM WATER	MANAC	емель: <u>А</u> л	EA COMPL	
LOCATION (APPROXIMATE) GRUBBEN STORM WATER	MANAC	емел»— Ал	EA COMPL	
LOCATION (APPROXIMATE) GRUBBEN STORM WATER	MANAC	емел»: An	EEA COMPL	
LOCATION (APPROXIMATE) GRUBBEN STORM WATER	MANAC	EMEN:- AM	EEA COMPL	
LOCATION (APPROXIMATE) GRUBBEN STORM WATER	MANAC	емел»— <i>Ал</i>	EEA COMPL	
LOCATION (APPROXIMATE) GRUBBEN STORM WATER	MANAC	EMENS - AM	EEA COMPL	
LOCATION (APPROXIMATE)  (DRUBBED STORM WATER  REMARKS  M. R. A	MANAC	емел» <u>А</u> л		
LOCATION (APPROXIMATE) GRUBBEN STORM WATER	Manac	EMEN: AM	DATE DATE	

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

VERIFICATION INSPECTION  - AREA TO BE CLEARED IS STAKED BY THE SURVEY CREWS TO CONFORM WITH THE CONTRACT DRAWINGS.		REJECT	Ì
THE SURVEY CREWS TO CONFORM WITH			
			-
- 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.	<del></del>		-
DUST CONTROL			
ACTION TAKEN N. DUST GENERATED			
COMPLETED CLEARING OF CAP ARE			
REMARKS No GRUBBING OR RAKING	WORK PLAN	NEEDED.	
			· <u></u>
·			<del></del>
INSPECTOR Chris Backy		DATE 2	)-/ <del>y</del>

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2
SHEET / 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).	V	-	
	-	.Ս <u>Լ</u> . - <del>ՍԼ</del>	10 1992	
		<b>PORTE</b>		

FORM A-2 SHEET \_\_\_\_ OF INSPECTION DATE 7-9-92 PLACEMENT 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 LEWELS ALLERMENT TO CHILD OVERVIEWT 4. LOCATION 3+00 -> 2+ 20 REMARKS \_\_\_\_\_ INSPECTOR \_ Chris Ball DATE 7-9-92-

REVIEWED BY

DATE Down 92

FORM A-2 PLACEMENT OF SOIL BENTONITE CUTOFF WALL

SHEET / OF Z
INSPECTION DATE 7-10-72

1	NAMED IA I	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		<del></del>	_
	- 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)	(2) / (2) /		
	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).	(3)_ <u>/</u>		
	- VISCOSITY OF THE SLURRY (2 TIMES PER DAY).	3) 7		<del></del>
	.UL 1 1992			
	RECEIVE 1			

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

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

	nt'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)	<u>~</u>		
	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)			
	DUST CONTROL DUST LEVELS ACCESSING	حـــــــــــــــــــــــــــــــــــــ		
	LOCATION 2+ZO - /+O		<del></del>	
	REMARKS None			<u></u>
			-	

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

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

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	<del></del>	<del></del>	_
	- WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR.			
	- SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.			<del>_</del>
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).			
	· •	PERECENTIES  (Res)	92 <b>1</b>	
		<del></del>	_	

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

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

int'd)	ACCEPT	REJECT	N/A
BACKFILL			
- SLUMP TEST (EVERY 500 CY) - DENSITY (EVERY 500 CY) - PERMEABILITY (SHELBY) (EVERY 1000 - SIEVE ANALYSIS (EVERY 500 CY)	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)		<del></del>	
TRAFFIC CAP			
- THICKNESS OF CAP (EVERY 300 FEET) - MOISTURE CONTENT (EVERY 250 CY) - IN-PLACE DENSITY (EVERY 250 CY) - PERMEABILITY (EVERY 500 CY)	<u>=</u>		
DUST CONTROL ACCEPTAGE			
LOCATION /+00 - 0+00			
REMARKS Nonz			<u>.</u>

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

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

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)	(2) :/ (1) // (1) //		
	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).	(z) <u>/</u>		
	- VISCOSITY OF THE SLURRY (2 TIMES PER DAY).	(z)	<del></del> .	

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

nt'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)	(1)		
- SLOPE - DISTANCE - CLAY CLOD SIZE - AGGREGATE SIZE	<del>\</del>		
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)	<u>/</u>		
TRENCH			
- VERTICALITY (EVERY 100 FEET)			
TRAFFIC CAP (SURRY WALL AUG.)			
- THICKNESS OF CAP (EVERY 300 FEET) - MOISTURE CONTENT (EVERY 250 CY) - IN-PLACE DENSITY (EVERY 250 CY) - PERMEABILITY (EVERY 500 CY)			
DUST CONTROL ACCEPTABLE			
LOCATION 0+00 -> 27+80			
REMARKS THE CUT FROM 27+80 > 27+	60 WAS Not	COMPLETE	٥,
INSPECTOR Tudenick Washie	mo Bail	DATE	7-14-9z
REVIEWED BY		ノ DATE	Shur

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

1.	MATERIAL	ACCEPT	REJECT	N/A
<u>.</u>	IMILITAL .			
	- BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY)			
	- ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY	<del></del>		
	- 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)	2)		
	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).			
	-	UL 1	ช 1392 2003	

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

(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)	RESULTS	PENDING.	
- SLOPE - DISTANCE - CLAY CLOD SIZE - AGGREGATE SIZE	<del></del>		
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)	Resours	PENOING	
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 NOWE REQUIRED			
4. LOCATION	·		
5. REMARKS SAMPLE OF KEY TAKEN AT	STA 2	2+00 FOR	
ATTERBERG LIMITS, ALGO TOOK SHE	LBY TUBES	FOR PERM	EABILITY
<del>-</del> ,			
INSPECTOR Tudencle Market	in Bette	Z C DATE	7-15-92
DEVIEWED BY		DATE	<u> </u>

FORM A-2
SHEET 1 OF 2
PLACEMENT OF SOIL BENTONITE CUTOFF WALL INSPECTION DATE 7-16-92

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)	<del>-</del> /-		
	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).			<del></del>
	Taul 4 of	 ⊶an <del>g</del>		
	DECE	WEN		

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

	BACKFILL - SLUMP TEST (EVERY 500 CY)	ACCEPT	REJECT	N/A
	- STUMD TEST (FUEDV 500 CV)			
	- 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	 Penonas	
<u>-</u>	TRENCH	,		
-	- VERTICALITY (EVERY 100 FEET)	<u> </u>		
j	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)			
. [	DUST CONTROL None REQUIRED		· ·	<u> </u>
. I	LOCATION STA. 26+40 -> 24+80			
. R	REMARKS CLAY KEY SAMPLES WERE TAK	KEN AT	24 too + 3	L5+00

	WATER TAX	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	<del></del>		
	- WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR.			
	- SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.		<del></del>	
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).			
	IUL 2 0 1992	•		



FORM A-2 SHEET 2 OF 2 INSPECTION DATE 7-11-92

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

ont'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)	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)	<del>_</del>		
TRENCH			
- VERTICALITY (EVERY 100 FEET)			<del></del>
TRAFFIC CAP			,
- THICKNESS OF CAP (EVERY 300 FEET) - MOISTURE CONTENT (EVERY 250 CY) - IN-PLACE DENSITY (EVERY 250 CY) - PERMEABILITY (EVERY 500 CY)		=	
DUST CONTROL None Requires		. <u> </u>	
	o' Due	TODAY	
REMARKS NOWE			

INSPECTOR Frederick & Markles Chris Ba	la
REVIEWED BY Collin R. Suxon	ユ

DATE 7-17-92 DATE 1/20/92

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

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

1.	MATERIAL	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.	<u>/</u>		
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)	<del>/</del>		
	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).			
	-	DEC.		

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

PLACEMENT OF SOIL BENTONITE CUTOFF WALL (cont'd)

(00	one a)	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	<u>/</u>		
	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)			<del></del>
	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 NOWE REQUIRED			
4.	LOCATION STATION			
5.	REMARKS DUG 160' OF TRENCH TODAY	. 913 -	To DATE.	
				<del></del>

INSPECTOR	- redenick	Markle	Minio	Buly
	Collin	01/		

DATE 7-20-92

DATE 7/21/92

FORM A-2
SHEET / OF Z
PLACEMENT OF SOIL BENTONITE CUTOFF WALL INSPECTION DATE 7-21-92

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	<del></del> ,		
	- 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).			<u>-</u>
	- VISCOSITY OF THE SLURRY (2 TIMES PER DAY).			

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

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

	ACCEPT	REJECT	N/
BACKFILL			
- SLUMP TEST (EVERY 500 CY) - DENSITY (EVERY 500 CY) - PERMEABILITY (SHELBY) (EVERY 1000 CY) - SIEVE ANALYSIS (EVERY 500 CY)	<del></del>		
- SLOPE - DISTANCE - CLAY CLOD SIZE - AGGREGATE SIZE	<del>-/</del>		
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	Resours P.	ENDING	_
OF WALL LENGTH)	Pro-		
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)			
DUST CONTROL None REQUIRED			
LOCATION STATION 22+00 -> 19+80	<u> </u>		
REMARKS			

10.18	
INSPECTOR Traderick & Mostile Chin Baila	DATE
REVIEWED BY Collin P. Savion	DATE

E 7-21-92 E 7/22/92

FORM A-2
SHEET 1 OF Z
INSPECTION DATE 1-22-92

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).			
	· •			

(C	ont'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)	10 1200	RESS	
	- SLOPE - DISTANCE - CLAY CLOD SIZE - AGGREGATE SIZE	<del>-</del>		
	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 PROGR	 	
	TRENCH	/		
	- VERTICALITY (EVERY 100 FEET)			
	TRAFFIC CAP ( PLUE )			
	- 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 SL	DRRY WALL	<u>-</u>	
4.	LOCATION STATION 19+80 -> 18+00			<del></del>
5.	REMARKS DENSITY OF SLURRY IN TRENCH AT STA'S 19+40 BUT ROBER NORTH S (INCREASING DENSITY IN MEASUREMENT IN MAR	AID IT WA	SOK.	<u> </u>
	JUL 2:3:1992	,		

INSPECTOR Fuderick Washit Mis Boly
REVIEWED BY Collin & Sukon

DATE 7-22-42

DATE 1/23/92

FORM A-2 SHEET 1 OF Z INSPECTION DATE 1-23-92

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	<del></del>		/
	- 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).			<del></del>
	11 2 4 1992 PECENTER			

SHEET 2 OF Z
INSPECTION DATE 7-23-92

- (6	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)	IN PROG.	ress	
	- SLOPE - DISTANCE - CLAY CLOD SIZE - AGGREGATE SIZE	<u>/</u>		
	KEY IN THE CLAY			
	<ul> <li>DEPTH TO CLAY (EVERY 20 FEET)</li> <li>SAMPLE OF CLAY FOR RECORD (EVERY 100 FEET OF WALL LENGTH)</li> <li>ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH)</li> </ul>	IN PROGRE	 	
	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)			<u></u>
3.	DUST CONTROL None REQUIRED			
4.	LOCATION Due Troy STATION 18100 To	16+80		
5.	REMARKS PERMEABILITY TEST RESULTS RECEIVE	D FER ST.	4770W 26+0	ಲ
		<del></del>		

REVIEWED BY Collins & Surface

DATE 7-23-92

DATE 7/24/92

FORM A-2 SHEET / OF Z INSPECTION DATE 7-24-92

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		<del>,</del>	<u>/</u>
	- 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 FER 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 3 7 1992



SHEET 2 OF Z INSPECTION DATE 7-24-42

	cont'd)			
		ACCEPT	REJECT	N/A
	BACKFILL			
	- SLUMP TEST (EVERY 500 CY) - DENSITY (EVERY 500 CY) - FERMEABILITY (SHELBY) (EVERY 1000 CY) - SIEVE ANALYSIS (EVERY 500 CY)	7ES72 111	Prochess	
	- 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 FEETOF WALL LENGTH)		Printss	
	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)			<u>/</u>
3.	DUST CONTROL Nove Requires			
4.	LOCATION STATION 16+80 TO 15+40			
5.	REMARKS DUG 140' OF TRENCH / 1563' TO	O DATE.	SIEVE ANALY	SIS
	AT STA ZOTOO PASSED.			

REVIEWED BY Collin F. Surrow DATE 7-24-92

FORM A-2
SHEET 1 OF 2
INSPECTION DATE 7-27-92

			22700	11 / 3
1.	MATERIAL	ACCEPT	REJECT	И/А
	- BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY)	1	·	
	- ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY		<del></del>	/
	- 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)	<del>//</del>		
	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).		<u> </u>	
	JUL 3 1992			

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

SHEET 2 OF Z

INSPECTION DATE 7-21-92

	cont'd)		22202	:
<del></del>		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 Prosi	? <u>E</u>	
	- SLOPE - DISTANCE - CLAY CLOD SIZE - AGGREGATE SIZE	<del>-</del>		
	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 PROGR		
	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)			<del></del>
3.	DUST CONTROL NONE REQUIRED	,		
4.	LOCATION STATION 15+40 To 14+80	(60'000	C TODAY)	<del></del>
5.				p 15
	COMPLETED PLAN TO RESUME . TONDAY & AS IT IS UNTIL MONDAY W/ DENSITY OF TRENCH SWEY ADDED TO THE TRENCH IF THE SLURRY LE	CHECKEOMAY, BO CHECKEOMAY, BO CHEL DROPS	EBRCH WILL ACKFILL WIR SIGNIFICANS	REMAIN L BE.
	REVIEWED BY Collin f. skelhou	Bally	DATE 7-	128/92

FORM A-2 SHEET 1 OF Z INSPECTION DATE 7-29-92

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).			
	· •			
				ļ

SHEET Z OF Z INSPECTION DATE 7-29-92 PLACEMENT OF SOIL BENTONITE CUTOFF WALL (cont'd) REJECT ACCEPT 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 PEQUIRED 4. LOCATION \_\_\_ REMARKS BACKFILLED TRENCH UP TO MAXIMUM DOTTH 45 BACKFILL SCOPE = 201.) JUL 2 9 1992 DATE 7-29-92 REVIEWED BY

FORM A-2 SHEET OF Z INSPECTION DATE 7-30-92

ľ				
	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.		<del></del> .	
2	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)			1
	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).			
				1

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SHEET 2 OF Z
INSPECTION DATE 7-30-92

PLACEMENT 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)	IN PROGRE		$\frac{1}{2}$
	- SLOPE - DISTANCE - CLAY CLOD SIZE - AGGREGATE SIZE			<del></del>
	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 PROGRE	ess	<u> </u>
	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 Requires			
4.	LOCATION N/A			
5.	REMARKS <u>UNTIL EXCAVATION</u> CONTINUES ON	LY SLURRY	DENSITY (	UTHE
	TRENCH) IS BEING PERFORMED. TRENCH WAS	PREPARED TO	, MINIMIZE	THE
	Effect OF A HEAVY RAIN.			
		<del></del> -		
	_		,	
	INSPECTOR Frederick & Worth / Market	and the	_ DATE <u>7</u>	- 30-92
	REVIEWED BY Collins ! Swhon		DATE J	/3/9.

SHEET / OF Z INSPECTION DATE 8-4-92 PLACEMENT OF SOIL BENTONITE CUTOFF WALL 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 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). 05 08

FCRM A-2

SHEET 2 OF Z INSPECTION DATE 8-4-92

(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)	IN PRO	c ress	
- SLOPE - DISTANCE - CLAY CLOD SIZE - AGGREGATE SIZE	<del></del>		
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 PRO	GRESS	
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)			
. DUST CONTROL None REQUIRED			
LOCATION STATION 14+80 TO 13+60			
. REMARKS DUG 120' OF TRENCH TODAY	RESUME	SLURRY	WALL
EXCAVATION TODAY AFTER I WEEK SUS	SPENSION		
INSPECTOR Ludwick Martin Chip	Ball	DATE	7-4-9z
REVIEWED BY Jollin P. Singer		DATE §	-5-52

FORM A-2
SHEET \_\_\_\_ OF \_\_\_

FLACEMENT OF SOIL BENTONITE CUTOFF WALL INSPECTION DATE \_\_\_\_\_\_\_\_

		* CCERT	REJECT	N/A
1.	MATERIAL	ACCEPT	KEUECI	И/п
	- 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.	<u> </u>		
	- 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)	<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).	1		
	- VISCOSITY OF THE SLURRY (2 TIMES PER DAY).		· ·	
	33 <b>3</b> ft ] 392			

SHEET 2 OF 2
INSPECTION DATE 5 ANG 92

<del></del>	(cont a)	ACCEPT	REJECT	N/A
_	BACKFILL			
	- SLUMP TEST (EVERY 500 CY) - DENSITY (EVERY 500 CY) - PERMEABILITY (SHELBY) (EVERY 1000 CY) - SIEVE ANALYSIS (EVERY 500 CY)	TU PR	CGRESS	
	- SLOPE - DISTANCE - CLAY CLOD SIZE - AGGREGATE SIZE	<del></del>		
	KEY IN THE CLAY	,		
	- DEFTH 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 PROGR	ES 5	
	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)  DUST CONTROL NONE REQUIRED			<u> </u>
3.	_			<del></del>
4. 5.		1903 To	DATE	
	INSPECTOR Fuderick Mostle (	Mm Boile	DATE S	

FORM A-2 SHEET / OF Z INSPECTION DATE 8-6-9Z

	· · · · · · · · · · · · · · · · · · ·			
1.	MATERIAL	АССЕРТ	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).			
	ing compa			
	DECENTED -			

PLACEMENT OF SOIL BENTONITE CUTOFF WALL (cont'd)

SHEET 2 OF 2 INSPECTION DATE Y-6-9Z

BACKFILL  - SLUMP TEST (EVERY 500 CY) - DENSITY (EVERY 500 CY) - PERMEABILITY (SHELBY) (EVERY 1000 CY) - PERMEABILITY (SHELBY) - 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 Name Required  4. LOCATION STA 12 +00 TO 10 +00  5. REMARKS Received Permeability Resolts For Statious 23 four And 20 foo,  ATTALMED. Duc Zoo' Of Trench Today Zoo' Date	(c	cont'd)		557500	17 / 2
- SLUMP TEST (EVERY 500 CY) - DENSITY (EVERY 500 CY) - PERMEABILITY (SHELBY) (EVERY 1000 CY) - SIEVE ANALYSIS (EVERY 500 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) - MOISTURE CONTENT (EVERY 250 CY) - IN-PLACE DENSITY (EVERY 250 CY) - PERMEABILITY (EVERY 500 CY)  3. DUST CONTROL NORE REQUIRED  4. LOCATION STA 12 too To 10 too			ACCEPT	REJECT	N/A
- 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 100 FEET) - MOISTURE CONTENT (EVERY 250 CY) - IN-PLACE DENSITY (EVERY 250 CY) - PERMEABILITY (EVERY 500 CY)  3. DUST CONTROL NORE REQUIRED  4. LOCATION STA 12 FOO TO 10 FOO		BACKFILL			
- 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) - MOISTURE CONTENT (EVERY 250 CY) - IN-PLACE DENSITY (EVERY 250 CY) - PERMEABILITY (EVERY 500 CY)  3. DUST CONTROL NONE REQUIRED  4. LOCATION STA 12 too To 10 too  5. REMARKS Received Permeability Resolts For Statious 23 too AND 20 too		- DENSITY (EVERY 500 CY) - PERMEABILITY (SHELBY) (EVERY 1000 CY)			
- 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 STA 12 FOO TO 10 FOO  5. REMARKS RECEIVED PERMEABILITY RESULTS FOR STATIOUS 23 FOO AND 20 FOO		- DISTANCE - CLAY CLOD SIZE	<u>/</u>		
- SAMPLE OF CLAY FOR RECORD (EVERY  100 FEET OF WALL LENGTH) - ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH)  TRENCH - VERTICALITY (EVERY 100 FEET) - MOISTURE CONTENT (EVERY 250 CY) - IN-PLACE DENSITY (EVERY 250 CY) - PERMEABILITY (EVERY 500 CY)  3. DUST CONTROL NONE REQUIRED  4. LOCATION STA /Z +00 TO 10+00  5. REMARKS RECEIVED PERMEABILITY RESULTS FOR STATIOUS 23+00 AND 20+00.		KEY IN THE CLAY	_		
- 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 STATIOUS 23+00 AND 20+00.		- SAMPLE OF CLAY FOR RECORD (EVERY 100 FEET OF WALL LENGTH) - ATTERBERG LIMITS (EVERY 500 FEET	IN Proc	  R <b>E</b> S S	
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 STATIOUS 23+00 AND 20+00.		TRENCH			
- 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 STATIOUS 23+00 AND 20+00		- VERTICALITY (EVERY 100 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 STATIOUS 23+00 AND 20+00.		TRAFFIC CAP			,
4. LOCATION STA 12+00 TO 10+00  5. REMARKS RECEIVED PERMEABILITY RESULTS FOR STATIOUS 23+00 AND 20+00.		- MOISTURE CONTENT (EVERY 250 CY) - IN-PLACE DENSITY (EVERY 250 CY)			<u></u>
5. REMARKS RECEIVED PERMEABILITY RESULTS FOR STATIOUS 23-00 AND 20+00	3.	DUST CONTROL NONE REQUIRED	<u>-</u>		
	4.	LOCATION STA 12+00 TO 10+00			
ATTACHED. DUG 200' OF TRENCH TODAY / ZIO3' TO DATE	5.	REMARKS RECEIVED PERMEABILITY RESULTS FOR	STATIONS 2	3 tou AND &	10+00
		ATTACHED. DUG ZOO' OF TRENCH TODAY	2103' TO	DATE	

REVIEWED BY Collin P. Saron

DATE 8-6-92
DATE 8-7-92

FORM A-2 SHEET 1 OF Z 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.			
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 3 1992	• •		
	CS T			

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

(cont'd)

SHEET 2 OF 2

INSPECTION DATE \$-7-92

ACCEPT REJECT N/A

(C	ont'a)	ACCEPT	REJECT	N/A
			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,
	BACKFILL			
	- SLUMP TEST (EVERY 500 CY)			
	- DENSITY (EVERY 500 CY) - PERMEABILITY (SHELBY) (EVERY 1000 CY)	· N	PROGRESS	
	- SIEVE ANALYSIS (EVERY 500 CY)		<del></del>	
	- SLOPE			<del> </del>
	- DISTANCE - CLAY CLOD SIZE		<del></del>	
	- 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 PROGR	ESS	
	TRENCH			
	- VERTICALITY (EVERY 100 FEET)			
	TRAFFIC CAP			
	- THICKNESS OF CAP (EVERY 300 FEET)			
	- MOISTURE CONTENT (EVERY 250 CY) - IN-PLACE DENSITY (EVERY 250 CY)			<del></del>
	- PERMEABILITY (EVERY 500 CY)			Z
3.	DUST CONTROL Nome Requires			
4.	LOCATION STATION 10100 TO 8+00			
5.	REMARKS			
	-			
	INSPECTOR Chin Baile		DATE <u>8</u>	-7-92_
	00.01		DATE 8	
	REVIEWED BY Colling Survey		DATE <u>0</u>	1 12

FORM A-2
SHEET / OF 2
INSPECTION DATE 8-8-97

1.	MATERIAL	ACCEPT	REJECT	N/A
	- BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY)	_	<del></del>	
	- 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).			<u></u>
	AH6  1 1992			
	AUG 1 () 1992			

SHEET 2 OF Z
INSPECTION DATE 8-8-92

PLACEMENT OF SOIL BENTONITE CUTOFF WALL (CODI'd)

(cont'd) ACCEPT REJECT N/A -BACKFILL - SLUMF TEST (EVERY 500 CY) - DENSITY (EVERY 500 CY) - FERMEABILITY (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 IN PROGRESS 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 REQUIES 4. LOCATION \_\_\_\_\_ 8+00 - 6+00 5. REMARKS None REVIEWED BY Collins

. OF <u>Z</u> SHEET INSPECTION DATE 8-10-92 PLACEMENT OF SOIL BENTONITE CUTOFF WALL ACCEPT REJECT N/A 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. 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 1 1 1992

FORM A-2

SHEET \_ Z\_ OF PLACEMENT OF SOIL BENTONITE CUTOFF WALL INSPECTION DATE 8-10-92 (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) IN PROGRESS - 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) DUST CONTROL NONE REQUIRED LOCATION STATION 6+00 TO 5+30 REMARKS ENDED TRENCH AT 5+30. DUG 70' TODAY / 2583' TO DATE. DATE 8-11-92 REVIEWED BY

FORM A-2 SHEET \_ OF \_ I INSPECTION DATE 8-26-92\_

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).			
	MHH 18 18 1852			
	PECENTE			

SHEET \_ 2\_ OF \_ INSPECTION DATE 8-24-92 PLACEMENT OF SOIL BENTONITE CUTOFF WALL REJECT N/A ACCEPT 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 \_\_\_\_\_\_ 4. LOCATION \_\_\_\_\_\_\_\_ 5. REMARKS PERSONED PROCESSED CLAY GREATION ON CLAY FROM SLULY IMPOUNDMENT - STATIONS 3+00 \$ 4+00 RESULTS ACCEPTABLE. 57A. 3+00 570. 4400 1. PASSING NO. 200 = 40.3%. 1. PASSING No. 200 = 40.11. DATE 8-26-92 Nov DATE 8-27-92

REVIEWED BY \_\_\_

FORM A-2 SHEET OF PLACEMENT OF SOIL BENTONITE CUTOFF WALL 9-9-42 INSPECTION DATE ACCEPT REJECT N/A 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. 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).

SHEET \_\_\_\_\_ OF \_\_\_\_\_ INSPECTION DATE 9-9-92 PLACEMENT OF SOIL BENTONITE CUTOFF WALL 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 Nove 4. LOCATION \_ 5. REMARKS ANCHOR TRENCH EXCAVATION WAS MODIFIED TO PUT A RABIUS ON INSIDE AND CUTSIDE EDGES. DENSITY TEST PERFORMED AT STA 20180 9 PROCTOR 90.1 117.4 PCF 87 MOISTURE 11.4 REVIEWED BY

FORM A-2 / of SHEET INSPECTION DATE PLACEMENT OF SOIL BENTONITE CUTOFF WALL ACCEPT REJECT N/A 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. 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).

INSPECTION DATE 9-2-92 PLACEMENT OF SOIL BENTONITE CUTOFF WALL 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) DUST CONTROL NONE REQUIRED LOCATION \_\_\_\_\_ @ 574. 26+00 - 24+00 5. REMARKS \_\_\_\_\_ PERFORMED. DENSITY TEST AT STA. 25120 ON TRAFFIC CAP PLUG: MOCTON = 130.5 ALE DENSITY = 91.9.1. = 120.0 PCF DEPTH = 4" M.C. = 9.0%. DATE 9-3-12 INSPECTOR \_ REVIEWED BY

SHEET 2 OF 2

FORM A-2 SHEET \_\_/ OF 2 PLACEMENT OF SOIL BENTONITE CUTOFF WALL INSPECTION DATE 9-8-92 ACCEPT REJECT N/A 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. 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).

SHEET \_ Z\_\_ OF \_ Z\_\_ PLACEMENT OF SOIL BENTONITE CUTOFF WALL INSPECTION DATE 9-8-92 (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) DUST CONTROL AS NEEDED LOCATION <u>24+00</u> - 19+00 REMARKS \_\_\_ PERFORMED DENSITY TEST C STA. 19+50 ON TRAFFIC CAP PLUG: PROCTOR = 130.3 PCF DENSITY = 90.3 1/- = 117.7 PCF DEPTH = 4" MC = 9.7 /. INSPECTOR \_ China Da DATE 9-3-12 REVIEWED BY

FORM A-2 SHEET \_\_/ OF 2 PLACEMENT OF SOIL BENTONITE CUTOFF WALL INSPECTION DATE 9-16-92 ACCEPT REJECT N/A 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. 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).

SHEET 2 OF 2 INSPECTION DATE 9-16-92 PLACEMENT 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) TO BE TESTED 16T TO 85 TESTED - PERMEABILITY (EVERY 500 CY) DUST CONTROL 45 LEEGES LOCATION AMONIMATELY 18+30 - 17+50 REMARKS \_\_\_\_\_\_ SEP 1 7 1992 DATE 9-16-92 INSPECTOR

SHEET INSPECTION DATE 10-1-92 PLACEMENT OF SOIL BENTONITE CUTOFF WALL ACCEPT REJECT N/A 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. 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 PEADY 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-0 3 1992

FORM A-2

1 OF 2

		ACEMENT OF SOIL BENTONITE CUTOFF WALL	SHEET	ON DATE 10	<u>-1-92</u>
<u>.</u>			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			
<b>-</b>		- 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)		TANKU & STA.	
\$4 \$4		TRENCH			
á		- VERTICALITY (EVERY 100 FEET)			
ş		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		<del></del>	
X	4.	LOCATION 5+70 -> 5+25		<del> </del>	<del></del>
- -	5.	REMARKS RESTANTED SWAM NAME TO	Dry. No	BRAFIL	
Å		MAS MIXED.	<u> </u>		
ALC: N					
duka			<u></u> .		
Service Control		-			
		INSPECTOR Charles		DATE _	110-
•		REVIEWED BY Ollin F. Sako	w	DATE / <u>0</u> /	2472

Ber.

FORM A-2 SHEET \_\_/\_ OF 2 INSPECTION DATE 10-2-92 PLACEMENT OF SOIL BENTONITE CUTOFF WALL ACCEPT REJECT N/A 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. 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 0 5 1992

BACKFILL  - SLUMP TEST (EVERY 500 CY) - DENSITY (EVERY 500 CY) - PERMEABILITY (SHELBY) (EVERY 1000 CY)	EVERY 1000 CY)  RESOLTS  RESOL		CEMENT OF SOIL BENTONITE CUTOFF WALL		ON DATE 10	
- 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) - MOISTURE CONTENT (EVERY 300 FEET) - MOISTURE CONTENT (EVERY 250 CY) - IN-PLACE DENSITY (EVERY 250 CY) - PERMEABILITY (EVERY 500 CY)  3. DUST CONTROL NONE REQUIRED	FEET)  FEET)  SOO FEET  SOO FEET  SOO FEET  SOO SEET  SOO SEED  SOO SEED			ACCEPT	REJECT	N/A
- 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) - MOISTURE CONTENT (EVERY 300 FEET) - MOISTURE CONTENT (EVERY 250 CY) - IN-PLACE DENSITY (EVERY 250 CY) - PERMEABILITY (EVERY 500 CY)  3. DUST CONTROL NONE REQUIRED	FEET)  FEET)  SOO FEET  300 FEET)  250 CY)  250 CY)  CY)  SUIRED  TO 3+80		BACKFILL			
- 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) - MOISTURE CONTENT (EVERY 300 FEET) - MOISTURE CONTENT (EVERY 250 CY) - IN-PLACE DENSITY (EVERY 250 CY) - PERMEABILITY (EVERY 500 CY) - PERMEABILITY (EVERY 500 CY) - DERMEABILITY (EVERY 500 CY)	EVERY 1000 CY)  RESULTS PENDING  FEET)  RD (EVERY  500 FEET  300 FEET)  250 CY)  250 CY)  CY)  COURED  S TO 3+80	4.		/		
- 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)  DUST CONTROL NOW REQUIRED	FEET)  SOO FEET  300 FEET)  300 FEET)  250 CY)  250 CY)  CY)  COURED  STO 3+80	•		<del></del>	<del></del>	
- 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)  DUST CONTROL NONE REQUIRED	FEET)  300 FEET)  300 FEET)  250 CY)  250 CY)  CY)  CU:RED				<del></del>	-/-
- 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) - MOISTURE CONTENT (EVERY 300 FEET) - MOISTURE CONTENT (EVERY 250 CY) - IN-PLACE DENSITY (EVERY 250 CY) - PERMEABILITY (EVERY 500 CY)  DUST CONTROL NONE REQUIRED	FEET)  300 FEET)  300 FEET)  250 CY)  250 CY)  CY)  CU:RED		- SIFVE ANALYSIS (EVERY 500 CV)	RESULTS	PENDING	
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) - MOISTURE CONTENT (EVERY 300 FEET) - MOISTURE CONTENT (EVERY 250 CY) - IN-PLACE DENSITY (EVERY 250 CY) - PERMEABILITY (EVERY 500 CY)  DUST CONTROL NOW REQUIRED	FEET)  300 FEET)  250 CY)  250 CY)  CY)  00:RED		STETE MADESTO (STERT 500 CT)		<del></del>	
**EY 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)  **DUST CONTROL NOW REQUIRED	FEET)  300 FEET)  250 CY)  CY)  COLLED  STO 3+80		- SLOPE			
**EY 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)  DUST CONTROL NOW REQUIRED	FEET)  300 FEET)  250 CY)  CY)  COLLED  STO 3+80			<del></del>		
**REY 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)  DUST CONTROL NOW REQUIRED	FEET)  300 FEET)  250 CY)  CY)  COLLED  STO 3+80			<del></del>		
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) - MOISTURE CONTENT (EVERY 300 FEET) - MOISTURE CONTENT (EVERY 250 CY) - IN-PLACE DENSITY (EVERY 250 CY) - PERMEABILITY (EVERY 500 CY)  DUST CONTROL NOW REQUIRED	FEET)  300 FEET)  250 CY)  CY)  COLLED  STO 3+80		- AGGREGATE SIZE			
- 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)  DUST CONTROL NONE REQUIRED	SOO FEET		KEY IN THE CLAY			
- 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)  DUST CONTROL NONE REQUIRED	SOO FEET		- DEPTH TO CLAY (EVERY 20 FEET)			
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)  DUST CONTROL NOW REQUIRED	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)  DUST CONTROL NONE REQUIRED	300 FEET) 250 CY) 250 CY) CY)  OURED  5 TO 3+80					
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)  DUST CONTROL NONE REQUIRED	300 FEET) 250 CY) 250 CY) CY)  OURED  5 TO 3+80			70 3E	TARRA	
- 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)  DUST CONTROL NONE REQUIRED	300 FEET) 250 CY) 250 CY) CY)  OURED  5 TO 3+80		OF WALL LENGTH)			
TRAFFIC CAP  - THICKNESS OF CAP (EVERY 300 FEET)  - MOISTURE CONTENT (EVERY 250 CY)  - IN-PLACE DENSITY (EVERY 250 CY)  - PERMEABILITY (EVERY 500 CY)  DUST CONTROL None Required	300 FEET) 250 CY) 250 CY) CY)  OURED  5 TO 3+80		TRENCH	<i>,</i>		
- THICKNESS OF CAP (EVERY 300 FEET) - MOISTURE CONTENT (EVERY 250 CY) - IN-PLACE DENSITY (EVERY 250 CY) - PERMEABILITY (EVERY 500 CY)  DUST CONTROL None Required	5 TO 3+80		- VERTICALITY (EVERY 100 FEET)			
. DUST CONTROL None Required	5 TO 3+80		TRAFFIC CAP			
. DUST CONTROL None Required	5 TO 3+80		- MOISTURE CONTENT (EVERY 250 CY) - IN-PLACE DENSITY (EVERY 250 CY)	<u></u>		
	5 TO 3+80		Dug governor Nove Ray 460		•	
LOCATION TROM 5425 TO 3480						<del></del>
	IND BACKFILL SAMPLES.					
. REMARKS TOOK KEY AND BACKFILL SAMPLES.			REMARKS TOOK KEY AND BACKFIL	L SAMF	LES.	
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INSPECTOR Trederick Mouth DATE 1	DATE 10-2-92	]	INSPECTOR Trederick Worth	<u> </u>	DATE _/	7-2-82
	DATE 10-2-92 Perhon DATE 10/5/92		0000	<u> </u>		

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SHEET \_\_/\_ OF INSPECTION DATE 10-3-92 PLACEMENT OF SOIL BENTONITE CUTOFF WALL ACCEPT REJECT N/A 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. 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 0 5 1992

FORM A-2

	PIACEMENT OF SOIL BENTONITE CUTOFF WALL (cont'd)	SHEET 2 OF Z INSPECTION DATE 10-3-92
		ACCEPT REJECT N/A
	BACKFILL	
4	- SLUMP TEST (EVERY 500 CY) - DENSITY (EVERY 500 CY) - PERMEABILITY (SHELBY) (EVERY 1000 CY) - SIEVE ANALYSIS (EVERY 500 CY)	TO BE TOUGH SAMPLES TAKEN TESTS TO BE-CONFICTED
ľ	- SLOPE - DISTANCE - CLAY CLOD SIZE - AGGREGATE SIZE	
:	KEY IN THE CLAY	
) Administra	- 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)	70 BE 72RE
* Septiment	TRENCH	
į.	- VERTICALITY (EVERY 100 FEET)	
j <sup>a</sup>	TRAFFIC CAP	
) F	- THICKNESS OF CAP (EVERY 300 FEET) - MOISTURE CONTENT (EVERY 250 CY) - IN-PLACE DENSITY (EVERY 250 CY) - PERMEABILITY (EVERY 500 CY)	Sample Token or POD
ľ	3. DUST CONTROL NONE REQUES	·
400	4. LOCATION From 3+80 70 2+65 -	EXCAVATION COMPLETE
۲. الإ	Nendry 10 -3.	FILLING WILL BE COMPLETED
No.		
k'	·	
No.	INSPECTOR And Bath REVIEWED BY Collin F. Surhow	DATE 10/5/92

SHEET 1 OF 2 INSPECTION DATE 10-5-92 PLACEMENT OF SOIL BENTONITE CUTOFF WALL ACCEPT REJECT N/A 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. 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 0 6 1992

FORM A-2

PLACEMENT OF SOIL BENTONITE CUTOFF WALL INSPECTION DATE 10-5-92 (cont'd) ACCEPT REJECT 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 SAMPLES BEING TESTES 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) DUST CONTROL NONE REQUIRED LOCATION \_\_\_\_\_ CAST 50 REMARKS BACKFILLED LAST SO FEET. FINAL TEST RESULTS OF BACKFILL GRADATIONS ARE ATTACHED For STATIONS 5+35, 5+00 \$ 2+80. DATE 10-5-92 INSPECTOR TAX REVIEWED BY Collin

SHEET \_ 2

\_ OF 2

	PLACEMENT OF SOIL BENTONITE CUTOFF WALL	FORM A-2 SHEET INSPECTI	ON DATE 1	2-6-42
	1. MATERIAL	ACCEPT	REJECT	N/A
j.	- 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.		-	
# # # # # # # # # # # # # # # # # # #	<ul> <li>SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.</li> </ul>			
4	2. QC AND VERIFICATION TESTINGS			
Ŷ	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).	<del></del>		/
et est	- VISCOSITY OF THE SLURRY (2 TIMES PER DAY).			
T Para de la companya				
			0 7 199 <u>2</u>	
T C				

SHEET 2 OF 2 PLACEMENT OF SOIL BENTONITE CUTOFF WALL INSPECTION DATE 10-6-92 (cont'd) REJECT ACCEPT N/A BACKFILL - SLUMP TEST (EVERY 500 CY) - DENSITY (EVERY 500 CY) - PERMEABILITY (SHELBY) (EVERY 1000 CY) TOOK SAMPLES - 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) RESULTS - 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) RESULTS - PERMEABILITY (EVERY 500 CY) None REQUIRED DUST CONTROL \_\_\_\_ LOCATION \_\_STA 3180 AND 5100 REMARKS TOOK PERMEABILITY SAMPLES AT STA 3+80 AND 5+00 SENT TO GTX TODAY. DATE (0-6-92 DATE /0/ REVIEWED BY

FORM A-2 SHEET \_\_\_ OF \_\_\_ INSPECTION DATE 10-8-92 PLACEMENT OF SOIL BENTONITE CUTOFF WALL ACCEPT REJECT N/A 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. 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 7 8 1992

SHEET Z OF Z INSPECTION DATE 10-8-92 PLACEMENT OF SOIL BENTONITE CUTOFF WALL (cont'd) ACCEPT REJECT 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) RESULTS - ATTERBERG LIMITS (EVERY 500 FEET AWAITING 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) NONE REQUIRED DUST CONTROL \_\_\_\_ LOCATION REMARKS DENSITY TESTS WERE TAKEN IN THE ANCHOR TRENCH PLACED TODAY, Z PASSED AND ROCER NORTH APPROVED THE TRENCH. ON L-LINE 8" DEEP STANDARD PROCTOR 130.3 PCF % DENSITY 69.2% - FAILED # Z 20' NORTH OF H-LINE 8" DEEP A. & DENSITY 88.6% - FAILED (AREA RECOMPACTED) B. 70 DENKITY 92.190 - PASS NE 12" DEEP % DENSITY 90.0% - PASS J-LINE REVIEWED BY

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2 SHEET / OF / INSPECTION DATE 10-22-92

	<u></u>			
1.	MATERIAL	ACCEPT	REJECT	N/A
	- BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY)		<u> </u>	_
	- ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY			
	- WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR.	<del></del>		
	- 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).			
	-			
	John D. Fox (LeoS)	inte)	10-23-1	<del>7</del> 2

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SHEET \_/ OF \_/

PLACEMENT OF SOIL BENTONITE CUTOFF WALL INSPECTION DATE 10-22-92 REJECT ACCEPT 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 \_\_\_\_ ~ /4 4. LOCATION N/A 5. REMARKS TEST RESULTS Swany war PERMEASILITY ALSO ATTATEMEN IS TITE PERMEASILITY TESTS TO BE PERFORMED ON THE TRAFFIC CAP. RESULTS MA AS FOLINS: 5TA. 3+80 : K = 5×10 Enfor - SLUNY WAR K = 9 X10-80/SE - SLVAY WARE

K = 9 X10-80/SEC - TRAFFIC CAP 5+00: DATE 10-72-92 INSPECTOR DATE 10-23-92

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2
SHEET / OF 2
INSPECTION DATE /0-23-92

_			·· <del>····</del>	
1.	MATERIAL	ACCEPT	REJECT	N/A
	- BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY)			<u> </u>
	- ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY			~
	- 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.			_
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)			1111
	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).		<del></del>	
	- VISCOSITY OF THE SLURRY (2 TIMES PER DAY).			
	John L. Fox 10- Loo Synta	24-92 Tes		

SHEET 2 OF Z INSPECTION DATE 10-23-92

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

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) 4. LOCATION \_\_\_\_STA.3+00 5. REMARKS 1.) ATTATCHED ALZ THE RESULTS OF THE ATTERBELG LIMITE IFSTS PERFORMED ON A SMPLE OF KEY MATERIAL TAKEN FROM THE MENCH AT STA. 3+00. 2-) ALSO PENSONED 2 DENSITY TESTS ON TRAFFIC CAP. RESULTS ARE AS FOLLOWS: LOCATED DLY DENSITY 1. Procon " X" ८८ 15 129.5 PCF 99.4% "V" GRID 118.5 PCF 90.9% DATE 10-23-92 INSPECTOR \_\_ DATE 16-24-92 REVIEWED BY

	MATERIAL	ACCEPT	REJECT	N/A
1.	- 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).	<del></del>		
	· -			
				i

SHEET 2 OF 2 INSPECTION DATE 10-28-92

PLACEMENT OF SOIL BENTONITE CUTOFF WALL (cont'd)

<u>         (                           </u>	cont d)	ACCEPT	REJECT	N/A			
	DACVETLI			.,,			
-	BACKFILL  - SLUMP TEST (EVERY 500 CY) - DENSITY (EVERY 500 CY) - PERMEABILITY (SHELBY) (EVERY 1000 CY) - SIEVE ANALYSIS (EVERY 500 CY)			4			
	- 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)			<del>_</del>			
	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)	<u></u>					
3.	DUST CONTROL None REQUIRED		· 				
4.	LOCATION BETWEEN GRIDGINES AA AN	0 1000 An	10 AT 1	<u>∞</u>			
5.	REMARKS DENSITY TESTS PASSED						
	TEST PERFORMED AT 10"						
1.)	BETWEEN AA AND 1000 DD = 125.2	PCF 96	% DENSI	TY			
2.) AT 1000 DD=119.3 PCF 91.6% DENSITY							
INSPECTOR traderick   Waster DATE 10-28-92  REVIEWED BY John & For (Lastynter) DATE 10-28-92							

FORM A-2 SHEET **Z**-OF PLACEMENT OF SOIL BENTONITE CUTOFF WALL INSPECTION DATE 10-29-92 ACCEPT REJECT N/A MATERIAL - BENTONITE: MANUFACTURER'S OA 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. 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).

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PLACEMENT OF SOIL BENTONITE CUTOFF WALL

SHEET Z OF Z INSPECTION DATE 10-29-92

70	ont a)			
<b>-</b> ÷		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			
<b>T</b> ·	- 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)			
<b>.</b>				
	TRENCH			
•	- VERTICALITY (EVERY 100 FEET)			
	•			
•	TRAFFIC CAP			
<b>]</b> .	- THICKNESS OF CAP (EVERY 300 FEET)	<i></i>		
1	- MOISTURE CONTENT (EVERY 250 CY)	<u></u>		
	- IN-PLACE DENSITY (EVERY 250 CY)			
	- PERMEABILITY (EVERY 500 CY)		<del></del>	<del></del>
3.	DUST CONTROL NONE REDUISE		·	
4.	LOCATION " /" CRID TO 0/5 800			
5.	DEMARKS Track The selection of the			
	REMARKS PLACED PLUK ONTOP OF SL	my unic		
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<u>.</u>	_			1
	10.12			}
<u>l</u> .	INSPECTOR Mo Date	<del></del>	DATE _	-21-92
ž.	REVIEWED BY John J. tox SeoInte	. )	DATE 10	- 30-92
	KEVIENEU DI WIND W. VII	<del>`</del>	<u> </u>	

FORM A-2 SHEET \_/ OF 2 INSPECTION DATE 10- 20-92 PLACEMENT OF SOIL BENTONITE CUTOFF WALL ACCEPT REJECT N/A MATERIAL 1. - 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. 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

SHEET 2 OF 2 INSPECTION DATE 6-30-92

ont'd)	ACCEPT	REJECT	N/A
	ACCEFI	NAO ECI	
BACKFILL			•
- SLUMP TEST (EVERY 500 CY)	<del></del>		
- DENSITY (EVERY 500 CY) - PERMEABILITY (SHELBY) (EVERY 1000 CY)	<del></del>	<del></del>	
- SIEVE ANALYSIS (EVERY 500 CY)			
- SLOPE			
- DISTANCE			س
- CLAY CLOD SIZE	<del></del>		
- 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)		_	
		<del></del>	
TRAFFIC CAP	_		
- THICKNESS OF CAP (EVERY 300 FEET)			
- MOISTURE CONTENT (EVERY 250 CY) - IN-PLACE DENSITY (EVERY 250 CY)			
- PERMEABILITY (EVERY 500 CY)			
DUST CONTROL NONE RESUMED			
· ·····	<del> </del>		
LOCATION 0/5 800 - 4/5 60	<u> </u>		
REMARKS PLACES TRAFFIC CAP PLU	C OVER C	sund was	
	••		
INSPECTOR AND BOTTOM		DATE /	10-30-97
II MT (HAL)			
REVIEWED BY	<u> </u>	DATE <u>//</u>	/-K-12

SHEET / OF Z INSPECTION DATE 10-31-92 PLACEMENT OF SOIL BENTONITE CUTOFF WALL 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 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).

FORM A-2

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

SHEET \_\_\_\_ OF \_\_\_\_ INSPECTION DATE \_/0-31-92\_\_

<u>- (c</u>	ont'd)			
		ACCEP'I	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			
s.	- 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 Nows Resumes	·	· · · · · · · · · · · · · · · · · · ·	
4.	LOCATION Norm SIDE OF	c 5178_	<del> </del>	
5.	REMARKS PLACED TRAFFIC CAP PLUS AVE	c sunny wa	u ALEO	
	TOOK SHELDY TIBES FOR P	EMBASILITY	TESTING	
	From TRAFFIC CAP PUR Q of	ls 850.	•	
	_			
}	INSPECTOR And Sales	£.)	_ DATE <u>//</u>	

FORM A-2 SHEET / OF PLACEMENT OF SOIL BENTONITE CUTOFF WALL INSPECTION DATE 11-1-92 ACCEPT REJECT N/A 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. 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).

SHEET \_ 2\_ OF \_ INSPECTION DATE 11-1-92 PLACEMENT 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 NOVE REDUNES 4. LOCATION North Side of Size 5. REMARKS PLACES TRAPPE CAP PLUE OVER SLUTHY WALL -DATE 11-2-92

DATE //- 2-92

SHEET \_\_/\_ OF \_\_Z\_ INSPECTION DATE 11-12-92 PLACEMENT OF SOIL BENTONITE CUTOFF WALL ACCEPT REJECT N/A 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. 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).

FORM A-2

NOV 1 3 1992

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

SHEET 2 OF 2
INSPECTION DATE 11-12-92

<u>- (c</u>	ont'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)			<u>=</u>
3.	DUST CONTROL NOME REQUIRED		·	
4.	LOCATION SLURRY WALL STATION 2:	+50		
5.	REMARKS RESULTS OF 2" FEMENDILITY	TEST PEN	comeo on	<del></del>
	SURLY WAR THATIC CAP ALL ATT	ALLED -	RESULT =	
	4×10-8 CM/SEC - FERMEABILITY TEST	TWA OF THE	AFIC CAP	
		<del>~~</del> .		
	_			
	•			
1	INSPECTOR Supplies	<u></u>	_ DATE/	}
	REVIEWED BY JAN 18. TOX Geos	yntes)_	_ DATE //	13-92

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

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.		<del></del>	
	- 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).			
				,

NOV 2 0 1992

PECEWE 1 4.4. PLACEMENT OF SOIL BENTONITE CUTOFF WALL

SHEET \_\_ OF \_\_ INSPECTION DATE \_//-/2-

- (cont'd)	21.02 204		
	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 NOME ZEOUINED		· 	
4. LOCATION <u>0/5 450 - 0/5 350</u>			
5. REMARKS PLACED TRAFFIC CAP IN ABOU	E LOCATO	N 15	
UNIVERLINER WAS PLACED			
	NO	V 2 0 1992	
·		2. 7. J	
INSPECTORChros Bauto		DATE <u>//</u>	-19-92
REVIEWED BY John R. T. C. Lount	لحر)	DATE /	1-20-92

	A CONTROL OF COLL DENGOVINE CUMOEE WALL		of	
- P L	ACEMENT OF SOIL BENTONITE CUTOFF WALL	INSPECTI	ON DATE	
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.			<u> </u>
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).			<u> </u>
	- VISCOSITY OF THE SLURRY (2 TIMES PER DAY).			
		-		
	•			
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SHEET 2 OF Z PLACEMENT OF SOIL BENTONITE CHTOFF WALL INSPECTION DATE //- 20-92 (cont'd) REJECT ACCEPT 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) DUST CONTROL NONE ZEOUIGED LOCATION \_\_\_\_\_ o/s 350 -> "2" GRID REMARKS COMPLETE SCOW PLUG TODAY DATE //-20-92 INSPECTOR DATE \_ REVIEWED BY



FORM A-3
SHEET / OF /
INSPECTION DATE <u>8-29-92</u>

VERIFICATION INSPECTION	ACCEPT	REJECT	N/A
- 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.			
<ul> <li>DRUMS ARE LOGGED, MAPPED OR PHOTOGRAPHED IN ORIGINAL POSITION PRIOR TO REMOVAL.</li> </ul>	<u> </u>		
- DRUM STORAGE AREA IS PREPARED IN ACCORDANCE WITH THE SPECIFICATION.		· .	
DUST CONTROL			
ACTION TAKEN NONE REQUIRED			
<del> </del>			
LOCATION (APPROXIMATE)	=		
STACING AREA, NORTH END OF SITH			
REMARKS Note any drum labels or ide	ntification		
REMARKS Note any drum labels or ide	ntification	+ 83 \$ #84, WE	
REMARKS Note any drum labels or ide  THE THREE DRUMS STAGED FOR OFF SITE DISE  EXAMINED AND SAMPLED. Drum No 74 WHICH	ntification but, #74, #	# 83 # #84, WE	•
REMARKS Note any drum labels or ide	ntification but, #74, #	# 83 # #84, WE	•
STACING ANEA, NORTH END OF SITE  REMARKS Note any drum labels or ide  THE THREE DRUMS STAGED FOR OFF SITE DISP  EXAMINED AND SAMPLED. Drum No TH WHICH  CONTAINED EMPTY CHEMICAL BOTTLES, PPE, AND OFF  83 WAS LABELLED AS "84 ACETORE" IT A	ntification  SAL, # 74, #  H WAS LASSILE  THER MISC. SA	# 83 f #84, NE 50 AS '74" PUES. DA POXIMATELY	M NO.
STACING ANEA, NORTH END OF SITE  REMARKS Note any drum labels or ide  THE THREE DRIMS STAGED FOR OFF SITE DISH  EXAMINED AND SAMPLED. DRUM NO THE WHICH  CONTAINED EMPTY CHEMICAL BOTTLES, PPE, AND OF  83 WAS LABELLED AS "84 ALETONE" IT OF  LIDUAD WHICH WAS SAMPLED FOR TESTING	ntification  SAL, # 74, #  H WAS LASSUE  THER MISC. SO  CONTAINED AM  BY THE DISA	#83 f #84, WE FO AS '74" APLIES. DAS MOXIMATELY DISAL FACILITY	M NO.
STAGING ANEA, NORTH END OF SITE  REMARKS Note any drum labels or ide  THE THREE DRUMS STAGED FOR OFF SITE DISP  EXAMINED AND SAMPLED. Drum No TH WHICH  CONTAINED EMPTY CHEMICAL BOTTLES, PPE, AND OF  B3 WAS LABELLED AS "84 ACETONE" IT OF  LIDUAD WHICH WAS SAMPLED FOR TESTING  Drum No 84 WAS LABELLED AS "84 HNO3"	ntification  SAL, # 74, #  H WAS LASSUE  THER MISC. SO  CONTAINED AM  BY THE DISA	#83 f #84, WE FO AS '74" APLIES. DAS MOXIMATELY DISAL FACILITY	M NO.
REMARKS Note any drum labels or ide  THE THREE DRUMS STAGED FOR OFF SITE DISP  EXAMINED AND SAMPLED. Drum No TH WHICH  CONTAINED EMPTY CHEMICAL BOTTLES, PPE, AND OF  83 WAS LABELLED AS "84 ALETONE" IT OF  LIDUAD WHICH WAS SAMPLED FOR TESTING  Drum No 84 WAS LABELLED AS "84 HNO3"  OF THE DRUM WAS CORRODED & MAD HOLES.	ntification  ASAL, # 74, 1  H WAS LABELLE  THER MISC. S.  CONTAINED AM  BY THE DISA  IT WAS EMP	#83 f #84, WE FO AS '74" APLIES. DAS MOXIMATELY DISAL FACILITY	M NO.
REMARKS Note any drum labels or ide  THE THREE DRUMS STAGED FOR OFF SITE DISP  EXAMINED AND SAMPLED. Drum No TH WHICH  CONTAINED EMPTY CHEMICAL BOTTLES, PPE, AND OF  83 WAS LABELLED AS "84 ALETONE" IT I  OF LIDUAD WHICH WAS SAMPLED FOR TESTING  Drum No 84 WAS LABELLED AS "84 HNO3"  OF THE DRUM WAS CORRODED & MAD HOLES.  (NOTE: CONTENTS OF DRUM # 74 WERE)	ntification  ASAL, # 74, 1  H WAS LABELLE  THER MISC. S.  CONTAINED AM  BY THE DISA  IT WAS EMP	#83 f #84, WE FO AS '74" APLIES. DAS MOXIMATELY DISAL FACILITY	M NO.
REMARKS Note any drum labels or ide  THE THREE DRUMS STAGED FOR OFF SITE DISP  EXAMINED AND SAMPLED. Drum No TH WHICH  CONTAINED EMPTY CHEMICAL BOTTLES, PPE, AND OF  83 WAS LABELLED AS "84 ALETONE" IT OF  LIDUAD WHICH WAS SAMPLED FOR TESTING  Drum No 84 WAS LABELLED AS "84 HNO3"  OF THE DRUM WAS CORRODED & MAD HOLES.	ntification  ASAL, # 74, 1  H WAS LABELLE  THER MISC. S.  CONTAINED AM  BY THE DISA  IT WAS EMP	#83 f #84, WE FO AS '74" APLIES. DAS MOXIMATELY DISAL FACILITY	M NO.  I FOOT  Y.

FCRM A-4
SHEET OF I
INSPECTION DATE Y-29-92

. Al	DEI	UN SAMPLING	<b>1992</b>	SHEET	OF L	
	DRI		ZES	·		
3	١.	VERIFICATION INSPECTION		ACCEPT	REJECT	N/A
		- FOR EACH GROUP OF DRUMS MATERIALS, ONE SAMPLE OF FOR EVERY THREE DRUMS AND ANALYZED PER SAMPLE ANALYSIS PLAN.	OR COMPOSITE		<del></del>	<u>/</u>
		- FOR EACH BULKED COMPATI INDIVIDUAL INCOMPATIBLE SAMPLE IS COLLECTED FOR FOR DISPOSAL.	E WASTE	_		
	2.	DUST CONTROL				
		ACTION TAKEN NONE	REQUIRE	<u> </u>	<del></del>	
		*****			<del></del> -	<del> </del>
4	3.	LOCATION (APPROXIMATE)				
		STAGING ARE	A NORTH EN	UD OF	SITE.	
3	4.	REMARKS DRUM # 83 (				
	` -	SAMPLED AND DRU				
		# 84 HAD THE BOTT				
		DRUM #83 AND DRUM				
		COPIES OF THE WASTE				
4		ARE ATTACHED The	RLANK SPAC	ES WILL	Be FILL	ED IN
		PRIOR TO ANY SHIPM	HENT OF THE	E SAMPLE	es. Au	SAMPLES
٦		WILL BE SHIPPED TO				
		DRUM #74 WAS NOT	SAMPLED. IT	CONTAIN	ed pre	AND
		CHEMICAL BOTTLES CH	IEM WASTE	TILL DE	LONACIEU	PLONDAY
		MORNING TO SEE IF	SAMPLING U	F IHESE	WASIES	(5
		REQUIRED.	-			
7		1	. A			
		INSPECTOR Trederick	Marthe	>	DATE <u>8</u> -	/ /
		REVIEWED BY Smallen E	Branks	<del></del>	_ DATE 3	13//92



FORM A-4
SHEET OF INSPECTION DATE 9-12-92

١	VERIFICATION INSPECTION	ACCEPT	REJECT	N/A
	- 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.			_/
	DUST CONTROL			
	ACTION TAKEN NONE REQUIRED			
	LOCATION (APPROXIMATE)			
	STAGING AREA			
	REMARKS DID A SIMPLE PH TEST	To DETE	RMINE I	/F
	THERE MAY HAVE BEEN ANY NO	TRIC AC	O BEIK	ED
	QUID THE SOIL AROUND DRUM # 84.	STONE !	ND SOI	٢
	SAMPLES WERE TAKEN DIRECTLY	UNDER	THE	DRUM
	FROM THE SURFACE TO 6" !			
	ALL THE SAMPLES WERE 6-7. SU	RFACE S.	A MPLES	WERE
	ALSO TAKEN AT APPROXIMATELY 12	" AROUNE	THE O	UTER L ALSO
	EDGE AND I" FROM THE SURFA	CE, THE	PET WA	ا در و
	6-7. SURFACE SOIL SAMPLES OUTSID	e ur in	VA ACIO	IC ODOR
	6-7. SURFACE SOIL SAMPLES OUTSIDE AREA ALSO HAD A PH OF 6-7. THE AND THERE WAS PLENTY OF VEGETAND TAKEN US.	TATION C	EOWING	W
	THE AREA. THE PH WAS TAKEN US.	ING PHTE	ST STRIPS	THE
	SAMPLES WERE PLACED IN JARS AND A-VO	LONE OF W	ATER EQ	UAL
	TO VOLUME DE MATERIAL WAS ADDED IT FOR A MINUTE OR TWO AND THE INSPECTOR TRADELLE DE MINUTE OR TWO AND THE	WAS SHAKE	N ALLOWER WAS TA	10 SIT
	INSPECTOR Frederick House	(5	DATE <u></u>	-12-92
	DEVITEUED BY AMARINA Re- cho		DATE 9/	4/92

	DRUM SAMPLING	SHEET L INSPECTIO	of <u>(</u> n date <u></u>	-14-92_
	1. VERIFICATION INSPECTION	ACCEPT	REJECT	N/A
	- FOR EACH GROUP OF DRUMS WITH LIKE MATERIALS, ONE SAMPLE OR COMPOSITE FOR EVERY THREE DRUMS IS COLLECTED AND ANALYZED PER SAMPLING AND ANALYZED PLAN.			_
	- FOR EACH BULKED COMPATIBLE AND INDIVIDUAL INCOMPATIBLE WASTE SAMPLE IS COLLECTED FOR ANALYSIS FOR DISPOSAL.			<u>/</u>
	2. DUST CONTROL			
k	ACTION TAKEN NONE		<del></del>	<del></del>
¥.	3. LOCATION (APPROXIMATE)  STAGING AREA DRUM  4. REMARKS FILLED OUT DRUM PRO TO CHEM WASTE BY OVERNIGHT  WASTE SALES REP WILL TRY TO  APPROVAL OF ALL 3 DEUMS, A  PROFILE IS ATTACHED.	FILE FORM  CARRIED  EXPED	R. CHEM THE THE	
State of the State		SEP :	1 5 19 <b>92</b> EB	
	INSPECTOR Frederick Washing REVIEWED BY Justin Brandos		DATE 9	14-92

		CEMENT OF ONSITE FILL, OFFSITE FILL STABILIZED MATERIAL ON THE CELA	INSPECTIO	OF /	-30
	1.	MATERIAL	ACCEPT	REJECT	N/A
<b>6</b>		- 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 MATTERIAL EXCAVATED FOR  IN NORTH SLOPE AND	OU BEFINELY	y Amas	B&E
		AUG 3 1 1992	. <del></del> .		·
		INSPECTOR		_ DATE <u>&amp;</u> _ DATE <u>\$</u>	- <u>31-92</u> 

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	<u>pr.x</u>	ACEMENT OF ONSITE FILL, OFFSITE FILL	FORM A-5 SHEET / INSPECTION		
		STABILIZED MATERIAL ON THE CELA	ACCEPT		
	1.	MATERIAL	ACCEPT	REJECT	N/A
		- ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED.			
· F	2.	PLACEMENT	_		
_		- MAXIMUM LOOSE LIFT OF 12 INCHES.			
塔	<u>.</u> 	- LAYER OF FILL IS FREE OF EXCESSIVE RUTS.	~		
		- SURVEYOR VERIFY SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION.			
2	3.	VERIFICATION TESTING			
		- 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS.			
集	4.	DUST CONTROL			
	5.	REMARKS			
		PLACED MATERIAL EXCAVATED From	1 REFINERY	Anea '	<u>'A ''</u>
		PLACES MATERIAN FICAVATED FROM			
*					
<u> </u>		AUG 3 1 1992			
		PER CONTROL OF THE PER CONTROL O	,. <del></del> •		
		-			
*		INSPECTOR Chris Baile		DATE <u>2</u>	1-31-92
પ્ત <b>ે</b>		REVIEWED BY Collin F. Sahou		DATE 4	131/92

Variable of the second of the

	PLACEMENT OF ONSITE FILL, OFFSITE FILL AND STABILIZED MATERIAL ON THE CELA		DATE <u>8-</u>	11-92-
	MATERIAL	ACCEPT	REJECT	N/A
	- ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED.			
2	. PLACEMENT			
	- MAXIMUM LOOSE LIFT OF 12 INCHES.			<del></del>
	- 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	PLACING MATERIAN EXCAVATED 6	now AFTINERY	ALEA A	
	DECIE WEI			
	INSPECTOR		date <u>8/-</u>	31/92

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		ACEMENT OF ONSITE FILL, OFFSITE FILL D STABILIZED MATERIAL ON THE CELA	INSPECTIO	OF _/	8-12-92-	_
	1.	MATERIAL	ACCEPT	REJ ECT	N/A	
1 57 36	-   	- ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED.			<del></del>	
	2.	PLACEMENT				
•		- MAXIMUM LOOSE LIFT OF 12 INCHES.				
		- LAYER OF FILL IS FREE OF EXCESSIVE RUTS.	~			
<b>\$</b>		- 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.	<u></u>		<u> </u>	
	4.	DUST CONTROL				1
	5.	PLACINA MATERIAL EXCAVATED FROM  IN NORTH SLOPE MEA.	1 RETINEN	MEA	"A"	
		AUG 3 1 1992	.—.			
		INSPECTOR Bails		_	9-31-92	
3		REVIEWED BY Collin P. Surviva	<u></u>	_ DATE -	¥3/92	

4 10.55

PLA		FORM A-5	, OF (	,
AND	CEMENT OF ONSITE FILL, OFFSITE FILL STABILIZED MATERIAL ON THE CELA		ON DATE A	-13-92
1.	MATERIAL	ACCEPT	REJECT	N/A
	- 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			
	REMARKS	ENY ANEA	1 A	
			710.00	
	NUG 3 1 1992			
	•			
	INSPECTOR Mis Book		DATE	9-31-9Z

	PLA ANI	ACEMENT OF ONSITE FILL, OFFSITE FILL DISTABILIZED MATERIAL ON THE CELA	INSPECTIO	OF ON DATE	-14-92-
		MATERIAL	ACCEPT	REJECT	N/A
â		- ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED.			
	2.	PLACEMENT			
		- MAXIMUM LOOSE LIFT OF 12 INCHES.			
		- LAYER OF FILL IS FREE OF EXCESSIVE RUTS.	~	<u></u>	
*		- 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		<del> </del>	
	5.	REMARKS  PLACIAL MATERIAL FROM REFOREY AND NOTH SLOTE ANDA.	<u>.</u>		
T.		4UG 3 1 1992	· <del></del> -		
Ki,					
		-			
		INSPECTOR AND BAR		_ DATE <u></u>	1-31-92
		REVIEWED BY Selver J. Jakon		_ DATE _&	131/72

#		ACEMENT OF ONSITE FILL, OFFSITE FILL	FORM A-5 SHEET/ INSPECTIO	OF 6	15-92
į.		D 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.		<del></del>	
4		- LAYER OF FILL IS FREE OF EXCESSIVE RUTS.	<u>~</u>		
77		- SURVEYOR VERIFY SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION.			
	з.	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 REFINE  IN NORTH SLOTE AREA	y A15A	"A"	
`J.		W Norm SLORE ANEA	<u> </u>	<del></del>	
			····		<u> </u>
7		AUG 3 1 1992			
		PECEWED 2			
		-			
		INSPECTOR		_ DATE _6	9-31-92
		REVIEWED BY Sollin Polynon		DATE &	131/92

	ACEMENT OF ONSITE FILL, OFFSITE FILL O STABILIZED MATERIAL ON THE CELA	INSPECTIO	OF / ON DATE _8	-17-92-
1.	MATERIAL	ACCEPT	REJECT	N/A
	- 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.	PLACED MATERIAL FROM REFINERY NOTH SLOTE AREA.	ANEA A	لہر	
	AUG 3 1 1992	. <u> </u>		

		FORM A-5	/ OF	/
Dr.3	CEMENT OF ONCITE FILL OFFICE FILL		ON DATE B	
	ACEMENT OF ONSITE FILL, OFFSITE FILL OSTABILIZED MATERIAL ON THE CELA			
		ACCEPT	REJECT	N/A
1.	MATERIAL			
	- ONSITE AND OFFSITE FILL MATERIAL	_		
	STABILIZED AS REQUIRED.			
	SIABILIALD AS REQUIRED.	<del></del>		
2.	PLACEMENT			
	- MAXIMUM LOOSE LIFT OF 12 INCHES.			
	- LAYER OF FILL IS FREE OF			
	EXCESSIVE RUTS.		<del></del>	
	- CHRIEVOR VERTEV CLOREC CONFICURATION			
	- SURVEYOR VERIFY SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH			
	DRAWINGS AND SPECIFICATION.			
	Significo igno officiality.	<del></del>		
з.	VERIFICATION TESTING			
	- 1 UNCONFINED COMPRESSIVE STRENGTH			
	TEST FOR EACH 500 CY OR EACH			
	AREA COMPLETED IN ONE DAY			
	WHICHEVER IS LESS.			
4.	DUST CONTROL			
4.	DUST CONTROL			
	DUST CONTROL		<del></del>	
	REMARKS		<del></del>	
		NEW NEFINE	ay Areas	A \$
	REMARKS	NETINO	ay Areas	A \$
	REMARKS	rom NEFINE	ay ArEAS	<i>A</i> ≠
	REMARKS	NEW NEW WE	ay ALEAS	A \$
	REMARKS	rom REFINE	ay Areas	A #
	REMARKS	rom REFING	ay Areas	A #
	REMARKS	rom NEFINE	ay Areas	4 7
	REMARKS	NOM NEFINE	ay Areas	A \$
	REMARKS	nem NEFINE	ay Areas	A \$
	REMARKS	Lan NEFINE	ay Areas	4.7
	REMARKS	nom REFINO	ay Areas	A \$
	REMARKS	NEFINE	ay Areas	4 \$
	REMARKS	NOM NEFINE	ay Areas	<i>A</i> ≠
	REMARKS	New NEFINE	THE AS	A \$
	REMARKS	New NEFINE	THE ALEAS	4.7
	REMARKS	Lan REFINE	THE ALEAS	A \$
	REMARKS	nom REFINE	THE ALEAS	4 7
	REMARKS	nom REFINO	THE ALEAS	4 \$
	REMARKS	Now NEFINE	THE ALEAS	A \$
	REMARKS	nem NEFINE	THE ALEXAS	A \$
5.	PLACES MATERIAL EXCAVATES ES  DECENSED  M. THE Name SLOW AND	Lan NEFINE	DATE &	
5.	REMARKS	Lan REFINE		

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FORM A-5 **3.1** SHEET \_/ \_ OF INSPECTION DATE 8-19-92 PLACEMENT OF ONSITE FILL, OFFSITE FILL AND STABILIZED MATERIAL ON THE CELA ACCEPT REJECT 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. DUST CONTROL \_\_\_\_\_ 5. REMARKS PLACED MATERIAL EXCAMPED FROM REFINERY AREA D IN HONTH SLARE AVEA. AUG 3 1 1992 INSPECTOR REVIEWED BY

	CEMENT OF ONSITE FILL, OFFSITE FILL STABILIZED MATERIAL ON THE CELA	INSPECTIO	OF / ON DATE <u>8</u> -	20-92-
1.	MATERIAL	ACCEPT	REJECT	N/A
	- ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED.			
2.	PLACEMENT			
	- MAXIMUM LOOSE LIFT OF 12 INCHES.		<del></del>	<del> </del>
	- LAYER OF FILL IS FREE OF EXCESSIVE RUTS.	~		
	- SURVEYOR VERIFY SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION.	_		
з.	VERIFICATION TESTING			
	- 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS.		<u> </u>	
4.	DUST CONTROL			
5.	REMARKS  PLACED MATERIAL EXCAVATED OF  ANCIA C IN NORTH SLAVE A	From NEFT.	Soy	
		- <u>-</u> .		<u>.</u>
	INSPECTOR		_ DATE _	<del>3-31-92</del> 1 <del>31/9</del> 2

eun d

		ACEMENT OF ONSITE FILL, OFFSITE FILL O STABILIZED MATERIAL ON THE CELA	INSPECTION		20-92-	
]	- 1.	MATERIAL	ACCEPT	REDECT	N/A	
		- ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED.				
	2.	PLACEMENT				
		- MAXIMUM LOOSE LIFT OF 12 INCHES.				
et.		- LAYER OF FILL IS FREE OF EXCESSIVE RUTS.				
		- SURVEYOR VERIFY SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DPAWINGS 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 SAMPLE	S TANLE√		
	4.	DUST CONTROL				
	5.	REMARKS	17)			
		<b>第</b>				
			<del>-</del> -			
		-				
		INSPECTOR		DATE 9		
		REVIEWED BY	de	DATE _ 7	<u>- 5-72</u> .	

PLA	ACEMENT OF ONSITE FILL, OFFSITE FILL	FORM A-5 SHEET INSPECTION	OF / DATE <u>0-21-92</u>
	STABILIZED MATERIAL ON THE CELA	ACCEPT	
1.	MATERIAL	McCui .	RED Del III
	- 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		
	PLACES MATERIAL EXCHIATED FOR	on REFINER	
	ANEA F IN NORTH SUPE	ALBA.	
	AUG 3 1 1992	<del>_</del> .	
-	INSPECTOR Chile Boll		DATE <u>8-31-92</u>
	REVIEWED BY All In J. Say Lea	<u>-u</u>	DATE <u>8/3//92</u>

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		FORM A-5	/_ OF _/	
	CEMENT OF ONSITE FILL, OFFSITE FILL  STABILIZED MATERIAL ON THE CELA	INSPECTI	ON DATE 8	-2/-92
1.	MATERIAL	ACCEPT	REJECT	N/A
	- ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED.		<del></del>	
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.			
з.	VERIFICATION TESTING			
	- 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS.	<u>No</u> 54	MOLES TO	on EN_
4	DIIST CONTROL			
	DUST CONTROL	<u> </u>		
	REMARKS			
		- Compre	TES BOTH	
	REMARKS	- Campus	7E) B074	
	REMARKS STABILIZING ANEAS 8 & S	- Canale	7E) B074	

		FORM A-5 SHEET / OF /
	CEMENT OF ONSITE FILL, OFFSITE FILL STABILIZED MATERIAL ON THE CELA	SHEET OF INSPECTION DATE 8-22-92
1.	MATERIAL	ACCEPT REJECT N/A
	- 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 THES
4.	DUST CONTROL	
5.	REMARKS	
	STABILIZING ANEA 2	
	SEP 3 1992	·
	DECENTED	
		. <del></del> .
	-	
	INSPECTOR Chile Baile	DATE <u>9-3-92</u>
	REVIEWED BY Collin P. Salts	DATE 9-3-92

		FORM A-5 SHEET	/ OFON DATE _8	/ - 2 d A
	CEMENT OF ONSITE FILL, OFFSITE FILL STABILIZED MATERIAL ON THE CELA	INSPECTI	ON DATE <u>8</u>	-27-7
	MATERIAL	ACCEPT	REJECT	N/A
	- 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.	V		
3.	VERIFICATION TESTING			
	- 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS.			<u>~</u>
4.	DUST CONTROL			
5	REMARKS			
<b>-</b> •				_
٠.		LON NEEL	NEW MEN	
٠.		non 1561	very med	
٠,	GIN NONTH SLOSE AND	NON NEFT	ven net	
٠.		non 1581	VENY MEN	
		non 1581	VENY MEN	
		ion 1571	VENY MEN	
		ion 1571	VENY MEN	
	PLACES MATERIAL EXCAVATED FOR	ien 159	VENY MEN	
		ion 154	NEW MEN	
	PLACES MATERIAL EXCAVATED FOR	ion 1541	NEW MEN	
	PLACES MATERIAL EXCAVATED FOR	ion 1571	SELY MEN	
	PLACES MATERIAL EXCAVATED FOR	LON 1559	JEW MEN	
	PLACES MATERIAL EXCAVATED FOR	ien 1561	NEW MEN	
	PLACES MATERIAL EXCAVATED FOR	10M 15F1	DATE &	

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	LACEMENT OF ONSITE FILL, OFFSITE FILL ND STABILIZED MATERIAL ON THE CELA	
_	. MATERIAL	ACCEPT REJECT N/A
	- 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 SAMPES MAEN
4	DUST CONTROL	
5	REMARKS	
	STABILIZING PLEA Z	
	SED 3 1092	
· · · · · · · · · · · · · · · · · · ·		. <del>_</del> .
i de la companya de l	_	
****	INSPECTOR Combo O 6	DATE 9-3-92  DATE 9-3-92
	REVIEWED BY Collin & Siehon	DATE _/ -5 (6

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Nį.			FORM A-5	OF /	
	PLA AND	CEMENT OF ONSITE FILL, OFFSITE FILL STABILIZED MATERIAL ON THE CELA	SHEET		
	1.	MATERIAL	ACCEPT	REJECT	A\N
		- ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED.			
	2.	PLACEMENT			
_		- MAXIMUM LOOSE LIFT OF 12 INCHES.	<del></del>		
		- LAYER OF FILL IS FREE OF EXCESSIVE RUTS.			
		- SURVEYOR VERIFY SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION.			
	3.	VERIFICATION TESTING			
in .		- 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS.	No sami	OCET THE	<u>eJ</u>
	4.	DUST CONTROL			<del> </del>
	5.	REMARKS		····	
					<del></del>
39		STABILIZING ALEAS 2 \$ 4	-		<del></del>
				<u></u>	
					-
		SEP 3 1001			
		-			
		INSPECTOR Batta		_ DATE <u>£</u>	-3-92
		REVIEWED BY		_ DATE <u>9</u>	? <u>-3-9</u> 2

FORM A-5 SHEET / OF INSPECTION DATE 8-26-92 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 NO SAMPLES TAREN WHICHEVER IS LESS. 4. DUST CONTROL \_\_\_\_\_\_ 5. REMARKS \_\_\_\_\_ STABILIZING GREAR 2, 4 \$ 48 - COMPLETED MET 4 SEP \_ 3 1992 INSPECTOR \_\_\_\_\_Chini \_\_\_ DATE <u>9-3-92</u>\_\_ 160W DATE 9-3-92 REVIEWED BY \_\_\_\_ Colo

PLA	CEMENT OF ONSITE FILL, OFFSITE FILL	FORM A-5 SHEET INSPECTION	OF ON DATE 8	-27-12-
	STABILIZED MATERIAL ON THE CELA	ACCEPT	REJECT	N/A
ı.	MATERIAL			,
	- ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED.			
2.	PLACEMENT			
	- MAXIMUM LOOSE LIFT OF 12 INCHES.		<del></del>	
	- LAYER OF FILL IS FREE OF EXCESSIVE RUTS.			V
	- 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 SAI	M <u>PLES</u> 7741	ν€ <u>√</u>
	REMARKS			
	STABILIZING ANGAS 2, 26			
	REMARKS			
	STABILIZING ANGAS 2, 26			
	STABILIZING ATERS 2, 26,  COMMETER ALEAS 2, 2			
	STABILIZING ATERS 2, 26,  COMMETER ALEAS 2, 2			

		FORM A	,	<u>/</u> of <u>/</u>	
PLA	CEMENT OF ONSITE FILL, OFFSITE FILL		CTIO	N DATE	8-28-92
	STABILIZED MATERIAL ON THE CELA				
		ACCEP'	r	REJECT	11/7
1.	MATERIAL				
	- ONSITE AND OFFSITE FILL MATERIAL				
	STABILIZED AS REQUIRED.				
2.	PLACEMENT				
	V1V7V704 1004D 1777 AD 40 TV0V70				سي
	- MAXIMUM LOOSE LIFT OF 12 INCHES.				
	- LAYER OF FILL IS FREE OF				
	EXCESSIVE RUTS.				<u>_ </u> _
	- SURVEYOR VERIFY SLOPES, CONFIGURATION				
	AND DIMENSIONS IN ACCORDANCE WITH				
	DRAWINGS AND SPECIFICATION.			•	
	VERIFICATION TESTING				
	- 1 UNCONFINED COMPRESSIVE STRENGTH				
	TEST FOR EACH 500 CY OR EACH				
	AREA COMPLETED IN ONE DAY WHICHEVER IS LESS.	No	SAD	IPES TH	LEN
	watchever is hess.	<del></del>			
	DUST CONTROL				
	DUST CONTROL				
	REMARKS	! 10			
	REMARKS	! 10			
	REMARKS	! 10			
	REMARKS	10			
	REMARKS	! 10			
	REMARKS	! 10			
	REMARKS	! 10			
	STABILIZING ALEAS 6, 7, 8 4  COMPLETED ALEAS 6, 7 \$ 10	! 10			
	REMARKS	! 10			
	STABILIZING ALEAS 6, 7, 8 4  COMPLETED ALEAS 6, 7 \$ 10	! 10			
	STABILIZING ALEAS 6, 7, 8 4  COMPLETED ALEAS 6, 7 \$ 10	! 10			
	STABILIZING ALEAS 6, 7, 8 4  COMPLETED ALEAS 6, 7 \$ 10	! 10			
	STABILIZING ALEAS 6, 7, 8 4  COMPLETED ALEAS 6, 7 \$ 10	! 10			
	STABILIZING ALEAS 6, 7, 8 4  COMPLETED ALEAS 6, 7 \$ 10	! 10			
	STABILIZING ALEAS 6, 7, 8 4  COMPLETED ALEAS 6, 7 \$ 10	! 10			
	STABILIZING ALEAS 6, 7, 8 4  COMPLETED ALEAS 6, 7 \$ 10	! 10			
	STABILIZING ALEAS 6, 7, 8 4  COMPLETED ALEAS 6, 7 \$ 10	! 10			
	STABILIZING ALEAS 6,7,8 4  COMPLETED ALEAS 6,7 \$\frac{1}{2}\$   10	! 10			
•	STABILIZING ALEAS 6, 7, 8 4  COMPLETED ALEAS 6, 7 \$ 10	! 10			
	STABILIZING ALEAS 6,7,8 4  COMPLETED ALEAS 6,7 \$\frac{1}{2}\$   10	! 10			9-3-92 9-3-92

FORM A-5 SHEET \_\_\_/\_ OF \_\_/ INSPECTION DATE 8-29-92 PLACEMENT OF ONSITE FILL, OFFSITE FILL AND STABILIZED MATERIAL ON THE CELA ACCEPT REJECT 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 NO SAMPLES THEEN WHICHEVER IS LESS. 4. DUST CONTROL \_\_\_\_\_ 5. REMARKS \_\_\_\_ STABILIZING ANEAS 8 & 9 COMPLETED PLEAS 8 \$ 9 INSPECTOR \_\_\_\_\_ DATE 9-3-12 REVIEWED BY Collin 2 how DATE 9-3-92

<b>i</b>		CEMENT OF ONSITE FILL, OFFSITE FILL STABILIZED MATERIAL ON THE CELA	FORM A-5 SHEET / OF / INSPECTION DATE 8-31-92
		MATERIAL	ACCEPT REJECT N/A
		- 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.	
	з.	VERIFICATION TESTING	
		- 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS.	NO SAMPLES THREE
	4.	DUST CONTROL	
	5.	REMARKS	
2.3		STABILIZING ANEAS II	¥ 12—
		SEP 4.1992	·
			<b></b> ·
		-	
		INSPECTOR And Balan Political Reviewed By Bulko	DATE 9-3-92  DATE 9-3-92
		REVIEWED DE	

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	CEMENT OF ONSITE FILL, OFFSITE FILL STABILIZED MATERIAL ON THE CELA	FORM A-5 SHEET INSPECTION	OF ON DATE 9	-/-92_
	MATERIAL	ACCEPT	REJECT	N/A
	- ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED.	_		
2.	PLACEMENT			_
	- MAXIMUM LOOSE LIFT OF 12 INCHES.	<del></del>		
	- LAYER OF FILL IS FREE OF EXCESSIVE RUTS.			
	- SURVEYOR VERIFY SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION.			
з.	VERIFICATION TESTING			
	- 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS.	TESTING I	n <u>Anochees</u>	
4.	DUST CONTROL		<del> </del>	<del>,</del>
5.	REMARKS			
	STABILIZIAL ALBES 1/ \$ 17 SAMPLED 3 LOCATIONS - HOOD IN , AMER / , AND F750 IN ANEA B.		(600 12)	
	DECENTED			
	-			
	INSPECTOR Comb Ball		_ DATE _	
;	REVIEWED BY Solding Show		_ DATE _	9-3-92

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		FORM A-5 SHEET	of/	
	ACEMENT OF ONSITE FILL, OFFSITE FILL D STABILIZED MATERIAL ON THE CELA	INSPECTION	ON DATE <u>9</u> -	1-92-
1.	MATERIAL	ACCEPT	REJECT	N/A
	- ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED.			<del></del>
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.	TESTINE	IN PROCE	£5 <u>5</u>
4.	DUST CONTROL			
5.	REMARKS	· <del></del>		
	SAMRED AT 3 WICATIONS	TODAY:		
	N600			<del></del>
	4600			<del></del>
	F750			
	SEP 1992			· ·
	INSPECTOR	·	_	9-1-92 1-2-92

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	ACCUPATE OF ONCINE FILL OFFICEE PILL	FORM A-5 SHEET	OF	
	ACEMENT OF ONSITE FILL, OFFSITE FILL O STABILIZED MATERIAL ON THE CELA			
1.	MATERIAL	ACCEPT	REJECT	A\B
	- 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.	18515	in_progress	s
4.	DUST CONTROL		<del> </del>	<del></del>
5.	REMARKS			
4	STACILIZING SUEAS 13 \$ 14			
\$ 2 \$ 2 \$ 7	- COMPLETED MEA 13			
i i				
	SEP 23 1992			
		، سيد.		
14 P				
	-			
	INSPECTOR Clark Barta			7-2-92
3	REVIEWED BY Collin f. Justine	<u> </u>	DATE _	9-3-92

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PLJ ANI	ACEMENT OF ONSITE FILL, OFFSITE FILL  STABILIZED MATERIAL ON THE CELA	FORM A-5 SHEET INSPECTION	/_ OF ON DATE _9-	1-3-92_
	MATERIAL	ACCEPT	REJECT	N/A
Ι.				
	- 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.	TESTING	in man	FAS
4.	DUST CONTROL NOW NEWWINED			
5.	REMARKS STIBILIZIN ALERS /2 \$	14		
	- COMPLETED MEA 14			
				<del></del>

INSPECTOR	Chris Bate	DATE 9-3-92
REVIEWED BY _	Smithan & Bunds	DATE 4/9/2
		• /

<b>1</b>		ACEMENT OF ONSITE FILL, OFFSITE FILL O STABILIZED MATERIAL ON THE CELA	FORM A-5 SHEET/ INSPECTIO	n date <u>9-</u>	4-92
. 1	1.	MATERIAL	ACCEPT	REJECT	N/A
		- ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED.			
	2.	PLACEMENT			
-		- MAXIMUM LOOSE LIFT OF 12 INCHES.	<del></del>		
		- LAYER OF FILL IS FREE OF EXCESSIVE RUTS.			
3		- SURVEYOR VERIFY SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION.			
	з.	VERIFICATION TESTING			
		- 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS.	SAMPLES #	NOT YET T	mev =
	4.	DUST CONTROL 45 NEEDED			
7	5.	REMARKS			
_		STABILIZING ALEG # 15		<del> </del>	
		ALL OTHER MEAS COMPLETED			
			<del></del>		
					? <b>?</b> 1
3.		<u>-</u>	į.	(JEB)	
		INSPECTOR		DATE Z	4.
		REVIEWED BY Jonethan & Brandon		_ DATE <u>7</u> /	<u> </u>

and the second	PLA	CEMENT OF ONSITE FILL, OFFSITE FILL	FORM A-5 SHEET / INSPECTION	OF / N DATE _9-9-92	<u>_</u>
	AND	STABILIZED MATERIAL ON THE CELA	ACCEPT	REJECT N/A	
1	1.	MATERIAL	ACCEPI	REJECT N/A	
		- ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED.			_
	2.	PLACEMENT	,		
-		- MAXIMUM LOOSE LIFT OF 12 INCHES.			
		- LAYER OF FILL IS FREE OF EXCESSIVE RUTS.			<del>_</del>
- she'rea		- SURVEYOR VERIFY SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION.	$\sqrt{}$	<u>.</u>	<del></del>
1 1	3.	VERIFICATION TESTING			
L. Carlot		- 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS.	SAMPLES	SEUT OUT	_
	4.	DUST CONTROL NONE REQUIRED			_
   <b> </b>	5.	REMARKS STABILIZED AREA #16	<u>.                                    </u>		
e e		SHELBY TUBES VAKEN 17F-800	IN ARE	A 8 AND	_
		SHELBY TUBES TAKEN IT F-800, F-700 AND G-650 IN AREA 6, A	ND I-60	O IN AREA 7.	<u>-</u>
	,			<u> </u>	-
£2.0m	, .				-
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i i i					;
			SEI	P 1 0 1992	
		-		<u>258</u>	
12		INSPECTOR AND BOX		DATE <u>9-9-92</u>	<u>-</u>
	:	REVIEWED BY Anathan Branches		DATE 9/10/92	

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	ACEMENT OF ONSITE FILL, OFFSITE FILL O STABILIZED MATERIAL ON THE CELA		OF /	-8-92-
1.	MATERIAL	ACCEPT	REJECT	N/A
	- ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED.			
2.	PLACEMENT			
	- MAXIMUM LOOSE LIFT OF 12 INCHES.			
	- LAYER OF FILL IS FREE OF EXCESSIVE RUTS.		<del></del>	_
	- 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	NOT YET 7	THEN_
4.	DUST CONTROL AS NEEDED		<u> </u>	
5.	REMARKS			<u>.</u>
	STABILIZING ANEAS = 15 \$ #16	,		<del> </del>
	COMPLETED ALEA # 15			
				<del></del>
				<del></del>
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INSPECTOR	Umb Bate	DATE	9-8-92
REVIEWED BY	Another Brancks	DATE	9/10/92
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FORM A-5 SHEET INSPECTION DATE 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 SAMPLES BEING TESTED AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. DUST CONTROL NONE AREA # 17. AND REMARKS STABILIZED COMPLETED. STARTED STABILIZATION IN AREAS 18419.

INSPECTOR Trederick & Washing	DATE 9-10-92
REVIEWED BY Amethon Brandes	DATE 9/11/92
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and the same

<b>.</b> \$		CEMENT OF ONSITE FILL, OFFSITE FILL	FORM A-5 SHEET INSPECTION	OF 1 N DATE 9-11-92
Di.		STABILIZED MATERIAL ON THE CELA	ACCEPT	REJECT N/A
	1.	MATERIAL - ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED.	<u>/</u>	
	2.	PLACEMENT		
		- MAXIMUM LOOSE LIFT OF 12 INCHES.		
		- LAYER OF FILL IS FREE OF EXCESSIVE RUTS.		
E		- 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
7	4.	DUST CONTROL NONE REQUIRED		
'	5.	REMARKS RECEIVED RESULTS OF UNC	ONFINED C	COMPRESSIVE
<b>A</b> .	э.			
	5.	STRENGTH AND DISCUSSED THEM D	WITH ROG	ER NORTH.
	5.		WITH ROG	ER NORTH.
	5.	STRENGTH AND DISCUSSED THEM D	WITH ROG On Mo	ER NORTH.
		STRENGTH AND DISCUSSED THEM D THE RESULTS WILL BE SUBMITTED	WITH ROG On Mo	ER NORTH.
		STRENGTH AND DISCUSSED THEM D THE RESULTS WILL BE SUBMITTED	WITH ROG On Mo	ER NORTH.
		STRENGTH AND DISCUSSED THEM D THE RESULTS WILL BE SUBMITTED	WITH ROC ON MO	ER NORTH.
		STRENGTH AND DISCUSSED THEM D THE RESULTS WILL BE SUBMITTED	WITH ROC ON MO	NOAY
		STRENGTH AND DISCUSSED THEM D THE RESULTS WILL BE SUBMITTED	WITH ROC ON MO	EP 1 1 1992 TEB
		STRENGTH AND DISCUSSED THEM D THE RESULTS WILL BE SUBMITTED	WITH ROC ON MO	NOAY

	ACEMENT OF ONSITE FILL, OFFSITE FILL O STABILIZED MATERIAL ON THE CELA	
1.	MATERIAL	ACCEPT REJECT N/A
	- ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED.	
2.	PLACEMENT	
•	- MAXIMUM LOOSE LIFT OF 12 INCHES.	<u> </u>
	- LAYER OF FILL IS FREE OF EXCESSIVE RUTS.	<u> </u>
	- SURVEYOR VERIFY SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION.	<u>/</u>
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 STABILIZATION WAS PERFOR	MED IN AREA 16 TO
	RESTABILIZE WHERE MATERIAL WAS	CUT AWAY.
<b>B</b>		
		三 <b>範P 1</b> 位 1997
ľ		(ZEB)
	·	-
	INSPECTOR Trederick Warlet	DATE 9-12-92
	REVIEWED BY Smether Reandes	DATE 9/14/92

PLACEMENT OF ONSITE FILL, OFFSITE FILL AND STABILIZED MATERIAL ON THE CELA		ON DATE	9-14-92
1. MATERIAL	ACCEPT	REJECT	N/A
- 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.		<del></del>	<del></del>
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	TAKED
4. DUST CONTROL		<u> </u>	
5. REMARKS PROCTOR PENETROMETER L			
5. REMARKS PROCTOR PENETROMETER L UNCONFINED COMPRESSIVE STREN			
5. REMARKS PROCTOR PENETROMETER L			
5. REMARKS PROCTOR PENETROMETER L UNCONFINED COMPRESSIVE STREN			
5. REMARKS PROCTOR PENETROMETER L UNCONFINED COMPRESSIVE STREN			
5. REMARKS PROCTOR PENETROMETER L UNCONFINED COMPRESSIVE STREN		REA 18	
5. REMARKS PROCTOR PENETROMETER L UNCONFINED COMPRESSIVE STREN	<u>жтн. А</u> в	REA 18	
5. REMARKS PROCTOR PENETROMETER L UNCONFINED COMPRESSIVE STREN	<u>жтн. А</u> в	1392	

·		CEMENT OF ONSITE FILL, OFFSITE FILL STABILIZED MATERIAL ON THE CELA	FORM A-5 SHEET/ OF _/ INSPECTION DATE <u>9-/5-92</u>
1	1.	MATERIAL	ACCEPT REJECT N/A
		- 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.  DUST CONTROLAS NEEDED	SAMPLES TWEE TODAY TRESULTS SUSMITTED WHOM RECENTED
!	5.	STABILIZED ANEAS 16 \$ 18	TANA LOL LUIS SAMOSS
		•	
		N325, E650 , N375, E675, N2	
			,
			SEP 1 6 1992
			JEB I
		INSPECTOR Ship Boll	DATE <u>9-15-92</u> DATE <u>9/16/92</u>
	F	REVIEWED BY fruitan Franco	DATE <u>///6/ 4</u> 2

·	PLA AND	CEMENT OF ONSITE FILL, OFFSITE FILL STABILIZED MATERIAL ON THE CELA	INSPECTIO	/ OF / ON DATE 9	
-	1.	MATERIAL	ACCEPT	REJECT	N/A
		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.			
	з.	VERIFICATION TESTING			
		- 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS.	SAMPLES	BEING Y	èsted_
	4.	DUST CONTROL NONE REQUIRED		<del></del>	<del></del>
j	5.	REMARKS COMPLETED AREAS 207	21 TODA	Y. STAK	ED_
		OUT AREAS 20+21.			<del></del>
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				<del>,</del>	
			SEP 1 7 19	<del>3</del> 2	
			OF CENT	- M	

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INSPECTOR Tuderick Haslets	DATE 9-16-92
REVIEWED BY knothan Branks	DATE 9//7/92
	7 /

		CEMENT OF ONSITE FILL, OFFSITE FILL STABILIZED MATERIAL ON THE CELA	FORM A-5, SHEET INSPECTION	DATE <u>9-</u>	
1		MATERIAL	ACCEPT	REJECT	N/A
		ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED.	/		<del></del>
2		PLACEMENT			
		- MAXIMUM LOOSE LIFT OF 12 INCHES.			
		- LAYER OF FILL IS FREE OF EXCESSIVE RUTS.		<del></del>	
		- 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 B	EING TES	TED
4.		DUST CONTROL			
5.		REMARKS AREAS #22 + 23 WERE		•	· · ·
		STABILIZATION WAS STARTED IN	AREA # S	23	· <del></del> -
		RESULTS OF ALL TESTS TO DATE ATTATATES W/	LETTER FROM	CTX.	
		PUSHED SHELBY TIGES AT FOLLOWING CAND L	CATIONS:	4375, £72	25,
		N375, E675 & N325, E700.			
					·
			SE	P 1 8 1992	
				ZEB )	
		INSPECTOR Trederick Martie	)	DATE 9	17-92
	1	REVIEWED BY Jonaben Branchs		DATE	<del></del>

. - ...

	CEMENT OF ONSITE FILL, OFFSITE FILL STABILIZED MATERIAL ON THE CELA	FORM A-5 SHEET / OF 1 INSPECTION DATE 9-18-92
1.	MATERIAL	ACCEPT REJECT N/A
	ONSITE AND OFFSITE FILL MATERIAL STABFLIZED AS REQUIRED.	<u> </u>
2.	PLACEMENT	
	- MAXIMUM LOOSE LIFT OF 12 INCHES.	<u></u>
	- LAYER OF FILL IS FREE OF EXCESSIVE RUTS.	<u> </u>
	- SURVEYOR VERIFY SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION.	<u>_</u>
3.	VERIFICATION TESTING	
	- 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS.  DUST CONTROL	SAMPLES TO BE TAKEN, SOME RESULTS PENDING
5.	REMARKS WORKED AREA #23. WA	S NOT COMPLETED
		JEB 1 1992
	INSPECTOR Trederice Mastel	DATE 9-18-92  DATE 9/21/92

		CEMENT OF ONSITE FILL, OFFSITE FILL STABILIZED MATERIAL ON THE CELA	INSPECTIO	OF / ON DATE	11-92-
<b>,</b>	1.	MATERIAL	ACCEPT	REJECT	N/A
		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.	<u> 18515</u> 11	V PAOGRESS	<u> </u>
	4.	DUST CONTROL 45 VEEDED			
  *	5.	REMARKS		<del></del>	<del></del>
		STABILIZING ALEAS 23			
				<del></del>	
			· <del>_</del> .	<b>SEP</b> 2 1 19	192
Service Services				JEB)	
		INSPECTOR		_ DATE <u>9</u> /2	21-92
ş.				7	/

FORM A-5 ( OF SHEET INSPECTION DATE 9-21-92 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 SAMPLES TAKEN WHICHEVER IS LESS.

5. REMARKS TOOK 8 SHELBY TURE SAMPLES ZEACH FROM

AREAS 12, 13, 19+20, AREA 12 WAS RESTABILIZED. AREA

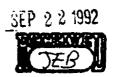
23 WAS COMPLETED, 3 NEW AREAS WERE LAYED OUT,

2425+26. AN AREA ON THE WEST SIDE MUST BE LAYED

OUT WHERE P-4 IS SUPPOSED TO BE DRILLED.

NONE REQUIRED

DUST CONTROL



INSPECTOR Luderick Mastel	DATE 9-21-92
REVIEWED BY mathan Brander	DATE 9/22/92
	• •

	CEMENT OF ONSITE FILL, OFFSITE FILL STABILIZED MATERIAL ON THE CELA	FORM A-5 SHEET OF INSPECTION DATE 9-22-92
	MATERIAL	ACCEPT REJECT N/A
1.	ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED.	<u></u>
2.	PLACEMENT	
	- MAXIMUM LOOSE LIFT OF 12 INCHES.	<del>_</del>
	- LAYER OF FILL IS FREE OF EXCESSIVE RUTS.	<u> </u>
	- 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.	More SAMPLES TO BE TAKEN RESULTS PENDING
4.	DUST CONTROL NONE REQUIRED	
5.	REMARKS TINISHED AREAS 26, 27 4	-22,
	STARTED STABILIZING AREA 27.	SEP 2 3 1992 
;	INSPECTOR Trederick Mastete	DATE 9-22-92
1	REVIEWED BY Januthan Branches	DATE 9/23/92

FORM A-5 SHEET \_\_\_ OF INSPECTION DATE 9-23-92 PLACEMENT OF ONSITE FILL, OFFSITE FILL AND STABILIZED MATERIAL ON THE CELA ACCEPT REJECT N/A MATERIAL 1. - 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. VERIFICATION TESTING 3. - 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY SAMPLES TAKEN WHICHEVER IS LESS. RESULTS PENDING DUST CONTROL AS REQUIRED REMARKS STABILIZED 24 425 NOT COMPLETED. SEP 2 4 1992

REVIEWED BY Anathan Branches DATE 9/24/92

		FORM A-5	OF	
	ACEMENT OF ONSITE FILL, OFFSITE FILL O STABILIZED MATERIAL ON THE CELA	INSPECTI	ON DATE 9	-24 <u>-</u> 4
	MATERIAL	ACCEPT	REJECT	N/A
	- 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.			
. ·	VERIFICATION TESTING			
	- 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS.		UBES TAKE	
	DUST CONTROL			
•	* SOME AREAS WERE RUTTED AND W.  THE MORNING. WILL BE RESTABILIZED	LL BE E	KAMINED	(N
			2 <u>E</u> 8	

		FORM A-5 SHEET	OF 1
	CEMENT OF ONSITE FILL, OFFSITE FILL STABILIZED MATERIAL ON THE CELA		DATE 9-25-92
· 1.	MATERIAL	ACCEPT	REJECT N/A
	- ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED.		
2.	PLACEMENT		
	- MAXIMUM LOOSE LIFT OF 12 INCHES.		
	- LAYER OF FILL IS FREE OF EXCESSIVE RUTS.	<u>/</u> .	
	- 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.	WAITING FOR	Resours
4.	DUST CONTROL NOUE REQUIRED		
, 5. :	REMARKS WORKED IN AREAS 24425.	COMPLETED	AREA 24.
	RESTABILIZED AND POLLED A SMALL	PORTION OF	AREA 9.
-			
-			
		<del></del> .	SEP 2 5 1992
,	ENSPECTOR Tudench Martin		DATE 9-25-92 DATE 9/0490

most comment.

	CEMENT OF ONSITE FILL, OFFSITE FILL O STABILIZED MATERIAL ON THE CELA		N DATE 9-	<u>/</u> <u>24-92-</u>
1.	MATERIAL	ACCEPT	REJECT	N/A
	ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED.			
2.	PLACEMENT			
	- MAXIMUM LOOSE LIFT OF 12 INCHES.			
	- LAYER OF FILL IS FREE OF EXCESSIVE RUTS.	<u> </u>		
	- 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.	78571 NG	IN PROCEE	**************************************
4.	DUST CONTROL LIGHT REDUNED	<del> </del>	<del></del>	
5.	- STABILIZING ANGA NO. 25  - TOOK SHELLY TROOS FROM ANG	as 23,15	<i>‡.</i> /	
		JET CONTRACTOR OF THE PARTY OF	2 € 8 1992 3 € 8 1992	
	INSPECTOR		date <u>9</u>	128/72

			FORM A-5 SHEET	of /
		CEMENT OF ONSITE FILL, OFFSITE FILL STABILIZED MATERIAL ON THE CELA	INSPECTIO	N DATE 9.29-92
	1.	MATERIAL	ACCEPT	REJECT N/A
		ONSITE AND OFFSITE FILL MATERIAL STABFLIZED AS REQUIRED.		
7	2.	PLACEMENT	j.	
		- MAXIMUM LOOSE LIFT OF 12 INCHES.		
		- LAYER OF FILL IS FREE OF EXCESSIVE RUTS.	<u></u>	
		- SURVEYOR VERIFY SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION.		
3	3.	VERIFICATION TESTING		
		- 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS.  DUST CONTROL NONE REQUIRED	S AMPLES RESULTS	TAKEN TODAY PENDING
				SILIZATION.
5	•	AREA #25 WAS COMPLETED.	Pros Par	
		PERFORMED	TROOP NO.	CINC 13 OEING
	•	ecronie)		
	•			<del></del>
	•			
			SEP 2 g	) 19 <b>9</b> 2
			N CO	WEN
		·		
	I	INSPECTOR Trederich Marlet	دد	DATE
	R	REVIEWED BY Jollin J. Survon		DATE 9/27/32

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		FORM A-5		
	ACEMENT OF ONSITE FILL, OFFSITE FILL O STABILIZED MATERIAL ON THE CELA		ON DATE 9-	79-92
	MATERIAL	ACCEPT	REJECT.	N/A
	- 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.	TAKEN -	AWAITING	RESULTS
4.	DUST CONTROL NONE REQUIRED			
5.	REMARKS LAYED OUT AREA # 299	BETWEE	V N 550	+N650
	AND EAST 790 TO EAST 860. U	JORKED .	AREAS Z	7 + 29
	AND DID SOME RESTABILIZATION			
			<del></del>	
		<del></del>		
		DECEME.	; <b>1</b> 1	•
		-		
	INSPECTOR Fuderich Wastite	>	DATE $\frac{Q}{2}$	-24-92
	REVIEWED BY Collin P. Solo	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	DATE _/	7/30/92
	VEATEURD DI			<del>/                                    </del>

FORM A-5 SHEET \_\_\_\_OF INSPECTION DATE 9-30-92 PLACEMENT OF ONSITE FILL, OFFSITE FILL AND STABILIZED MATERIAL ON THE CELA REJECT - 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 TESTING IN PROGRESS WHICHEVER IS LESS. 4. DUST CONTROL NONE REQUIRED REMARKS \_\_\_\_\_STABILIZES ALGAS 28 \$ 29.

REVIEWED BY \_

DATE <u>9-30-92</u>

and a second control of the second control o

		CEMENT OF ONSITE FILL, OFFSITE FILL STABILIZED MATERIAL ON THE CELA	INSPECTIO	OF N DATE <u>/0-</u>	-1-92-
	1.	MATERIAL	ACCEPT	REJECT	N/A
		- 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.	TESTING	IN PROCAS	tes
	4.	DUST CONTROL W/a			
		COMPLETED ALEAS 28 & 29. WIII	u MARK		
			OCT	0 2 1992 GEWE	
3 ()					
i i		INSPECTOR		_ DATE <u>/4-</u>	1-92-

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		FORM A-5	/ OF /	1
	ACEMENT OF ONSITE FILL, OFFSITE FILL D STABILIZED MATERIAL ON THE CELA		ON DATE _	0-2-92
		ACCEPT	REJECT	N/A
- 1.	MATERIAL			
	- ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED.			
2.	PLACEMENT	/		
	- MAXIMUM LOOSE LIFT OF 12 INCHES.		<del></del>	
	- LAYER OF FILL IS FREE OF EXCESSIVE RUTS.	<u> </u>		
	- 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.	TAKEN RESULTS	SAMPLES PENDIN	د
4.	DUST CONTROL NONE REQUI	RED		
5.	REMARKS ALL STABILIZATION ARE	AS WHICH	+ llave C	EEN
	LAYED OUT. NEW AREAS WILL	BE LA	YED OUT	As
	THEY ARE DISCOVERED. RESTABI	LIZATION	u Wice	
	CONTINUE ON AN AS NEEDED BAS			
	·		·	
tļ		JOT	0 3 19 <b>92</b>	•
J		निहा	CEMEN	
,[				
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व	INSPECTOR Trederick Moste	<u> </u>	_ DATE <u>//</u>	1-2-92
	REVIEWED BY Collin & Sular		_ DATE _	9/5/92

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PL# ANI	ACEMENT OF ONSITE FILL, OFFSITE FILL O STABILIZED MATERIAL ON THE CELA	FORM A-5 SHEET <u>l</u> INSPECTI		-5-92
1.	MATERIAL	ACCEPT	REJECT	N/A
	- ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED.	<u>/</u>		
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.	RESULTS	PENDING	
١.	DUST CONTROL NONE REQUIRED			
5.	REMARKS ONLY RESTABILIZATION WAS	PERFORMED		
			0 5 1992	
	INSPECTOR Frederick J. Wastet		DATE <u>/</u>	0-3-92
			_ DATE 4	Jela.

\$ 1 mm

FORM A-6 SHEET OF INSPECTION DATE 10 PLACEMENT OF GAS VENTING LAYER AND VENTING PIPES ACCEPT REJECT 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). PLACEMENT - JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION. - FINAL IN PLACE LOCATION AND THICK-NESS 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. Nove REQUIRED DUST CONTROL 4. LOCATION (APPROXIMATE) TS 700 PLACED TO S LINE (1880) REMARKS STONE WAS PLACED AND SPREAD ON THE ALREADY PLACED. DATE 10-5-93 DATE / REVIEWED BY OCT 0 6 1992



	PLACEMENT OF ONSITE FILL, OFFSITE FILL AND STABILIZED MATERIAL ON THE CELA	FORM A-3 SHEET ( OF ! INSPECTION DATE 10-6-92
	L. MATERIAL	ACCEPT REJECT N/A
	- ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED.	
2	. PLACEMENT	,
_	- MAXIMUM LOCSE LIFT OF 12 INCHES.	
	- LAYER OF FILL IS FREE OF EXCESSIVE RUTS.	<u>/</u>
	- 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.	RESULTS PENDING
4.	DUST CONTROL NONE REQUIRED	
5.	REMARKS LAYED OUT AREA \$31	ON THE EAST SIDE.
•	AREA # 30 WAS COMPLETED. SH	ELBY TUBES WILL
	BE TAKEN 10-7-92.	
	·	
		•
_		JCI 0 7 1992
· ·		OF ICAS (ME)
·		
ro Links	INSPECTOR Trederick Mastelo	DATE 10-6-92
\$	REVIEWED BY Colling Suhon	DATE <u>19/7/92</u>

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SHEET \_\_\_\_ OF INSPECTION DATE 10-7-92 PLACEMENT OF ONSITE FILL, OFFSITE FILL AND STABILIZED MATERIAL ON THE CELA ACCEPT REJECT MATERIAL - ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED. 2. PLACEMENT - MAXIMUM LOCSE LIFT OF 12 INCHES. - LAYER OF FILL IS FREE OF EXCESSIVE RUTS. - SURVEYOR VERIFY SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION. VERIFICATION TESTING - 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. 4. DUST CONTROL NONE REJUINED SHELBY TUBES TAKEN AT Q900 1 N840, E890. OCT 7 3 1992 DATE 107-92 REVIEWED BY \_\_\_\_Collin Whom DATE <u>/0/8/92</u>

FORM A-5

	ACEMENT OF ONSITE FILL, OFFSITE FILL D STABILIZED MATERIAL ON THE CELA	FORM A-5 SHEET OF SHEET OF SHEET OF SHEET OF SHEET OF SHEET OF SHEET N/A
1.	MATERIAL	ACCEPT REDUCT N/A
	- ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED.	
2.	PLACEMENT	
•	- MAXIMUM LOCSE LIFT OF 12 INCHES.	<u> </u>
	- 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.	TESTS HAVE BEEN TAKEN RESULTS PENDING
4.	DUST CONTROL NONE REQUIRED	·
5.	REMARKS AREA # 32 OU THE NORTH E	END WAS LAVED OUT.
; 	THE OLD SEDIMENTATION POND 1	
-		
·-		
	CCT 8 1992	. <del></del>
t L	INSPECTOR Traderick Market	DATE 10-8-92
	REVIEWED BY Collin & Section	DATE <u>19/9/92</u>

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	ACEMENT OF ONSITE FILL, OFFSITE FILL D STABILIZED MATERIAL ON THE CELA		N DATE 10	
1.	MATERIAL	ACCEPT	REJECT	N/A
	- ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED.			<del></del>
2.	PLACEMENT			
• ]	- MAXIMUM LOCSE 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			
4.	- 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS.  DUST CONTROL NONE REQUIRED	AWAITING	Resours	
5.	REMARKS COMPLETED STABILIZING A	IREA# 32	SHELB	<u> </u>
ł	TUBES FOR UCS WILL BE 7	AKEN TO	MORROW	·
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[				
		<del></del>		
		OCT 1 0 19	~~~	
			~~~	
	INSPECTOR Tudend Waster REVIEWED BY Collin & Janon		~~~	

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		FORM A-S SHEET _   OF _ (
	PLACEMENT OF ONSITE FILL, OFFSITE FILL AND STABILIZED MATERIAL ON THE CELA	INSPECTION DATE 10-10-92
	. MATERIAL	ACCEPT REJECT N/A
	- ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED.	
2	. PLACEMENT	/
	- MAXIMUM LOCSE LIFT OF 12 INCHES.	
	- LAYER OF FILL IS FREE OF EXCESSIVE RUTS.	<u> </u>
	- 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.	TOOK SHELBY TUBES
4.	DUST CONTROL NONE REQUIRE	<i>i</i> )
5.	REMARKS TOOK SHELBY TUBES IN	AREA #32.
		OCT 1 2 1992
<i>F</i>		
14 ac		
		·
	INSPECTOR Frederick Wastet	DATE 10-10-92
	REVIEWED BY Collin F. School	DATE (9/2/92

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FURM A-5 SHEET / OF / INSPECTION DATE //-3-92 PLACEMENT OF ONSITE FILL, OFFSITE FILL AND STABILIZED MATERIAL ON THE CELA ACCEPT REJECT N/A MATERIAL - ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED. 2. PLACEMENT - MAXIMUM LOCSE LIFT OF 12 INCHES. - LAYER OF FILL IS FREE OF EXCESSIVE RUTS. - SURVEYOR VERIFY SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION. VERIFICATION TESTING - 1 UNCONFINED COMPRESSIVE STRENGTH TEST FOR EACH 500 CY OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. DUST CONTROL NONE REQUIRED REMARKS \_\_ IMPORTING MATERIAL EXCAVATED FROM THE 2 ALEAS AT THE POWERHOUSE AND THE 2 ALEAS AT OTTS EASTERN. PLACING ON MOV \$5 1992

J. 75.7

REVIEWED BY DATE 11-5-92

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FORM A-5 SHEET \_\_\_\_ OF \_ INSPECTION DATE PLACEMENT OF ONSITE FILL, OFFSITE FILL AND STABILIZED MATERIAL ON THE CELA ACCEPT REJECT MATERIAL - ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED. 2. PLACEMENT - MAXIMUM LOCSE 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 NONE REGULARD REMARKS IMPORTING MATERIAL EXCENTION FROM THE FOLLOWING LOCATIONS AT CULTENT CONTROLS: CC-304, CC-334, CC-302, CC-312, CC-30, CC-29, CC-292, CC-282, CC-342, CC-314, CC-332, CC-372, CC-24, CC-25, CC-26. PLACING MATERIAL ON THE NOW SLOPE. NOV 5 1992 \_ DATE 11-4-92 INSPECTOR

المعادية المسيد أأران الماران

. W.

REVIEWED BY \_

NOV 5 6 1992

FORM A-5 SHEET / \_\_ OF \_\_\_/ INSPECTION DATE //-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. 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 NONE CONTRA 5. REMARKS PLACING MATERIAL EXCAVATED FROM ASSITIONAL REGINERY ANDES ON NORTH STOPE.

INSPECTOR _	Chino Bate	DATE 11-5-92
REVIEWED BY	John I. Hop (Loly to)	DATE 11-10-92

NOV 5 7 1992

FORM A-5
SHEET / OF /
INSPECTION DATE //-6-92

		SREET		
	ACEMENT OF ONSITE FILL, OFFSITE FILL  O STABILIZED MATERIAL ON THE CELA		ON DATE	
		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 Nove Resures			
<i>5</i> .	REMARKS			
	IMPORTED 1.5 LOADS OF REFINERY SO	IL - THIS (	S THE LAS	
	OF IT. IT WAS FROM THE PIPELINE	TREVER V	MIKH HAD	
	BEEN EXCAYATED BY OTHERS AT THE	- POWER HO	<i>[5]</i>	<del></del>
	·			

REVIEWED BY John St. For (Heolyster) DATE 11-10-92

:

		FORM A-6 SHEET	OF (	
PL.	ACEMENT OF GAS VENTING LAYER	INSPECTION		7-25-92
AN	D VENTING PIPES SER 2 5 1992	) acrom	DETECT.	
. t.	MATERIAL TES	ACCEPT	REJECT	N/A
	- 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).	ALRE	ADY SUBA	ALTTED
2.	PLACEMENT			
	- JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION.			
	- FINAL IN PLACE LOCATION AND THICK- NESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS.	<u>/</u> .		
	- LOCATION AND ELEVATIONS OF GAS VENTING PIPES ARE SHOWN ON THE DRAWING.	<del></del> .		_
	- LOOSE LIFT THICKNESS LESS THAN 8".		·	
	- GEOTEXTILE FABRIC IS LAPPED AT LEAST 18 INCHES.			
3.	DUST CONTROL NONE REQUIRED		<del>.                                      </del>	
	GEOTEKTILE WAS		<del> </del>	
4.	LOCATION (APPROXIMATE) PLACED FROM !	V 350 SO	UTH. TH	<u>e</u>
	STONE WAS PLACED FROM APPROXIMATELY	N 350 To E	AST 650	<u>·</u>
5.	REMARKS THE SEAMS WERE JOINED	Using A	SINGLE	<u>T</u>
	STITCH. THE GEOTEXTILE WHICH WA	S PLACED	WAS	
	ACCEPTED By COLLEW SUKOW B	EFORE THE	STONE	WAS
	PLACED.			
	INSPECTOR Fudence Marlie	, -	DATE 9	-25-9Z
	REVIEWED BY Jonathan Bendes		DATE 🎢	26/92
<b>F</b> .	0		•	3 444

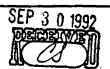
	0 4000	FORM A-6		r and
PLA	CEMENT OF GAS VENTING LAYER SEP 2 8 1992		ON DATE	9-74-9
AND	VENTING PIPES GREENWRA		المراوية والمراوية	Section Section
	(JEB)	ACCEPT	REJECT	N/A
Į.	MATERIAL 3CD			1
	- CRUSHED STONE AND SAND OBTAINED FROM			5.00
	THE BORROW AREA ACCEPTED BY THE			A STATE OF THE STA
	CONSTRUCTION MANAGER.		* **	- Language
	CONDINOCITON NEBINGERY		. ——	
	- MANUFACTURER'S MILL CERTIFICATE			المواقعة ال المواقعة المواقعة ال
			·	ومعمومة فأوجه ويناه
	OR AFFIDAVIT HAS BEEN PROVIDED			31.
	FOR GEOTEXTILE AND POLYETHYLENE			47.60
	PIPES. (ATTACH COPY).			
2.	PLACEMENT			
	•			
	- JOINTS IN GAS VENTING SYSTEM PIPES			•
	ARE PREPARED IN ACCORDANCE WITH		•	e + +4
	MANUFACTURER'S INSTRUCTION.			سس
	EMMUENCIONER S INSTRUCTION.			
	- FINAL IN PLACE LOCATION AND THICK-			
	NESS OF GAS VENTING LAYER IS AS			سسن
	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.			
	1 0			
•	DUST CONTROL NONE REQUIRED			
		<del></del>		· · · · · · · · · · · · · · · · · · ·
	LOCATION (APPROXIMATE) Southern Super			
	REMARKS NONE			
	ADAIDKIMATERY 900 TONS	Meares	on 9/25	 
	AND 1400 TONS TOUTH.	<del></del> -	•	,
	HALD J'IN TONS TOUTH			
			3.1	
			<del></del>	74. 18
	•			n ti
			- v movement	أور شدسو شرمه و ب
	11. 51			"""大意
	wantagen (the Rett)		DAME	1-210
	INSPECTOR		DATE .	
	and the same			9/20/05
1	REVIEWED BY Anathan Brancles		DATE	110012
	()			
	1/			Contract Contract

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PT 2	ACEMENT OF GAS VENTING LAYER	FORM A-6 SHEET	/ OF / ON DATE	4-18-9
	VENTING PIPES			
1.	MATERIAL	ACCEPT	REJECT"	N/A:
	- 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 THICK- NESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS.			<u> </u>
)	- LOCATION AND ELEVATIONS OF GAS VENTING PIPES ARE SHOWN ON THE DRAWING.			<u> </u>
	- LOOSE LIFT THICKNESS LESS THAN 8".			
	- GEOTEXTILE FABRIC IS LAPPED AT LEAST 18 INCHES. USING SINCLE I STITCH			
3.	DUST CONTROL NONE REQUIRED			
4.	LOCATION (APPROXIMATE) PLACED GEOT	TEXTILE	TO N 450	£ 800
5.	REMARKS STONE WAS MOVED FROM			
	PLACED FRIDAY AND SATURDAY		SPREAD	OVER
_	THE GEOTEXTILE WHICH WAS PL	ACED,-		
	INSPECTOR Tudenck Mostile	<u> </u>	DATE 9	-28-92
)	REVIEWED BY Collin F. Sevian		DATE _	1/29/92
			•	• •

SEP 2 9 1992 DECUSOWIS

Pr.	ACEMENT OF GAS VENTING LAYER	FORM A-6 SHEET L: INSPECTION	OF _	9-24-92
	D VENTING PIPES		o properties	。
1.	MATERIAL	ACCEPT	REJECT	NA
	- CRUSHED STONE AND SAND OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.			en process
	- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED FOR GEOTEXTILE AND POLYETHYLENE PIPES. (ATTACH COPY).	<u>/</u>		tion of the state of the
2.	PLACEMENT			·.
	- JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION.			1
	- FINAL IN PLACE LOCATION AND THICK- NESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS.			
	- LOCATION AND ELEVATIONS OF GAS VENTING PIPES ARE SHOWN ON THE DRAWING.		<del></del>	∠,
	- LOOSE LIFT THICKNESS LESS THAN 8".			
	- GEOTEXTILE FABRIC IS LAPPED AT LEAST 18 INCHES.			/
3.	DUST CONTROL NONE REQUIRED		<del></del>	
4.	LOCATION (APPROXIMATE) N/A			
5	REMARKS STONE WAS SPREAD No F	ABRIC WA	s PLA	CED.
٠.	COLLIN SUKOW APPROVED THE AL			
	THE DEBRIS HAS TO BE REMOVED			
	BE PLACED.			<del></del>
	T - 10 74 - + 1-	·	<u></u>	A 700-
	INSPECTOR Trederick & Master	<del></del>	DATE	9/20/92
2	REVIEWED BY COLUM F. SWOOD	<del> </del>	DATE	Tanana Maria



PLA			OF		
	CEMENT OF GAS VENTING LAYER  VENTING PIPES	INSPECTI	ON DATE	9-30-9	
<u> </u>	VENTING FIFES	ACCEPT	REJECT	N/A	
٦.	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 THICK-				
	NESS OF GAS VENTING LAYER IS AS			1	
	SHOWN ON THE DRAWINGS.	<del></del>	<del></del>		
	- LOCATION AND ELEVATIONS OF GAS				
	VENTING PIPES ARE SHOWN ON THE				
	DRAWING.				
	- LOOSE LIFT THICKNESS LESS THAN 8".			V	
	- GEOTEXTILE FABRIC IS LAPPED AT				
	LEAST 18 INCHES.				
	DUST CONTROL NONE ZEQUILES				
l <b>.</b>	DUST CONTROL NoNE ZEQUILES				
	DUST CONTROL NONE ZERVILLS  LOCATION (APPROXIMATE) N/A				
•	LOCATION (APPROXIMATE)	SAD, FASA	uc was		
•	location (approximate) <u>N/A</u> REMARKS STONE WAS IMPORTED & SINC			·	
•	LOCATION (APPROXIMATE)				
	LOCATION (APPROXIMATE) N/A  REMARKS STONE WAS IMPONTED & SINCE  PLACED, COLLIN SUKON APPANIES THE	SUBCOME U			
	location (approximate) <u>N/A</u> REMARKS STONE WAS IMPORTED & SINC	SUBCOME U			
	LOCATION (APPROXIMATE) N/A  REMARKS STONE WAS IMPONTED & SINCE  PLACED, COLLIN SUKON APPANIES THE	SUBCOME U			
	LOCATION (APPROXIMATE) N/A  REMARKS STONE WAS IMPONTED & SINCE  PLACED, COLLIN SUKON APPANIES THE	SUBCOME U			
	LOCATION (APPROXIMATE) N/A  REMARKS STONE WAS IMPONTED & SINCE  PLACED, COLLIN SUKON APPANIES THE	SUBCOME U			
•	LOCATION (APPROXIMATE) N/A  REMARKS STONE WAS IMPONTED & SINCE  PLACED, COLLIN SUKON APPANIES THE	SUBCOME U			
	LOCATION (APPROXIMATE)N/A  REMARKSSTAKE WAS IMPORTED & SINCE PLACED, COLLIN SUREM APPROXIMATELY NSO	SUBCOME U	p 70 Ne00.	7-30-92	
	LOCATION (APPROXIMATE) N/A  REMARKS STONE WAS IMPONTED & SINCE  PLACED, COLLIN SUKON APPANIES THE	SUBCOME U	<u>p 70 √600.</u>	9-30-92	
	LOCATION (APPROXIMATE)N/A  REMARKSSTAKE WAS IMPORTED & SINCE PLACED, COLLIN SUREM APPROXIMATELY NSO	SUBCOME U	p 70 Ne00.	9-30-92	

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		FORM A-6		Serendo.
		SHEET		
PL	ACEMENT OF GAS VENTING LAYER	INSPECTI	lon: Date	10-1-92
AND	O VENTING PIPES	·	n se de jan	A STATE OF THE PARTY OF THE PAR
		ACCEPT	REJECT	N/A
1.	MATERIAL			
	· · · · · · · · · · · · · · · · · · ·			
	- CRUSHED STONE AND SAND OBTAINED FROM			in the second
	THE BORROW AREA ACCEPTED BY THE	_		
	CONSTRUCTION MANAGER.			ورجيده بيدميه حد
	CONSTRUCTION MARAGER.			
	WINTER ANTERDIA WITT APPARETALAN			
	- MANUFACTURER'S MILL CERTIFICATE			را يوني والدون والمناطقة الماء ا
	OR AFFIDAVIT HAS BEEN PROVIDED			
	FOR GEOTEXTILE AND POLYETHYLENE			
	PIPES. (ATTACH COPY).			
				153874
	PLACEMENT			
	•			
	- JOINTS IN GAS VENTING SYSTEM PIPES			;
	ARE PREPARED IN ACCORDANCE WITH		ě	. ۰۰۰،۱٬۱۰۰ سر
	MANUFACTURER'S INSTRUCTION.			
	- FINAL IN PLACE LOCATION AND THICK-			
	NESS OF GAS VENTING LAYER IS AS			
	SHOWN ON THE DRAWINGS.			
	SHOWN ON THE DEAMINGS.			
	- LOCAMION AND ELEMENTONS OF CAS			
	- LOCATION AND ELEVATIONS OF GAS			
	VENTING PIPES ARE SHOWN ON THE			<u> </u>
	DRAWING.			
	- LOOSE LIFT THICKNESS LESS THAN 8".			
	- GEOTEXTILE FABRIC IS LAPPED AT			
	LEAST 18 INCHES.			
	1 . 2			
	DUST CONTROL NONE REDUNES			
	10017TON (17707TON)		•	
r •	LOCATION (APPROXIMATE)			<del></del>
	·			
_			<b>_</b>	
•	REMARKS IMPORTED & SMEAD GRAVEL	- 70My. C	FOREXTILL	
			_	
	SAREAD TO APPROXIMATELY THE "N"	LINE (	N600).	
	— — — — — — — — — — — — — — — — — — —			•
	C. SIMON ACCEPTED UP TO P700.			<u> </u>
				· In a man
		,		
				\$
	•			
		•		
	INSPECTOR CAMP Batte		DATE	10-1-12
				4.0
	DEVITEMEN BY	ريہ	DATE	10/2/92
	REVIEWED BY Sollin Fr 20	_=	DAIL	- Table (5)
				THE ACCOUNT OF THE PARTY OF

OCT 0 2 1992

			OF	<del>T</del> E: •
	ACEMENT OF GAS VENTING LAYER  O VENTING PIPES	INSPECTI	ON DATE 10	)-Z-47
1.	MATERIAL	ACCEPT	REJECT	N/A
	- 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 THICK- NESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS.			
	- LOCATION AND ELEVATIONS OF GAS VENTING PIPES ARE SHOWN ON THE DRAWING.			<u> </u>
	- LOOSE LIFT THICKNESS LESS THAN 8".		-	
	- GEOTEXTILE FABRIC IS LAPPED AT LEAST 18 INCHES.	<del></del>		
3.	DUST CONTROL NONE REQUIRED			
4.	LOCATION (APPROXIMATE) AT SOUTH EX	us To 1	ABOUT NY	100 \$
	A 11 C - 10 - 1	650		<u> </u>
5.	REMARKS GEOTEXTILE HAS BEEN PLACE	ED TO A	PPROXIMAT	ELY
	N 700 AND E 900.			[
	INSPECTOR Frederick Market		DATE //	0-2-92
;	REVIEWED BY Collect Section		DATE /9	15/92
			-78	ar ar e significa



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			/ 47	/
	ACEMENT OF GAS VENTING LAYER	SHEET	ON DATE	10-3-12
AN	D VENTING PIPES		ja	57.2411
1.	MATERIAL	ACCEPT	REJECT	N/A
Τ.	MAIERIAD			
	- CRUSHED STONE AND SAND OBTAINED FROM			in the second
	THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.	-		
		<del></del>	. ——	<del> </del>
	- MANUFACTURER'S MILL CERTIFICATE			
	OR AFFIDAVIT HAS BEEN PROVIDED FOR GEOTEXTILE AND POLYETHYLENE			
	PIPES. (ATTACH COPY).			4 : 3
_	DI LONGUM			(i)
2.	PLACEMENT			
	- JOINTS IN GAS VENTING SYSTEM PIPES			رم آند. بعد دراد آنه ورسیدرد
	ARE PREPARED IN ACCORDANCE WITH		•	
	MANUFACTURER'S INSTRUCTION.			-
	- FINAL IN PLACE LOCATION AND THICK-			
	NESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS.			
	Shown on the brawings.			
	- LOCATION AND ELEVATIONS OF GAS			
	VENTING PIPES ARE SHOWN ON THE DRAWING.			<b></b>
	DANING.	<del></del>		
	- LOOSE LIFT THICKNESS LESS THAN 8".			
	- GEOTEXTILE FABRIC IS LAPPED AT			<b>ن</b> سد
				-
	LEAST 18 INCHES.			<del></del>
t			<del></del>	<del></del>
١.	DUST CONTROL None Requires			<del></del>
3.				
	DUST CONTROL None Regulas	THE COMPE	- /m 1121	/aras
		TAK GOAVE	_ Son TAN	/A0-65
	DUST CONTROL None Regulas	TAK GOANE		/Ands
4 .	DUST CONTROL NONE REGIMES  LOCATION (APPROXIMATE) CONTINUES PUSH	nok GOAVE	_ Son Time	/aa&\$
1.	DUST CONTROL None Regulas	TAK GOAN =	i Son man	/ands
4 .	DUST CONTROL NONE REGIMES  LOCATION (APPROXIMATE) CONTINUES PUSH	TAK GARVE	_ Sor m	/30AS
4.	DUST CONTROL NONE REGIMES  LOCATION (APPROXIMATE) CONTINUES PUSH	TAK GOAN =	i Son man	/Ands
4.	DUST CONTROL NONE REGIMES  LOCATION (APPROXIMATE) CONTINUES PUSH	1.k. GAVE	- Sor m	(20.6S)
3. 4.	DUST CONTROL NONE REGIMES  LOCATION (APPROXIMATE) CONTINUES PUSH	10k. GOAVE	- Son THIN	ands
4 .	DUST CONTROL NONE REGIMES  LOCATION (APPROXIMATE) CONTINUES PUSH		- Son THAN	(A0-68)
4 .	DUST CONTROL NONE REGIMES  LOCATION (APPROXIMATE) CONTINUES PUSH	10k. GAN-2	_ Son man	<i>A</i>
5.	DUST CONTROL NONE REGULARS  LOCATION (APPROXIMATE) CONTINUES PUSH  REMARKS None	nk GANE		Ares
5.	DUST CONTROL NONE REGIMES  LOCATION (APPROXIMATE) CONTINUES PUSH	1.K. GAV=4	DATE 2	10-5-72
5.	DUST CONTROL NONE REGULARS  LOCATION (APPROXIMATE) CONTINUES PUSH  REMARKS None	Tool		10-5-72 10/5/92

UCT 0 5 1992

	ACEMENT OF ONSITE FILL, OFFSITE FILL D STABILIZED MATERIAL ON THE CELA	FORM A-5 SHEET OF INSPECTION DATE
1.	MATERIAL	ACCEPT REJECT N/A
	- ONSITE AND OFFSITE FILL MATERIAL STABILIZED AS REQUIRED.	<u>/</u>
2.	PLACEMENT	<i>)</i>
	- 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.	<u> </u>
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 NONE REQUIRED	
5.	REMARKS LAYED OUT NEW ARE	A # 30. RESTABILIZED
	SOFT SPOTS FOUND.	
	·	766L 2 n 200
	INSPECTOR Frederick Waster REVIEWED BY Collin P. Sukon	DATE 10-5-92 DATE 10/7/92

·· - · . . .

		FORM A-6 SHEET	1 OF 1	
	ACEMENT OF GAS VENTING LAYER		ON DATE	7-6-92
ANI	O VENTING PIPES	100555	22.22	1 70
1.	MATERIAL	ACCEPT	REJECT	N/A
	- 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 THICK- NESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS.			_
	- LOCATION AND ELEVATIONS OF GAS VENTING PIPES ARE SHOWN ON THE DRAWING.			<u> </u>
	- LOOSE LIFT THICKNESS LESS THAN 8".			
	- GEOTEXTILE FABRIC IS LAPPED AT LEAST 18 INCHES.			/
3.	DUST CONTROL NONE REQUIRED			
4.	LOCATION (APPROXIMATE) To W-CINE	(0EP N)	<u> </u>	
5.	REMARKS PLACED TS-700 TO N 930			· 
	4" SAND LAYER DELETED. GAS VENT	LAYEL	LUTENED	
	TO 12" OF GAS VENT STONE.	<u></u>		
			<del> </del>	<u> </u>
	INSPECTOR Tudench Market		DATE //	) - 6 -9;
:	REVIEWED BY Colling for from		_ DATE _	4792
	• /	001	0 7 1992	

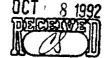
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FORM A-6
SHEET OF INSPECTION DATE 10-7-92

## PLACEMENT OF GAS VENTING LAYER

<u> AN</u>	D VENTING PIPES			
1.	MATERIAL	ACCEPT	REJECT	N/A
	- 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.		<u>.</u>	
	- FINAL IN PLACE LOCATION AND THICK- NESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS.		<del></del>	V
)	- 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 REWVINED			
4.	LOCATION (APPROXIMATE)			
-	REMARKS GEOTEXTILE WAS INSTANCE	EN NORTHWA	410 70 "h	
٠.	LINE AND FASTWAY TO EBSO. GEOTEX			
	ENTRANCE OF 3RD RAMP AWAY THE		INES	
	FASTWARD TO THE SLOPE BLEAK POIN		0.4000	<u> </u>
	INSPECTOR Ams Bart	OCT DECE	8 1992 2002 DATE &	7-7-92
\	REVIEWED BY Colling Such	, 04.	DATE /	18/92
7				

OF SHEET"\_ INSPECTION DATE 10-8-92 PLACEMENT OF GAS VENTING LAYER AND VENTING PIPES ACCEPT REJECT N/A 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 THICK-NESS 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. REQUIRED NONE DUST CONTROL 4. LOCATION (APPROXIMATE) \_ WAS PLACED TODAY, GAS VENT TS-700 REMARKS PLACED ON THE GEOTEXTILE STONE WAS HAULED AND PLACED. LREADY DATE /9/9 REVIEWED BY



FORM A-6

		FORM A-6	OF (	
. —	ACEMENT OF GAS VENTING LAYER O VENTING PIPES	INSPECTI	ON DATE 1	<u>-9-a</u>
		ACCEPT	REJECT	N/I
1.	MATERIAL			
	- CRUSHED STONE AND SAND OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.	<u> </u>		
	- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED FOR GEOTEXTILE AND POLYETHYLENE PIPES. (ATTACH COPY).	<u> </u>		
2.	PLACEMENT			
	- JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION.			
	- FINAL IN PLACE LOCATION AND THICK- NESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS.			
	- LOCATION AND ELEVATIONS OF GAS VENTING PIPES ARE SHOWN ON THE DRAWING.			<u>/</u>
	- LOOSE LIFT THICKNESS LESS THAN 8".			
	- GEOTEXTILE FABRIC IS LAPPED AT LEAST 18 INCHES.	<del></del>	<del></del>	_
3.	DUST CONTROL NONE REQUIRED			
4.	LOCATION (APPROXIMATE) N/A			
5.	REMARKS STONE WAS PLACED ON T	HE TS-7	00 WHICH	Has
	ALREADY BEEN INSTALLED.			
			<del></del> -	
				.T. 18 6.8.
	INSPECTOR Trederich Wastel	ك	DATE <u>/</u>	0-9- <b>9</b>
	REVIEWED BY Collin P. Sukon		DATE /	10/92
	Marie Da Marie I Alexander			226

FORM A-6 \_ OF 1 SHEET INSPECTION DATE 10 210-97 ACCEPT REJECT N/A

PLACEMENT OF GAS VENTING LAYER AND VENTING PIPES MATERIAL - CRUSHED STONE AND SAND OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. - MANUFACTURER'S HILL 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 THICK-NESS 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. NONE REQUIRED DUST CONTROL SITE. SOUTH SIDE 05 LOCATION (APPROXIMATE) \_ REMARKS TS-700 WAS PLACED OVER GAS VENT STONE, AT 1030 C. SUROW APPROVED THE CASVENT STONE FOR TS 700 FROM THE WEST SIDE UNDERLINER ALONG THE K-LINE (N=450) TO THE DTILITY 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 CHAUNEL. 12 PANEL WIDTH'S LAVED. DATE 10-10-92 INSPECTOR -

REVIEWED BY



DATE /0/12/92

Pr.a	CEMENT OF GAS VENTING LAYER	FORM A-6 SHEET	ON DATE	7-12-92
	VENTING PIPES	11101 2014		
1.	MATERIAL	ACCEPT	REJECT	N/A VA
	- 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).	<u>/</u>		
2.	PLACEMENT			
	- JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION.			
	- FINAL IN PLACE LOCATION AND THICK- NESS 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".		<del></del>	
	- GEOTEXTILE FABRIC IS LAPPED AT LEAST 18 INCHES.	<del></del>		
3.	DUST CONTROL None REQUIRED	<del></del>		
	11/4			
4.	LOCATION (APPROXIMATE)U/A			
5. I	REMARKS PLACED STONE WHERE TS-	700 HAS	ALREADY	
	BEEN LAYED. THE SOUTHERN MO	_		.5 "
-	STONE PLACES AND GRADED TS-700	UAS PLA	keo Over	TAEL
Δ.	TONE I PANEL WIDTH PASSED THE K-LINE.	AT 0900 K-LINE	C SUKOW NORTH TO	
T	HE O-LINE, TEAST TO THE UTILITY POLE.		گهاید عمریت باد . ۱۱ و	
	NSPECTOR Turburk & Master	<u></u>	DATE /0-	(2.2F)
R	EVIEWED BY Collin ft. Jurian	<u>,                                     </u>	_ DATE: 10/	

- 31	LACEMENT OF GAS VENTING LAYER NO VENTING PIPES	FORM A-6 SHEET INSPECTI	on date	In sacra
1.	. MATERIAL	ACCEPT	ia reject:	
	- 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).	<u>/</u>	<del></del>	4
2.	PLACEMENT			
	- JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION.			9 m
	- FINAL IN PLACE LOCATION AND THICK- NESS 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".		<del></del>	
	- GEOTEXTILE FABRIC IS LAPPED AT LEAST 18 INCHES.			
з.	DUST CONTROL NONE REQUIRE	>		
4.	LOCATION (APPROXIMATE) N/A			
5.	REMARKS No TS-700 WAS PLACED TOD.	44. THE	GAS VEN	77
	PIPE ALONG PEAK I AND THE PIP	E RUNN	NO TO	
	PEAK 2 WAS WELDED. PLACES WE	IERE STO	NE WA	5
	LESS THAN 12" WAS GRADED TO THE	PROPER	DEPTH.	714;
	C. SUKOW APPROVED THE SOUTH EAST CORNEL AREA HAD THE DEBRIS PICKED UP.	C FOR 15		
	INSPECTOR Tudenick of Masteles		DATE /	7-13-74
	REVIEWED BY Collin R. Swhow	<del></del>	DATE /	10/4

OCT 13 1997

	SHEET	L TOF	<u>(-                                    </u>
PLACEMENT OF GAS VENTING LAYER	Inspecti	ON DATE, 10	1-19-92
AND VENTING PIPES	1 corpo	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	100000
1. MATERIAL	ACCEPT	REJECT	
- CRUSHED STONE AND SAND OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.	M		
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED FOR GEOTEXTILE AND POLYETHYLENE PIPES. (ATTACH COPY).			
2. PLACEMENT			Maria Andrews
- JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION.			
- FINAL IN PLACE LOCATION AND THICK- NESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS.		<del></del>	
- 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.			
. DUST CONTROL Nove REQUIRED			
. LOCATION (APPROXIMATE) N/A		,	
. REMARKS COLLID APPROVED THE SOUTH EAS	T CORNER TO	THE L-LIA	E
AND SAID THAT IT WAS OK TO DU	ERLAP THE	TS-700. HE	Aso
APPROVED TROM THE W-LINE, SOUTH T	1. 🗸		and design a
TO 975. TS-700 WAS PLACED IN THESE	AREAS AM	D COVERE	D STATE OF THE STA
WITH STONE. 500' OF PIPE WAS WE	LOED TO DAY,	700' TO DA	7.色彩的
	·		
INSPECTOR tradeial Mostile	<u> </u>	_ : DATE <u>(0</u>	77.721
REVIEWED BY Colling Sukon		_ DATE 10	15/14
, -			

OCT 1 5 1992

		FURM A-0 SHEET		<i>!</i>
	MENT OF GAS VENTING LAYER	INSPECTI	ON. DATE	10-15
AND V	ENTING PIPES	ACCEPT	REJECT	MYS
1. M	ATERIAL	ACCEPT	REDECT.	3.1
	•			
-	CRUSHED STONE AND SAND OBTAINED FROM			
	THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.			ودار. المحاجدة
	CONSTRUCTION PANAGER.			<u> </u>
-	MANUFACTURER'S MILL CERTIFICATE			
	OR AFFIDAVIT HAS BEEN PROVIDED			ą.
	FOR GEOTEXTILE AND POLYETHYLENE PIPES. (ATTACH COPY).			•
	FIFES. (ATTACH COFT).		<del></del>	ั้งน <sub>ี</sub>
2. P	LACEMENT			
	TOTUE THE STATE OF			
~	JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH	_		1.000
	MANUFACTURER'S INSTRUCTION.			
			<del></del>	
-	FINAL IN PLACE LOCATION AND THICK- NESS OF GAS VENTING LAYER IS AS	_		•
	SHOWN ON THE DRAWINGS.			
			<del></del>	
	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. DU	ST CONTROL NONE REQUIRED			· ··
				يدجد المادد
<del></del>				
4. LO	CATION (APPROXIMATE)	EMEN OF	GAS VON	- Jakot
_	ON PEAK 1 PEAK 2 \$ IN BETWEEN PE	ous 12 2.	Arso	•
	TOTAL TENS OF THE OCCUPATION TO	· · · · · · · · · · · · · · · · · · ·		<del></del>
5. 🖚	CONTINUED PLACEMENT OF STO	NE_ ATTE	<del></del>	1.1144
				- 175 di
			·	- 32 AL
			6.4)	; ( <b>8</b> )
				<b>三月</b>
		ICT 1 6 1997	) 	Services
		Melinian M. R.		17
TNE	PECTOR Charles Bally		DATE	4-18-18
INS	A DO A	<del></del>	_ /	
REV	TEUED DY CALLEY TO BELL ON		_ DATE /	0112147
	IEWED BY (all I- funou			7 . 10

FORM A-6 SHEET OF 1 INSPECTION DATE 10-16-92 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 THICK-NESS 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 Nove 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 TRUCK LINE AND A PORTION ON THE WEST SIDE OF PEAK #3. APPROXIMATELY 100' OF PIPE WAS WELDED TODAY. DATE 10-1692 DATE 10-19-92 REVIEWED BY

Applications of the second of

FORM A-6 SHEET \_\_\_\_ OF INSPECTION DATE PLACEMENT OF GAS VENTING LAYER AND VENTING PIPES ACCEPT REJECT N/A .. 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). PLACEMENT - JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION. - FINAL IN PLACE LOCATION AND THICK-NESS 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 PROVINCES LOCATION (APPROXIMATE) REMARKS CONTINUED PLACEMENT of CAS VENT PIPE ALONG FOR Asso CINTINGO PULLINET & CAS VENT STONE DATE /2-19-92 INSPECTOR DATE 10-19-92 REVIEWED BY

DT.	ACEMENT OF GAS VENTING LAYER	FORM A-6 SHEET	OF/	0 - 19
	D VENTING PIPES	111010011	ON DAIL 17	
ı.	MATERIAL	ACCEPT	REJECT	N
	- 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).	<u>~</u>	<del></del>	
2.	PLACEMENT			
	- JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION.	_		_
	- FINAL IN PLACE LOCATION AND THICK- NESS 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.			_
•	DUST CONTROL NOME REGULARD			
•	LOCATION (APPROXIMATE) CONTINUES PLACE  EASTWAND S	centur it	5701/2-	·
•	REMARKS VONE			
		<u> </u>		
		<del></del>		
	INSPECTOR Chap Bank		DATE <u>/</u>	<u>-19-</u>
			DATE //	

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<b>M</b>		ACEMENT OF GAS VENTING LAYER  ID VENTING PIPES		ON DATE	
	1.	MATERIAL	ACCEPT	REJECT	N/A
		<ul> <li>CRUSHED STONE AND SAND OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.</li> </ul>			
		- 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 THICK- NESS 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.			
	з.	DUST CONTROL None Resures			
	4.	LOCATION (APPROXIMATE)	/4 <b>Share</b>	= GRAVEL	
9		EMSTLAND			
	5.	REMARKS Nove		<del></del>	
3			<del></del>		
9				<del></del>	<del>-</del>
		INSPECTOR Shall Ball		_ DATE _/	20-92
7		REVIEWED BY John St. For	<del></del>	_ DATE _/b	-21-92
H					

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FORM A-6 SHEET - G AOF PLACEMENT OF GAS VENTING LAYER INSPECTION, DATE. AND VENTING PIPES REJECT ACCEPT 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). PLACEMENT - JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION. - FINAL IN PLACE LOCATION AND THICK-NESS 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. None 3. DUST CONTROL \_\_ NIA 4. LOCATION (APPROXIMATE) \_\_\_\_ STONE WAS IMPORTED AND REMARKS ONLY GAS VENT OTHER ACTIVITIES PLACED TODAY, DATE (C) DATE 10 REVIEWED BY \_

-		E in OF	-1
PLACEMENT OF GAS VENTING LAYER AND VENTING PIPES	Inspect	ion, date.	10 - 2.25
l. MATERIAL	ACCEPT	REJECT	N/A
- CRUSHED STONE AND SAND OBTAINED FRO THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.	ом 		
- 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.	<u> </u>		1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
- FINAL IN PLACE LOCATION AND THICK- NESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS.			
- LOCATION AND ELEVATIONS OF GAS VENTING PIPES ARE SHOWN ON THE DRAWING.			• - 110 
- 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 ONLY GAS VENT STONE	L)AS PL	4CED 7	- ODAY
No STONE WAS RECEIVED.			
TO THE THE TENT OF			
	<del></del>	4.34	
		<del>- in the state of the state of</del>	
		e e e ty exa	
INSPECTOR Trederick Mostily	<del></del>	DATE /	0-22-92
REVIEWED BY John H. Fox Low Ing	inta)	DATE	0-23- h

PLACEMENT OF GAS VENTING LAYER INSPECTIO
AND VENTING PIPES

FORM A-6
SHEET OF INSPECTION DATE 10-23-92

. 1.	MATERIAL	ACCEPT	REJECT	N/A
	·•··			
	- 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 THICK- NESS 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 Nove REQUIRED			
4.	LOCATION (APPROXIMATE) N/A			
5.	REMARKS JOHN FOX APPROVED UP	TO THE	Q-LINE	Ans
	THE SURVEYORS HAVE VERI	FIED TO	THE	-LINE
	CHANNEL TO CHANNEL. THE			
	CLEAN AND THEN TS-700 AND WASH ANALYSIS PERFORMED ON CAS VENT S BY GEOSYNTEC. RESULT IS ATTACHED	STONE	VILL BE	PLACED
	INSPECTOR Tudench Wastell REVIEWED BY John H. Fox 10 Doognto	<u>.                                    </u>	DATE <u>(0</u> DATE <u>/</u>	
	ALL THE OIL STREET			

	FORM A-6 SHEET	/ OF	/
PLACEMENT OF GAS VENTING LAYER AND VENTING PIPES	INSPECTI	ON DATE _^	0-24-12
. MATERIAL	ACCEPT	REJECT	N/A
- CRUSHED STONE AND SAND OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.		, <del></del>	
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED FOR GEOTEXTILE AND POLYETHYLENE PIPES. (ATTACH COPY).			
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- 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 Nove Reaves			<del></del>
4. LOCATION (APPROXIMATE) <u>EAST SIDE</u>	"N" LINE 7	o " Q" L1	N8
5. REMARKS - PLANZE GEOTEXTILE S	10 " Q" LI-	IR of EA	51
TO WITHIN 10' OF THE	e exe at	THE CHAI	WEL.
STONE PUSHED OVER 1	The GEOTE	XTILL.	
		<del> </del>	<del></del>
· · · · · · · · · · · · · · · · · · ·			
INSPECTOR Charles Back	. ·	_ DATE _	
REVIEWED BY John A. tox Deckeys	to]	_ DATE <u>(0</u>	- <u>27-9</u> 2

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FORM A-6 (\_ or \_\ SHEET INSPECTION DATE 10-76-92 PLACEMENT OF GAS VENTING LAYER AND VENTING PIPES ACCEPT REJECT 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 THICK-NESS 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. NONE REQUIRED 3. DUST CONTROL 4. LOCATION (APPROXIMATE) \_\_\_\_N/A REMARKS 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. DATE 10-26-92

DATE 16-27-92

	LACEMENT OF GAS VENTING LAYER	FORM A-6 SHEET INSPECTION	OF L	-27-92
<u> A1</u>	ND VENTING PIPES	ACCEPT	REJECT	N/A
1.	MATERIAL		112020	••, ••
	<ul> <li>CRUSHED STONE AND SAND OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.</li> </ul>			
	- 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.	<u> </u>		
	- FINAL IN PLACE LOCATION AND THICK- NESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS.			
	- LOCATION AND ELEVATIONS OF GAS VENTING PIPES ARE SHOWN ON THE DRAWING.	<u> </u>	· ·	
	- LOOSE LIFT THICKNESS LESS THAN 8".			
	- GEOTEXTILE FABRIC IS LAPPED AT LEAST 18 INCHES.			
3.	DUST CONTROL NOWE REQUIRE	8		
4.	LOCATION (APPROXIMATE) N/A			
5.	REMARKS GAS VENT PIPE HAS BE			0
	PLACED TO PEAK #3, THE	TRUNK	LINE TO	
	PEAK 4 AND THE LATERAL SECT	_	EAK 4	
	REMAIN TO BE WELDED AND I	LACED.	<del></del>	<del></del>
,	INSPECTOR Tudenck & Mastelle REVIEWED BY John & Fox (Leobotic	)	_ DATE <u>//</u>	

1.

FORM A-6 1\_ OF \_1 SHEET INSPECTION DATE 10-28-92 PLACEMENT OF GAS VENTING LAYER AND VENTING PIPES REJECT ACCEPT 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 THICK-NESS 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. DUST CONTROL NONE REQUIRED 4. LOCATION (APPROXIMATE) N/A REMARKS PLACES PRIMARY GESTEXTILE TO THE V-LINE AND PRIMARY GEOTEXTILE TO PEAK #3. SOME OF THE STONE HAD TO BE REGRADED BEFORE GOWDSEAL AND LINER COULD BE PLACED, IT WAS DONE. DATE 10-21-92

DATE /0-29-92

FORM A-6 SHEET \_\_/ INSPECTION DATE 10-29-92 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 THICK-NESS 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. REQUIRED NONE 3. DUST CONTROL 4. LOCATION (APPROXIMATE) N/A REMARKS PLACED PRIMARY SOME STONE PLACED THE S-LINE. STONE JAS APPROVED BY JOHN FOX. DATE 10-29-92 DATE 10-30-92 REVIEWED BY \_

OF

FORM A-6 / OF SHEET INSPECTION DATE 10-30-12 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 THICK-NESS 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. DUST CONTROL NOWE RESUMES LOCATION (APPROXIMATE) NONTHER CONTER OF SITE SECONDANY TS 700 & STONE ENIFIED BY GEOSYNTEC & CENTIFIED DATE 10-30-92

DATE <u>//-2-92</u>

REVIEWED BY

FORM A-6 SHEET / OF INSPECTION DATE 10-31-92 PLACEMENT OF GAS VENTING LAYER ND VENTING PIPES REJECT ACCEPT 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 THICK-NESS 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. DUST CONTROL North Reovers 4. LOCATION (APPROXIMATE) NONTHERET CONNER OF SITE REMARKS PLACED SECONDAY TO 700 \$ PUSHED CAS VENT STWE IN N.E. BOWEL DATE #1-2-12 REVIEWED BY

		FORM A-6 SHEET	OF /	,
PLACEMENT OF GAS VENTING AND VENTING PIPES	LAYER	INSPECTION		
-	<u> </u>	ACCEPT	REJECT	N/A
1. MATERIAL				
~ CRUSHED STONE AND S THE BORROW AREA ACC CONSTRUCTION MANAGE	EPTED BY THE		<del></del>	<del></del>
- MANUFACTURER'S MILI OR AFFIDAVIT HAS BE FOR GEOTEXTILE AND PIPES. (ATTACH COPY	EN PROVIDED POLYETHYLENE			
2. PLACEMENT				
- JOINTS IN GAS VENTI ARE PREPARED IN ACC MANUFACTURER'S INST	ORDANCE WITH		·	
- FINAL IN PLACE LOCA NESS OF GAS VENTING SHOWN ON THE DRAWING	LAYER IS AS	<u> </u>		
- LOCATION AND ELEVAT VENTING PIPES ARE ST DRAWING.				
- LOOSE LIFT THICKNESS	S LESS THAN 8".			
- GEOTEXTILE FABRIC IS LEAST 18 INCHES.	S LAPPED AT			
3. DUST CONTROL NON	e Zeames			
4. LOCATION (APPROXIMATE)	NONTH TO "X"	and of enso	of o/s 9	200
5. REMARKS PLACED		IN ASOVE AS	EAS	
AFTER A	AMOVAL RECEIVED		7	
OF CEOSYN	TEL.	NOV 24 5 1992		
		OSCIENCES		<del></del>
INSPECTOR	1 / Sep ( )	terlyster)	DATE /	

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FORM A-6 OF PLACEMENT OF GAS VENTING LAYERV : 6 392 INSPECTION DATE 11-5-92 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). PLACEMENT - JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION. - FINAL IN PLACE LOCATION AND THICK-NESS 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. NONE REDVINED DUST CONTROL LOCATION (APPROXIMATE) NONTHEAST CONVEN OF SITE REMARKS PLACING CAS VENT SOTH TONOUTH. RECTIVED CONDITIONAL SECONDAY 73700 & GHS YEVE STONE WESTLANDS TO 9/5 750 BETWEEN NONTH CHOWNEL . THIS NEEDS THE X" (210 & THE EDGE OF TO BE BACKDENCED IN THE AM -OF 711Z DATE 1-5-92 INSPECTOR DATE 11-10-92

NOV 7 1992 DECE 75 1.7.

PLACEMENT OF GAS VENTING LAYER

FORM A-6
SHEET \_\_\_\_ OF \_\_\_\_
INSPECTION DATE \_\_\_\_\_\_\_\_

AN	D VENTING PIPES			
1.	MATERIAL	ACCEPT	REJECT	N/A
	- CRUSHED STONE AND SAND OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.			<del></del>
	- 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 THICK- NESS 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 Nove Zewiner		· · · · · · · · · · · · · · · · · · ·	
4.	LOCATION (APPROXIMATE) Nontheast Country	DF- 5182		·
5.	REMARKS PLACED DRIMARY 73700 ON G	A VOVE ST	ZVZ	
	IN NONTHEAST COUNTY, EAST of a	0/5 900 \$	ALSO	
	PLACED PRIMARY TS 700 \$ UP TO	PEAK TO.	412	
	THE CENTRAL POSTED OF THE	_		
	INSPECTOR Chris Can		DATE //	692
	REVIEWED BY John &. Toy		DATE <u>//</u>	-/8-92

VIV #8 1992

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FORM A-6
SHEET / OF /
INSPECTION DATE //-7-92 PLACEMENT OF GAS VENTING LAYER

σN	D VENTING PIPES			
1.	MATERIAL	ACCEPT	REJECT	N/A
	- 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 THICK- NESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS.		<del></del>	
	- 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 Note RESULTED			
4.	LOCATION (APPROXIMATE) NONTH SCOTE FOR	non ds	750 - 0/s 9	oo at
		506E- OF	CHAMINEE	
5.	REMARKS		~	
	TRACED SECONDARY 73 700 & GA	5 VENT - S	,/OVE	
		<del></del>		
				<del></del>
		,		
	INSPECTOR		_ DATE <u>/</u>	17-92
	REVIEWED BY John M. How Donn	2/	_ DATE //	-10-92

		FORM A-6 SHEETOF	/
· PL	ACEMENT OF GAS VENTING LAYER NOV 9 1992	INSPECTION DATE _	11-8-92
1.	IN SECOND AND A SECOND A SECOND AND A SECOND A SECOND AND A SECOND A SECO	ACCEPT REJECT	N/A
	- 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 THICK- NESS 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 NOVE RESVINED		
4.	LOCATION (APPROXIMATE) BETWEEN 0/5 -		
5.	REMARKS		
	PLACED CAS YENT STONE IN	ABOVE-	
	NOTED ANDA.	<del></del> ·	
			·
	- 12 B.C.	. Dame	11-2-97
	REVIEWED BY John L. Top (Long)	<u> </u>	1-10-92

FORM A-6 OF SHEET INSPECTION DATE 11-9-92 PLACEMENT OF GAS VENTING LAYER ND VENTING PIPES ACCEPT REJECT II/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 THICK-NESS 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. NONZ DUST CONTROL 4. LOCATION (APPROXIMATE) WELDES CAS VENT LINE BETWEEN PEAKS 3 \$ 4 & EXCAVATED WEST LATERIAL LINE ON FEAK Y. 5. REMARKS CONTINUED PUSHING STONE E CRADING STONE BETWEEN of 750 - 0/5 900 DATE 11-9-92 DATE //-/0-92 REVIEWED BY

SHEET OF INSPECTION DATE 11-10-92 PLACEMENT OF GAS VENTING LAYER AND VENTING PIPES ACCEPT REJECT H/A1. 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 THICK-NESS 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 Resuran 4. LOCATION (APPROXIMATE) NORTH Score of from REMARKS COMPLETED GAS VENT PIPING ON from PEN ALL CAS VENT PIPE LOMPLETE . CONTINUED TO SPREAD CAS VONT STONE ON NONTH SLADE IN ALEA BETWEEN of 750 DATE 11-10-92

FORM A-6

DATE //-//- 92

FORM A-6 SHEET \_\_/\_ OF \_ INSPECTION DATE 11-11-92 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 THICK-NESS 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) NONTHWOST CONVOL OF SITE 5. REMARKS DEPLOYED TO SECONDARY TO 700 & GAS VENT STONE ON WESTERN PONTON OF NOTH SLOPE, PRES AMOUED BY J. Fox. DATE \_//-//-92 DATE 1/-/2-92 REVIEWED BY

FORM A-6 SHEET \_\_/\_ OF \_/ INSPECTION DATE //-/2-92 PLACEMENT OF GAS VENTING LAYER 'ND 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). PLACEMENT 2. - JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION. - FINAL IN PLACE LOCATION AND THICK-NESS 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. DUST CONTROL NOME RESUMED LOCATION (APPROXIMATE) NONTHERST CONVEY OF SITE, WEST TO 0/5 750 2 North ATAK REMARKS CONTINUED GRADING GAS VENT STONE TROOP - ALSO IMPORTING IT. J. TOX AMANONED WAS VEVT STONE W NE CONNER OF SITE EASTWANDS TO 0/3 750 AM DATE //-/2-92-DATE //-/3-93

PLACEMENT OF GAS VENTING LAYER INSPECTION DATE //-/5-72-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 THICK-NESS 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 LOCATION (APPROXIMATE) BOTHER FORES 344 REMARKS PLACED PRIMARY TO 700 AT ACOUT LOCATION APPROVAL FROM A. FOX NOV 1 6 1992 DATE //-/6-12 DATE 1/-/6-92 REVIEWED BY

FORM A-6

SHEET

/ OF /

INSPECTION DATE 11-17-92 · 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 THICK-NESS 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. DUST CONTROL Nove Resures 4. LOCATION (APPROXIMATE) NORTH END AL SUTTE COVERED CELA IN ABOVE MEA W REMARKS GEOTEXTILE APPRIVED BY DATE 4-17-12 INSPECTOR DATE //-/8-92 REVIEWED BY

FORM A-6

SHEET \_\_/\_ OF \_

FORM A-6 SHEET \_\_\_\_ OF \_ INSPECTION DATE 11-18-92-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 THICK-NESS 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. NONE ZERVINED 3. DUST CONTROL 4. LOCATION (APPROXIMATE) NONTH SCHOOL - AREA BOTHOW 0/5 750 \$ CEOTEXTUR IN ABOVE ANDA STALLING WIT INSTEAD DATE 1-18-92 DATE //-/9-72

	FORM A-6 SHEET		,
PLACEMENT OF GAS VENTING LAYER		ON DATE /	1-19-92
THE VEHILLING LIVES	ACCEPT	REJECT	N/A
1. MATERIAL			
- CRUSHED STONE AND SAND OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.			
<ul> <li>MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED FOR GEOTEXTILE AND POLYETHYLENE PIPES. (ATTACH COPY).</li> </ul>	_		
2. PLACEMENT			
- JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION.			
- FINAL IN PLACE LOCATION AND THICK- NESS 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.	<del></del>		
3. DUST CONTROL NONE ZEQUINES			
4. LOCATION (APPROXIMATE) Nonth Sug	P\$		
5. REMARKS PLAKED (AS VENT STONE	WHERE		
CECONDAY B GEOTEXTILE U	VAS		
PLACED YESTERDAY			
	NOV	2 0 1992	
		CENTEN 1. 7.	
INSPECTOR	1 )	DATE _/	
REVIEWED BY John R. TVI (Now)	10)	DATE //	-20-92

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	ACEMENT OF GAS VENTING LAYER TRANSPORT	19 <b>92</b> ଅଞ୍ଚଳ		OF /	-20-92
	D VENTING PIPES	5	ACCEPT	REJECT	N/A
1.	MATERIAL  - CRUSHED STONE AND SAND OBTAINED THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.				
	<ul> <li>MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED FOR GEOTEXTILE AND POLYETHYLENE PIPES. (ATTACH COPY).</li> </ul>				
2.	PLACEMENT				
	- JOINTS IN GAS VENTING SYSTEM PI ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION.				
	- FINAL IN PLACE LOCATION AND THI NESS OF GAS VENTING LAYER IS AS SHOWN ON THE DRAWINGS.	CK-	_		
	- LOCATION AND ELEVATIONS OF GAS VENTING PIPES ARE SHOWN ON THE DRAWING.				
	- LOOSE LIFT THICKNESS LESS THAN	3".			
	- GEOTEXTILE FABRIC IS LAPPED AT LEAST 18 INCHES.		_ <del></del>		
3.	DUST CONTROL Nove REQUIRE				
4.	REMARKS PLACED PRIMARY CEOR				<u> </u>
٠.			X of CE		
	STONE APPROVED BY	<u>, 4-7-</u>	Care	15 7N1EC	
					<del></del>
					<del></del>
	INSPECTOR Charles Contract	>		_ DATE _//	-20-92
	REVIEWED BY Sonoth, Bande	X		DATE ///	121/12
			· ————	7	

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		NOV 2 4 199	2FORM A-6/	OF /	
	LACEMENT OF GAS VENTING LAYER ND VENTING PIPES	TER	INSPECTION	DATE //-	
` 	. MATERIAL	80	ACCEPT	REJECT	N/A
	- CRUSHED STONE AND SAND OBTA THE BORROW AREA ACCEPTED BY CONSTRUCTION MANAGER.		_		··
	- MANUFACTURER'S MILL CERTIFI OR AFFIDAVIT HAS BEEN PROVI FOR GEOTEXTILE AND POLYETHY PIPES. (ATTACH COPY).	DED	_		
2	. PLACEMENT				
	- JOINTS IN GAS VENTING SYSTEM ARE PREPARED IN ACCORDANCE MANUFACTURER'S INSTRUCTION.		<u>/</u>	· ·	
	- FINAL IN PLACE LOCATION AND NESS OF GAS VENTING LAYER IS SHOWN ON THE DRAWINGS.			<del></del>	
)	- LOCATION AND ELEVATIONS OF C VENTING PIPES ARE SHOWN ON T DRAWING.				
	- LOOSE LIFT THICKNESS LESS TH	IAN 8".	<del></del> -		
	- GEOTEXTILE FABRIC IS LAPPED LEAST 18 INCHES.	AT	<del></del> -		
3.	DUST CONTROL NONE REDUIRE	70			
4.	LOCATION (APPROXIMATE)	west Con	ier :		
5.	REMARKS			1-	
	CONTINUES PUSHING		STONE K	J72	
	THE NONTHWEST CON	LNEW			
		<u> </u>	<del></del>	<del></del>	
	INSPECTOR	2		DATE //-	3-92
	REVIEWED BY ANAMON OF	undes	<del></del>	DATE <u>///2</u>	4/92

FORM A-6 NOV 2 2 1992 HEET \_\_/\_\_ OF INSPECTION DATE 11-21-92-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 THICK-NESS 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) NOTTHEST COLLER OF SITE AND THE North Stage 5. REMARKS THE LAST OF THE CELA SUBCINOS IN THE NONTHWEST CORNER OF THE SLIFE WAS APPRINTED BY CONSYNTER AND THE SECONDAM CEOTEXTHE LAYER WAS THEN COMPLETED. JAM YEST STONE PLACEMENT THEN BEGAN IN THIS AREA. PALMAN GENTERTHE WAS ALSO DLACED IN DESTRUCTION OTHER APPRILED BY GETYMEE.

INSPECTOR

REVIEWED BY

DATE 1-21-92

NOV 2 5 1992 FORM A-6 SHEET \_\_\_\_\_OF \_ PLACEMENT OF GAS VENTING LAYER INSPECTION DATE //-24-92 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 THICK-NESS 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. DUST CONTROL NONE REQUIRED 4. LOCATION (APPROXIMATE) A CANADAT CONTINUED TO IMPORT PLACE REMARKS GAS VENT STONE IN THE NONTHINGS CONNER OF THE SITE

INSPECTOR STATES

REVIEWED BY mathem brance

DATE 11/25/92

NOV 3 0 1992

FORM A-6

/ OF / SHEET \_ INSPECTION DATE 11-25-92 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 THICK-NESS 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. DUST CONTROL NONE ZEOUINES MONTHUEST CONTEL 4. LOCATION (APPROXIMATE) SMPLETED THE IMPORTING & PLACEMENT REMARKS CECTEXTUR. DATE \_ INSPECTOR

DEC 0 2 1992 DEC 22 VIEW JEB

FORM A-6		
SHEET	_ OF <u>/</u>	<u></u>
INSPECTION		

## PLACEMENT OF GAS VENTING LAYER AND VENTING PIPES

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 THICK-NESS 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. DUST CONTROL NONE REDUCED 4. LOCATION (APPROXIMATE) NORTHWEST CONNER OF THE SITE REMARKS RECEIVED APPRIVATE FROM J. BRINDES OF GESSYNTE 5. ON LAST OF EXPOSED - GAS VENT STONE ALL CAS VENT STONE IS NOW ACCEPTED. DATE /2-/-92 INSPECTOR REVIEWED BY

HEC 0 3 1992 FORM A-6 SHEET \_\_/\_ OF \_ INSPECTION DATE /2-2-92 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). PLACEMENT - JOINTS IN GAS VENTING SYSTEM PIPES ARE PREPARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION. - FINAL IN PLACE LOCATION AND THICK-NESS 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. DUST CONTROL NONE REDVINED MONTHWEST CONVER of THE SITE LOCATION (APPROXIMATE) \_ REMARKS PLACING PRIMARY GEOTEXTILE ON GAS VENT STONA TODAY IN ANEA PREVIOUSLY ALLEGED BY GEOSYNTER USING TS1000 GEOTETTILE of OVERLAPPING IT AS REGULAD

DATE /2-2-92

INSPECTOR

	!	DEC 0 4 1992	FORM A-6	/ 05	/
ימ	ACEMENT OF GAS VENTING LAYER	DEC U 4 1992 DECENTED	THERET	ON DATE /	<u>'</u> Z-3 <i>9</i> 7
	D VENTING PIPES	(JEB)			
1.	MATERIAL		ACCEPT	REJECT	N/A
	- CRUSHED STONE AND SAND OBTAIN THE BORROW AREA ACCEPTED BY T CONSTRUCTION MANAGER.		_		
	- MANUFACTURER'S MILL CERTIFICA OR AFFIDAVIT HAS BEEN PROVIDE FOR GEOTEXTILE AND POLYETHYLE PIPES. (ATTACH COPY).	D	_		
2.	PLACEMENT				
	- JOINTS IN GAS VENTING SYSTEM ARE PREPARED IN ACCORDANCE WI MANUFACTURER'S INSTRUCTION.				
	- FINAL IN PLACE LOCATION AND T NESS OF GAS VENTING LAYER IS SHOWN ON THE DRAWINGS.		<u> </u>	·	
	- LOCATION AND ELEVATIONS OF GA VENTING PIPES ARE SHOWN ON TH DRAWING.		_		
	- LOOSE LIFT THICKNESS LESS THA	и в".			
	- GEOTEXTILE FABRIC IS LAPPED A LEAST 18 INCHES.	r			·
	DUST CONTROL None Zeonia	Δ			
•	LOCATION (APPROXIMATE)	mes C	enver of	-5,	
•	REMARKS /NSTALLING 75 1000		any cons	TOTAL	
	ON GAS VENT STONG	ACCE	750 JY CE	USYN/O-E	
	161 87		•	/	2 3 62
	INSPECTOR			_ DATE Z	27-12-

DEC U 7 1992

SEB FORM A-6
SHEET OF
INSPECTION DATE 12-4-92

_	ACEMENT OF GAS VENTING LAYER D VENTING PIPES	INSPECTI	ON DATE _	2-4-72
	MATERIAL	ACCEPT	REJECT	N/A
	- 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 THICK- NESS 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.			
•	DUST CONTROL NONE REQUIRED			
•	LOCATION (APPROXIMATE) WEST SIDE AN		NEAL	
•	REMARKS	40 INTO C	ELA	
	PUTTING LAST OF PRIMARY	CENTESTILE		
	ON GAS VENT STAR - TO 1000	OVERLAN	<u>&amp;</u>	
	NOT STITZHAD			
	Transport Ol. B=F		DATE Z	2-1
	INSPECTOR		DATE Z	

, GUNDSEAL LINER	MAY 2 7 1993	SHEET INSPECTI	ON DATE	1-20-
1. MATERIAL	(JEB	ACCEPT	REJECT	N/A
HANNEACTUPER'S AFFIDAVIT HAS E	MILL CERTIFICATE OR BEEN PROVIDED			
	TS, RIPS, HOLES, ATION OR DAMAGE.			-
2. UPPLETOATION INSP	ECTION			
FINER IS TO BE	ER ON WHICH GUNDSEAL LAID IS SMOOTH, FREE SURFACE CHANGES AND	_		
SUBEACE IS FREE AND POORS LARGER IN DIAMETER.	FROM FROTRUSIONS THAN 1/2 INCH			
CAELTUD TO YL TE	AST 24 INCHES			
- GUNDSEAL LS FROTE AFTER IT IS INST.				
. PEST CONTROL				
VOLTON LYREN V	//A			·
LOCATION (APPROXIMA				
N-W corner			<del></del>	<del></del>
REMARKS Gundze	al intallation	NOW CO	ap Ute	
CE TRICERI I DIN UMANA	9000			<del></del>
SF INSTALLED TODAY =				
SF INSTALLED TO DATE	= 596,698			
INSPECTOR January	pto		DATE 5	27-52
REVIEWED BY Smath	- V lac		DATE SZZ	102

GINDSHM, LIHER	<b>1988</b> 2 7 <b>1993</b>	SHEET	ON DATE _	5-25
1. MATERIAL	(JER)	ACCEPT	REJECT	N/A
- MANUFACTURER'S ( AFFIDAVIT HAS BI	MILL CERTIFICATE OR EEN PROVIDED	_		
FREE FROM DEFECT				
. TEPTETCATION INSPE	CCTION			
FIHER IS TO BE L	R OH WHICH GUNDSEAL AID IS SMOOTH, FREE URFACE CHANGES AND			
SURFACE IS FREE AND POORS LARGER				
OVERTAR IS AT LEA	AST 24 INCHES			
- CUNDSEAR IS FROTEC AFTER IT IS INSTA				
PHET COUTROL				
ACTION TAKEN	IONE			<u>.</u>
LOCATION (APPROXIMATE  West Change		6 North	to C118	
REMARKS				<u>_</u>
SF INSTALLED TODAY =	9,000-			<del></del>
SF INSTALLED TO DATE	= 587, 6982			
INSPECTOR James	fr Martin		DATE SE	93
//	. /// /.		-6	4_ 1

	SPOPM, LINER	MAY 2 4 1993	SHEET <u>/</u> Inspecti	ON DATE	-24-9
1 1	. HALFPIAL	OF STANKE)	ACCEPT	REJECT	H/A
	MANUFACTURER'S AFELDAVIT HAS	NILL CERTIFICATE OR BEEN PROVIDED			
		CTS, RIPS, HOLES, PATION OR DAMAGE.			
2.	TENTRICATION THS	PECTION			
	FINER IS TO BE	YER ON WHICH GUNDSEAL LAID IS SMOOTH, FREE SURFACE CHANGES AND ED.			-
		E FROM PROTRUSIONS ER THAN 1/2 INCH			
	OVERTAR IS AT I	EAST 24 INCHES			
	CUNDSEAL 15 FROT AFTER IT IS INS		~		
. ر	DUST CONTROL	Ma			
	ACTION TAKEN	N/A			
4.	LOCATION (APPROXIM	· •			
5.	REMARKS				
	SE INSTALLED TODAY	= 6,000-			
	SF INSTALLED TO DAT	E = 584, 698			
3	INSPECTOR Janu	4 Martis		DATE <u>5-2</u>	4-93
F	FUTEWED BY	rathan Brandes		DATE Spe	43

ं द्वामान्त्रक । । । । । ।	MAY 1 9 1983	SHEET INSPECTI	ON DATE	/ 5-19-13
1. MATERIAL	(ZEB)	ACCEPT	REJECT	H/A
41	S HILL CERTIFICATE OR BEEN PROVIDED			
	ECTS, RIPS, HOLES, OPATION OR DAMAGE.			
2. PERIFFORMION IN	SPECTION			
LINER IS TO BE	AYER ON WHICH GUNDSEAL E LAID IS SMOOTH, FREE R SURFACE CHANGES AND DED.			
	E FROM PROTRUSIONS ER THAN 1/2 INCH	_		
- OVERIAR IS AT	LEAST 24 INCHES			
- GUNDSEAU - IS FROM AFTER IT IS INS				
з. мят сонтвон				
ACTION TAKEN	NONE REQUIRED			
4. LOCATION (APPROXI				
op exter	north Chancel	OBNER	1/05 52	ا - د
5. REMARKS				
SF INSTALLED TODAY	= 9,000 -			
SF INSTALLED TO DA	TE = 578 688			
INSPECTOR	un la Maria		DATE 579	9-53
DEVIEWED BY And	than Branelas		DATE 5/20	193

, GUNDSEAL L	INER	MAY 1 9 1 <b>993</b>		OH DATE	
1. MATER	IAL	1 25 W	ACCEPT	REJECT	N/A
.,	UFACTURER'S MI IDAVIT HAS BEE	LL CERTIFICATE OR N PROVIDED			
		, RIPS, HOLES, ION OR DAMAGE.			
2. VERIF	CATION INSPEC	TION			
LINE FROM	R IS TO BE LA	ON WHICH GUNDSEAL ID IS SMOOTH, FREE RFACE CHANGES AND	<u> </u>		
AND	ACE IS FREE FE ROCKS LARGER T LAMETER.	ROM PROTRUSIONS THAN 1/2 INCH			
- OVER	LAP IS AT LEAS	T 24 INCHES			
	AL IS PROTECT R IT IS INSTAL			<del></del>	<del></del>
3. DUST CO	ONTROL				
ACTION	TAKEN	Moné REQUIRE	0		
4. LOCATIO	N (APPROXIMATE	· · ·			
5. REMARKS		installed	/'a = = p=	T Guga	me!
SF INS	STALLED TODAY =	6,000			
SF INS	STALLED TO DATE =	= 139.6982			
INSPECTO	OR James	1 Martin		DATE <u>5</u>	
REVIEWED	BY fratha	Kraneles	<del></del>	DATE <u>5/2</u>	<del>*/93</del>

.

1. MATERIAL  - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED  - FREE FROM DEFECTS, RIPS, HOLES, FLAMS, 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 NOWE RESUMED  4. LOCATION (APPROXIMATE)  - MONTHER CONNEL OF CENT.  SF INSTALLED TODAY = MONTHER TOWARD CANCEL OF CENT.  SF INSTALLED TODAY = MONTHER TOWARD CANCEL OF CENT.  SF INSTALLED TODAY = MONTHER TOWARD CANCEL OF CENT.  SF INSTALLED TODAY = MONTHER TOWARD CANCEL OF CENT.  SF INSTALLED TODAY = MONTHER TOWARD CANCEL OF CENT.  SF INSTALLED TODAY = MONTHER TOWARD CANCEL OF CENT.  SF INSTALLED TODAY = MONTHER TOWARD CANCEL OF CENT.  SF INSTALLED TODAY = MONTHER TOWARD CANCEL OF CENT.  SF INSTALLED TODAY = MONTHER TOWARD CANCEL OF CENT.  SF INSTALLED TODAY = MONTHER TOWARD CANCEL OF CENT.  SF INSTALLED TODAY = MONTHER TOWARD CANCEL OF CENT.  SF INSTALLED TODAY = MONTHER TOWARD CANCEL OF CENT.  SF INSTALLED TODAY = MONTHER TOWARD CANCEL OF CENT.  SF INSTALLED TODAY = MONTHER TOWARD CANCEL OF CENT.  SF INSTALLED TODAY = MONTHER TOWARD CANCEL OF CENT.  SF INSTALLED TODAY = MONTHER TOWARD CANCEL OF CENT.	<b>_</b>	DEC 2 1 1992	SHFFT	/ OF	,
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  - LOCATION (APPROXIMATE)  - MEATHERY COANES OF CEAR  5. REMARKS  - FUERD PANG ON SO COMMENTS OF COANES OF CUASA SEPTIMENTALIZATION OF CUASA SEPTIMENTS OF CUASA S	. GUNDSEAL LINER	DECENVE	INSPECTI	ON DATE	2-19-9
AFFIDAVIT HAS BEEN PROVIDED  - FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE.  2. VERIFICATION INSPECTION  - GAS VENITING 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  - GUNDSFAI, IS PROTECTED FROM RAIN AFTER IT IS INSTALLED.  1. DUST CONTROL  ACTION TAKEN NOW EXAMPLED  4. LOCATION (APPROXIMATE)  MONTHERY CONNEY OF CENT.  5. REMARKS  - SE INSTALLED TODAY = NAME NO SEE VINCOLUMN. CENT.  SF INSTALLED TO DATE = 52.3, 1985F (90, 54.5F + 527/32)  INSPECTOR  DATE (2-1)	1. MATERIAL	716 76 D	ACCEPT	REJECT	U/8
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 NOW REPAIRED  4. LOCATION (APPROXIMATE)  - LOCATION (APPROXIMATE)  - SE INSTALLED TODAY = NOW RESERVED.  DATE (2-1)  INSPECTOR NOW RESERVED.	al .		_		
- 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  - GUNDSFAL IS PROTECTED FROM RAIN AFTER IT IS INSTALLED.  3. DUST CONTROL ACTION TAKEN NONE REDUCED  4. LOCATION (APPROXIMATE)  - MONTHERST CONNER OF CENT  SF INSTALLED TODAY = MINERAL SEPTIMENT 1625 SF SF INSTALLED TO DATE = 563, 698 SF (40, 54 SF 577)32_)  INSPECTOR  DATE 12-17				<del></del>	
LIHER 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  - GUNDSRAI, IS FROTECTED FROM RAIN AFTER IT IS INSTALLED.  3. DUST CONTROL ACTION TAKEN North Repurato  4. LOCATION (APPROXIMATE)  - MONTHERS CONNER OF CENT  SF INSTALLED TODAY = MONTHS 1625 SF SF INSTALLED TO DATE = 57.3, 698 SF (40, 24.55 + 527.132.)  INSPECTOR MALE ON THE STATE OF THE STATE O	2. VERIFICATION I	NSPECTION			
AND ROCKS LARGER THAN 1/2 INCH IN DIAMETER.  - OVERLAP IS AT LEAST 24 INCHES  - GUNDSFAI, IS PROTECTED FROM RAIN AFTER IT IS INSTALLED.  3. DUST CONTROL ACTION TAKEN None Repurses  4. LOCATION (APPROXIMATE)  MONTHERS CONNER OF CENT  5. REMARKS  - FLANCE PANCE ON EN JANTHEMSTOWNEST CONNER OF THAT SF INSTALLED TODAY = NOTATION 1/25 SF SF INSTALLED TO DATE = 57.3, 498 SF (90, 546 SF + 527/32_)  INSPECTOR  MATTER 1/2 - 17	LINER IS TO FROM IRREGUL	BE LAID IS SMOOTH, FREE AR SURFACE CHANGES AND			
-GUNDSEAL, IS PROTECTED FROM RAIN AFTER IT IS INSTALLED.  3. DUST CONTROL ACTION TAKEN NONE REDVICED  4. LOCATION (APPROXIMATE)  NONTHERS CONNER OF CENT  5. REMARKS  PLANCE PANEL ON SO DATHERSTEADINGST CONNER OF GLA- SF INSTALLED TODAY = MATTERNAL 1625 SF  SF INSTALLED TO DATE = 523,698 SF (40,56.5F + 523,132)  INSPECTOR  DATE 12-17	AND ROCKS LA				
AFTER IT IS INSTALLED.  3. DUST CONTROL  ACTION TAKEN NONE REDVINED  4. LOCATION (APPROXIMATE)  NONTHEAST COUNTRY OF CENT  5. REMARKS  PLANCED PANEL ON EN NONTHEASTERNINGST CONNEL OF CENT  SF INSTALLED TODAY = NOTHEASTERNING CENT  SF INSTALLED TO DATE = 523,698 SF (40,566 SF + 523/32)  INSPECTOR  DATE /2-19	- OVERLAP IS AT	LEAST 24 INCHES			
ACTION TAKEN NONE REDVINED  4. LOCATION (APPROXIMATE)  NONTHERST CONNER OF CENT  5. REMARKS  PLACED PANEL ON BY NONTHERSTOWNOST CONNER OF CENT  SF INSTALLED TODAY = MINISTAN 1625 SF  SF INSTALLED TO DATE = 57.3, 498 SF (40, 54 SF + 523/32.)  INSPECTOR  DATE 12-19					
4. LOCATION (APPROXIMATE)  NONTHERST CONNER OF CELA  5. REMARKS  PLANCED PANGE ON SOME MONTHERSTENDINGST CONNER OF CELA-  SF INSTALLED TODAY = MATTERN 1625 SF  SF INSTALLED TO DATE = 57.3, 698 SF (40, 566 SF + 523/32_)  INSPECTOR  DATE 12-19	3. DUST CONTROL				
SF INSTALLED TO DATE = 57.3, 698 SF ( 90, 966 SF + 523/32 )  INSPECTOR LIMIT FOR CENTER 1/2 - 1/2	ACTION TAKEN _	NoNE REDVINED			<del></del>
SF INSTALLED TODAY = STATEM 1625 SF  SF INSTALLED TO DATE = 57.3, 698 SF (40, SL6.SF + 523/32.)  INSPECTOR LANGE CONTROL CELA-  DATE 12-17	,				
SF INSTALLED TODAY = MISTERN 1625 SF  SF INSTALLED TO DATE = 57.3, 698 SF (40, 56 SF + 523/32)  INSPECTOR DATE   DATE   /2-17	5. REMARKS				
SF INSTALLED TO DATE = 57.3, 698 SF (40, SL6.SF + 523/32)  INSPECTOR OATE /2-17	PLACED 74N	EL ON EN NONTERSTOWN	MOST CONNER	of our	
SF INSTALLED TO DATE = 57.3, 698 SF (40, SLC SF + 523/32_)  INSPECTOR	SF INSTALLED TOD				
	SF INSTALLED TO	<i>,</i>			
A -A- ( D )	INSPECTOR	los bas		DATE /2	11-91
REVIEWED BY Frankles DATE 12-22	REVIEWED BY	enation Brancles		DATE 12-	22-92

- 1

GUNDSEAL LINER	0EC 07 1992	SHEET	/ OF /	2/4/9
1. MATERIAL	1 <u>2</u> €8	ACCEPT	REJECT	N/A
	RER'S MILL CERTIFICATE OR HAS BEEN PROVIDED			
	DEFECTS, RIPS, HOLES, PERIORATION OR DAMAGE.			
2. VERIFICATION	INSPECTION			
LINER IS T	G LAYER ON WHICH GUNDSEAU O BE LAID IS SMOOTH, FREE ULAR SURFACE CHANGES AND GRADED.	$\sqrt{}$		
	FREE FROM PROTRUSIONS LARGER THAN 1/2 INCH R.			
- OVERLAP IS	AT LEAST 24 INCHES		<del></del>	
	FROTECTED FROM RAIN INSTALLED.	$\checkmark$		<del></del>
J. DUST CONTROL				
ACTION TAKEN	Nove Resures			
4. LOCATION (AFF	ROXIMATE) NORTH WEST CORN	e-/_		
5. REMARKS <u>C</u>	MPLETED GUNDSFAL DEP	LOYMEVITO	W	
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	LA TODAY			
SF INSTALLED	TODAY = - 48,00	0 st	CELA	<u> </u>
SF INSTALLED	TO DATE = 562,073 SF (5	,	521,507.sF	<del>)                                    </del>
INSPECTOR	Post of A Date	<u> </u>	DATE <u>/2</u>	-7-9 <del>2</del>
REVIEWED BY	prathan Brandes		DATE /2	4/9=

G	SUNDSEAL LINER	DEC 0 4 1992	SHEET		12/3/92
1.	. MATERIAL	(ZEB)	ACCEPT	REJECT	N/A
	- MANUFACTURER'S MILL CE AFFIDAVIT HAS BEEN PRO		$\sqrt{}$	<del></del>	
₹.	- FREE FROM DEFECTS, RIPS FLAWS, DETERIORATION OF				
2.	VERIFICATION INSPECTION				
	GAS VENTING LAYER ON WELLINER IS TO BE LAID IS FROM IRREGULAR SURFACE UNIFORMLY GRADED.	SMOOTH, FREE			
	- SURFACE IS FREE FROM PE AND ROCKS LARGER THAN I IN DIAMETER		$\angle$		
	- OVERLAP IS AT LEAST 24	INCHES	$\checkmark$		
	- GUNDSEAL, IS FROTECTED FR AFTER IT IS INSTALLED.	OM RAIN			
. ا	DUST CONTROL				
1	ACTION TAKEN NONE TO	ZEQUIRED			
4.	LOCATION (APPROXIMATE)	<i>5</i> 2			
5.	REMARKS NONE				
S.C.	SF INSTALLED TODAY = 12,  SF INSTALLED TO DATE = 574	400 SF 4,073 SF (40,52	uron CRLA C + 473,50	7)	
	INSPECTOR Am 6	a T		DATE /2	3-92
».	REVIEWED BY Anathan.	handes		DATE 17	4/92

GUNDSEAL LINER	DEC 0 3 1992	SHEET INSPECTI	ON DATE	12/2/3
1. MATERIAL	TES !	ACCEPT	REJECT	N/A
	R'S MILL CERTIFICATE OR AS BEEN PROVIDED	$\underline{v}'$ .		
- FREE FROM DE FLAWS, DETER	RIORATION OR DAMAGE.			
2. VERIFICATION I	NSPECTION			
LINER IS TO	LAYER ON WHICH GUNDSEAL BE LAID IS SMOOTH, FREE AR SURFACE CHANGES AND ADED.		·	
	REE FROM PROTRUSIONS RGER THAN 1/2 INCH	<u>/</u>		
- OVERLAP IS AC	r LEAST 24 INCHES	<u>.</u>		<del></del>
- GUNDSEAL IS FE AFTER IT IS I	ROTECTED FROM RAIN			
. DUST CONTPOL				
ACTION TAKEN _	HONE REQUIRED	<del> </del>		
				<del></del>
LOCATION (AFFRO.	XIMATE)  CORNER			
<i></i>			<del></del> .	
s. REMARKS	NZ_			<del></del>
SF INSTALLED TO	DAY = 24, 800 SF	<del></del>		<del></del>
<i>/</i>	/ UNIC		(ELA )	
	) - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	7	7 38 7	
INSPECTOR	houther to all		DATE <u>/2</u>	-2-92
REVIEWED BY	meethan brancles	ر _	DATE /Z/	13/92

G	GUNDSEAL LINER	DEC 0 2 1992	SHEET INSPECTI	ON DATE	2/1/92
- 1.	. MATERIAL	A SECTION OF THE PERSON OF THE	ACCEPT	REJECT	N/A
-	- MANUFACTURER'S AFFIDAVIT HAS	MILL CERTIFICATE OR BEEN PROVIDED			
		CTS, RIPS, HOLES, RATION OR DAMAGE.			
2.	VERIFICATION INSE	PECTION			
	LINER IS TO BE	ER ON WHICH GUNDSEAL LAID IS SMOOTH, FREE SURFACE CHANGES AND D.	$ \checkmark $	-	
		FROM PROTRUSIONS R THAN 1/2 INCH			
	- OVERLAP IS AT L	EAST 24 INCHES			
	-GUNDSEAL IS FROT				
•	DUST CONTROL				
	ACTION TAKEN	VONE RESURGE			<del></del> _
4.	LOCATION (AFFROXIM	·			
5.	REMARKS				
0.4					
X.	SF INSTALLED TODAY	973		sometimen )	
υ.	SF INSTALLED TO DAT	TE = 476, MS SF (43	6,307 + 40	566	<del></del>
	_				j
	INSPECTOR	me fort		_ DATE <u>/2</u>	-/-22-

GUNDSEAL LINER	DEC V 1 1992	FORM A SHEET INSPECT	/_ OF /	1 11/30/
	PERIOD WED			
MATERIAL	3 3 N	ACCEPT	REJECT	11/1
	S MILL CERTIFICATE OR BEEN PROVIDED		<i></i>	
	ECTS, RIPS, HOLES, DRATION OR DAMAGE.			_
2. VERIFICATION INS	SPECTION			
LINER IS TO BE	YER ON WHICH GUNDSEAL LAID IS SMOOTH, FRE SURFACE CHANGES AND DED.	E		
	E FROM PROTRUSIONS ER THAN 1/2 INCH	$ \checkmark $		
- OVERLAP IS AT	LEAST 24 INCHES			
- GUNDSEAL , IS PROT AFTER IT IS INS				<del></del>
3. DUST CONTROL				
ACTION TAKEN	NONE REDVINED			
	Wamp)			
LOCATION (APPROXI	local END.			
. REMARKS				<del></del>
SF INSTALLED TODAY		UNOGRUJE	CELA	
SF INSTALLED TO DE	ATE = 458,273 SF (	40,566 +	417,707	
INSPECTOR	no Bal		DATE <u>//-</u>	30-92
REVIEWED BY	then brandos		DATE [7	192

	undspal liner	NOV 2 5 1992		7 OF ION DATE	11/24/98
1.	MATERIAL	0000	ACCEPT	REJECT	H/A
	- MANUFACTURER'S MILL AFFIDAVIT HAS BEEN I	CERTIFICATE OR PROVIDED		A	<del></del>
	- FREE FROM DEFECTS, R FLAMS, DETERIORATION	RIPS, HOLES, OR DAMAGE.		- 4	
2.	VERIFICATION INSPECTIO	N			
	- GAS VENTING LAYER ON LINER IS TO BE LAID FROM IRREGULAR SURFAC UNIFORMLY GRADED.	IS SMOOTH, FREE			
	- SURFACE IS FREE FROM AND ROCKS LARGER THAN IN DIAMETER.			<u>.</u>	
	- OVERLAP IS AT LEAST 2	4 INCHES			
	The second secon			p , 4-4-44	
	- GUNDSFAL IS PROTECTED AFTER IT IS INSTALLED		$\overline{}$		
3,	DUST CONTROL				
	ACTION TAKEN	Reduined			
4. 1	LOCATION (APPROXIMATE)  Nocy 64	L ENO			
5. <b>;</b>	REHARKS			n simulmine distri	
<del>-</del>		6.6		garante de la composição de la composiçã	
_	SF INSTALLED TODAY = S	76, 000	<del></del>		
-	SF INSTALLED TO DATE =	419,273			
Ti	SPECTOR _ Chino (	3		DATE //	24/22
	EVIEWED BY Another	San La		DATE ///Z	

ı	NOV 2 3 1992	FORM A-	7 / OF /	,
CUNDERAL LINER	DECEMBE		OH DATE Z	
1. MATERIAL	11 350 M	ACCEPT	REJECT	H/A
- MANUFACTURER'S AFFIDAVIT HAS	MILL CERTIFICATE OR BEEN PROVIDED			
- FREE FROM DEFE FLAMS, DETERIOR	CTS, RIPS, HOLES, RATION OR DAMAGE.			•
2. VERIFICATION INSE	PECTION			
LINER IS TO BE	ER ON WHICH GUNDSEAL LAID IS SMOOTH, FREE SURFACE CHANGES AND D.			
- SURFACE IS FREE AND ROCKS LARGE IN DIAMETER.				
- OVERLAP IS AT LI	EAST 24 INCHES			
and the second of the second o				<del></del>
- GUNDSEAL IS PROTE AFTER IT IS INST	CTED FROM RAIN ALLED.		~ .====	
3. DUST CONTROL				
ACTION TAKEN	YOUT RESULTED			
4. LOCATION (APPROXIMA	ATE)			
5. REMARKS <u>EAST</u> S	FOE + OUCK	BREAKPO	INT.	
RAIN STO	AND AND FURTHER IN	STALLATION C	Now.	
SF INSTALLED TODAY =	= 18,000 SF			
SF INSTALLED TO DATE	= 382,800 SF			
THE TRANSPORT	1 B.T.		1) 8:00 - 4 -	
REVIEWED BY April	han Brandes		DATE <u>//-2</u>	
		<del></del>		

W.	ANDSKAL LINER	NOV 2 2 1992	FORM A- SHEET INSPECTI	OH DATE	/ //- 21
	1. MATERIAL		ACCEPT	REJECT	H/A
	- MANUFACTURER'S H AFFIDAVIT HAS BE	ILL CERTIFICATE OR EN PROVIDED	_		
4	- FREE FROM DEFECT: FLAMS, DETERIORA!	S, RIPS, HOLES, TION OR DAMAGE.	<u> </u>		
	2. VERIFICATION INSPEC	CTION			
	- Gas venting layer liner is to be la from irregular su uniformly graded,	AID IS SMOOTH, FREE IRFACE CHANGES AND	<u></u>	-· · · · ·	
	- Surface is free f and rocks larger in diameter.			<u> </u>	
	- OVERLAP IS AT LEAS	ST 24 INCHES			
	- GINDSFAL IS PROTECT AFTER IT IS INSTAI			<u></u>	
3	. DUST CONTROL				
	ACTION TAKEN	ONE ZERVINED			
4.	LOCATION (APPROXIMATION)  CELA WE	E) ST STBE UNDO	er pls	63764	
5.	REMARKS				
	SF INSTALLED TODAY =	9000-			
	SF INSTALLED TO DATE =	364, 800 SF ?			
	INSPECTOR	Bala		DATE //-	
	REVIEWED BY	un chands		DATE 1/2	2/72

<b>}</b>	NOV 2 1 1992		C OF /	
FUNDSEAL LINER	JE S	INSPECTI	ON DATE Z	1-20 42
1. MATERIAL	33	ACCEPT	REJECT	II/A
- MANUFACTURER'S MILL AFFIDAVIT HAS BEEN 1		<u>/</u>		
- FREE FROM DEFECTS, F FLAWS, DETERIORATION	RIPS, HOLES, N OR DAMAGE.			
2. VERIFICATION INSPECTIO	М			
- GAS VENTING LAYER ON LINER IS TO BE LAID FROM IRREGULAR SURFA UNIFORMLY GRADED.	IS SMOOTH, FREE	<u> </u>	~ ••	
- SURFACE IS FREE FROM AND ROCKS LARGER THAI IN DIAMETER.		<u>/</u>		
- OVERLAP IS AT LEAST 2	24 INCHES			
- GUNDSFAL IS PROTECTED AFTER IT IS INSTALLED	FROM RAIN			
3. DUST CONTROL				
ACTION TAKEN	ode Zeones			
4. LOCATION (APPROXIMATE)				
CAP 15,000	Channel 5	00 Buch	fil los	skeet)
5. REMARKS News			11/->	<u> </u>
		Juin	7 71 0-0	
SF INSTALLED TODAY =	5,5002			
SF INSTALLED TO DATE = 33	5800			
INSPECTOR	San des		DATE //-	
			<del></del>	

GUNDSEAL LINER	SHEETINSPECTI	ON DATE	11-19
1. MATERIAL	ACCEPT	REJECT	11/
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED	<u> </u>		
- 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	PEC	7	
ACTION TAKEN None PERMAN			<del></del>
	S AON	1) 1992	
4. LOCATION (APPROXIMATE)			
E. CELA N. of 3rd per	<u>k</u>		
E. REMARKS			<del></del>
SF INSTALLED TODAY = 41,0902	- In	M	
SF INSTALLED TO DATE = 340, 3002	0	- 	
INSPECTOR And Basty		DATE _//-	-/9 <b>-9</b> 7
REVIEWED BY John D. For Sorly	to. )	DATE <u>//-</u>	

•	FORM A- SHEET	7 of	/
Gunderal Liner	INSPECT	ION DATE	11-18-92
1. MATERIAL	ACCEPT	REJECT	UZA
- 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.			travilla maj ĝinomojim
- SURFACE IS FREE FROM PROTRUSIONS AND ROCKS LARGER THAN 1/2 INCH IN DIAMETER.	<u>/</u>		
- OVERLAP IS AT LEAST 24 INCHES			
- GUNDSEAL IS PROTECTED FROM RAIN AFTER IT IS INSTALLED.			*************
3. DUST CONTROL		GEWEN 9.7.	
ACTION TAKEN NONE RESUMED			
	40	y 1 9 992	
4. LOCATION (APPROXIMATE)		-	
East channel - GeID "P" Nonth	TO GRID	"R"	
5. REMARKS <u>Pulled back Panels C40,43</u>	,44151		
INSTALLED GUNDSEAL UNDER 40	43/44	IN CHAN	VEZ_
SF INSTALLED TODAY = 900 SF		An 1	-18
SF INSTALLED TO DATE = 29,210 SF	U		
INSPECTOR	<u> </u>	DATE //	ı

SHEET \_ ∠ OF GUNDSEAL LINER INSPECTION DATE 11-14-92 ACCEPT REJECT H/A MATERIAL - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED - FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE. 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 Jan Aliji - GUNDSEAL IS PROTECTED FROM RAIN AFTER IT IS INSTALLED. NOY 1 - 1992 DUST CONTROL None REDVINED ACTION TAKEN LOCATION (APPROXIMATE) -HANNEL REMOVES , DEPLACES REMARKS \_ LAST PIECE OF HYDLATED GUNDSEAR, AND CONTINUED TO PLACE GUNDSEAR IN THE CHANNEL MAGIC IT AND NOT BEEN PLACED BEFORE SF INSTALLED TODAY = 2200 SF INSTALLED TO DATE = DATE 1-17-12 DATE 11-16-92 REVIEWED BY

FORM A-7

	· · · · · · · · · · · · · · · · · · ·	<u>/</u> OF <u>/</u>	/
GUNDSEAL LINER	INSPECTI	ON DATE 🕢	-10-9
. MATERIAL	ACCEPT	REJECT .	H/A
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED			
- FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE.	<u> </u>		
2. VERIFICATION INSPECTION			
<ul> <li>GAS VENTING LAYER ON WHICH GUNDSEAL LINER IS TO BE LAID IS SMOOTH, FREE FROM IRREGULAR SURFACE CHANGES AND UNIFORMLY GRADED.</li> </ul>			
- SURFACE IS FREE FROM PROTRUSIONS AND ROCKS LARGER THAN 1/2 INCH IN DIAMETER.			
- OVERLAP IS AT LEAST 24 INCHES			
	<del></del>	<del></del>	
- GUNDSEAL . IS PROTECTED FROM RAIN AFTER IT IS INSTALLED.			
3. DUST CONTROL		CENVEN T	
ACTION TAKEN NONE	707	1 1392	
4. LOCATION (APPROXIMATE)	histor her	673	
South Channel & GAST	Hanne		
5. REMARKS			<del></del>
CUNOSEAL WHICH HAD HYMATED N	THE CH	Wa-	
WAS REPLACED.			<del></del>
SF INSTALLED TODAY = 1500 SF			
SF INSTALLED TO DATE = 296,110 SF	JAM!	11-10-92	
INSPECTOR And Ball	<i>U</i>	_ DATE <u>//-</u>	10-92
REVIEWED BY John G. For (Les)	yter)	DATE <u>//-</u>	11-92

GUNDSEAL LINER	FORM A-T SHEET INSPECTI		1-9-92
1. MATERIAL	ACCEPT	REJECT	N/A
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED		<del></del>	
- 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.	<u> </u>		
- SURFACE IS FREE FROM PROTRUSIONS AND ROCKS LARGER THAN 1/2 INCH IN DIAMETER.			
- OVERLAP IS AT LEAST 24 INCHES	_		1
- GUNDSEAL IS PROTECTED FROM RAIN AFTER IT IS INSTALLED.	1		
3. DUST CONTROL ACTION TAKEN have relabed			
	<del></del>		
4. LOCATION (APPROXIMATE)  3 rd plank	PECENTE (l. 7.		
5. REMARKS			
SF INSTALLED TODAY = 15 740 <sup>2</sup>	<del></del>		
SF INSTALLED TO DATE = 257, 2174 (cera c	OHLY, 214,648	(TOTAL)	
INSPECTOR And Barrel	-12 7.5	DATE <u>//-</u>	212
REVIEWED BY John S. Try Clarkynt	ře /	DATE <u>//-/(</u>	-92

		10V 38 9 1992	FORM A- SHEET _	OF <u></u>	
GUNDSEAL LINE	CR C	DECISIME	INSPECT	STAG NO	4 /8/9
1. MATERIAL		J-7. W	ACCEPT	REJECT	N/A
	CTURER'S MILL VIT HAS BEEN P				
	ROM DEFECTS, R DETERIORATION				
2. VERIFICA	rion inspection	и			
LINER I	NTING LAYER ON IS TO BE LAID I RREGULAR SURFAC ILY GRADED.	IS SMOOTH, FRE	E /		
	: IS FREE FROM KS LARGER THAN ETER.				
- OVERLAP	IS AT LEAST 2	4 INCHES			
	IS PROTECTED I IS INSTALLED				
. DUST CONTI	ROL	i			
ACTION TAR	CEN	<u> </u>		·	
. LOCATION (	APPROXIMATE)				_
Placed in	East chann	el starting	at status	0 + wb	بحضم
. Remarks	south to	the sump or	t offset	700	
		<del></del>			
					<del></del>
SF INSTAL	LED TODAY = /(	0,500 SF			
SF INSTAL	LED TO DATE =				
					11
INSPECTOR _	R.M Sel			DATE 10	18/92

GENOSEAL LINER  MATERIAL  - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED  - FREE FROM DEFECTS, RIPS, HOLES, FLANS, DETERIORATION OR DAMAGE.  2. VERIFICATION INSPECTION  - GAS VENTING LAYER ON WHICH GENOSEAL 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 INCHE IN DIAMETER.  - OVERLAP IS AT LEAST 24 INCHES  - GUNDSEAL IS PROTECTED FROM RAIN AFTER IT IS INSTALLED.  3. DUST CONTROL ACTION TAKEN  4. LOCATION (APPROXIMATE)  5. REMARKS  SF INSTALLED TODAY = 13,695  SF INSTALLED TODAY = 13,695  INSPECTOR  REVIEWED BY  JAMES AND LAYER AND LAYER AND LAYER AND LAYER MANUFACTURED.  DATE 15-572			NOV 5 6 1992	FORM A-7	0, (	
MATERIAL  - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED  - FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE.  2. VERIFICATION INSPECTION  - GAS VENTING LAVER 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  - ACTION TAKEN  - ACTION TAKEN  SF INSTALLED TODAY = 13,695  SF INSTALLED TODAY = 13,695  SF INSTALLED TO DATE = 181,497  INSPECTOR  DATE 15572  DATE 15572  DATE 15572  DATE 15572	*2	GUNDSEAL LINER	DEGENALEU	INSPECTIO	N DATE 1	1-5-92
AFFIDAVIT HAS BEEN PROVIDED  - FREE FROM DEFECTS, RIPS, HOLES, FLAMS, DETERIORATION OR DAMAGE.  2. VERIFICATION INSPECTION  - GAS VENTING LAYER ON WHICH GUNDSEAL, LINER IS TO BE LAID IS SMOOTH, FREE FROM HERGULAR 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  ACTION TAKEN  SF INSTALLED TODAY = 13,695  SF INSTALLED TODAY = 13,695  SF INSTALLED TO DATE = 181,497  INSPECTOR  DATE #5572  DATE #5572  INSPECTOR  DATE #5572  DATE #5572  INSPECTOR  DATE #5572  DATE		MATERIAL	Libert. Lill	ACCEPT	REJECT	N/A
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  - GUNDSEAL IS PROTECTED FROM RAIN AFTER IT IS INSTALLED.  4. LOCATION (APPROXIMATE)  5. REMARKS  - SF INSTALLED TODAY = 13,695  SF INSTALLED TO DATE = 181497  INSPECTOR  DATE 15-52  INSPECTOR  DATE 15-52  LANGERS  LINES AND UNIFORM THE PROTECTION OF THE PROPERTY OF THE						
- 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  - COMMENDED  4. LOCATION (APPROXIMATE)  5. REMARKS  - SF INSTALLED TODAY = 13,695  SF INSTALLED TO DATE = 181,497  INSPECTOR  DATE 1/5-72  INSPECTOR  DATE 1/5-72  JUST 1	75					
LINER IS TO BE LAID IS SMOOTH, FREE FROM IRREGULAR SURFACE CHANGES AND UNITORMLY 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  LOCATION (APPROXIMATE)  5. REMARKS  SF INSTALLED TODAY = 13,695  FINSTALLED TO DATE = 181,497  INSPECTOR  DATE 15.572  INSPECTOR  DATE 15.572  INSPECTOR		2. VERIFICATION INSPE	CTION			
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  - CRAINED  4. LOCATION (APPROXIMATE)  5. REMARKS  - SF INSTALLED TODAY = 13,695  SF INSTALLED TO DATE = 181497  INSPECTOR  DATE 1/-5-72  INSPECTOR  DATE 1/-5-72  INSPECTOR		LINER IS TO BE L FROM IRREGULAR S	AID IS SMOOTH, FREE URFACE CHANGES AND	_		
- GUNDSEAL IS PROTECTED FROM RAIN AFTER IT IS INSTALLED.  3. DUST CONTROL ACTION TAKEN Nort Reasons 4. LOCATION (APPROXIMATE)  5. REMARKS Nort  SF INSTALLED TODAY = 13,695 primary SF INSTALLED TO DATE = 181,497 primary INSPECTOR North State primary INSPECTOR North State primary  INSPECTOR North State primary  DATE 11-5-72 primary  HOUSE STATE PROTECTED FROM RAIN AFTER IT IS INSTALLED.		AND ROCKS LARGER				
AFTER IT IS INSTALLED.  3. DUST CONTROL  ACTION TAKEN  LOCATION (APPROXIMATE)  5. REMARKS  SF INSTALLED TODAY = 13,695  SF INSTALLED TO DATE = 181,497  INSPECTOR  DATE 1/-5-72  LOCATION  LOCATION  DATE 1/-5-72  LOCATION  DATE 1/-5-72  LOCATION  DATE 1/-5-72  LOCATION  DATE 1/-5-72  LOCATION  LOCATION  DATE 1/-5-72  LOCATION  LOCATION  DATE 1/-5-72  LOCATION  DATE 1/-5-72  LOCATION		- OVERLAP IS AT LEA	AST 24 INCHES			
ACTION TAKEN  SET INSTALLED TODAY = 13,695  SF INSTALLED TO DATE = 181,497  INSPECTOR  DATE 15-52  INSPECTOR  DATE 15-52  INSPECTOR	3					
4. LOCATION (APPROXIMATE)  5. REMARKS NONE  SF INSTALLED TODAY = 13,695 primary  SF INSTALLED TO DATE = 181,497 primary  INSPECTOR STALLED TO DATE = 181,497 primary  DATE 16-5-72 J. A.  TOTALLED TO DATE = 181,497 primary  A STALLED TO DATE = 181,497 primary		3. DUST CONTROL				
SF INSTALLED TODAY = 13,695 framany  SF INSTALLED TO DATE = 181,497 prunony  INSPECTOR STATE DATE   DATE   DATE   1-5-72		ACTION TAKEN	VONE REQUIRED			
SF INSTALLED TODAY = 13,695 frimany  SF INSTALLED TO DATE = 181,497 primary  16-5-92 f. D  INSPECTOR Sold DATE 11-5-92		4. LOCATION (APPROXIMA	TE)			
INSPECTOR AND BALL  DATE 11-5-92  UNIVERSALLED TO DATE = 181,4972 prunon  DATE 11-5-92  UNIVERSALLED TO DATE = 181,4972 prunon  DATE 11-5-92		5. REMARKS NONT				
INSPECTOR AND BALL  DATE 11-5-92  UNIVERSALLED TO DATE = 181,4972 prunon  DATE 11-5-92  UNIVERSALLED TO DATE = 181,4972 prunon  DATE 11-5-92						
INSPECTOR Charles Battle DATE 11-5-72	Ì	SF INSTALLED TODAY =	13,695 M	imary	· <u>····</u>	
1) (1) (1) + )	}	SF INSTALLED TO DATE	= 181,4972 pr	mon		
1) (1) (1) + )		THERECTOR A	12 J. D.		DATE //-	5-92-
	}.		LAN (Los	nte)		

, The second

1	UNDSEAL LINER	FORM A-	ON DATE 1	-1-9
	UNDSEAD LINER	INSPECTI	ON DATE IT	
	MATERIAL	ACCEPT	REJECT	H/1
	- 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.	<u>/</u>		
	- SURFACE IS FREE FROM PROTRUSIONS AND ROCKS LARGER THAN 1/2 INCH IN DIAMETER.			
	- OVERLAP IS AT LEAST 24 INCHES	•		
			<del></del>	
	- GUNDSEAL . IS PROTECTED FROM RAIN AFTER IT IS INSTALLED.			-
з.	DUST CONTROL			
	ACTION TAKEN where needed			
4.	LOCATION (APPROXIMATE)	OECEN	ः । 9 <b>१२</b> इति	
	CELA	11/2		
5.	REMARKS Nown			
	SF INSTALLED TODAY = 16,980 CELA P	eware.		
	SF INSTALLED TO DATE = 184, 782 CE.	za prima	key	
	16-4-92 4.	V		./
	INSPECTOR China Day	/ 1	_ DATE <u>//</u>	
	REVIEWED BY John &. To Goyn	te /	_ DATE //-	<u>5-92</u>

FORM A-7 OF SHEET GUNDSEAL LINER INSPECTION DATE \_ ACCEPT REJECT H/A MATERIAL - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED - FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE. 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 nave reedest ACTION TAKEN LOCATION (APPROXIMATE) of 3rd lateral line. REMARKS \_\_\_\_\_ Alone 5. SF INSTALLED TODAY = SF INSTALLED TO DATE = DATE //-3-72\_\_ INSPECTOR DATE 11-4-92 REVIEWED BY

GUNDSEAL LINER	SHEET INSPECTI	,	0-31
. MATERIAL	ACCEPT	REJECT	н/.
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED			
- FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE.	V		
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>		
- 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 TAKENNONE			
4. LOCATION (APPROXIMATE)	·		<del></del>
5. REMARKS NONE			
SF INSTALLED TODAY = 8725 2 Pushee	et in chann	e/ / C	7725 CA
SF INSTALLED TO DATE = 194,195	<u> </u>		
INSPECTOR Chan Gall	_	DATE <u>//-</u>	2-92
REVIEWED BY John L. Fox (Look	entre)	DATE //-	2-92

FORM A-7 SHEET \_\_\_\_ OF INSPECTION DATE GUNDSEAL LINER ACCEPT REJECT N/A MATERIAL - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED - FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE. 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 3. NOWE ACTION TAKEN LOCATION (APPROXIMATE) 4. NORTH CHANNEL & CELA NONE 5. REMARKS \_\_\_\_ 15,000 CELA-2206 Thannel SF INSTALLED TODAY = 17,285 1/4 N. Channel SF INSTALLED TO DATE = 185, 470 DATE 11-2-12 INSPECTOR DATE 11-2-92 REVIEWED BY

GUNDSEAL LINER	FORM A-1 SHEET INSPECTI	ON DATE (C	-29-52
1. MATERIAL	ACCEPT	REJECT	N/A
- MANUFACTURER'S MILL CERTIFICATE C AFFIDAVIT HAS BEEN PROVIDED	DR		
- FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE.			
2. VERIFICATION INSPECTION			
- GAS VENTING LAYER ON WHICH GUNDSEAN LINER IS TO BE LAID IS SMOOTH, FROM IRREGULAR SURFACE CHANGES AND UNIFORMLY GRADED.	EE		
- SURFACE IS FREE FROM PROTRUSIONS AND ROCKS LARGER THAN 1/2 INCH IN DIAMETER.	<u> </u>		
- OVERLAP IS AT LEAST 24 INCHES			
	~		
- GUNDSEAL . IS PROTECTED FROM RAIN AFTER IT IS INSTALLED.			
. DUST CONTROL  ACTION TAKEN Une welled	? 		
. LOCATION (APPROXIMATE)			
E. Channel, W. Channel  REMARKS			
			<del></del>
SF INSTALLED TODAY = 3,000 in e, N	hannel +	1,000 2 ru	bohee
SF INSTALLED TO DATE = 168, 158			<del></del>
INSPECTOR Sold Gall	29-1. A.	DATE /	29.92
REVIEWED BY JOHN D. TOX GE	Lyntic )	DATE 10	<u> 30-92</u>

П.

GUNDSEAL LINER	FORM A-7 SHEET	OF /	<del>0 -</del> 18 - 9
. MATERIAL	ACCEPT	REJECT	N/A
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED			
- FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE.	<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.	V		
- SURFACE IS FREE FROM PROTRUSIONS AND ROCKS LARGER THAN 1/2 INCH IN DIAMETER.			
- OVERLAP IS AT LEAST 24 INCHES	,		
, n = 10		<del></del>	
- GUNDSEAL IS PROTECTED FROM RAIN AFTER IT IS INSTALLED.		<del></del>	
3. DUST CONTROL			
ACTION TAKEN Kane jelelest			<del></del>
4. LOCATION (APPROXIMATE)  20'3. of fad lateral lu  5. REMARKS NONE	ie br's	line.	
SF INSTALLED TODAY = 45, 000 2	<del></del>		
SF INSTALLED TO DATE = 165,158			
INSPECTOR COMPANY	7 , ,	DATE /0-	
REVIEWED BY John L. To Geo	syntic )	DATE <u>/0-</u>	28-92

SHEET	l	OF _				_
INSPEC	TION	DATE	10-26	-	9	٣_

1. MATERIAL	ACCEPT	REJECT	N/A
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED	<u>/</u>		<del> </del>
- 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.	<u> </u>		
<ul> <li>SURFACE IS FREE FROM PROTRUSIONS AND ROCKS LARGER THAN 1/2 INCH IN DIAMETER.</li> </ul>	_		
- OVERLAP IS AT LEAST 24 INCHES	_		
- GUNDSEAL IS PROTECTED FROM RAIN AFTER IT IS INSTALLED.			<del></del>
. DUST CONTROL			
ACTION TAKEN none needed			
4. LOCATION (APPROXIMATE)			
to south end of CELA			
5. REMARKS			
SF INSTALLED TODAY = 19,035			
SF INSTALLED TO DATE = 94077 CELA	<del></del>		
INSPECTOR 10-26-72 J. W.		DATE 10	-26-92-
REVIEWED BY John & Fox (Heolynte)	)	DATE <u>/0</u> -	1

GUNDSEAL LINER		ON DATE _	10-24-9
-1. MATERIAL	ACCEPT	REJECT	N/A
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED	<u> </u>	<del></del>	
- FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE.		<del></del>	
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.	<u> </u>		
- OVERLAP IS AT LEAST 24 INCHES			
- GUNDSEAL IS PROTECTED FROM RAIN AFTER IT IS INSTALLED.	1		<del></del>
. DUST CONTROL ACTION TAKEN Name preceded			
. LOCATION (APPROXIMATE)  The line  REMARKS Named nut a) Ep. m	ı -		
SF INSTALLED TODAY = 7,500 Celes  SF INSTALLED TO DATE = 78,042 C	la		
INSPECTOR MAN State		DATE 10	-24-92
REVIEWED BY John d. tox Gloslyn	tec)	DATE 10	<u>/27/92</u>

GUNDSEAL LINER	SHEET	OF /	7-23-9
1. MATERIAL	ACCEPT	REJECT	N/A
- MANUFACTURER'S MILL CERTIFICATE AFFIDAVIT HAS BEEN PROVIDED	OR	` <del></del>	
- FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE.			<del> </del>
2. VERIFICATION INSPECTION			
<ul> <li>GAS VENTING LAYER ON WHICH GUNDS LINER IS TO BE LAID IS SMOOTH, I FROM IRREGULAR SURFACE CHANGES A UNIFORMLY GRADED.</li> </ul>	FREE		
<ul> <li>SURFACE IS FREE FROM PROTRUSIONS AND ROCKS LARGER THAN 1/2 INCH IN DIAMETER.</li> </ul>			
- OVERLAP IS AT LEAST 24 INCHES			
- GUNDSEAL IS PROTECTED FROM RAIN AFTER IT IS INSTALLED.			
. DUST CONTROL			
ACTION TAKEN Name needle	el .		
LOCATION (APPROXIMATE)			
REMARKS to app. 120° with	of south C	bannel	<del></del>
SF INSTALLED TODAY = 30, 000 C	rela		
SF INSTALLED TO DATE = 70, 542			
1. N. 10-23-12	>		
INSPECTOR		DATE 🔑	i
REVIEWED BY John & tox	Deodyntec )	DATE /D-	24-92

GUNDSEAL LINER	SHEET	OF (	-22
- 1. MATERIAL	ACCEPT	REJECT	N/A
- MANUFACTURER'S MILL CERTIFICATE C AFFIDAVIT HAS BEEN PROVIDED	DR		
- FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE.			
2. VERIFICATION INSPECTION			
<ul> <li>GAS VENTING LAYER ON WHICH GUNDSEA LINER IS TO BE LAID IS SMOOTH, FR FROM IRREGULAR SURFACE CHANGES AN UNIFORMLY GRADED.</li> </ul>	EE		
- 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.			<del></del> -
. DUST CONTROL			
ACTION TAKEN have really			
4. LOCATION (APPROXIMATE)			
From K line to I line			
5. REMARKS Lour_			
SF INSTALLED TODAY = 33,000 <sup>2</sup>	CELH		
SF INSTALLED TO DATE = 40,542			
4.0	-		
INSPECTOR	101	DATE /	
REVIEWED BY	cognitice)	DATE 6	<u> </u>

Ġ.

. GUNDSEAL LINER		SHEET	OF ON DATE	0-20-92
1. MATERIAL		ACCEPT	REJECT	N/A
	URER'S MILL CERTIFICATE OR T HAS BEEN PROVIDED			
	M DEFECTS, RIPS, HOLES, ETERIORATION OR DAMAGE.			
2. VERIFICATI	ON INSPECTION			
LINER IS	ING LAYER ON WHICH GUNDSEAL TO BE LAID IS SMOOTH, FREE EGULAR SURFACE CHANGES AND Y GRADED.			
	IS FREE FROM PROTRUSIONS 5 LARGER THAN 1/2 INCH TER.	<u> </u>		
- OVERLAP I	S AT LEAST 24 INCHES			
	S PROTECTED FROM RAIN IS INSTALLED.	/		
. DUST CONTRO	L			
ACTION TAKE	N <u>V</u> #			
4. LOCATION (AI streshling) 5. REMARKS	PPROXIMATE)	to Chann	el ou (	elt
	10			
	ID TODAY = C6 7,542.5.			——
SF INSTALLE	$\frac{10 \text{ TO DATE} = 7.542.5}{10.20-82}$			
INSPECTOR	1 Chm Bate	<u></u>	DATE <u>20</u>	20-92
REVIEWED BY	In L. Fire		DATE <u>/O</u>	-21-92

SHEET/	OF_	
INSPECTION	DATE	10-19-9

-		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			
				<u> </u>
		<del></del>	-	
	- GUNDSEAL IS PROTECTED FROM RAIN AFTER IT IS INSTALLED.			
	DUST CONTROL			
	ACTION TAKEN NONE REQUIRED			
				<del></del>
4.	LOCATION (APPROXIMATE)			
		0 100	2 //	
5.	REMARKS Vurble to deplay bundles		il of lov	1
_	response to too gubinettal to le	ower w	lden	Cenjus
	unbient tourse.)		,	
(	apriles dispers.			—— I
	SF INSTALLED TODAY =			
	SF INSTALLED TO DATE =	<u>.</u>		
	14. 10-19-92			ļ
	INSPECTOR China Guida		DATE 10-	19-92
1	REVIEWED BY Jhn & Tor		DATE 10	-20-92
	U			

GUNDSEAL LINER		OF /	
1. MATERIAL	ACCEPT	REJECT	N/A
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED			<u></u>
- FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE.		<del></del>	
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.	<u> </u>		
. DUST CONTROL			
ACTION TAKEN None REQUIRED			
4. LOCATION (APPROXIMATE)			
APPROXIMATELY 200LF OF UNDERLINER INST	MUSD FROM P"7	0 "W" LI	<u> </u>
5. REMARKS			
TS 1000 INSTALLED UNDER THE KUNSSEA	700Ay,		- <del></del>
CE INCRALLED WYDAY - 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	<del></del>		
SF INSTALLED TODAY = 2400 SF  SF INSTALLED TO DATE = 17,081 SF			
INSPECTOR And Balance REVIEWED BY J.		DATE 19	15-92
Collin P. Suhow	130	1 6 1992 2	

GUNDSEAL LINER		7 / OF / ON DATE /	0-8-91
1. MATERIAL	ACCEPT	REJECT	N/A
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED			
- FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE.	<u>/</u>	<del></del>	
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>		
- 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.	<u> </u>		
3. DUST CONTROL  ACTION TAKEN NONE REGULARD			
4. LOCATION (APPROXIMATE)			
5. REMARKS FROM H' TO 0" 4888 SE 6'S 31		banne!	
INSPECTOR Chino Ballon Reviewed By Collin F. Jahan	,	DATE 10-	9-92 19/92



CLAY:	MAX LINER	SHEETINSPECTION	OF OF ON DATE	/ · 0-5-
1. 1	MATERIAL	ACCEPT	REJECT	N/A
	- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED (ATTACH COPY).	<u>/</u>		
•	- FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE.			
	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.			
ום	UST CONTROL			
A	CTION TAKEN			
_	Channel 3961	- ur	telled	2
RE	EMARKS			
_				
_				
 , IN	SPECTOR Chab Got		DATE /	o-5-9,
			_	11

BECORNE

GUNDSEAL LINER	FORM A- SHEET INSPECT:	7 / OF / ION DATE _	<u>G-18</u>
1. MATERIAL	ACCEPT	REJECT	N/A
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED	<u>/</u>		•
- 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.	<u>/</u>		
- SURFACE IS FREE FROM PROTRUSIONS AND ROCKS LARGER THAN 1/2 INCH IN DIAMETER.	<u> </u>		
- OVERLAP IS AT LEAST 24 INCHES	<u> </u>		
- GUNDSEAL IS PROTECTED FROM RAIN AFTER IT IS INSTALLED.			
3. DUST CONTROL			
ACTION TAKEN PIS 17, 18, 15,	20		
4. LOCATION (APPROXIMATE)			
5. REMARKS	<b>S</b> P	2 1 1992 EB	
Janato			
GEO COW			
INSPECTOR		DATE	ı
REVIEWED BY the & 24		DATE 9	19-87

SHEET \_\_/\_ OF \_/ GUNDSEAL LINER INSPECTION DATE ACCEPT REJECT N/A MATERIAL - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED - FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE. VERIFICATION INSPECTION 2. - 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 LOCATION (APPROXIMATE) REMARKS INSPECTOR DATE 9-18 REVIEWED BY

SEP 1 8 1992

FORM A-7

	SEP 16 1992	FORM A-7 SHEET		,
GUNDSEAL LINER	DECEMBE		ON DATE	9-15
1. MATERIAL		ACCEPT	REJECT	H,
I. PHIERIAL				
	RER'S MILL CERTIFICATE OR HAS BEEN PROVIDED			
ALLIDAVII	IMS BEEN PROVIDED		<del></del>	_
- FREE FROM	DEFECTS, RIPS, HOLES,			
FLAWS, DET	ERIORATION OR CAMAGE.		-	_
2. VERIFICATION	INSPECTION			
	G LAYER ON WHICH GUNDSEAL	•		
	O BE LAID IS SMOOTH, FREE ULAR SURFACE CHANGES AND			
UNIFORMLY	GRADED.			
	FREE FROM PROTRUSIONS			
AND ROCKS : IN DIAMETE	LARGER THAN 1/2 INCH			
- OVERLAP IS	AT LEAST 24 INCHES	· <del></del> -		
		<del></del>		-
	PROTECTED FROM RAIN INSTALLED.	1/		
AFIER II IS	INSTABLED.	<del></del>	<del></del>	
. DUST CONTROL				
ACTION TAKEN	AS MEEDED			
ACTION TAKEN				-
			<del></del>	·· <b>-</b>
. LOCATION (APP	DOVINAME)			
	·			
PA	NESS PLACES 8-13,0	COVERNA SWA	MWAN STAT	20NS
REMARKS	20+95 - 19+60 AAD	LOXIMITELY.		
	HARN SEEP			
		<del></del> .		
<del></del>				
INSPECTOR			DATE	
INSPECTOR	ph d. ty		DATE DATE 9-	/5-

CL	AYMAX LINER A-7	SHEET INSPECTI	ON DATE 9	9-92
1.	MATERIAL	ACCEPT	REJECT	N/A
	- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED (ATTACH COPY).	<u> </u>		
	- FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE.	$\checkmark$		
2.	VERIFICATION INSPECTION			
	- GAS VENTING LAYER ON WHICH CLAYMAX LINER IS TO BE LAID IS SMOOTH, FREE FROM IRREGULAR SURFACE CHANGES AND UNIFORMLY GRADED.	NA		
	- SURFACE IS FREE FROM PROTRUSIONS AND ROCKS LARGER THAN 1/2 INCH IN DIAMETER.			
	- OVERLAP IS AT LEAST 24 INCHES			
	- CLAYMAX IS PROTECTED FROM RAIN AFTER IT IS INSTALLED.			
3.	DUST CONTROL			
	ACTION TAKEN		<del></del>	
4.	LOCATION (APPROXIMATE)			
5.	REMARKS P'S 1-7 12'X 71'		<u> </u>	
	From 22 too to 20+	95	<i>-</i>	<del></del>
			necewer	<del></del>
		· · · · · · · · · · · · · · · · · · ·	(1.4.)	
	INSPECTOR OG Marke	1 1	DATE	
	INSPECTOR G Manh	4-4		

23.

SHEET OF VLDPE GEOMEMERANE INSPECTION DATE 9-17-42 ACCEPT REJECT N/A MATERIAL - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. (ATTACH COPY). 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 FANEL 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.

	VL	DPE GEOMEMBRANE		OF /	12-12-
	1.	MATERIAL	ACCEPT	REJECT	N/A
1	)	- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. (ATTACH COPY).	<u> </u>		
	2.	VERIFICATION INSPECTION			1
		- CLAYMAX LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION).	NA		
		- TOP SURFACE OF THE CLAYMAX LAYER IS FLAT AND FREE OF DEBRIS.	N/m		
		- 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>		
# 1 · 10		- ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.	<u> </u>		
	3.	VERIFICATION TESTING	/		'
		- GEOMEMBRANE THICKNESS IS VERIFIED.	V		
		- 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>	·	
	•	- ALL THE FIELD SEAMS/OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR PRESSURE TEST.	<u> </u>		
		- ONE DESTRUCTIVE TEST SAMPLE FOR EACH 500 FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED.	vill gull		
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			9-14-43	<b>.</b>	
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VLDPE GEOMEMBRANE	SHEET	OF	<del></del>
I. MATERIAL	ACCEPT	REJECT	H/
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. (ATTACH COPY).	<u> </u>		
2. VERIFICATION INSFECTION			
- CLAYMAX LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION).	MA		
- TOP SURFACE OF THE CLAYMAX LAYER IS FLAT AND FREE OF DEBRIS.	MA		
- EACH FANEL OF VLDPE LINER IS INSTALLED IN ACCORDANCE WITH THE SHOP DRAWINGS PREPARED BY THE CONTRACTOR AND ACCEPTED BY THE CONSTRUCTION MANAGER.	<u>/</u>		
- 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).	<u> </u>		
- ALL THE FIELD SEAMS OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR PRESSURE TEST.	<u> </u>	-	
- ONE DESTRUCTIVE TEST SAMPLE FOR EACH-500 FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED.	NA	<u> </u>	
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17-32×22	·		
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19-32×22			
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	VLDPE GEOMEMBRANE	form A-8 sheet inspecti	ON DATE	E5-52
	1. MATERIAL	ACCEPT	REJECT:	N/A
	- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. (ATTACH COPY).	<u> </u>		
	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.	1		
- COE	- 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>		
	- ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.	<u> </u>		
<b>.</b>	3. VERIFICATION TESTING			
	- GEOMEMBRANE THICKNESS IS VERIFIED.		· · · · · · · · · · · · · · · · · · ·	
article and a second	- 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.	<u> </u>		
	- ONE DESTRUCTIVE TEST SAMPLE FOR EACH-500 FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED:	N/A	· · · · · · · · · · · · · · · · · · ·	
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<b>)</b>	U-4 29 x22 U-5 25 x 22	SEP 1.0	302 307-7-7-	12
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VL	DE GEOMEMBRANE SP 16 150	SHEET	OF /	-15-4
1.	MATERIAL FB	ACCEPT	REJECT	11/1
	- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. (ATTACH COPY).	<u> </u>		
2.	VERIFICATION INSPECTION			
	- CLAYMAX LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION).	<u> </u>		
	- TOP SURFACE OF THE CLAYMAX LAYER IS FLAT AND FREE OF DEBRIS.	1		
	- EACH FANEL OF VLDPE LINER IS INSTALLED IN ACCORDANCE WITH THE SHOP DRAWINGS PREPARED BY THE CONTRACTOR AND ACCEPTED BY THE CONSTRUCTION MANAGER.	<u> </u>		
	- ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.	$\checkmark$		
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).	<u> </u>		
	- ALL THE FIELD SEAMS OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR PRESSURE TEST.	<b>✓</b>		-,
	- ONE DESTRUCTIVE TEST SAMPLE FOR EACH 500 FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED.	<u>/</u>		
	John H. Try Perces 7. 9-15-92	AU 22	6 - U32 × 32'	
	9-15-92 Ja Mats 9-15-9=			

VL	DPE GEOMEMBRANE		OF TION DATE	27-42
1.	MATERIAL	ACCEPT	REJECT	N/A
	- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. (ATTACH COPY).	<u> </u>		
2.	VERIFICATION INSPECTION			
	- CLAYMAX LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION).	<u> </u>		
	- TOP SURFACE OF THE CLAYMAX LAYER IS FLAT AND FREE OF DEBRIS.	1	, .	
	- 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>		
	- ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.	<u>/</u>		
3.	VERIFICATION TESTING	/		
	- GEOMEMBRANE THICKNESS IS VERIFIED.	<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).	/		
	- 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.	<u> </u>		
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VLDPE GEOMEMBRANE

SHEET OF INSPECTION DATE 9-18-3-

E.	1. MATERIAL	ACCEPT	REJECT	N/A
4	- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. (ATTACH COPY).	<u> </u>		
<b>I</b>	2. VERIFICATION INSPECTION			
	- CLAYMAX LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION).	<u> </u>	-	
	- TOP SURFACE OF THE CLAYMAX LAYER IS FLAT AND FREE OF DEBRIS.			
<b>3</b>	- EACH PANEL OF VLDPE LINER IS INSTALLED IN ACCORDANCE WITH THE SHOP DRAWINGS PREPARED BY THE CONTRACTOR AND ACCEPTED BY THE CONSTRUCTION MANAGER.	V		
	- ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.	V		
	3. VERIFICATION TESTING			ļ
	- 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).	<u> </u>		
:	- ALL THE FIELD SEAMS OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR PRESSURE TEST.	<u> </u>		
ACC 1.2	- ONE DESTRUCTIVE TEST SAMPLE FOR EACH-500 FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED.	<u> </u>	<u> </u>	
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VLDPE GEOMEMBRANE		OF OF ON DATE 2	27-12-
1. MATERIAL	ACCEPT	REJECT	N/A
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. (ATTACH COPY).	<u> </u>	****	
2. VERIFICATION INSPECTION			
- CLAYMAX LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION).	MA		
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- ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.	<u> </u>		
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- ALL THE FIELD SEAMS OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR PRESSURE TEST.	<u> </u>		
- ONE DESTRUCTIVE TEST SAMPLE FOR EACH-500 FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED.	<u> </u>		
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FORM A-o SHEET INSPECTION DATE 10-3-9 VLDPE GEOMEMBRANE ACCEPT REJECT N/A 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. OCT 0 5 1992

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-	1.	MATERIAL		ACCEPT	REJECT	N/A
		- MANUFACTURER'S AFFIDAVIT HAS (ATTACH COPY).	MILL CERTIFICATE O BEEN PROVIDED.	R		<del></del>
	2.	VERIFICATION INS	PECTION			
		BEING INSTALLE	ON WHICH VLDPE IS D IS IN SATISFACTOR' HYDRATED CONDITION)			
		- TOP SURFACE OF IS FLAT AND FRI	THE CLAYMAX LAYER EE OF DEBRIS.			
		SHOP DRAWINGS I	COORDANCE WITH THE PREPARED BY THE ACCEPTED BY THE			
		- ALL SEAMS ARE WACCORDANCE WITH REQUIREMENTS.	NELDED IN H THE MANUFACTURER'S			
,		VERIFICATION TEST	TING	,		
		- GEOMEMBRANE THI	CKNESS IS VERIFIED.			
		AND TESTED FOR BONDED SEAM STR MACHINE/SEAMING	CTED TEST SEAMS CUT PEEL ADHESION AND RENGTH (ONE PER DAY/ PERSONNEL AND AT RY FOUR HOURS BY EAC LING EQUIPMENT).	· .		
	•		EAMS OVER FULL LENG ACUUM TEST OR AIR	тн		
	-	ONE DESTRUCTIVE EACH-500 FEET L SEAM COLLECTED	ENGTH OF PRODUCTION			
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RESULTS OF VLOPE DESTRUCTIVES DS #2 & DS#3 ATTACHEN

Vinto Bat

SHEET OF VLDPE GEOMEMBRANE INSPECTION DATE N-6-72 ACCEPT REJECT N/A MATERIAL - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. (ATTACH COPY). VERIFICATION INSPECTION 2. - 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. RESULTS OF DESTRUCTIVE SAMPLES 135#4 \$ 15#5

FORM A-o

OCT 0 7 1992

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Collin P. Suhon 10/1/92

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VLDPE GEOMEMBRANE		OF	/ 10-8-9
1. MATERIAL	ACCEPT	REJECT	N/A
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. (ATTACH COPY).	<u> </u>		
2. VERIFICATION INSPECTION			
- CLAYMAX LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION).	<u>/</u>	<del></del>	
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- ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.	$\mathcal{U}$		<del></del>
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).	<u></u>		
- 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.		·	
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VLDPE	GEOMEMBRANE

FORM A	_8 ,			
SHEET		OF _		
INSPEC	TION	DATE	10-15-	22_

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_		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.			
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	- ALL THE FIELD SEAMS OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR PRESSURE TEST.	MA		
	- ONE DESTRUCTIVE TEST SAMPLE FOR EACH-500 FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED.	<u> M/A</u>	·	
	SF INSTALLED TODAY = 4400			
	SF INSTALLED TO DATE = 55,698	·	<del></del>	
	INSPECTOR Chris Ball	DATE	10-15-92	<u> </u>
	REVIEWED BY	<u>DATE</u>		p 2
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VLDPE GEOMEMBRANE

FORM A 8 / OF / OF INSPECTION DATE 10-20-92

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· ·	MATERIAL	ACCEPT	REJECT	N/A
	- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.			
2.	VERIFICATION INSPECTION			
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	- ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.	NA		
ì.	VERIFICATION TESTING			
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	- 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.	<u> </u>		
	SF INSTALLED TODAY = PVL 9, 482	<del></del>		
	SF INSTALLED TO DATE = PUL 9, 482	·		
	INSPECTOR Company	DATE	10-20-92	
	REVIEWED BY John The Tay	<u>DATE</u>	10-21-9	3
	f. Q. 10-20-92			

FORM A 8 OF INSPECTION DATE 10-22-12

1.	MATERIAL	ACCEPT	REJECT	N/A
	- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.	<u> </u>		
2.	VERIFICATION INSPECTION			
	- GUNDSEAL LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION).	_		
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	- 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.	<u></u>		
٠. '	VERIFICATION TESTING			
,	- GEOMEMBRANE THICKNESS IS VERIFIED.			
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-	- 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.	VA	· ·	<del></del>
	SF INSTALLED TODAY = 36,960 CE	LA	·	
	SF INSTALLED TO DATE = 46,442 CF	CH_		<del></del>
	INSPECTOR Amb Carte	DATI	10-22-9	
	REVIEWED BY John H. Tox Garagenter	DATE	10-23-	92
	10-22-42			

FORM A\_8 OF SHEET INSPECTION DATE 10-23-9 VLDPE GEOMEMBRANE ACCEPT REJECT N/A MATERIAL - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. 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-500 FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED. SF INSTALLED TODAY = SF INSTALLED TO DATE = INSPECTOR DATE

REVIEWED BY

D. 10-23-92

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FORM A 8
SHEET / OF /
INSPECTION DATE 10-24-92

١.	material 6404	ACCEPT	REJECT	N/A
:   	- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.	<u></u>		
2.	VERIFICATION INSPECTION			
	- GUNDSEAL LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION).			
	- TOP SURFACE OF THE GUNDSEAU 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).	WA	· ·	
•	- 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.	w#	<u> </u>	
	SF INSTALLED TODAY = COMMON (	ela		
	SF INSTALLED TO DATE = 03 +54.	ela	<del></del>	
	INSPECTOR Into Date	DATE	10-24-92	
	REVIEWED BY John & for Deor	Jyntic) DATE	10-27-92	<u></u>
	Z. R. 10-2492			

FORM A 8
SHEET OF
INSPECTION DATE p-26-92

		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.	V.		
	- 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).	NA	·	
,	- 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.	WA	·	
	SF INSTALLED TODAY = 14, 1342	CELH	<del></del>	
	SF INSTALLED TO DATE = 107,8882	CELA	_ <del></del>	
	INSPECTOR AND STATES	DATE	10-26-92	
	REVIEWED BY John St. fox Goodynte	ر) DATE	10-27-92	
	10-26-92			

UIDDE	GEOMEMBRA	ME
VIJIPE.		NE

FORM A 8 OF SHEET OF INSPECTION DATE 10-21-92

		ACCEP'	r reject	N/A
١,,	MATERIAL	ACCEP	resect	n/ A
	- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.	V		
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.	<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.			
	- 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).	<u>V</u>	· ·	
	- ALL THE FIELD SEAMS OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR PRESSURE TEST.	<u> </u>		
	- ONE DESTRUCTIVE TEST SAMPLE FOR EACH-500 FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED.			
	SF INSTALLED TODAY = 4,400			
	SF INSTALLED TO DATE = 168,	768 2		
	INSPECTOR Man Bank	<u> </u>	ATE 10-27-12	
	REVIEWED BY form. L. for Geolyntac	<u> </u>	ATE 10-28-9	2
	1.	P. B-	22-92	1

VLDPE GEOMEMBRANE	SHEET INSPECT	OF (	78-92
1. MATERIAL	ACCEPT	REJECT	H/A
- MANUFACTURER'S MILL CERTIFICATE AFFIDAVIT HAS BEEN PROVIDED.	OR		
2. VERIFICATION INSPECTION			
- GUNDSEAL LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTOR CONDITION (NONHYDRATED CONDITION			
- TOP SURFACE OF THE GUNDSEAL IS FLAT AND FREE OF DEBRIS.	<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>		
- ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER REQUIREMENTS.	a's		
. VERIFICATION TESTING	_		
- GEOMEMBRANE THICKNESS IS VERIFIE	D		
- SAMPLES OF SELECTED TEST SEAMS C AND TESTED FOR PEEL ADHESION AND BONDED SEAM STRENGTH (ONE PER DA MACHINE/SEAMING PERSONNEL AND AT LEAST ONCE EVERY FOUR HOURS BY E SEAMER AND SEAMING EQUIPMENT).	Y/		
- ALL THE FIELD SEAMS OVER FULL LESTED BY THE VACUUM TEST OR AIR PRESSURE TEST.	NGTH W M		
<ul> <li>ONE DESTRUCTIVE TEST SAMPLE FOR EACH 500 FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED.</li> </ul>	NA NA		
SF INSTALLED TODAY = 45,958		<del></del>	
SF INSTALLED TO DATE = 2/4,726	·		
INSPECTOR And Bate	DATI	<u>0-28-9</u>	2
REVIEWED BY M. L. FOX	Leo Synte ) DATE	10-29-9	2
10-28-65 1. D	37	,	

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FORM A 8 | OF SHEET OF INSPECTION DATE 10-24-9

## VLDPE GEOMEMBRANE

MATERIAL	ACCEPT	REJECT	N/A
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.	<u> </u>		
VERIFICATION INSPECTION			
- GUNDSEAL, LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION).	<u> </u>		
- TOP SURFACE OF THE GUNDSEAL IS FLAT AND FREE OF DEBRIS.	<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.			
- ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.			
VERIFICATION TESTING			
GEOMEMBRANE THICKNESS IS VERIFIED.			<del></del>
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.	NA		
ONE DESTRUCTIVE TEST SAMPLE FOR EACH SQC FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED.	UA.	·	
SF INSTALLED TODAY = 12,628 tot.	8,228	primery	4400 Che
SF INSTALLED TO DATE = 227 354		<i>y</i> '/	
INSPECTOR Class Back	DAT	E 10-29-92	
REVIEWED BY HAND S. Tox Hend	mnta DAT	E /0 - 30 - 9	27.
J. D. 10-29-92	/		

		FORM A 8	/_ OF _/	
VL!	DPE GEOMEMBRANE	INSPECTI	ON DATE	
1.	MATERIAL	ACCEPT	REJECT	N/A
	- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.		<del>,</del>	· 
2.	VERIFICATION INSPECTION			,
	- GUNDSEAL LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION).	<u> </u>		
	- TOP SURPACE OF THE GUNDSEAL IS FLAT AND FREE OF DEBRIS.	<u>v.</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>		
	- 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.	N/A		
	- ONE DESTRUCTIVE TEST SAMPLE FOR EACH 500 FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED.	No.		
	SF INSTALLED TODAY = 10,868 - COLA , 3	1990 - Chan-	1 148	08-101
	SF INSTALLED TO DATE = 292/62			
	INSPECTOR CONTRACTOR	DATE	1-2-12	
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 DEERIS.  - EACH PANEL OF VLDPE LINER IS INSTALLED IN ACCORDANCE WITH THE SHOP DERWINGS PREPARED BY THE CONTRACTOR AND ACCEPTED 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 FEEL ADHESION AND BONDED SEAM STRENGTH (ONE PER DAY HACKHE/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 = 10.948 CGGA 3100 CMARLEL AND AND TESTED.  SF INSTALLED TODAY = 10.948 CGGA 3100 CMARLEL AND AND TESTED.				
	An 11-2.			

Transfer Services

RESULTS OF DESTRUCTIVE TEST RESULTS ATTATIONED

SAMPLES DS-12 THEN DS-BE.

ACCEPT REJECT N/A MATERIAL 1. - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. VERIFICATION INSPECTION 2. - 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 3. - 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 = SF INSTALLED TO DATE = INSPECTOR DATE DATE

"LDPE GEOMEMBRANE

FORM A\_8 SHEET \_\_\_\_\_ OF

INSPECTION DATE 10

VLDPE GEOMEMBRANE

FORM A_8 SHEET/	OF_	
INSPECTION		11-1-92

MATERIAL	ACCEPT	REJECT	N/A
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.			
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.			
AND TESTED FOR PEEL ADHESION AND			
- ALL THE FIELD SEAMS OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR PRESSURE TEST.			
ONE DESTRUCTIVE TEST SAMPLE FOR EACH-500 PEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED.		<u> </u>	
SF INSTALLED TODAY = 2200			
SF INSTALLED TO DATE = 260,638			
INSPECTOR AND BELLEVILLE	DATE	11-2-92	
REVIEWED BY phy I. To Logite	DATE	11-2-92	
	- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.  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 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.  SF INSTALLED TODAY = 2000  SF INSTALLED TODAY = 2000  SF INSTALLED TO DATE = 2006 ZB-INSPECTOR	MATERIAL  - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.  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 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.  SF INSTALLED TODAY = 2200  SF INSTALLED TODAY = 2000  SF INSTALLED TO DATE = 2006 200	MATERIAL  - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.  VERIFICATION INSPECTION  - GUNDSEAL LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (CONDITION (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 CONTRUCTION 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 ADDRESION 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—SOO FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED.  SF INSTALLED TODAY = 2200  SF INSTALLED TODAY = 2200  INSPECTOR DATE (1-2-92

		FORM A_8 SHEET/ OF/		
VLDPE GEOMEMERANE	INSPECTI	ON DATE _/	10-3-9	
1. MATERIAL	ACCEPT	REJECT	N/A	
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.	_			
. 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.	<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.	/			
- ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.			<del></del>	
. 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.	NA			
- ONE DESTRUCTIVE TEST SAMPLE FOR EACH 500 FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED.	NA			
SF INSTALLED TODAY = 38,544	<del></del>		6.707	
SF INSTALLED TO DATE =	- 289,1	82 L	L7.	

SHEET INSPECTION DATE 11-4-92 VLDPE GEOMEMBRANE REJECT ACCEPT A\N MATERIAL - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. VERIFICATION INSPECTION 2. - GUNDSEAL LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION). - TOP SURFACE OF THE GUNDSEAT 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. SF INSTALLED TODAY = INSPECTOR DATE DATE

FORM A\_8

NOV > 6 1992 FORM A 8 OF SHEET INSPECTION DATE VLDPE GEOMEMBRANE ACCEPT REJECT N/A MATERIAL 1. - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. VERIFICATION INSPECTION 2. - 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 WA PRESSURE TEST. ONE DESTRUCTIVE TEST SAMPLE FOR EACH-500 FEET LENGTH OF PRODUCTION MA SEAM COLLECTED AND TESTED. SF INSTALLED TODAY = SF INSTALLED TO DATE = INSPECTOR 11-5-52 DATE REVIEWED BY DATE

LDPE GEOMEMBRANE

FORM A 8 OF INSPECTION DATE 11-9-92

	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			
- 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).		7- NOV 1 0 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 = 14322 CELA-			
SF INSTALLED TO DATE = 261, 1842 CE	ELA		
INSPECTOR AND BOOK	DATE	11-9-92	
REVIEWED BY John St. Tro (Sorbyte	DATE	11-10-42	
11-9-92			

vldpe geomembrane	INSPECTION DATE 11-10-92		
) 1. MATERIAL	ACCEPT	REJECT	N/A
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.		······································	
. 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.	<u>_/</u>		
- 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.			
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).	No.	1.7. 1 1 1992	
- ALL. THE FIELD SEAMS OVER FULL LENGTH TESTED BY THE VACUUM-TEST OR AIR PRESSURE TEST.		·	
- One: Destructive: Test-Sample. For Back: 500: Fert: Length: Op. Production Seam: Collected: And Tested:			
SP INSTALLED TODAY = 2728 SF	*		<del></del>
SF INSTALLED TO DATE = 342,720 SF	QA.	m- 110-	
INSPECTOR China Bala	DATE	11-10-95	<b>*</b> 407.
REVIEWED BY John J. Lore (Harly)	nta) DATE	part of the state of	a branch

FORM A\_8

INSPECTION DATE 11-15-92 . LDPE GEOMEMBRANE REJECT ACCEPT N/A 1. MATERIAL - MANUFACTURER'S HILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. VERIFICATION INSPECTION 2. - GUNDSEAL, LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION). - TOP SURPACE 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 3. - GEOMEMBRANE THICKNESS IS VERIFIED. NOV 1 0 1992 - 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 SOO FEET LENGTH OF PRODUCTION ( SEE- 35-20 W) SEAM COLLECTED AND TESTED. SF INSTALLED TODAY = SF INSTALLED TO DATE = DATE

RESULTS OF DESTRUCTIVE

ATTHICHES

FORM A\_8

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FORM A\_8 SHEET OF INSPECTION DATE \_// -/8-72 LDPE GEOMENBRANE ACCEPT REJECT II/A **MATERIAL** 1, - MANUFACTURERIS HILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. vertrication the dection 2, - GROSENIA. LAYER ON WHICH VLDPE IS BEING: INSTALLED: IS IN SATISFACTORY. COMPLETON: (NONHYPRATED CONDITION). TOPASURFACE OF THE GUNDSEAL I'IS FIAT AND FREE OF DEBRIS. " FACH: PANEL: OF VIDPE LINER IS INSTALLED: IN ACCORDANCE WITH THE SHOP: DRAWINGS PREPARED BY THE CONTRACTOR AND ACCEPTED BY THE CONSTRUCTION: MANAGER. ALL SHAMBFARE WELDED. IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. VERIFICATION: TESTING - GECHENBRANE: THICKNESS IS VERIFIED. RAMPLESTOR SELECTED TEST SEAMS CUT AND THE ROLFOR PEEL ADMESION AND BONDED SAM STRUCTH (ONE PER DAY/ NACHES STANDING PERSONNEL AND AT LEASE ONCE EVERT FOUR HOURS BY EACH STANDER AND STANDING EQUIPMENT). ALLE TE FIELD BRANS OVER FULL LENGTH TRESTED TE THE VACUUM TEST OR AIR PRESURE TEST: HE PEOPLE TYPE TEST SAMPLE FOR A LOSE FOR THE LENGTH OF PRODUCTION AND TESTED. SP INSTALLED TODAY = DATE ATTRICHED S!

C-18, C-4, C-20, C-21\$C-280

5.34

INSPECTION DATE 11-19-92 'LDPE GEOMEMBRANE ACCEPT REJECT H/A MATERIAL 1. - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. VERIFICATION INSPECTION 2. - 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 SPAK STRENGTH (ONE PER DAY/ MACHINE/SEANING 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: DESTRICTIVE TEST SAMPLE FOR EACH: 500 FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED: SP INSTALLED TODAY = SF INSTALLED TO DATE = 389629 INSPECTOR-DATE

FORM A\_8

SHEET

OF

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_		NOV 21 1992			ء جانب
·~ ;	VLDPE#GEONFHBPANE	ZER J	FORM: A 8 SHEET INSPECTI	ON DATE /	-20-40
`~			ACCEPT	REJECT	A/II
~	- MANUFACTURERIS HILI APPIDAVIT HAS BEEN	CERTIFICATE OR PROVIDED.	~		• •
	2. VERIFICATION INSPECTI				* <u>*</u>
- <del>-</del>	COMBINION (HONHADBY BEINGTINEATTED IN A CHEENTY ITABLE ON MA	IN SATISFACTORY			
:	ta tiatiand tree of	indsbal Debris.			
· ·	" Eache Panel; of Vldpe Ingestled: In Accord Brose Dranzhge: Prepai Comprisor And Acces Comprisor Che Manages	NCE WITH THE RED BY THE PTED BY THE			
	- Allisbans are welded accordance with the requirements.	i in Manufacturer is		er ton Specimen	
	1, Verification Teating				
	- CECHTHERAND CHICKNES	s is verified.		ALVE - MARKETINE	
	HARRING STATING PERSON OF THE PERSON OF THE PERSON AND STATINGS FOR	Adhesion and (One Periday/ Dinel and at Rhours by Each Diphent):			\$1.3 2.13 2.13
		ver: full length test: or like			
	HAM BULLETIE VALE IN THE TENTE	SAMPLE FOR- OP PRODUCTION STROWN			
. \$ 465	SP RETALLED TODAY = 2	\$ 540- 10100 6	77	many join	3
(1)	STINSTALLED TO DATE:	13164		11/11-20	
1			DATE:	//-24-03	A 10
100	1-1		DATE		

NOV 2 2 1992

		NOV 2 2 1992	FORM A_8 SHEET	L OF 1	<u>r</u>
LDI	Pe Geomenbrane	OEGEVA:	INSPECTI	ON DATE _	11-21-9
1,	HATERIAL		ACCEPT	REJECT	11/A
	- HANUFACTURERIS HILL AFFIDAVIT HAS BEEN	CERTIFICATE OR PROVIDED.			
2,	vertaicylium inspectio	ЭЙ			
•	THE HO REVALUE THE PROPERTY OF	in satisfactory			
r	TOP SURPAGE OF THE G	ndseal Debriș.			
<b>7</b>	EACH PANEL OF VLDPE INSTALLED IN ACCORDA SHOP. DRAWINGS. PREPAR CONTRACTOR AND ACCEP CONSTRUCTION MANAGER	NCE WITH THE ED BY THE TED BY THE			
<del>171</del>	ALL SEAMS ARE WELDED ACCORDANCE WITH THE 1 REQUIREMENTS.	in Manufacturer 's	<u> </u>		
, VI	eripication testing				
7	GEOKENBRANE THICKNESS	IS VERIFIED.			
,	Amples of Belected t and Tested for Peel A Bonded Beam Strength Machine/Seaning Perso Least Ongs Every Four Seaner and Seaning Equ	DHESION AND (ONE PER DAY/ NNEL AND AT HOURS BY EACH			
7	ALL THE FIELD SEAMS OF THE VACUUM TO PRESSURE THE TOTAL THE PRESSURE T	VER FULL LENGTH TEST OR AIR	<u> </u>		
	one: Deservotive: Test- 6	P PRODUCTION	<u> </u>		
•	SF INSTALLED TODAY = 93	402			
	SP INSTALLED TO DATE =	422, 404 SF?	<del></del>		
	INSPECTOR Charles	all	DATE	11-21-92	
	REVIEWED BY Inshind	Sandes	DATE	11/22/92	
	- "- "	·			i

..**...** 

FORM A\_8 SHEET INSPECTION DATE VLDPE GEOMEMBRANE: ACCEPT REJECT HATERIAL. MANUFACTURERIS HILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. VERTFICATION INSPECTION 2, CANDERAL LAYERS ON WHICH VLDPE IS DEING INSTALLED IS IN SATISFACTORY CONDITION (HONHYDRATED CONDITION). " TOP SURPAGE: OF THE GLNDSBAL IS TEAT AND TREE OF DEBRIS. BACH: PANELO OF VLDPE: LINER IS INSTALLED: IN: ACCORDANCE WITH THE SHORIDANENGE PREPARED. BY THE CONTRACTORIAND ACCEPTED BY THE CONSTRUCTION MANAGER. ALL SEAMSWARE: WELDED. IN ACCORDANCE: WITH THE MANUFACTURER'S REQUIREMENTS. verification testing 1, g GRONINGRANG: THICKNESS IS VERIFIED. AMPLESIOP STRUCTED TEST SEAMS: CUT NDATESTED FOR PEEL: ADHESIOM: AND CUDEN SEAM STRUCTH: (ONE: PER: DAY/ ACCUPATION PERSONNEL AND AT ACCUPATION OF THE PROPERTY POURS HOURS BY: EACH ALL FAMILIES EQUIPMENT). ALIA PHE PIETO SPAMO: OVER: FULL LENGTH VENETO BY VHELVACUUM: TEST: OR-AIR PREAMINE VENET

		NOV 2 5 1992	FORM A 8	/ OF	,
√LDP	e Geomenbrane	PECENTE		OI DATE	1/24/92
1, }	iaterial		ACCEPT	REJECT	H/A
•	MANUPACTURER IS HI APPIDAVIT HAS BEE	LL CERTIFICATE OR N PROVIDED.	$\sqrt{}$		
:, V	eripication inspec	rion			
<del>,</del>	CONDITION (NONHYDI	I IN SATISPACTORY	$\sqrt{}$		
; 17 	TOP SURFACE OF THE	GUNDSEAL F DEBRIS.			
·1,	EACH PANEL OF VLDS INSTALLED IN ACCOR SHOP DRAWINGS PRES CONTRACTOR AND ACC CONSTRUCTION MANAGE	DANCE WITH THE ARED BY THE EPTED BY THE			
1.0	atli <mark>seans: are w</mark> eld accordance: with the requirements.	ED IN E MANUFACTURER'S			
<b>AE</b>	rification testing				
<del>a</del> (	GEONEMBRANE THICKNE	es is verified.			
	ACHTNE/SEAMING PER LASTIONCE EVERY PO EAHER: AND SEAMING	ADHESION AND H (ONE PER DAY/ SONNEL AND AT UR HOURS BY EACH			
7 4	respiratore. Caronia	OVER FULL LENGTH TEST OR AIR	$\sqrt{}$		
TO BE	ne i destructive test Acres 00: Feet Lengti Parl Collected and t	OP PRODUCTION	<u> </u>		
•	SF INSTALLED TODAY =	36,960 SF			
,	SP INSTALLED TO DATE =	477, 844 SF			
	INSPECTOR:	But	<u>DATE</u>	11-24-92	
. 1	REVIEWED BY	an branks	DATE	1/25/92	
	+ DE SULTS OF	DESMUCTUS TESTS: C	22, C24 -C30 AR	R. ATMYCHEL	Steer

VLDPE	DEC 0 1 1992		OF	11/30/9
<del></del>		ACCEPT	REJECT	N/A
	ATERIAL			
-	MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.			
2. V	ERIFICATION 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.	<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.			
	ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.			
. VE	RIFICATION TESTING			[
-	GEOMEMBRANE THICKNESS IS VERIFIED.		<del></del>	
• .	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 LENGT FESTED BY THE VACUUM TEST OR AIR PRESSURE TEST.	H		
: 1	ONE DESTRUCTIVE TEST SAMPLE FOR EACH 500 FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED.		<u>.</u>	
20	SF INSTALLED TODAY = 36 960 sr-			
x	SF INSTALLED TO DATE = 514, 759	83.845 SF	CELA + 430,914 ·	(2
	INSPECTOR Charles	DATE	11-30-92	
	REVIEWED BY Inthum Brandes	DATE	12/1/92	

VLD	PE GEOMEMBRANE	DEC 0 2 1992	FORM A_8 SHEET INSPECTION	OF /	2/1/92
	MATERIAL	1000	ACCEPT	REJECT	N/A
	- MANUFACTURER'S MII AFFIDAVIT HAS BEEN		$\angle$		<del></del>
2.	VERIFICATION INSPECT	NOI			
	- GUNDSEAL LAYER ON W BEING INSTALLED IS CONDITION (NONHYDR	IN SATISFACTORY			<del></del>
	- TOP SURFACE OF THE IS FLAT AND FREE O				
	- EACH PANEL OF VLDP INSTALLED IN ACCOR SHOP DRAWINGS PREP. CONTRACTOR AND ACC CONSTRUCTION MANAGE	DANCE WITH THE ARED BY THE EPTED BY THE			
	- ALL SEAMS ARE WELD! ACCORDANCE WITH THI REQUIREMENTS.				
3.	VERIFICATION TESTING				
	- GEOMEMBRANE THICKNE	ess is verified.		<del></del>	
	- SAMPLES OF SELECTED AND TESTED FOR PEED BONDED SEAM STRENGT MACHINE/SEAMING PER LEAST ONCE EVERY FOR	L ADHESION AND TH (ONE PER DAY/ RSONNEL AND AT OUR HOURS BY EACH			
•	- ALL THE FIELD SEAMS TESTED BY THE VACUU PRESSURE TEST.		$\sqrt{}$		
S.C.	ONE DESTRUCTIVE TES EACH-500 FEET LENGT SEAM COLLECTED AND	H OF PRODUCTION	<u> </u>		
J	SF INSTALLED TODAY =	14, 916 SF	4614	a'	
	SF INSTALLED TO DATE =	529,675 SF	445,830 SF 1	83,84	- /1
	INSPECTOR Control	But	DATE	12-1-92	
	REVIEWED BY	n Brandes	DATE	17/3/92	
	# DESULTS OF DESTI	WETWE BESTS DS-	C31 TO DS-C	38 Me_	
	that a marcial				

VLDP	PE GEOMEMBRANE	DEC 0 3 1992	FORM A_8 SHEET INSPECTI	/ OF /	0/0/2
	MATERIAL	(ZEB)	ACCEPT	REJECT	N/A
	- MANUFACTURER'S MILL AFFIDAVIT HAS BEEN			<del></del>	
2.	VERIFICATION INSPECTI	ON			
	- GUNDSEAL LAYER ON WH BEING INSTALLED IS CONDITION (NONHYDRA	IN SATISFACTORY			
	- TOP SURFACE OF THE G IS FLAT AND FREE OF	GUNDSEAL DEBRIS.	<u> </u>	<del></del>	
-	- EACH PANEL OF VLDPE INSTALLED IN ACCORDS SHOP DRAWINGS PREPAI CONTRACTOR AND ACCES CONSTRUCTION MANAGES	ANCE WITH THE RED BY THE PTED BY THE			
-	ALL SEAMS ARE WELDER ACCORDANCE WITH THE REQUIREMENTS.				
3. V	ERIFICATION TESTING			)	
-	GEOMEMBRANE THICKNES	s is verified.	( TO BE VELIFIE	ED_TOURNOW/	
-	SAMPLES OF SELECTED AND TESTED FOR PEEL BONDED SEAM STRENGTH MACHINE/SEAMING PERS LEAST ONCE EVERY FOU SEAMER AND SEAMING E	ADHESION AND (ONE PER DAY/ ONNEL AND AT R HOURS BY EACH		·	
· –	ALL THE FIELD SEAMS TESTED BY THE VACUUM PRESSURE TEST.		$\sqrt{}$		
-	ONE DESTRUCTIVE TEST EACH PEET LENGTH SEAM COLLECTED AND TO	OF PRODUCTION			
00	SF INSTALLED TODAY = c	25 000 SF			
XL	SF INSTALLED TO DATE =	554,675 SF	<del></del>		·
	INSPECTOR INSPECTOR	2 D Can	DATE	12-2-92	
	REVIEWED BY	an Branda	DATE	12/3/92	

OF SHEET DEC 0 4 1992 INSPECTION DATE VLDPE GEOMEMBRANE ACCEPT REJECT N/A MATERIAL - 1. - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. VERIFICATION INSPECTION - GUNDSEAL LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION). - TOP SURFACE OF THE GUNDSEAU 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. 1501 00 - ONE DESTRUCTIVE TEST SAMPLE FOR EACH FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED. SF\_INSTALLED TODAY = ( 83,845 SF INSPECTOR DATE REVIEWED BY

FORM A\_8

OF SHEET NFC 07 1992 INSPECTION DATE VLDPE GEOMEMBRANE PORCEWIS ACCEPT REJECT N/A MATERIAL - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. VERIFICATION INSPECTION 2. - GUNDSEAL LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION). - TOP SURFACE OF THE GUNDSEAU 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 CHECKED OU PRINCES INSTANTO 12-2, 12-3 \$ 70044. - 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-SEFFEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED. SF INSTALLED TODAY = SF INSTALLED TO DATE = INSPECTOR DATE WELDING REMAINLS.

FORM A\_8

•	•		SHEET _	OF	
LD	PE GEOMEMBRANE	100 C 1002	INSPECT	ION DATE _	2-7-91
-	MATERIAL	(Jeb)	ACCEPT	REJECT	N/A
	- MANUFACTURER'S MI AFFIDAVIT HAS BEE		_		
	VERIFICATION INSPEC	CTION			
	- GUNDSEAL LAYER ON BEING INSTALLED I CONDITION (NONHYD	S IN SATISFACTORY			
	- TOP SURFACE OF TH IS FLAT AND FREE	E GUNDSEAL OF DEBRIS.			
	- EACH PANEL OF VLD INSTALLED IN ACCO SHOP DRAWINGS PRE CONTRACTOR AND ACCONSTRUCTION MANAGE	RDANCE WITH THE PARED BY THE CEPTED BY THE			
	- ALL SEAMS ARE WELL ACCORDANCE WITH TH REQUIREMENTS.				
,	VERIFICATION TESTING	i			
	- GEOMEMBRANE THICK	VESS IS VERIFIED.			
•	- SAMPLES OF SELECTE AND TESTED FOR PEE BONDED SEAM STRENG MACHINE/SEAMING.PE LEAST ONCE EVERY F SEAMER AND SEAMING	TL ADHESION AND TH (ONE PER DAY/ RSONNEL AND AT OUR HOURS BY EACH		<u></u> .	
•	TESTED BY THE VACUE PRESSURE TEST.				
	ONE DESTRUCTIVE TE EACH SEET LENG SEAM COLLECTED AND	TH OF PRODUCTION			
	SF INSTALLED TODAY =	0 SF		:	
	SF INSTALLED TO DATE	= 619,1215F	· - <del></del>		·
	INSPECTOR Com	Bot	<u> Date</u>	12-7-92	
	REVIEWED BY	in brander	DATE	17/9/92	

10.55

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SHEET OF INSPECTION DATE 12-8-92 VLDPE GEOMEMBRANE DEC\_0\_9\_1992 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. 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 SEFEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED. SF INSTALLED TODAY = SF INSTALLED TO DATE = INSPECTOR NO NOW PANELS WELL PLACED TODY; ALTHURST THE WEDGE WEIGHAR OF THE PANELS PLACED ON 12-4-92 WAS COMPLETED IN ACCORDANCE - WITH

COLD WEATHER WELDING BOOVEMENTS.

FORM A 8

FORM A\_8 OF SHEET INSPECTION DATE 12-7-92 VLDPE GEOMEMBRANE ACCEPT REJECT N/A MATERIAL - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. VERIFICATION INSPECTION - GUNDSEAL LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION). - TOP SURFACE OF THE GUNDSEAU 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. SF INSTALLED TODAY = SF INSTALLED TO DATE = 619, 121 SF

PERSONNEL ONLY DESCRIPTIONS WELDING PERSONNEL IN ACCORDING WITH LESSYNTES'S COLD WESTHER WASHING BEUNEMOUTS, MINERIALISTING RESINTS OF DESTRUCTIVE TESTS 44-53 ALL ATTRICHED.

DATE

INSPECTOR

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VLDPE GEOMEMBRANE	DEICH TO	INSPECTI	ON DATE _	2-10-71
1. MATEPIAL		ACCEPT	REJECT	N/A
- MANUFACTURER'S MI AFFIDAVIT HAS BEE			***********	
2. VERIFICATION INSPEC	TION			
- GUNDSEAL LAYER ON BEING INSTALLED I CONDITION (NONHYD	S IN SATISFACTORY	<u> </u>		
- TOP SURFACE OF TH IS FLAT AND FREE				
- EACH PANEL OF VLD INSTALLED IN ACCO. SHOP DRAWINGS PRE CONTRACTOR AND ACCONSTRUCTION MANAGE	RDANCE WITH THE PARED BY THE CEPTED BY THE	<u> </u>		
- ALL SEAMS ARE WELL ACCORDANCE WITH TH REQUIREMENTS.		~		
. VERIFICATION TESTING	i			
- GEOMEMBRANE THICKN	ESS IS VERIFIED.			
- SAMPLES OF SELECTE AND TESTED FOR PEE BONDED SEAM STRENG MACHINE/SEAMING PE LEAST ONCE EVERY F SEAMER AND SEAMING	L ADHESION AND TH (ONE PER DAY/ RSONNEL AND AT OUR HOURS BY EACH	_	·	
- ALL THE FIELD SEAM: TESTED BY THE VACUE PRESSURE TEST.		_		
- ONE DESTRUCTIVE TES EACH-500 FEET LENGT SEAM COLLECTED AND	TH OF PRODUCTION			
SF INSTALLED TODAY =	0 SF		<del></del>	
SF INSTALLED TO DATE	= 619,121 5F	·	<del></del>	
INSPECTOR CONTRACTOR	Both	DATE	12-10-91	
REVIEWED BY forall	tun Brandes	DATE	12/14/92	
F PERSONNED ONLY REPAIR	- work Today . Welow	L PENFAMED	ACCORD	wee:

WITH GEOSYNTEE'S COLD WEATHER WELDING REDVIREMONTS, DECEMBER OF

DESTRUCTION TOSTS C72 - C74 ALE ATTREMEN.

VLDPE GEOMEMBRANE

MATERIAL	ACCEPT	REJECT	N/A
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.	_		
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.	<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.			
- ALL SEAMS ARE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.			
VERIFICATION TESTING			
- GEOMEMBRANE THICKNESS IS VERIFIED.		DEC 1 5 19	197
- 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).		PEGENY ICL 7.	
- ALL THE FIELD SEAMS OVER FULL LENGTH TESTED BY THE VACUUM TEST OR AIR PRESSURE TEST.			
- ONE DESTRUCTIVE TEST SAMPLE FOR EACH SEE FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED.	<u>~</u>		
SF INSTALLED TODAY = 0		· .•	
SF INSTALLED TO DATE = 619,121 SF	·	<del></del>	
INSPECTOR And Ball	DATE	12-14-92	
REVIEWED BY	DATE	<u> </u>	

. VLDPE GEOMEMBRA	DEC 1 9 1992 ne		OF /	
		ACCEPT	REJECT	N/A
1. MATERIAL				
	RER'S MILL CERTIFICATE HAS BEEN PROVIDED.	OR		
2. VERIFICATIO	N INSPECTION			
BEING INS	AYER ON WHICH VLDPE IS TALLED IS IN SATISFACTO (NONHYDRATED CONDITION			
- TOP SURFAC	CE OF THE GUNDSEAL ND FREE OF DEBRIS.			
INSTALLED SHOP DRAWI CONTRACTOR	OF VLDPE LINER IS IN ACCORDANCE WITH THE INGS PREPARED BY THE I AND ACCEPTED BY THE ON MANAGER.			
	ARE WELDED IN WITH THE MANUFACTURER TS.	s		
. VERIFICATION	TESTING			
- GEOMEMBRAN	E THICKNESS IS VERIFIED			
AND TESTED BONDED SEAM MACHINE/SEA LEAST ONCE	SELECTED TEST SEAMS CU FOR PEEL ADHESION AND 1 STRENGTH (ONE PER DAY AMING PERSONNEL AND AT EVERY FOUR HOURS BY EA SEAMING EQUIPMENT).	/	<u> </u>	
	THE VACUUM TEST OR AIR	eth ——		
each-	TIVE TEST SAMPLE FOR ET LENGTH OF PRODUCTION TED AND TESTED.		·	
SF INSTALLED	TODAY = 0			
SF INSTALLED	TO DATE = 619, 121 5F			
	16 - 800			

PENSONNED ONLY JOHN HOME TODAY. WISHON PENSONNED. IN ACCORDING WITH COOSYNTELS COLO WENTHER WELDONG RESTURDENTS. COMPLETE PAST PASTER TROMY.

REVIEWED BY

•	DEC 2 1 1992 FORM A 8 SHEET OF				
LDPE	GEOMEMBRANE	DECEMEN	Inspecti	ON DATE 12	-11-92-
. M2	ATERIAL	W 7572 M	ACCEPT	REJECT	N/A
~	MANUFACTURER'S MI AFFIDAVIT HAS BEE	LL CERTIFICATE OR	~		
. VE	RIFICATION INSPEC	TION			
	GUNDSEAL LAYER ON BEING INSTALLED I CONDITION (NONHYD	S IN SATISFACTORY			*****
	TOP SURFACE OF THE			*****	
	EACH PANEL OF VLDI INSTALLED IN ACCO SHOP DRAWINGS PREI CONTRACTOR AND ACC CONSTRUCTION MANAGE	RDANCE WITH THE PARED BY THE CEPTED BY THE			<u> </u>
7	ALL SEAMS ARE WELL ACCORDANCE WITH TH REQUIREMENTS.				
VER	IFICATION TESTING				
- G	EOMEMBRANE THICKN	ESS IS VERIFIED.			
A B M L	AMPLES OF SELECTE ND TESTED FOR PEE ONDED SEAM STRENG' ACHINE/SEAMING PEI EAS' ONCE EVERY FO	L ADHESION AND IH (ONE PER DAY/ RSONNEL AND AT OUR HOURS BY EACH		·	
. <b>T</b> 1	LL THE FIELD SEAMS ESTED BY THE VACUA RESSURE TEST.	OVER FULL LENGTH	_		
EJ	HE DESTAUCTIVE TES ACH PLAN FEET LENGT EAM COLLECTED AND	H OF PRODUCTION		<u>.                                    </u>	
3	SF INSTALLED TODAY =	1375 SP			
5	SF INSTALLED TO DATE	= 620,496 F	·		
1	INSPECTOR:	- Bat	DATE	12-19-92	
F	REVIEWED BY ACTU	Bandes	DATE	17-22-92	1

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. •	DEC 22 1992	FORM A_8 SHEET		•
VLDPE GEOMEMBRANE	DECEMBE		ION DATE	2/20/90
	7.52	ACCEPT	REJECT	H/A
1. MATERIAL				
- MANUFACTURER'S M AFFIDAVIT HAS BE				
2. VERIFICATION INSPEC	CTION			
	WHICH VLDPE IS IS IN SATISFACTORY DRATED CONDITION).	_		
- TOP SURFACE OF TH IS FLAT AND FREE	IE GUNDSEAL OF DEBRIS.	<u> </u>		
- EACH PANEL OF VLD INSTALLED IN ACCO SHOP DRAWINGS PRE CONTRACTOR AND AC CONSTRUCTION MANA	PROANCE WITH THE PARED BY THE CEPTED BY THE	_	***************************************	
- ALL SEAMS ARE WEL ACCORDANCE WITH TO REQUIREMENTS.				
. VERIFICATION TESTING	G			
- GEOMEMBRANE THICK	NESS IS VERIFIED.			
- SAMPLES OF SELECTE AND TESTED FOR PER BONDED SEAM STRENG MACHINE/SEAMING PE LEAST ONCE EVERY F SEAMER AND SEAMING	EL ADHESION AND ETH (ONE PER DAY/ ERSONNEL AND AT FOUR HOURS BY EACH			
- ALL THE FIELD SEAM TESTED BY THE VACU PRESSURE TEST.			***************************************	
- ONE DESTRUCTIVE TE EACH-500 FEET LENG SEAM COLLECTED AND	TH OF PRODUCTION		·	
SF INSTALLED TODAY =	0 SF _	<del></del>		
SF INSTALLED TO DATE	= 620,496 SF			
INSPECTOR (	Um S Fall	- DATE	12-21-92	
	4 0 (1)			
REVIEWED BY Armal	Kein Dadielas	DATE	12-22-92	

	MAY 1 9 1993	FORM A 8		/ 5-14-93
VLDPE GEOMEMBRANE	0081038209787	INSPECT	ION DATE _	5 -14-12
1. MATERIAL		ACCEPT	REJECT	A\N
- MANUFACTURER'S I	MILL CERTIFICATE OR EEN PROVIDED.	<u>/</u>	-	
2. VERIFICATION INSPI	ECTION			
	WHICH VLDPE IS IS IN SATISFACTORY (DRATED CONDITION).	<u> </u>		
- TOP SURFACE OF T IS FLAT AND FREE	THE GUNDSEAL C OF DEBRIS.	<u></u>		
- EACH PANEL OF VI INSTALLED IN ACC SHOP DRAWINGS PR CONTRACTOR AND A CONSTRUCTION MAN	ORDANCE WITH THE EPARED BY THE CCEPTED BY THE	<u></u>		
- ALL SEAMS ARE WE ACCORDANCE WITH ! REQUIREMENTS.	LDED IN THE MANUFACTURER'S	<u></u>		
. VERIFICATION TESTI	NG			
- GEOMEMBRANE THIC	KNESS IS VERIFIED.			
MACHINE/SEAMING F	EEL ADHESION AND IGTH (ONE PER DAY/ PERSONNEL AND AT FOUR HOURS BY EACH	V	·	
- ALL THE FIELD SEA TESTED BY THE VAC PRESSURE TEST.		<u> </u>		
- ONE DESTRUCTIVE TO EACH-500 FEET LENG SEAM COLLECTED AND	GTH OF PRODUCTION	<u> </u>		
SF INSTALLED TODAY :	= 8800° EAST	CHANNEL	CAP EX	7215-30
SF INSTALLED TO DATE	= 629,2962	·		
INSPECTOR:	4 mit	DATE	5-14	1-53
REVIEWED BY	than Brandag	DATE	5/20/93	
V			•	. [

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MAY 1 9 1993 INSPECTION DATE VLDPE GEOMEMBRANE ACCEPT REJECT H/A MATERIAL - HANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. VERIFICATION INSPECTION - COUDSEAL LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION). - TOP SURFACE OF THE CHINDSEAL IS FLAT AND FREE OF DEBRIS. - EACH PANEL OF VIDPE 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/ HACHINE/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 FRESSURE TEST. THE DESTRUCTIVE TEST SAMPLE FOR EACH-500 FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED. SE INSTALLED TODAY = North Chancel SE HISTALLED TO DATE = INSPECTOR DATE BECLEWED 18

FORM A\_8

SHEET

OF

FORM A\_B 1 OF SHEET MAY 2 4 1993 5-21-93 VLOPE GEOMEMBRANE INSPECTION DATE ACCEPT REJECT H/A MATERIAL - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. VERIFICATION INSPECTION 2. - CHADSEAL, LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION). - TOP SURFACE OF THE CHINDSEAL 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 MAHAGER. 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 SEAH STRENGTH (ONE PER DAY/ HACHINE/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 FRESSURE TEST. - ONE DESTRUCTIVE TEST SAMPLE FOR EACH-500 FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED. SE MISTALLED TODAY = Walder SF JUSTALLED TO DATE = INSPECTOR DATE reviewed by

2 4 333

FORM A\_B SHEET OF INSPECTION DATE VLDPE GEONEMBRANE ACCEPT REJECT H/A MATERIAL - MANUFACTURER'S HILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. VERIFICATION INSPECTION - CHINDSEAL, LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (HONHYDRATED CONDITION). - TOP SURFACE OF THE CHINDSEAL 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/ HACHINE/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 TRESSURE TEST. .. ONE DESTRUCTIVE TEST SAMPLE FOR EACH-500 FEET LENGTH OF PRODUCTION SEAM COLLECTED AND TESTED. SF INSTALLED TODAY = NO LINER INSTALLED TODA a Hack ed # 5 75 276 SF PUSTALLED TO DATE = INSPECTOR DATE RECLEMED BY

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/ OF SHEET INSPECTION DATE VLDPE GEONEMBRANE REJECT N/A ACCEPT MATERIAL - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. VERIFICATION INSPECTION - CUMDSEAL LAYER ON WHICH VLDPE IS BEING INSTALLED IS IN SATISFACTORY CONDITION (NONHYDRATED CONDITION). - TOP SURFACE OF THE GINDSEN 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/ HACHTHE/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 JUSTALLED TODAY = SE JUSTALLED TO DATE = INSPECTOR DATE

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FORM A B

	<b>JUN</b> 0 2 1993	FORM A_8	OF	
VLDPE GEOMEMBRANE	DECEMBIN		ON DATE	5-27:28
I. MATERIAL	M JEG III	ACCEPT	REJECT.	W/ LEFT
- MANUFACTURER'S MIL AFFIDAVIT HAS BEEN		<u> </u>		
2. VERIFICATION INSPECT	ION			
- CUNDSEAL LAYER ON WE BEING INSTALLED IS CONDITION (NONHYDRA	IN SATISFACTORY			
- TOP SURFACE OF THE ( IS FLAT AND FREE OF	CUNDSEAL DEBRIS.			
- EACH PANEL OF VLDPE INSTALLED IN ACCORD. SHOP DRAWINGS PREPARTOR AND ACCESTOR CONSTRUCTION MANAGES	ANCE WITH THE RED BY THE PTED BY THE			
ALL SEAMS ARE WELDED ACCORDANCE WITH THE REQUIREMENTS.				
. VERIFICATION TESTING				The services
- GEOMEMBRANE THICKNES	s Is VERIFIED.		·	
- SAMPLES OF SELECTED AND TESTED FOR PEEL BONDED SEAM STRENGTH HACHINE/SEAMING PERSON LEAST ONCE EVERY FOUR SEAMER AND SEAMING EQ	ADHESION AND (ONE PER DAY/ ONNEL AND AT R HOURS BY EACH			
- ALL THE FIELD SEAMS OF TESTED BY THE VACUUM PRESSURE TEST.				
- ONE DESTRUCTIVE TEST EACH-500 FEET LENGTH SEAM COLLECTED AND TE	OF PRODUCTION			
SF INSTALLED TODAY = D	S #15 77-7	B sent hi	26	
SF INSTALLED TO DATE =	· -	·		
INSPECTOR JA MA	ntn's	DATE Q	-199	
REVIEWED BY forallia	M. Brandes	DATE G	/2/92	

VLD	PE GEOMEMBRANE	MAY 2 8 1999 THEIR PROPERTY OF THE PROPERTY OF	FORM A_6 SHEET INSPECT	OFOF	5-20-5
11.	MATERIAL	1 (2E)	ACCEPT	REJECT	H/A
	- MANUFACTURER'S MILI AFFIDAVIT HAS BEEN		<u> </u>		
2.	VERIFICATION INSPECTI	ю			
	- GUNDSEAL LAYER ON WH BEING INSTALLED IS CONDITION (NONHYDRA	IN SATISFACTORY			Steen
	- TOP SURFACE OF THE () IS FLAT AND FREE OF				-
-	- EACH PANEL OF VLDPE INSTALLED IN ACCORDA SHOP DRAWINGS PREPAR CONTRACTOR AND ACCES CONSTRUCTION MANAGER	ANCE WITH THE RED BY THE PTED BY THE	<u>/</u>		\$200 at 100 at 1
	ALL SEAMS ARE WELDED ACCORDANCE WITH THE REQUIREMENTS.				*
j. V	ERIFICATION TESTING				
	GEOMEMBRANE THICKNESS	s is verified.			<del></del>
-	SAMPLES OF SELECTED TO AND TESTED FOR PEEL A BONDED SEAM STRENGTH MACHINE/SEAMING PERSO LEAST ONCE EVERY FOUR SEAMER AND SEAMING EQ	ADHESION AND (ONE PER DAY/ ONNEL AND AT R HOURS BY EACH	<u>/</u> .		
	ALL THE FIELD SEAMS O TESTED BY THE VACUUM PRESSURE TEST.				
1	ONE DESTRUCTIVE TEST : EACH-500 FEET LENGTH ( SEAM COLLECTED AND TES	OF PRODUCTION			
	SF INSTALLED TODAY =	Ds results a	Hached		
	SF INSTALLED TO DATE =		•		
	INSPECTOR Ja Man	to	DATE	6-1-	
	REVIEWED BY Amathe	in Handes	DATE	app	

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FORM A-9
SHEET \_\_\_\_OF \_\_\_
INSPECTION DATE \_\_\_\_\_\_\_

		ACCEPT	REJECT	N/
	MATERIAL			
•	LIVITUTE			
	- MANUFACTURER'S MILL CERTIFICATE OR			
	AFFIDAVIT HAS BEEN PROVIDED.			
			<del></del>	
	VERIFICATION INSPECTION			
	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.			
	AND TOTAL OF THE PARTY OF THE PARTY.			
	- ADJACENT ROLLS ARE JOINED BY PLASTIC TIES SUPPLIED WITH THE LINER.			
	TIES SUPPLIED WITH THE DIRECK.	<del></del>	<del></del>	
	- MINIMUM OVERLAP IS 6 INCHES.			
	DUST CONTROL			
	,			
	ACTION TAKEN NONE REWVINED			
	LOCATION (APPROXIMATE)			
		of Power	Poul	
•	LOCATION (APPROXIMATE)			
•	LOCATION (APPROXIMATE)  EAST 510E & SITE - SOUTH			
•	LOCATION (APPROXIMATE)  EAST 510E & SITE - SOUTH		778	
•	LOCATION (APPROXIMATE)  EAST 510E & SITE - SOUTH			-10-7
•	LOCATION (APPROXIMATE)  EAST SIDE & SITE - SOUTH  REMARKS FIRST DAY OF STATES  SF INSTALLED TODAY = 11,400 SF		778	-10-7)
•	LOCATION (APPROXIMATE)  EAST SIDE OF SIME - SOUTH		JAM 11-	-10-7
•	LOCATION (APPROXIMATE)  EAST SIDE & SITE - SOUTH  REMARKS FIRST DAY OF STATES  SF INSTALLED TODAY = 11,400 SF		778	-10-7
•	LOCATION (APPROXIMATE)  EAST SIDE & SITE - SOUTH  REMARKS FIRST DAY OF STATES  SF INSTALLED TODAY = 11,400 SF		JAM 11-	-10-7
•	LOCATION (APPROXIMATE)  EAST SIDE & SITE - SOUTH  REMARKS FIRST DAY OF STATES  SF INSTALLED TODAY = 11,400 SF		JAM 11-	-10-7)
•	LOCATION (APPROXIMATE)  EAST SIDE & SITE - SOUTH  REMARKS FIRST DAY OF STATES  SF INSTALLED TODAY = 11,400 SF		JAM 11-	-10-7)
•	LOCATION (APPROXIMATE)  EAST SIDE & SITE - SOUTH  REMARKS FIRST DAY OF STATES  SF INSTALLED TODAY = 11,400 SF		JAM 11-	-10-7
	LOCATION (APPROXIMATE)  EAST SIDE of SITE - SOUTH  REMARKS FILST DAY OF SETTING  SF INSTALLED TODAY = 11,400 SF  SF INSTALLED TO DATE = 11,400 SF		JAM 11-	
	LOCATION (APPROXIMATE)  EAST SIDE & SITE - SOUTH  REMARKS FIRST DAY OF STATES  SF INSTALLED TODAY = 11,400 SF		JAM 11-	
. :: I	LOCATION (APPROXIMATE)  EAST SIDE of SITE - SOUTH  REMARKS FILST DAY OF SETTING  SF INSTALLED TODAY = 11,400 SF  SF INSTALLED TO DATE = 11,400 SF		JAM 11-	-/0-91

SHEET OF INSPECTION DATE JEOSYNTHETIC DRAINAGE LINER REJECT ACCEPT N/A MATERIAL 1. - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. VERIFICATION INSPECTION 2. - 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. DUST CONTROL ACTION TAKEN LOCATION (APPROXIMATE) SF INSTALLED TODAY 58,710 SF INSTALLED TO DATE =

INSPECTOR

REVIEWED BY

FORM A-9

DATE //-//-92

DATE //-/3-93

FORM A-9 

MATERIAL	ACCEPT	REJECT	11/
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.			
VERIFICATION INSPECTION			
- TOP SURFACE OF THE VLDPE LINER IS FREE OF DEBRIS BEFORE THE DRAINAGE LINER INSTALLATION.		<del></del>	
- DRAINAGE LAYER IS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S AND SPECIFICATION REQUIREMENTS.		<del></del>	
- ADJACENT ROLLS ARE JOINED BY PLASTIC TIES SUPPLIED WITH THE LINER.			
- MINIMUM OVERLAP IS 6 INCHES.			
DUST CONTROL			
ACTION TAKEN NONE REDVICE			
LOCATION (APPROXIMATE)			
LOCATION (APPROXIMATE)  SOUTHON SWPE, CAST SIDE  REMARKS NOWE			
SOUTHERN SWIFE, EAST SIDE			
SOUTHAND SWAFE, EAST SIDR			
SOUTHON SWOPE, EAST SIDE.  REMARKS NOWE.  SF INSTALLED TODAY = 8550 SF	NOV 1 19		

JEOSYNTHETIC DRAINAGE LINER

FORM A-9
SHEET / OF /
INSPECTION DATE //-92

ACCEPT REJECT N/A

1. MATERIAL

	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 HANUFACTURER'S AND SPECIFICATION REQUIREMENTS.		-	
- ADJACENT ROLLS ARE JOINED BY PLASTIC TIES SUPPLIED WITH THE LINER.			
- MINIMUM OVERLAP IS 6 INCHES.			
. DUST CONTROL			
ACTION TAKEN None Zesuneo			
	!!	iV to 9 <b>92</b>	
LOCATION (APPROXIMATE)		DEEDENWE	
BETWEEN TELEPHONE POLE & FIRST	- AEHK		
RETNEEN TELEPHONE POLE & FIRST	PETR		
<b>,</b>		ns affroise	NOPE
REMARKS	- JFOY M		WOPE
CONTINUED DEDCOYMENT LONDOWNOS	- JFOY M		VLSCE
CONTINUED DEPLOYMENT LONDOWANDS -	- JFOY M		. VLSEE
REMARKS  CONTRACT DEPLOYMENT JOHNWANDS  LINEA OF TO THE ZND POOK FOR CECCOM  SF INSTALLED TODAY = 22,800 SF  SF INSTALLED TO DATE = 90,060 SF	- JFOY M		VLSE E
REMARKS  CONTRACT DEPLOYMENT JOHNWANDS  LINEA OF TO THE ZND POOK FOR CECCOM  SF INSTALLED TODAY = 22,800 SF  SF INSTALLED TO DATE = 90,060 SF	- JFOY M		KSCE
REMARKS  CONTRACT DEPLOYMENT JOHNWANDS  LINEA OF TO THE ZND POOK FOR CECCOM  SF INSTALLED TODAY = 22,800 SF  SF INSTALLED TO DATE = 90,060 SF	- JFOY M		WACE
REMARKS  CONTRIVED DEPLOYMENT LONDWANDS  LINES OF TO THE ZND PORK FOR CEOCOL  SF INSTALLED TODAY = 22,800 SF	- JFOY M		WACE

FORM A-9		
SHEET	OF.	
INSPECTION	DATE	11-15-92

JEOSYNTHETIC DRAINAGE LINER	INSPECTI	ON DATE ZZ	-/5 -7
. MATERIAL	ACCEPT	REJECT	N/A
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.			
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.			<del></del>
- MINIMUM OVERLAP IS 6 INCHES.			
DUST CONTROL			
ACTION TAKEN None REQUIRED			
REMARKS DEPLOYED 2 ROWS BEFORE AS SET HEAVY			
SF INSTALLED TODAY = 1140 SF			
SF INSTALLED TO DATE = 91, 200			
	-40V PEICESWIE L. 7. 1992	1	
	-		1
INSPECTOR	)	DATE <u>//-</u>	

FORM A-9 SHEET / OF / INSPECTION DATE //-/6-92 GEOSYNTHETIC DRAINAGE LINER REJECT ACCEPT H/A MATERIAL - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. VERIFICATION INSPECTION - TOP SURFACE OF THE VLDPE LINER IS FREE OF DEBRIS BEFORE THE DRAINAGE LINER INSTALLATION. - prainage layer is installed in ACCORDANCE WITH HANUFACTURER'S AND SPECIFICATION REQUIREMENTS. \* ADJACENT ROLLS ARE JOINED BY PLASTIC TIES SUPPLIED WITH THE LINER. - MINIMUM OVERLAP IS 6 INCHES. DUST CONTROL ACTION TAKEN LOCATION (APPROXIMATE) REMARKS GEOCOMPOSITE SP INSTALLED TODAY = 22,800 SF 114,000 SF SF INSTALLED TO DATE = NOV 1 7 1992 **INSPECTOR** DATE 11-16-92 DATE //-/7-92

\_\_\_\_ OF \_\_\_ INSPECTION DATE 1/-17-92 GEOSYNTHETIC DRAINAGE LINER ACCEPT REJECT II/A MATERIAL - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. VERIFICATION INSPECTION - TOP SURPACE 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. **DUST CONTROL** Nove Zazineo ACTION TAKEN LOCATION (APPROXIMATE) Clay cover - North of PEAR 1 REMARKS (ECCOMPOS ITE

FORM A-9

SHEET \_

NOV 1 8 1992

•	INSPECTOR _	Mos	Baily	DATE	11-17-92
	REVIEWED BY	loh	124	DATE	11-18-42
	•	<i>a</i>	(		

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SP INSTALLED TODAY = 29.640 SF

SF INSTALLED TO DATE = 143,640 SF

FORM A-9 SHEET / OF / INSPECTION DATE /1-18-92 GEOSYNTHETIC DRAINAGE LINER ACCEPT REJECT H/A MATERIAL - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. VERIFICATION INSPECTION - TOP SURPACE OF THE VLDPE LINER IS FREE OF DEBRIS BEFORE THE DRAINAGE LINER INSTALLATION. - prainage layer is installed in ACCORDANCE WITH HANUFACTURER'S AND SPECIFICATION REQUIREMENTS. " ADJACENT ROLLS ARE JOINED BY PLASTIC TIES SUPPLIED WITH THE LINER. - HINIMUM OVERLAP IS 6 INCHES. DUST CONTROL 3. None REQUIRED ACTION TAKEN LOCATION (APPROXIMATE) ON CELA - BETWEEN VALLEY No. 1 & PEAK No. 2 REMARKS rolls of GEOCOMPOSITE 19830 SF SF INSTALLED TODAY =

REVIEWED BY

DATE 11-18-92

DATE 11-19-92

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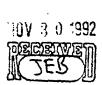


FORM A-9		
SHEET _/_	OF _	
INSPECTION	DATE	11-22-92

GEOSYNTHETIC DRAINAGE LINER	INSPECT	ON DATE	11-22-92
. Material	ACCEPT	REJECT	И/А
- HANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.	_		
VERIFICATION INSPECTION			
TOP SURPACE OF THE VLDPE LINER IS FREE OF DEBRIS BEFORE THE DRAINAGE LINER INSTALLATION.		e e e e e e e e e e e e e e e e e e e	
- DRAINAGE LAYER IS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S AND SPECIFICATION REQUIREMENTS.			
TIES SUPPLIED WITH THE LINER.			
- HINIMUM OVERLAP IS 6 INCHES.		To a Manual	e senso anciento
LOCATION (APPROXIMATE)  WEST SIDE WOCKING	Sover		-
REMARKS None			
SP INSTALLED TODAY = 16,530 SF			
SP INSTALLED TO DATE = /71,000 SF			
INSPECTOR And But		DATE //-	12-92
REVIEWED BY furtham brances		DATE 1/2	4/90

GEOSYNTHETIC DRAINAGE LINER	अगुप २ ४ १९९२ विद्यासम्बद्धाः	FORM A-S SHEET INSPECTI	/ OF / ON DATE Z	1133/92
GDGM \$1111 4 to be	A ZER	ACCEP'I'		
1. Material				
- MANUFACTURER'S MILL CERTI AFFIDAVIT HAS BEEN PROVID	FICATE OR DED.			
, VERIFICATION INSPECTION				
TOP SURPACE OF THE VLDPE FREE OF DEBRIS BEFORE THE LINER INSTALLATION.	LINER IS DRAINAGE			
- PRAINAGE LAYER IS INSTALLING ACCORDANCE WITH MANUFACTURES AND SPECIFICATION REQUIRES	Reris		to the second	
" ADJACENT ROLLS ARE JOINED TIES SUPPLIED WITH THE LIN	BY PLASTIC ER.			
T MINIMUM OVERLAP IS 6 INCH	ES.		to a construction	
ACTION TAKEN None Rea	INED			
LOCATION (APPROXIMATE) Source WORK	ENG D	ne <del>rth</del>		
REMARKS			n - 1944 n Imalian A	
75 R	occs.			
SF INSTALLED TODAY =	F 42,750	5F		
SF INSTALLED TO DATE = 213,757	D SF			
	•	-		
INSPECTOR Amy Balls	>		DATE //-2	

	407 3 2 1392	FORM A-9	/ OF	/
GEOSYNTHETIC DRAINAGE LINER	DECENTAL DE	INSPECTI	ON DATE Z	-24-92
1. MATERIAL	200	ACCEPT	REJECT	H/A
- MANUFACTURER'S MILL CERT AFFIDAVIT HAS BEEN PROVI	TIFICATE OR IDED.			~* · · · · · · · · · · · · · · · · · · ·
2. VERIFICATION INSPECTION		,		
- Top Surface of the Vldpe Free of Debris Before th Liner Installation.	LINER IS E DRAINAGE			
- DRAINAGE LAYER IS INSTAL ACCORDANCE WITH HANUFACT AND SPECIFICATION REQUIRE	urer's		J. 14 12 12 12 12 12 12 12 12 12 12 12 12 12	
- ADJACENT ROLLS ARE JOINED TIES SUPPLIED WITH THE LI	D BY PLASTIC INER.			
- HINIMIN OVERLAP IS 6 INC	CHES.			
3, pust control			•	
action taken	Zerines			
. REMARKS JONE	WorkING	6 Noces	- U	
SP INSTALLED TODAY = 29,6	40			
SF INSTALLED TO DATE = 243,3	90			
		· <del>-</del>		
INSPECTOR	4		DATE //-2	1-72
REVIEWED BY	Les		DATE 1/25	192



FORM A-9		
SHEET	OF	
SHEET /	DATE	11/25/12

GEOSYNTHETIC DRAINAGE LINER	INSPECT	TOU DELL M	125/2
1, MATERIAL	ACCEPT	REJECT	H/A
" HANUFACTURER'S HILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.		v <b>v v v</b>	water-made as
VERIFICATION INSPECTION			
TOP SURPACE OF THE VLDPE LINER IS PREE OF DEBRIS BEFORE THE DRAINAGE LINER INSTALLATION.	_		
- DRAINAGE LAYER IS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S AND SPECIFICATION REQUIREMENTS.		no no vivi e dendra	J
TIES SUPPLIED WITH THE LINER.			<del></del>
- HINTHUM OVERLAP IS 6 INCHES.			
ACTION TAKEN NONE REDUING	^		
LOCATION (APPROXIMATE)  3 <sup>20</sup> PEWR - 3 PANELS PAS	7 ,7	, may produce and the same	
REMARKS Ware			
		t a se a se se se con	
SP INSTALLED TODAY = 19,380 SF			
SF INSTALLED TO DATE = 262, 770 SF			
	· <del>-</del>		į
•			
INSPECTOR Charles		DATE 11/25	-/22
REVIEWED BY Anathum Brances		DATE 11/8	2/0-

950 0	1 1992	
DECE	MEM	
1 2F	B	_

FORM A-9
SHEET / OF /
INSPECTION DATE //-30-72

W TER III			
. MATERIAL	ACCEPT	REJECT	N/A
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.	/		
Affidavil has been frovided.			
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.			
DUST CONTROL			
/ ¬			
ACTION TAKEN Nove Results			
REMARKS Nowa	NORTA		
SF INSTALLED TODAY = 17, 100 5F			
SF INSTALLED TO DATE = 279,870 SF		<del></del>	
	<del>-</del> .		
•			
11-8-7	_		
INSPECTOR	·	_ DATE <u>//</u>	30-12
DEVITENDED BY brighters Kon Con	•	DATE 17	192



FORM A-9
SHEET OF 12/1/92
INSPECTION DATE 12/1/92

1.	MATERIAL	ACCEPT	REJECT	N/A
-	- 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.			
	- DPAINAGE LAYER IS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S AND SPECIFICATION REQUIREMENTS.	1		
	- ADJACENT ROLLS ARE JOINED BY PLASTIC TIES SUPPLIED WITH THE LINER.			
	- MINIMUM OVERLAP IS 6 INCHES.			
3.	DUST CONTROL			
	ACTION TAKEN YONE RESULTED			
	LOCATION (APPROXIMATE)  Society (12000000000000000000000000000000000000	,		
) <b>.</b>	JAMEY No. 3 W ANEAS APPRINTED/A			
	1 Branes	CCROTET) BY	CORSYNTEE	
?C.	SF INSTALLED TODAY = 30 780 SF			
,·	SF INSTALLED TO DATE = 310,650 57			
	·	<del>-</del> ·		
	•			
	11.4.1			
1	INSPECTOR Comb Cart		_ DATE <u>//</u>	
_	MATTERIAL DE LA COMPANIA DEL COMPANIA DEL COMPANIA DE LA COMPANIA		DATE /7/	12/02

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  **NORTH** STARE OF PEAK  **INSTALLED TODAY = 36,480 55	V V	REJECT	N/A
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.  DUST CONTROL  ACTION TAKEN  **NORTH SERVICE  **DEFARMANCE OF PEAK  **REMARKS  **NORTH SERVICE  **OFF PEAK  **REMARKS  **NORTH SERVICE  **NORTH SERVICE  **OFF PEAK  **REMARKS  **NORTH SERVICE  **NORTH SERVICE  **NORTH SERVICE  **OFF PEAK  **NORTH SERVICE  **NORTH SERVICE  **OFF PEAK  **NORTH SERVICE  **NORTH SERVICE  **OFF PEAK  **NORTH SERVICE  **NORTH S			
- 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.  DUST CONTROL  ACTION TAKEN  NONE REQUIRED  LOCATION (APPROXIMATE)  NORTH SIDE OF PEAK REMARKS  NONE  REMARKS			
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.  DUST CONTROL  ACTION TAKEN  **LONE REQUIRED**  **LOCATION (APPROXIMATE)** **LOCATION (APPROXIMATE)** **LOCATION (APPROXIMATE)** **REMARKS** **LONE** **RE			
ACCORDANCE WITH MANUFACTURER'S AND SPECIFICATION REQUIREMENTS.  - ADJACENT ROLLS ARE JOINED BY PLASTIC TIES SUPPLIED WITH THE LINER.  - MINIMUM OVERLAP IS 6 INCHES.  DUST CONTROL  ACTION TAKEN  NONE REQUIRED  LOCATION (APPROXIMATE)  NOTTH SIDE OF PEAK  REMARKS  NONE  REMARKS	<u>/</u> / <u>/</u> /		
TIES SUPPLIED WITH THE LINER.  - MINIMUM OVERLAP IS 6 INCHES.  DUST CONTROL  ACTION TAKEN  NONE ZOUINGE  LOCATION (APPROXIMATE)  NOZTH SIDE OF PEAK  REMARKS  NONE  NOZTH SIDE OF PEAK	<u>V</u>		
- MINIMUM OVERLAP IS 6 INCHES.  DUST CONTROL  ACTION TAKEN None Requires  LOCATION (APPROXIMATE)  NORTH SIDE OF PEAK  REMARKS None	<u>/_</u>		
ACTION TAKEN NONE ZQUINGS  LOCATION (APPROXIMATE)  NORTH SIDE OF PEAK  REMARKS NONE			<del></del>
LOCATION (APPROXIMATE)  NORTH SINE OF PEAK  REMARKS NONE			<del></del>
REMARKS None	#4		
1 SE MICHALLED MARKET 36 480 SE			
SF INSTALLED TODAY = 30 100 3.			
SF INSTALLED TO DATE = 347, /30 SF			
INSPECTOR Among A Back			ŀ

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SECSEVAIS U	SHEET	OF OF _	10/8/h	2
7-2	ACCEPT	REJECT	N/A	

EOSTITUELLA DRAINAGE LINER DURIGIEN	*** INDIEGO	TON DATE	701
W. Je	ACCEPT	REJECT	N/A
. MATERIAL			
<ul> <li>MANUFACTURER'S MILL CERTIFICATE OF AFFIDAVIT HAS BEEN PROVIDED.</li> </ul>	OR /	•	
VERIFICATION INSPECTION			
- TOP SURFACE OF THE VLDPE LINER IS			
FREE OF DEBRIS BEFORE THE DRAINAG LINER INSTALLATION.		<del></del>	
- DRAINAGE LAYER IS INSTALLED IN			
ACCORDANCE WITH MANUFACTURER'S AND SPECIFICATION REQUIREMENTS.			<del></del>
- ADJACENT ROLLS ARE JOINED BY PLAS	TIC /		
TIES SUPPLIED WITH THE LINER.			
- MINIMUM OVERLAP IS 6 INCHES.		<del></del>	
DUST CONTROL			
ACTION TAKEN NONE REQUIRED	>		
LOCATION (APPROXIMATE)  NORTH END			
REMARKS Nowe			
SF INSTALLED TODAY = 14, 820 SF			
SF INSTALLED TO DATE = 361, 950 SF			
	<del>-</del> -		
·			
THE PROPERTY OF THE PARTY OF TH		Dame /2	-2 47
INSPECTOR		DATE <u>/2</u>	1.6
REVIEWED BY MAKEN Drands	·	_ DATE <b>學</b>	<i>4HS</i>

FORM A-9
SHEET OF JUSTICION DATE 12/4/82

INSPECTI	ON DATE A	2/7/2
ACCEPT	REJECT	N/A
$\sqrt{}$		-
	-	
e None		
=		
<del>-</del> .		
		. 4
	_ DATE <u>[Z-</u>	1-92
	ACCEPT	Lone_

<u>ेहिंद्र १) १ १९९२</u> जिल्लाकारमञ्जू	FORM A-9 SHEET/	_ OF	/
DECEMENT	INSPECTION	DATE	12-8-92
706			

	W ZEB W			
1.	MATERIAL	ACCEPT	REJECT	N/A
	- 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.	<u> </u>		
	- ADJACENT ROLLS ARE JOINED BY PLASTIC TIES SUPPLIED WITH THE LINER.			
	- MINIMUM OVERLAP IS 6 INCHES.			
3.	DUST CONTROL			
	ACTION TAKEN NONE ZERNED		<del></del>	
4.	LOCATION (APPROXIMATE)			
	NORTH SLOPE			
5.	REMARKS Nove			
	SF INSTALLED TODAY = 85362 (15 ROLLS)			
	SF INSTALLED TO DATE = \$80,760 SF	<del> </del>		
	•			
. 1	INSPECTOR _ Change Conte		DATE /2	8-92
F	REVIEWED BY Anthon Brando		DATE 2	0/92

- 50	^	• }	1992	
1000	35	M	En	
	25	B		
- 444	_			٠

FORM A-9
SHEET | OF | |
INSPECTION DATE | 12-7-12

_				
, 1.	MATERIAL	ACCEPT	REJECT	N/A
	- 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.		<del></del>	
	- MINIMUM OVERLAP IS 6 INCHES.			
з.	DUST CONTROL			
	ACTION TAKEN NONE RESULTES			
4.	LOCATION (APPROXIMATE)			
5.	REMARKS			
	SF INSTALLED TODAY = 30, 210 (53 2011)  SF INSTALLED TO DATE = 410,970 SF			
	· · · · · · · · · · · · · · · · · · ·		/3	<b>0.0</b> 3
	INSPECTOR Charles Control		_ DATE <u>/2</u>	_
F	EVIEWED BY frathan Drandes	· · · · · · · · · · · · · · · · · · ·	_ DATE 13/1	0/92

DEC 1 1 1992

### GEOSYNTHETIC DRAINAGE LINER

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一川 イトロ	VIII
M 2-3	AUL

FORM A-9
SHEET OF 10/0/92
INSPECTION DATE 10/10/92

1.	MATERIAL	ACCEPT	REJECT	N/A
	- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.	$\sqrt{}$		
	VERIFICATION INSPECTION			
	- TOP SURFACE OF THE VLDPE LINER IS FREE OF DEBRIS BEFORE THE DRAINAGE LINER INSTALLATION.	$\sqrt{}$		~~~
	- DRAINAGE LAYER IS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S AND SPECIFICATION REQUIREMENTS.			
	- ADJACENT ROLLS ARE JOINED BY PLASTIC TIES SUPPLIED WITH THE LINER.	$\int$		
	- MINIMUM OVERLAP IS 6 INCHES.			
	DUST CONTROL			
	/ _			
	ACTION TAKEN NONE REQUIRED			
	LOCATION (APPROXIMATE)  LOCATION (APPROXIMATE)			
	LOCATION (APPROXIMATE)	si vispe j	genoveo of	
	LOCATION (APPROXIMATE)  UEST SEDE	si vispe	9PMOVEO \$	
	LOCATION (APPROXIMATE)  LEST SIDE  REMARKS	si vive	gemove0 sf	
	LOCATION (APPROXIMATE)  LEST SINE  REMARKS CEOCOMOSITE INSTALLED OUT  ACCEPTED BY GEOGYNTEC	si ville	90000 \$	
	LOCATION (APPROXIMATE)  LEST SERVE  REMARKS CEOCOMOSITE INSTALLED OUT  ACCEPTED BY CEOSYNTEC  SF INSTALLED TODAY = 7,980 SF	si vide	semoveo of	
	LOCATION (APPROXIMATE)  LEST SERVE  REMARKS CEOCOMOSITE INSTALLED OUT  ACCEPTED BY CEOSYNTEC  SF INSTALLED TODAY = 7,980 SF	si vide	apmove0 sf	
	LOCATION (APPROXIMATE)  LEST SERVE  REMARKS CEOCOMOSITE INSTALLED OUT  ACCEPTED BY CEOSYNTEC  SF INSTALLED TODAY = 7,980 SF	se vide	annov50 \$	
	LOCATION (APPROXIMATE)  LEST SINE  REMARKS CERCONDOS. TE NISTALLED OUT  SE INSTALLED TODAY = 7980 SF  SE INSTALLED TO DATE = 418,950 SF	si vide	annoveo of	
I	LOCATION (APPROXIMATE)  LEST SERVE  REMARKS CEOCOMOSITE INSTALLED OUT  ACCEPTED BY CEOSYNTEC  SF INSTALLED TODAY = 7,980 SF	se vere	DATE /2/	

FORM A-9		
SHEET _/	_ OF _	1
INSPECTION	DATE	12-14-92

1. MATERIAL	ACCEPT	REJECT	N/A
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.	_		<del></del>
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.	<u> </u>		
- MINIMUM OVERLAP IS 6 INCHES.			
3. DUST CONTROL			
ACTION TAKEN NONE ZEOVINED		<del></del>	
4. LOCATION (APPROXIMATE)  FANTHET VALLEY NOW AF LINEA.  5. REMARKS SHOVELED SHOW OF LINEA.		0 12 mus	
OF CEDCOMPOSITE ON LINEA ACC	CEPTED BY	GEOSYNTEC.	
SF INSTALLED TODAY = 6840 SF  SF INSTALLED TO DATE = 425, 790 SF			
The state of the s	JEC	1 5 19 <b>92</b>	
INSPECTOR CAS BOT		DATE <u>/2</u>	-14-72
REVIEWED BY		DATE	

\_/\_ OF SHEET INSPECTION DATE /2-15-12 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 REQUIRES 4. LOCATION (APPROXIMATE) WEST SIDE OF SITE, NOTH OF 3 NO VALLEY 5. REMARKS /NSTAUES CEDCOMPOSITE ON VLOPE ACTEN SHOVELING SNOW & RECEDING APPRIANT FROM CEDSYNTER SF INSTALLED TODAY = 14820 SF SF INSTALLED TO DATE = 440.610 SF DATE /2-/5-92 INSPECTOR

REVIEWED BY

FORM A-9

DATE 12-16-93

FORM A-9
SHEET / OF /
INSPECTION DATE /2-/6-91

_				
		ACCEPT	REJECT	N/A
•	MATERIAL			
	- MANUFACTURER'S MILL CERTIFICATE OR			
	AFFIDAVIT HAS BEEN PROVIDED.			
	VERIFICATION INSPECTION		. ———	
•	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.		<del></del>	
	- ADJACENT ROLLS ARE JOINED BY PLASTIC			
	TIES SUPPLIED WITH THE LINER.		<del></del>	
	- MINIMUM OVERLAP IS 6 INCHES.			
	DUST CONTROL			
•	ACTION TAKEN NONE PERMANEN			
	LOCATION (APPROXIMATE)			
	WEST SIDE OF SITE, 13 PANET WISTHE	BEVOND PEA	K No. 4.	
	REMARKS /NSTALLED (EDCOMPOSITE ON VI			
	PEMOVED of APPROVAL PECELLA	ED From Co	FOXYNTEC.	
	SF INSTALLED TODAY = 24, 510 SE			<del></del>
	SF INSTALLED TO DATE = 465, 120 SF			
		DEC 1	7 1992	
		DECEN	2870	
		1.7.		
1	INSPECTOR MALEN		DATE 12	-16-92
r	REVIEWED BY John M. Fox		DATE 12	-17-92
	EVIEWED DI WINC /V. POP		TOUTE THE	

GEOSYNTHETIC DRAINAGE LINER	FORM A-S SHEET INSPECTI	4	2/17/9
1. MATERIAL	ACCEPT	REJECT	N/A
- 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.	$ \angle  $		
- MINIMUM OVERLAP IS 6 INCHES.			<del></del>
3. DUST CONTROL			
4. LOCATION (APPROXIMATE)			
NW CORNER		<del></del>	
5. REMARKS SOW ZEMOUED J	+ PCCEP	TED PK	EA.
By GEO SynTEC.			
SC SF INSTALLED TODAY = 23,370 SF			
SF INSTALLED TO DATE = 488,490 SF			
TEC 1 > 1992			
INSPECTOR Cha Ball		DATE /2-/	12-92

REVIEWED BY

1 LER DECISIONEL

# GEOSYNTHETIC DRAINAGE LINER

FORM A-9		
SHEET/_	OF	/
INSPECTION	DATE	12-18-82

1.	MATERIAL	ACCEPT	REJECT	N/A
	- 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 Node REQUIRED			<del></del>
4.	LOCATION (APPROXIMATE)			
5.	REMARKS COMPLETED SNOW REMOVAL	AND ALSO		
	COMPLETED DEPLOYMENT of CEDA	COMPOSITE W	THA THE	
,	BUNDANIES OF THE CHANNEL - VLAI	E ALLEMEN	34 GEOS	YNTEK
	SF INSTALLED TODAY = 26,790 SF			
-	SF INSTALLED TO DATE = 575, 280 SF			
	•			
I	NSPECTOR Many Both		DATE /2-	10-12-
R	EVIEWED BY Somether Brandes		DATE 12/1	9/92

JEC 11 4392

### GEOSYNTHETIC DRAINAGE LINER

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FORM A-9
SHEET / OF /
INSPECTION DATE /2-11-12

1		ACCEPT	REJEC1'	II/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 NA			
	<u> </u>			<del></del>
4.	LOCATION (APPROXIMATE)			
5.	REMARKS COMPLETED LAST OF STITEMUS	is stage	One . ==	
-	PLACED PREVIOUSLY - ALL GEOLO		ACC	<u>CT / GO</u>
-	BY CEOSYNTER			
~=	SF INSTALLED TODAY = 0			
_	SF INSTALLED TO DATE = 515,280 SF			

INSPECTOR Chris Bay los

DATE /2-/9-92

DATE 12-22-92

REVIEWED BY \_

- ند د د FORM A-9 SHEET OF INSPECTION DATE 12/2/192 GEOSYNTHETIC DRAINAGE LINER ACCEPT REJECT 11/7 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. DUST CONTROL 3. ACTION TAKEN NONE ZEQUILED 4. LOCATION (APPROXIMATE) NORTH END - NONTHEAST CONNER PLACES GEOCOMPASSIFE OVER VIDE REMARKS ACCEPTED BY GENSYNTER SF INSTALLED TODAY = 2 850 SF SF INSTALLED TO DATE = 518,130 SF

INSPECTOR \_\_\_\_\_

REVIEWED BY

prittion Bours

DATE 2-11-92

DATE 12-22-92

GEOSYNTHETIC	DRATHAGE	LINER



FORM A-9 OF SHEET OF INSPECTION DATE 5-21-93

	ACCEPT	REJECT	II/A
I. MATERIAL			
- HANUFACTURER'S MILL CERTIFICATE OR AFFIDATIT HAS BEEN PROVIDED.			
ACTION I THIS BELLVINGVIBED.			
2. VERIFICATION INSPECTION			
TOP SURFACE OF THE VLDPE LINER IS FREE OF DEBRIS BEFORE THE DRAINAGE LINER INSTALLATION.			
DRAIDAGE LAYER IS INSTALLED IN ACCOUDANCE WITH MANUFACTURER'S AND SPECIFICATION REQUIREMENTS.			
- ADJACENT ROLLS ARE JOINED BY PLASTIC TIES SUPPLIED WITH THE LINER.			
- HTHITHUM OVERLAP IS 6 INCHES.			
ामहरू ट्रांगाम्बर्गः			
ACTION TAFFU			
W. Channel			
REMARKS			
SF INSTALLED TODAY = 6,6002			
SF HISTALLED TO DATE = 525, 336			
	<b>↔</b> .		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		. <del></del> .	
INSPECTOR Jume & Mastes		DATE 5-2	7-1
REVIEWED BY Amuttu Brandos	•	DATE STS	1921

JUN 0 2 1993

FORM A-9

SHEET		OF	
INSPEC	TION	DATE	5-27-

GEOSYNTHETIC DRAINAGE LINER +3 ACCEPT REJECT H/A I. HATERTAL - 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. DUST CONTROL 3. ACTION TAKEN 4. LOCATION (APPROXIMATE) 5. REMARKS SF (HSTALLED TODAY = 10,000 -SF HISTALLED TO DATE = 526.7302 LUSPECTOR

PI	ACEMENT OF COMMON FILL	FORM A-10 SHEET / CE INSPECTION DAT	E 7-20-92
	88	ACCEPT REJE	
1.	MATERIAL	- ACCEPT REGI	N/A
	- COMMON FILL SOIL OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.	~	
	- FREE FROM SOD, ERUSH, ROOTS OR OTHER PERISHABLE MATERIALS, ROCKS LARGER THAN 3 INCHES.	/ (Piches)	> 3" ) our )
	- 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	<u> </u>	·
	- INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT (± 3% OF OPTIMUM)		
	- SURVEYOR VERIFY SLOPES, CONFIGURATION, THICKNESS AND ELEVATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.	<u> </u>	
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 (± 3% OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS.		<u>~</u>
4.	DUST CONTROL		
	ACTION TAKEN NONE REQUIRED		
5.	LOCATION (APPROXIMATE) PLACES TO BE	INA UP TRAFIC CAP	<del></del>
	SUBGRADE IN DIEA & STA 7+00 - 12:	roo	
6.	REMARKS		
	INSPECTOR This Both Hilling Services	Marile DA	TE <i>8-14-92</i> TE <i>8-15-92</i>

AUS 1 2992 PECEVER

PI	ACEMENT OF COMMON FILL	FORM A-10 SHEET INSPECTION		7-22-92
,	MATERIAL	ACCEPT	REJECT	N/A
1.	MATERIAL  - COMMON FILL SOIL OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.		<del></del>	
	- FREE FROM SOD, BRUSH, ROOTS OR OTHER PERISHABLE MATERIALS, ROCKS LARGER THAN 3 INCHES.	V	IAT'L > 3	")
	- CLAYMAX, VLDPE LINER, GAS VENTING LAYER AND PIPES AND GEOSYNTHETIC DRAINAGE LINER IS ACCEPTED BY THE CONSTRUCTION MGR.			<u>/</u>
2.	PLACEMENT			
	- MAXIMUM LOOSE LIFT OF 12 INCHES			
	- INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT (± 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 (± 3% OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS.			~
4.	DUST CONTROL			
	ACTION TAKEN Nowe REGULAR	<del></del>		
5.	LOCATION (APPROXIMATE) PLACES TO BRING	G UP TRAFF.	<u> </u>	
	CAP SUCCEANDE IN MEA OF 7+00 -	12+00.		<del></del>
6.	REMARKS	<del></del>	···	<del></del>
	INSPECTOR And Bake Freduit Serviewed By	mult		8-14-92 8-15-92

	1EP ) 1992	FORM A-1 SHEET	0 2 OF 2	
PL	ACEMENT OF COMMON FILL DECEMBED	INSPECTI	ON DATE Z	-20-92
<b>]</b>	MATERIAL MATERIAL	ACCEPT	REJECT	N/A
	- COMMON FILL SOIL OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.			
	<ul> <li>FREE FROM SOD, BRUSH, ROOTS OR OTHER PERISHABLE MATERIALS, ROCKS LARGER THAN 3 INCHES.</li> </ul>			
	- 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 (± 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 (± 3% OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS.			
4.	DUST CONTROL			
	ACTION TAKEN Nowe REDUITED			
5.	LOCATION (APPROXIMATE) 579. 7+00: P	= 129.1 PCF	= 95.7%	
	STA. 9+00: P			
6.	REMARKS TESTING DEPTH = 8" PROCT			
	INSPECTOR Cha Ball		DATE 9	-3-92
	REVIEWED BY Jonathan & Brandos		DATE 2	1/92

	.Ei	) †9 <u>9</u> 2	FORM A-10 SHEET 2	or <u>2</u>	•
F		REWISSE.		DATE 7-2	
		JEP 1	ACCEPT	REJECT	N/A
	. MATERIAL				
	- COMMON FILL SOIL OBTAINE BORROW AREA ACCEPTED BY CONSTRUCTION MANAGER.				
	- FREE FROM SOD, BRUSH, ROO OTHER PERISHABLE MATERIA! LARGER THAN 3 INCHES.				
	- CLAYMAX, VLDPE LINER, GAS LAYER AND PIPES AND GEOSY DRAINAGE LINER IS ACCEPTI THE CONSTRUCTION MGR.	INTHETIC			
2.	PLACEMENT				
_	- MAXIMUM LOOSE LIFT OF 12	INCHES			<u> </u>
9	- INSPECT LAYER OF FILL FOR MOISTURE CONTENT (± 3% OF				
	- SURVEYOR VERIFY SLOPES, CONFIGURATION, THICKNESS ELEVATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMEN			<del></del>	
<b>[</b> ] 3.	VERIFICATION TESTING				
A	- 1 DENSITY TEST FOR EACH 7 YARDS OR EACH AREA COMPLE DAY WHICHEVER IS LESS (AT 90% OF MAXIMUM DRY DENSIT	TED IN ONE LEAST			
	- 1 MOISTURE CONTENT TEST ( OPTIMUM) FOR EACH 750 CUB OR EACH AREA COMPLETED IN WHICHEVER IS LESS.	IC YARDS			
4.	DUST CONTROL		•		
_	ACTION TAKEN NONE REC	Quines			
5.	LOCATION (APPROXIMATE)	74. 11 too: P=	131.0PCF	= 97.2 -/.	
		· 12+50: p=	129.2 pcf =	95.8%	}
6.	REMARKS TESTING DEFTH	= 8", /1000	- = 1349 A	<u>e</u>	
	INSPECTOR Chris Back	3		DATE 9	3-92
	REVIEWED BY freshan & fra	des		DATE	// TA

	DEP ₹ 8 13 <b>92</b>	FORM A-1		,
PLACEMENT OF COMMON FILL	DEEDEW SI	SHEET		
	75.20	ACCEPT	REJECT	N/
1. MATERIAL				
<ul> <li>COMMON FILL SOIL OBTA BORROW AREA ACCEPTED CONSTRUCTION MANAGER.</li> </ul>	BY THE			
- FREE FROM SOD, BRUSH, OTHER PERISHABLE MATE LARGER THAN 3 INCHES.	RIALS, ROCKS			
- CLAYMAX, VLDPE LINER, LAYER AND PIPES AND G DRAINAGE LINER IS ACC THE CONSTRUCTION MGR.	EOSYNTHETIC EPTED BY			
2. PLACEMENT				
- MAXIMUM LOOSE LIFT OF	12 INCHES			
- INSPECT LAYER OF FILL MOISTURE CONTENT (± 3				
- SURVEYOR VERIFY SLOPES CONFIGURATION, THICKNI ELEVATIONS IN ACCORDAN WITH THE CONTRACT DOCK	ESS AND NCE			
VERIFICATION TESTING				
- 1 DENSITY TEST FOR EAC YARDS OR EACH AREA COM DAY WHICHEVER IS LESS 90% OF MAXIMUM DRY DEN	MPLETED IN ONE (AT LEAST	WILL CHECK	- <u>२६५</u> ५ म	9/8
- 1 MOISTURE CONTENT TES OPTIMUM) FOR EACH 750 OR EACH AREA COMPLETED WHICHEVER IS LESS.	CUBIC YARDS		<del></del>	
4. DUST CONTROL				
ACTION TAKEN NONE	REQUILED			
5. LOCATION (APPROXIMATE) _	CHANNA SUBCA	40E IN 50UTH	WEST CON	WER
AAMOXIMATELA	574. 20100-18+52	<b>.</b>		
6. REMARKS				
INSPECTOR			_ DATE .	9-4-90
REVIEWED BY Another	Bunds		DATE	9/8/92

		<b>SEP</b> 1 0 1992	FORM A-1 SHEET	/_ OF /	
	PLACEMENT OF COMMON FILL		INSPECTI	ON DATE _5	-8-9Z
* 20 S	1. MATERIAL	LEB OFFICE (ME)	ACCEPT	REJECT	N/A
	- COMMON FILL SOIL OBTAIN BORROW AREA ACCEPTED BORD CONSTRUCTION MANAGER.				
	- FREE FROM SOD, BRUSH, I OTHER PERISHABLE MATER: LARGER THAN 3 INCHES.				
	- CLAYMAX, VLDPE LINER, C LAYER AND PIPES AND GEO DRAINAGE LINER IS ACCES THE CONSTRUCTION MGR.	DSYNTHETIC			
	2. PLACEMENT				
	- MAXIMUM LOOSE LIFT OF 1	2 INCHES			·
	<ul> <li>INSPECT LAYER OF FILL F MOISTURE CONTENT (± 3%</li> </ul>				
	- SURVEYOR VERIFY SLOPES, CONFIGURATION, THICKNES ELEVATIONS IN ACCORDANC WITH THE CONTRACT DOCUM	S AND E	_		
	VERIFICATION TESTING				
	- 1 DENSITY TEST FOR EACH YARDS OR EACH AREA COMP DAY WHICHEVER IS LESS ( 90% OF MAXIMUM DRY DENS	LETED IN ONE AT LEAST			
	- 1 MOISTURE CONTENT TEST OPTIMUM) FOR EACH 750 CO OR EACH AREA COMPLETED T WHICHEVER IS LESS.	UBIC YARDS			
4	. DUST CONTROL		•		ĺ
	action taken <u>As Næo</u>	<i>to</i>		-··- <u>-</u>	
5	. LOCATION (APPROXIMATE)	CHANNET SUBLIN	E IN SOUTH	AT CAME	
	AP	hex. 570, 20 +00	- 18+50		}
6	. REMARKS PERSONED TEST I C	STA 19+00: D=	129.6 PCF = 96	17.	
	PENFOREN TEST 2 Q	STA. 18+40: D=	1210PCF = 90	·/	
•	INSPECTOR _ Chile Gal			_ DATE	-8-92
1	REVIEWED BY Jonathan	Panets		_ DATE <u>9</u>	10/92

P:	LACEMENT OF COMMON FILL	FORM SHEET INSPE	A-10 /_ OF _ CTION DATE	9-9-92
	. MATERIAL JES	<u> </u>	T REJECT	
	- COMMON FILL SOIL OBTAINED FROM T BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.	THE		
	- FREE FROM SOD, BRUSH, ROOTS OR OTHER PERISHABLE MATERIALS, ROCK LARGER THAN 3 INCHES.	is		
3	- CLAYMAX, VLDPE LINER, GAS VENTIN LAYER AND PIPES AND GEOSYNTHETIC DRAINAGE LINER IS ACCEPTED BY THE CONSTRUCTION MGR.			_
2.	FLACEMENT			
<u> </u>	- MAXIMUM LOOSE LIFT OF 12 INCHES			
	- INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT (± 3% OF OPTIMU			
	- 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 CO		TESTED 9-1	o or 9-11
	- 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			1
	ACTION TAKEN AS NEEDED		<u> </u>	
5.	LOCATION (APPROXIMATE)	SUBCUMBE IN	SOUTH & SOUTH	7-10-157
	constr of	SITE		}
6.	REMARKS			
	INSPECTOR Charles		DATE	
	REVIEWED BY Jonathan Frances		DATE	9/10/92

			ren to org	FORM A-1 SHEET	°l of 1		
	P!	LACEMENT OF COMMON FILL S	recentaries		ON DATE 9	-10-92	
	1.	. MATERIAL	JE8	ACCEPT	REJECT	N/A	
		- COMMON FILL SOIL OBTAINE BORROW AREA ACCEPTED BY CONSTRUCTION MANAGER.		<u>/</u>			
		- FREE FROM SOD, BRUSH, RO OTHER PERISHABLE MATERIA LARGER THAN 3 INCHES.		<u>/</u>			
		- CLAYMAX, VLDPE LINER, GA LAYER AND PIPES AND GEOS DRAINAGE LINER IS ACCEPT THE CONSTRUCTION MGR.	YNTHETIC		<del></del>		
	2.	PLACEMENT					
		- MAXIMUM LOOSE LIFT OF 12	INCHES				
		- INSPECT LAYER OF FILL FO MOISTURE CONTENT (± 3% O					
		- SURVEYOR VERIFY SLOPES, CONFIGURATION, THICKNESS ELEVATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMEN					
Ī		VERIFICATION TESTING					
		- 1 DENSITY TEST FOR EACH TYARDS OR EACH AREA COMPLEDAY WHICHEVER IS LESS (AT 90% OF MAXIMUM DRY DENSIT	ETED IN ONE LEAST				
		- 1 MOISTURE CONTENT TEST ( OPTIMUM) FOR EACH 750 CUE OR EACH AREA COMPLETED IN WHICHEVER IS LESS.	SIC YARDS				
1	4.	DUST CONTROL		•		1	
		ACTION TAKEN None	·				
	5.	LOCATION (APPROXIMATE) Fil	L PLACED (	DUTSIDE	OF SLURRY	WALL.	
		FOR DRAINAGE CHANNE	قدر				
	6.	REMARKS DENSITY TESTS TAI	KEN AT 45	TATIONS,	TESTS TAKE	N AT	
	De	PTH OF 6" - STA 18+00 96	990), 16+95	(983%) 15	t∞ (93.9°Z),	13+00 ( 94.	973)
		INSPECTOR Frederick	- Waslite		DATE <u>9</u> -	10-92	
		REVIEWED BY Jonathan Bran	udos	<u> </u>	DATE <u>9</u> /	11/92	

PLA	CEMENT OF COMMON FILL :ED	1 492	SHEETINSPECTIO		10-0
1.	MATERIAL	JEB J	ACCEPT		N,
	- COMMON FILL SOIL OBTAINED FRO BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.	OM THE	_		
	- FREE FROM SOD, BRUSH, ROOTS OF OTHER PERISHABLE MATERIALS, FALARGER THAN 3 INCHES.				_
	<ul> <li>CLAYMAX, VLDPE LINER, GAS VEN LAYER AND PIPES AND GEOSYNTHE DRAINAGE LINER IS ACCEPTED BY THE CONSTRUCTION MGR.</li> </ul>	TIC			<u></u>
2.	PLACEMENT				
	- MAXIMUM LOOSE LIFT OF 12 INCH	ES .			
	- INSPECT LAYER OF FILL FOR PRO MOISTURE CONTENT (± 3% OF OPT		<u>-</u> -		_:
	- SURVEYOR VERIFY SLOPES, CONFIGURATION, THICKNESS AND ELEVATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.	-			
	VERIFICATION TESTING				
	- 1 DENSITY TEST FOR EACH 750 CYARDS OR EACH AREA COMPLETED DAY WHICHEVER IS LESS (AT LEAS 90% OF MAXIMUM DRY DENSITY).	IN ONE			
	- 1 MOISTURE CONTENT TEST (± 3% OPTIMUM) FOR EACH 750 CUBIC Y/OR EACH AREA COMPLETED IN ONE WHICHEVER IS LESS.	ARDS			
١.	DUST CONTROL				
	ACTION TAKEN NONE REQUIRE	50			
	LOCATION (APPROXIMATE) WEST	510E ALD.	IL CHANNE	جـ	
. 1	REMARKS 6 LOANS OF FILL USES	7 ME	S UP WE	T ALEAS	
- 1	INSPECTOR Chip Balls			DATE <u>9-</u>	- <u>//-9</u>
F	REVIEWED BY fruits Bands	<del></del>			14/9

FORM A-10 / OF SHEET INSPECTION DATE 11-11-92-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 (± 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 (± 3% OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. DUST CONTROL ACTION TAKEN 5. LOCATION (APPROXIMATE) SOLUTION CONSET OF SITE REMARKS KECFIVED 17 LOADS OF COMMON FILL TO OUILD ROAD OVER CHAINER AND BEGN PLACING COMMON FILL IN CELA. J. BLANDES OF CEOSYNTEC REJECTED ALL LOADS OF COMMON FILL AFTER 9:00 A.M. AND DELIVERY OF COMMON FILL WAS STAPPED. DATE //-//-92 INSPECTOR DATE //-/2-92

ACCEPT REJECT A\N 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 (± 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). 70 BE 755750 70 - 1 MOISTURE CONTENT TEST (± 3% OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. 4. DUST CONTROL ACTION TAKEN NONE RESUMES 5. LOCATION (APPROXIMATE) SOUTH SLOPE, SOUTH OF 20' NONTH OF THE "I" GRID. \_\_\_ REMARKS (MOONTIM BAKEL & WAVNE COMMEN FILL -DATE 11-15-92 INSPECTOR DATE 11-14-92 REVIEWED BY

PLACEMENT OF COMMON FILL

FORM A-10

SHEET

/ OF

INSPECTION DATE 11-13-92

SHEET OF INSPECTION 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. - 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 (± 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 TO BE COMPLETED 90% OF MAXIMUM DRY DENSITY). - 1 MOISTURE CONTENT TEST (+ 3% OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. 4. DUST CONTROL ACTION TAKEN NONE RESURRED 5. LOCATION (APPROXIMATE) Southern Scott DATE //-/4-72 INSPECTOR \_ DATE 11-16-92 REVIEWED BY \_

FORM A-10

FORM A-10 REJECT N/A

DATE //-/6-92

## SHEET \_\_\_\_ OF INSPECTION DATE 11-15-92 PLACEMENT OF COMMON FILL ACCEPT 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. PLACEMENT - MAXIMUM LOOSE LIFT OF 12 INCHES - INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT (± 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 (± 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) SOUTHERN STOPE REMARKS MEENTING & STOCKPILING COMMON FILL ON SOUTHERN SLOPE R. luy STOPIED THIS DATE 11-16-92 INSPECTOR \_\_\_

bohn &

FORM A-10 SHEET GF INSPECTION DATE 1/-1/2-52 PLACEMENT OF COMMON FILL ACCEPT REJECT A\N 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 WINCHES - INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT (± 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 TO BE COMPLETED 90% OF MAXIMUM DRY DENSITY). - 1 MOISTURE CONTENT TEST (± 3% OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. 4. DUST CONTROL NONE REDVINED ACTION TAKEN \_\_\_\_ 5. LOCATION (APPROXIMATE) AND TENEST PROPERTY POLE FIRST PEAR REMARKS \_\_\_\_

REVIEWED BY

DATE 11-16-92

DATE //-/7-92

FORM A-10 OF ∠ SHEET INSPECTION DATE //-/2-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 (± 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 (IN MOGRESS - Tomes 90% OF MAXIMUM DRY DENSITY). - 1 MOISTURE CONTENT TEST (+ 3% OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. 4. DUST CONTROL ACTION TAKEN Note RESULTED LOCATION (APPROXIMATE) SOUTH SUPE 6. REMARKS \_\_\_\_

INSPECTOR

REVIEWED BY

DATE 1/12/2

DATE //-/8-92

PLACEMENT OF COMMON FILL		/ OF / ON DATE /	
1. MATERIAL	ACCEPT	REJECT	И/2
<ul> <li>COMMON FILL SOIL OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.</li> </ul>			
- 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.	_		
. PLACEMENT			
- MAXIMUM LOOSE LIFT OF 12 INCHES			
<ul> <li>INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT (± 3% OF OPTIMUM)</li> </ul>			
- SURVEYOR VERIFY SLOPES, CONFIGURATION, THICKNESS AND ELEVATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.		<del></del>	
. 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).	SEE ATT	<del>ATCHE</del> D	
- 1 MOISTURE CONTENT TEST (± 3% OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS.	DEICHE J. 7	NAST CONTRACTOR	
DUST CONTROL	YOV 1 .	" <u>19</u> 2	
ACTION TAKEN	<del></del>	··• L.	
LOCATION (APPROXIMATE) N/A - NOTHE	NE IMPORTE	<b>≓</b> △	<u></u>
REMARKS SEZ ATTATCHED SHEET FOR	L SHA CON	<del>-</del> •	
TROXLEL RESULTS			

/ OF SHEET INSPECTION DATE 11-19-92 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 (± 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 (± 3% OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. 4. DUST CONTROL NONE REDURED ACTION TAKEN PLACED & STOCK PILED COMMON FILL DATE 11-19-92 DATE //- 20-17 REVIEWED BY

FORM A-10

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PLACEMENT OF COMMON FILL JEB FORM A-10
SHEET / OF /
INSPECTION DATE //-20-92

		ACCEPT	REJECT	N/A
1.	MATERIAL			
	- COMMON FILL SOIL OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.			
l	- FREE FROM SOD, BRUSH, ROOTS OR OTHER PERISHABLE MATERIALS, ROCKS LARGER THAN 3 INCHES.	_		
	<ul> <li>CLAYMAX, VLDPE LINER, GAS VENTING LAYER AND PIPES AND GEOSYNTHETIC DRAINAGE LINER IS ACCEPTED BY THE CONSTRUCTION MGR.</li> </ul>			
2.	PLACEMENT			
	- MAXIMUM LOOSE LIFT OF 12 INCHES			
	- INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT (± 3% OF OPTIMUM)		<del></del>	
	- 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).	(SEE	E ATTAREMENTS 10	ESULTS )
	- 1 MOISTURE CONTENT TEST (± 3% OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS.			
4.	DUST CONTROL	•		
	ACTION TAKEN None Regulars			
5.	LOCATION (APPROXIMATE) STOCKPILING COM	IMEN FUL ON	2 ND AGAIN	}
	A FOGE OF C	ECCOMPOSATE	<u> </u>	} }
6.	REMARKS News			
	INSPECTOR Change Boll		_ DATE ∠	1-20-92
	REVIEWED BY Anchar Branches		_ DATE /	1/21/92

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 (± 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 (± 3% OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. 4. DUST CONTROL ACTION TAKEN NONE ZERNES 5. LOCATION (APPROXIMATE) SPREAD COMMONETAL NONTHWARDS FROM STOCKPILE INTO AMEN AMOUNTO BY LEGISMITER BETWEEN FEARS 2 \$ 3. 6. REMARKS \_\_\_\_\_ DATE 11-24-92 2005 REVIEWED BY DATE

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FORM A-10

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OF

FORM A-10 SHEET \_\_/\_ OF DEC 0 1 1992 INSPECTION DATE 11-30-92 PLACEMENT OF COMMON FILL ACCEPT REJECT N/A . 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 (± 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 (± 3% OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. 4. DUST CONTROL ACTION TAKEN Nove REQUIRED LOCATION (APPROXIMATE) Nova of 200 pork REMARKS DATE //-30-12 INSPECTOR REVIEWED BY

PLACEMENT OF COMMON FILL

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	Z	57	(_ک	Щ
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FORM A-10
SHEET \_/ CF \_/
INSPECTION DATE \_/2-/-72

		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	<del></del>		
	- INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT (± 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 (± 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	<del></del>		
5.	LOCATION (APPROXIMATE)	15 HINR # 1	COMM W FILE	=
	NOTHWARD BEYOND PEAR #3	•		
6.	REMARKS RESULTS OF CRADATION	ANALYSES # 4	- = 12	412
	ATTMEHED		<del></del>	
	INSPECTOR		DATE _/	2-1-92
	REVIEWED BY Janatian Standes	<del> </del>	_ DATE /	12/92

INSPECTION DATE /2-2-92 PLACEMENT OF COMMON FILL ACCEPT REJECT N/A 1. MATERIAL - COMMON FILL SOIL OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER. - 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 (± 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 (± 3% OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. 4. DUST CONTROL LONE ACTION TAKEN \_ 5. LOCATION (APPROXIMATE) EAST SIDE OF SITE 20' BEYOUD 4 NOT PEAK Comment FILL REMARKS OF COMMON FILL CENDATIONS 13-16 ME ATTATEMED. DATE INSPECTOR DATE /Z REVIEWED BY

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FORM A-10

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זם	ACEMENT OF COMMON FILL	15.5.) 1992 Discustantism	FORM A-1 SHEET INSPECTI	O /_ OF ON DATE _/	<u>/</u> 2-3- <b>92</b>
	neutral of control that	# JES !!!	<del></del>		
1.	MATERIAL		ACCEPT	REJECT	N/A
	- COMMON FILL SOIL OBTA BORROW AREA ACCEPTED CONSTRUCTION MANAGER.	BY THE			
	- FREE FROM SOD, BRUSH, OTHER PERISHABLE MATE LARGER THAN 3 INCHES.	RIALS, ROCKS			
	- CLAYMAX, VLDPE LINER, LAYER AND PIPES AND G DRAINAGE LINER IS ACC THE CONSTRUCTION MGR.	EOSYNTHETIC EPTED BY			
2.	PLACEMENT				
	- MAXIMUM LOOSE LIFT OF	12 INCHES			
	- INSPECT LAYER OF FILL MOISTURE CONTENT (± 3			•	
	- SURVEYOR VERIFY SLOPE: CONFIGURATION, THICKN ELEVATIONS IN ACCORDAL WITH THE CONTRACT DOCU	ESS AND NCE	_		
з.	VERIFICATION TESTING				
	- 1 DENSITY TEST FOR EACH YARDS OR EACH AREA CONDAY WHICHEVER IS LESS 90% OF MAXIMUM DRY DEN	MPLETED IN ONE (AT LEAST			
	- 1 MOISTURE CONTENT TES OPTIMUM) FOR EACH 750 OR EACH AREA COMPLETED WHICHEVER IS LESS.	CUBIC YARDS			<u></u>
4.	DUST CONTROL		•		ŀ
	ACTION TAKEN None	RESUMED			
5.	LOCATION (APPROXIMATE) _	ARTH PEAK	# Nonz	uwards	
6.	REMARKS LONE				
	RESULTS OF COM	MON FUL CRADAT	17-20	ATE ATT	MEHLD!
	INSPECTOR	Ball		_ DATE _/	2-3-92
	REVIEWED BY Amathan	Brandos		_ DATE Z	14/92

150 47 1992 FORM A-10 SHEET / GF INSPECTION DATE 12-4-92 DECEMBLE PLACEMENT OF COMMON FILL REJECT ACCEPT N/A1. 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 (± 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 (± 3% OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. DUST CONTROL ACTION TAKEN NONE REDVICED LOCATION (APPROXIMATE) Common File 501L 351K RESULTS REMARKS CONE TESTS DATE /2-4-92 INSPECTOR DATE 17 REVIEWED BY

##C 9 > 1992 SHEET \_\_\_/\_ OF 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 (± 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 (± 3% OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. 4. DUST CONTROL ACTION TAKEN Nonte Resumes LOCATION (APPROXIMATE) NONTH SCORE -REMARKS \_\_\_\_ DATE /2-7-92 INSPECTOR REVIEWED BY

FORM A-10

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FORM A-10
SHEET / OF /
INSPECTION DATE /2-8-92

PL	WEEMENT OF COMMON LITTE 35 25 31	***********	ON DATE 7	2-0-92
		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 (± 3% OF OPTIMUM)			<u></u>
	- 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 (± 3% OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS.			<u></u>
4.	DUST CONTROL	•		
	ACTION TAKEN NONE REDURED	<del></del>		
5.	LOCATION (APPROXIMATE) Nonth of farm	PORR		
6.	REMARKS			
	INSPECTOR Chas God		DATE /	2-8-92
	1 # 1	<del></del> _	_ DATE /	2/10/42
	REVIEWED BY Jone han Sources	<del></del>	_ DATE C	11-1-

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FORM A-10

DATE /2-9-92

SHEET \_\_/\_ OF INSPECTION 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. - 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 (± 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 (± 3% OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. 4. DUST CONTROL ACTION TAKEN NONE REDUNES 5. LOCATION (APPROXIMATE) NONTH STOPE

6. REMARKS Nove

INSPECTOR \_\_\_

SHEET \_\_/\_ OF INSPECTION DATE 12-10-92 PLACEMENT OF COMMON FILL ACCEPT REJECT N/A 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 (± 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 (± 3% OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. 4. DUST CONTROL ACTION TAKEN \_ None REQUIRES 5. LOCATION (APPROXIMATE) Nous Score 6. REMARKS RESULTS OF COMMOTION TESTS 25 - 29 AGE ATTATCHED INSPECTOR DATE 12:10-92

REVIEWED BY

FORM A-10

FORM A-10 SHEET \_\_/\_ OF INSPECTION DATE /2-/5-92 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 (± 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 (± 3% OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. 4. DUST CONTROL ACTION TAKEN NOWE RESULTED LOCATION (APPROXIMATE) WEST SIDE- OF SITE. REMARKS PLACED ON GEOCOMPSITE ACCEPTED BY LEGSYNTEUS DATE 12-15-92 INSPECTOR

DATE 12-16-92

FORM A-10 SHEET / OF / INSPECTION DATE /Z-/6-92 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, ERUSH, 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 (± 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 (± 3% OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. 4. DUST CONTROL ACTION TAKEN NONE REQUILED LOCATION (APPROXIMATE) WEST SINE GEOCOMPOSITE ACCEPTED REMARKS PLACES COMMON FILL CEOSYNTE DATE 12-16-92 INSPECTOR DATE 12-17-92 REVIEWED BY

BEC \_ 3 4992 FORM A-10
SHEET \_\_/ OF /
INSPECTION DATE /2-/8-92\_

## PLACEMENT OF COMMON FILL

ł		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		<del></del>	
	- INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT (± 3% OF OPTIMUM)			
	- SURVEYOR VERIFY SLOPES, CONFIGURATION, THICKNESS AND ELEVATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.			
з.	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 (± 3% OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS.			<u> </u>
4.	DUST CONTROL	•		
	ACTION TAKEN NONE REQUIRED	<del></del>		
5.	LOCATION (APPROXIMATE) LEST SIDE	of North	CAR	
6.	REMARKS PLACED COMMON FOR OVER GEREN	_	/	
	CIEDSYNTEE - CRAMMONS 21	-24 ME A		
	INSPECTOR		DATE <u>@</u>	1-18-92
	REVIEWED BY Jenathan Francis		DATE [3	119/92

FORM A-10 SHEET OF / INSPECTION DATE 12-19-12 PLACEMENT OF COMMON FILL ACCEPT REJECT N/A 1 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  $(\pm 3\% \text{ OF OPTIMUM})$ - 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 (± 3% OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. 4. DUST CONTROL ACTION TAKEN NONE REDUINED 5. LOCATION (APPROXIMATE) WEST CINE OF NOATH CLOSE REMARKS KNOCKED DOWN LAST BIG STOCKPILE & PLACED OVER

DATE 12-19-92

DATE 12-22-92

(50COMPOSITE

INSPECTOR

		DEC 29 1992	FORM A-1	0 /_ OF/	
PI	ACEMENT OF COMMON FILL	न्त्रहाडाकारणाङ्गा <u>न</u>		DATE ZZ	
		ŒĠ	ACCEPT	REJECT	N/A
1.	MATERIAL				
	- COMMON FILL SOIL OBTAIN BORROW AREA ACCEPTED BY CONSTRUCTION MANAGER.		<u>~</u>		
	- FREE FROM SOD, BRUSH, F OTHER PERISHABLE MATERI LARGER THAN 3 INCHES.		_	<del></del>	
	- CLAYMAX, VLDPE LINER, G LAYER AND PIPES AND GEO DRAINAGE LINER IS ACCEP THE CONSTRUCTION MGR.	SYNTHETIC	_		
2.	PLACEMENT				
	- MAXIMUM LOOSE LIFT OF 1	2 INCHES	<u> </u>		
	- INSPECT LAYER OF FILL F MOISTURE CONTENT (± 3%				
	- SURVEYOR VERIFY SLOPES, CONFIGURATION, THICKNES ELEVATIONS IN ACCORDANC WITH THE CONTRACT DOCUM	E			
3.	VERIFICATION TESTING				
	- 1 DENSITY TEST FOR EACH YARDS OR EACH AREA COMP! DAY WHICHEVER IS LESS (2 90% OF MAXIMUM DRY DENS!	LETED IN ONE AT LEAST			
	- 1 MOISTURE CONTENT TEST OPTIMUM) FOR EACH 750 CO OR EACH AREA COMPLETED D WHICHEVER IS LESS.	JBIC YARDS			
4.	DUST CONTROL		•		
	ACTION TAKEN NONE RE	OVICES	<del></del>		
5.	LOCATION (APPROXIMATE)	Vern SIDRE -	EAST 51	DE DE 517	<b>-</b>
6.	REMARKS PLACING COMMO		COM POSITE	ACCEPTED	vox
	GEOSYLMEC (+	om Bruser)		· · · · · · · · · · · · · · · · · · ·	
	INSPECTOR	B 000	>	_ DATE <u>/2</u>	
	REVIEWED BY	Drawlos		_ DATE <u>12</u>	<u>-55-64</u>

FORM A-10

SHEET / OF /
INSPECTION DATE /2-22-92

PI	ACEMENT OF COMMON FILL WER	INSPECTI	ON DATE Z	<u> </u>
		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 (± 3% OF OPTIMUM)		<del></del>	
	- 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 (± 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 COLUM	on & None	HWEST CONNO	
6.	REMARKS PLACED COMMENTILL OVER GEOCOMPOS	TE ALLERES	by acosynt	<u> </u>
	CRASATIONS 25-28 ATTATCHED.			
	INSPECTOR Comb Da S		DATE _	2-22-92
	REVIEWED BY A Brandes		_ DATE L2	-23-92

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JED 3.5 1987

FORM A-10 SHEET / OF INSPECTION DATE 12-23-92 PLACEMENT OF COMMON FILL ACCEPT REJECT M/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 (± 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 (± 3% OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. DUST CONTROL ACTION TAKEN LOCATION (APPROXIMATE) REMARKS PERFORMED DATE /2-23-91 INSPECTOR \_

REVIEWED BY

DATE /2-23-90

1 9 1993

DECENSOR!

FORM A-10 SHEET / OF / INSPECTION DATE 5/18/93

1	ADENETIE OF COMMON LITTE	INDELCIA	ON DATE 5	7,0/1.3
į		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 FERISHABLE MATERIALS, ROCKS LARGER THAN 3 INCHES.	/		
	- CLAYMAX, VLDPE LINER, GAS VENTING LAYER AND PIPES AND GEOSYNTHETIC DRAINAGE LINER IS ACCEPTED BY THE CONSTRUCTION MGR.			~
Ο.	PLACEMENT			
	- MAXIMUM LOOSE LIFT OF 12 INCHES	MA		
	- INSPECT LAYER OF FILL FOR PROPER MOLSTURE CONTENT (± 3% OF OPTIMUM)		<del></del>	<u> </u>
	- SURVEYOR VERIFY SLOPES, CONFIGURATION, THICKNESS AND FLEVATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.			<u> </u>
	VERIFICATION TESTING			
	- 1 DEMSITY TEST FOR EACH 750 CUBIC WARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 90% OF MAXIMUM DRY DENSITY).			
	- 1 MOISTURE CONTENT TEST (± 3% OF OFTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS.			<u>/</u>
4.	DUST CONTROL			ľ
	ACTION TAKEN NONE	<del> </del>		
5.	LOCATION (APPROXIMATE) FAST Anchor	TRanch	& Dike	
	SLOPE	<del>_</del>		{
5.	REMARKS 7 LOADS OF MATERIAL XC	? /TON =	14750~	
	INSPECTOR Joseph & Colomortino		DATE 5	1/8/93
	REVIEWED By Sonathan Bundes		DATE S	tec/B
	, , <del>=</del> -			

PLACEMENT OF COMMON FILL

FORM A-10
SHEET OF INSPECTION DATE 5/19/13

1 1	MATERIAL	DEBI	ACCEPT	REJECT	N/A
l		The mure			
	- COMMON FILL SOIL OBTAINED BORROW AREA ACCEPTED BY T CONSTRUCTION MANAGER.				
	- FREE FROM SOD, BRUSH, ROC OTHER FERISHABLE MATERIAL LARGER THAN 3 INCHES.		1		
	- CLAYMAX, VLDPE LINER, GAS LAYER AND PIPES AND GEOSY DRAINAGE LINER IS ACCEPTE THE CONSTRUCTION MGR.	INTHETIC			<u> </u>
٦.	FLACEMENT		,		
	- MANIMUM LOOSE LIFT OF 12	INCHES			<del></del>
	- INSPECT LAYER OF FILL FOR MOISTURE CONTENT (± 3% OF				<u>/</u>
	- SURVEYOR VERIFY SLOPES, CONFIGURATION, THICKNESS ELEVATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMEN				V
٠.	UFPIFICATION TESTING				
	- DEUSITY TEST FOR EACH 7 YARDS OR EACH AREA COMPLET DAY WHICHEVER IS LESS (AT 90% OF MAXIMUM DRY DENSIT	TED IN ONE LEAST			<u>V</u>
	- 1 MOISTURE CONTENT TEST (: OFTIMUM) FOR EACH 750 CUB: OR EACH AREA COMPLETED IN WHICHEVER IS LESS.	IC YARDS			$\sqrt{}$
4.	DUST CONTROL				
	ACTION TAKEN NONE				
<u>۳</u> .	LOCATION (APPROXIMATE) Eas	T Anchor T	Reach are	1 Dike S	LoRe.
6.	HEMARKS Londs of mail	Terip L X 2/ To.	= 23	ITon	
	INSPECTOR Joseph Ly Color REVIEWED BY ANIMAN K	gester -		DATE S	5/19/13 top2
	7 7 7 TE	<del></del>			

MAY 2 1 1993

FORM A-10, OF SHEET ग्रह्माडाक्षाक्षा<u> ।</u> 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 (± 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 (± 3% OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. DUST CONTROL ACTION TAKEN \_ LOCATION (APPROXIMATE) \_ INSPECTOR

MAY 2 1 1993 FORM A-10 SHEET / OF / INSPECTION DATE 5-21-94 oecenwe i 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 (± 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 (± 3% OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. 4. DUST CONTROL ACTION TAKEN \_ LOCATION (APPROXIMATE) \_ REMARKS 4LOADS 82 TON

INSPECTOR

REVIEWED BY

DATE 5-21-93

DATE 5/25/93

PLACEMENT	OF	COMMON	FILL

MAY 2 5 19	193
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FORM A-10 SHEET / OF / INSPECTION DATE 5/27/93

	Security			
] !.	MATERIAL	ACCEPT	REJECT	N/A
	- COMMON FILL SOIL OBTAINED FROM THE BOFROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.			
	- FREE FROM SOD, BRUSH, ROOTS OR OTHER FERISHABLE MATERIALS, ROCKS LARGER THAN 3 INCHES.	V		
	- CLAYMAX, VLDPE LINER, GAS VENTING LAYER AND PIPES AND GEOSYNTHETIC DRAINAGE LINER IS ACCEPTED BY THE CONSTRUCTION MGR.			<u>/</u>
2.	PLACEMENT			
	- MAXIMUM LOOSE LIFT OF 12 INCHES	<u> </u>		
	- INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT (± 3% OF OPTIMUM)			V
	- SURVEYOR VERIFY SLOPES, CONFIGURATION, THICKNESS AND ELEVATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.			<u> </u>
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).			<u> </u>
	- 1 MOISTURE CONTENT TEST (± 3% OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS.			<u>/</u>
4.	DUST CONTROL			
	ACTION TAKEN WATER TROCK GAS U	102		
5.	LOCATION (APPROXIMATE) Read from	CATED TO	Du np si	T-C
5.	REMARKS FOR CELA 580 TO	V		
	INSPECTOR Joseph of Colonartin		DATE S	127/93
	REVIEWED BY Anthon Bandon		DATE S	128/93

MAY 2 8 1993

FORM A-10

SHEET / OF / INSPECTION DATE 5/27/93 PLACEMENT OF COMMON FILL TOTAL TOTAL 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 FERISHABLE MATERIALS, ROCKS LARGER THAN 3 INCHES.

	- CLAYMAX, VLDPE LINER, GAS VENTING LAYER AND PIPES AND GEOSYNTHETIC DRAINAGE LINER IS ACCEPTED BY THE CONSTRUCTION MGR.			V
2.	PLACEMENT	/		
	- MAXIMUM LOOSE LIFT OF 12 INCHES			
	- INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT (± 3% OF OPTIMUM)		***	<u> </u>
	- SURVEYOR VERIFY SLOPES, CONFIGURATION, THICKNESS AND ELEVATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.		·	<u></u>
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).			V
	- 1 MOISTURE CONTENT TEST (± 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 USE	<u>d</u>		
5.	LOCATION (APPROXIMATE) Road FRom	GATES TO	Dunp 5	Te
κ.	REMARKS FOR TROUGH & SLOPE	230TON		
	INSPECTOR Joseph & Colomatur		DATE :	5/27/93
	REVIEWED BY Banks		DATE	3/28/23

SHEET OF INSPECTION DATE 5/26/9 3 PLACEMENT OF COMMON FILL ACCEPT N/A REJECT 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 (+ 3% OF OPTIMUM) - SURVEYOR VERIFY SLOPES, CONFIGURATION, THICKNESS AND ELEVATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. 1. 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 MCISTURE CONTENT TEST (± 3% OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR FACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. 4. DUST CONTROL ACTION TAKEN WATER TRUCK USED ON ACCESS KONDS 5. LOCATION (APPROXIMATE) CELACAS 760 Imported Today. REMARKS \_ DATE 5/22/93 INSPECTOR REVIEWED BY

MAY 2 8 1993

FORM A-10

p. 5	CEMENT OF COMMON FILL	FORM A-10 SHEET INSPECTION	OFON DATE	6/1/9
· · · · · · · · · · · · · · · · · · ·	HATERIAL SN 1 S (U.)	ACCEPT		N/A
	- COMMON FILL SOIL OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.	/		
	- FREE FROM SOD, BRUSH, ROOTS OR OTHER FERISHABLE MATERIALS, ROCKS LARGER THAN 3 INCHES.	<u>./</u>		
	- CLAYMAX, VLDFE LINER, GAS VENTING LAYER AND PIPES AND GEOSYNTHETIC DRAINAGE LINER IS ACCEPTED BY THE CONSTRUCTION MGR.			<u> </u>
2.	PLACEMENT			
	- MAXIMUM LOOSE LIFT OF 12 INCHES			
	- INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT (± 3% OF OPTIMUM)			<u> </u>
	- SURVEYOR VERIFY SLOPES, CONFIGURATION, THICKNESS AND ELEVATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.	<del></del>		V
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).			<u>'\</u>
	- 1 MOISTURE CONTENT TEST (± 3% OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS.			
4,	DUST CONTROL			
	ACTION TAKEN WATE. TRUCK USED	<del></del>		<del></del>
я.	LOCATION (APPROXIMATE) ON CELH	CAP		
	2,491.72 = 49,534.	7210~	<del></del>	
6.	REMARKS			<del></del>
	INSPECTOR Joseph & Colite REVIEWED BY Anathon Branch		DATE	6/16/93

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FORM A-10 JUN 0 2 793 SHEET OF INSPECTION DATE PLACEMENT OF COMMON FILL ACCEPT REJECT N/A 1. MATERIAL - COMMON FILL SOIL OBTAINED FROM THE BOFROW 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. FLACEMENT - MAXIMUM LOOSE LIFT OF 12 INCHES - INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT (± 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 (+ 3% OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS. 1. PUST CONTROL ACTION TAKEN YOS, WATER PRUCK GRENON FORTH WE LOCATION (APPROXIMATE) \_ CA CELA Side cottside cf PEMARKS TLICKARSS REVIEWED XX

F.	ACEMENT OF CONTON FILL RECEIVED	FORM A-1 SHEET INSPECTI	<u>/</u> OF <u>/</u>	73/93
,	"ATEDIAL	ACCEPT	REJECT	N/A
	- COUMON FILL SOIL OBTAINED FROM THE BORPOW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.	_		
	PREF FROM SOD, BRUSH, ROOTS OR OTHER FERISHABLE MATERIALS, ROCKS (ARGER THAN 3 INCHES.			
	- CLAYMAN, TUDGE LINER, GAS VENTING LAYED AND PIPES AND GEOSYNTHETIC DESPIRAGE LINER IS ACCEPTED BY THE CONSTRUCTION MGR.		. <u>.                                   </u>	<u></u>
.,	at Vorsitatio			
	- MAXIMUM LOOSE LIFT OF 12 INCHES			
	- IMPROT LAYER OF FILL FOR PROPER MOISTUPE CONTENT (± 3% OF OPTIMUM)			~
	- SUPVEYOR VERIFY SLOPES, CONFIGURATION, THICKNESS AND ELEVATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.			~
٠.	VERIFICATION TESTING			
	- 1 DEMSITY 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 (± 3% OF CFTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS.			
4.	DUST CONTROL			ļ
	ACTION TAKEN WATER TRUCK USED ON	ACLESS RO	ad way S	
,5.	LOCATION (APPROXIMATE) OUTS Ide Porim	TER Char	nel on	10'0120
	AREA COVERING IT TO 1' Thick OF Com	Fill.	<u> </u>	
6.	REMARKS 224.77 To~ PLACED Toda	2 Y	<del></del>	
	INSPECTOR Joseph L. Colombia		DATE _	6/3/93
	REVIEWED BY broken Drawles		DATE S	4772

	<b>JIN 1</b> 6 1993	FORM A-10 SHEET	OF /
Fi.	ACEMENT OF COMMON FILL DECEMBED	INSPECTION	DATE 6/15/93
		ACCEPT	REJECT N/A
: .	MATERIAL		
	- COMMON FILL SOIL OBTAINED FROM THE BOFRON AREA ACCEPTED BY THE CONSTRUCTION MANAGER.	<u> </u>	
	- FREE FROM SOD, BRUSH, ROOTS OR OTHER PERISHABLE MATERIALS, ROCKS LARGER THAN 3 INCHES.	<u>i</u> .	
	- 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	<del></del> -	<u></u>
	- INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT (± 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 (± 3% OF OPTIMUM) FOR EACH 750 CUBIC YARDS OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS.		
4.	DUST CONTROL		
	ACTION TAKEN LATER TRUCK USED		
5.	LOCATION (APPROXIMATE) NORTH CEC Fill placed - nucleur clensity	LA CAP (NO.	(cmmen
٠.	REMARKS % Ro D.D. 4.0. % m  #40 105.7 137.7 144.8 5.1  41 97.5 114.1 120.2 5.3  42 91.4 119.4 125.3 4.6  43 100.5 131.0 137.1 4.6		
	INSPECTOR Joseph J. Colonston	<del></del>	DATE 6/16/13
	REVIEWED BY Smeethery Kranch	65	DATE 6/16/93

SHEET / OF INSPECTION DATE 8-18-92 PLACEMENT OF TOPSOIL ACCEPT REJECT N/A 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 WATERED HAUL ROAD AS REQUIRED 4. LOCATION (APPROXIMATE) CURRENT CONTROLS REMARKS PLAN TO FINISH PLACING TOP SOIL TOMORROW AT WHICH TIME THE FERTILIZER AND SEED WILL BE PLACED. AUG 2 0 1992 DATE 8-18-92 REVIEWED BY DATE 8-20-92

FORM A-11

## PLACEMENT OF TOPSOIL

	······································			
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 RI	EQUIRED	
4.	LOCATION (APPROXIMATE)	•	· · · · · · · · · · · · · · · · · · ·	
	CUERENT CONTROLS			
5.	REMARKS STONE AND TOP SOIL	PLACEMENT	WAS FINA	SHED.
	THE AREA WAS FERTILIZED	AND SEEDED	STRAL	J/HAY
	WILL BE PLACED TOMORROW	AND CURREN	IT CONT	ROLS
	SHOULD BE COMPLETE.			
		AUG 2 0 1992		
		DECENTED		
	INSPECTOR Trederick Martile REVIEWED BY Alin P. School	<u>.                                    </u>	DATE 8	

FORM A-11 AU6 2 5 1992 SHEET OF I PLACEMENT OF TOPSOIL ACCEPT REJECT N/A 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 YOP SOIL. 5. REMARKS TOP SOIL WAS PLACED ON 8-22-92. REVIEWED BY Amathan

	<b>€P</b> 3 892	FORM A-1		,
DT?	ACEMENT OF TOPSOIL COMPANY OF	INSPECTI	OF OF OF	<u> </u>
<u>س</u> ج	[Annean Mail	INSPECTI	ON DATE _a	27-
	IL ZER III	ACCEPT	REJECT	N/A
`.	MATERIAL			
	- TOP SOIL OBTAINED FROM BORROW AREA ACCEPTED BY THE	_		
	CONSTRUCTION MANAGER.			
	COMBINGCITON PANAGER.			
	- FREE FROM HEAVY CLAY, COARSE SAND,			
	STONES, PLANTS, ROOTS, STICKS AND			
	OTHER FOREIGN MATERIAL.		<del></del>	
	- SUBGRADE IS NOT FROZEN,			
	EXCESSIVELY WET, EXTREMELY DRY OR	7) <del>( - 722</del> -	ITS COCATION	7141
	IN POOR CONDITION.	41.84 13		ပ် <del>က်</del>
		<del>_</del> _	<del></del>	
2.	PLACEMENT			
	MODEOTER IDEAC IDE CHOOMY IND			
	- TOPSOILED AREAS ARE SMOOTH AND UNIFORMLY GRADED.	•	•	
	on I old bl diable.			
	- TOP SOIL THICKNESS IS AT LEAST			
	6 INCHES.			
i .	DUST CONTROL			
•	DOST CONTROL		_	
			•	
	ACTION TAKEN NONE REQUIRED			
	ACTION TAKEN NONE REQUIRED	<u> </u>	<u> </u>	
	ACTION TAKEN NONE REQUIRED			·
	ACTION TAKEN NONE REDUINED		· · · · · · · · · · · · · · · · · · ·	
١.	LOCATION (APPROXIMATE)			
١.	LOCATION (APPROXIMATE)			
١.				
	LOCATION (APPROXIMATE)  REFINELY ALEA G			
	LOCATION (APPROXIMATE)  REFINELY ALEA G			
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	LOCATION (APPROXIMATE)  REFINELY ALEA G			
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	LOCATION (APPROXIMATE)  REFINELY ALEA G			
	LOCATION (APPROXIMATE)  REFINELY ALEA G			
5.	LOCATION (APPROXIMATE)  REGINETY ATER G  REMARKS		DATE 4	23-92-
5.	LOCATION (APPROXIMATE)  REFINELY ALEA G		DATE £	23-92

FORM A-11 SHEET \_/ NOV 55 6 1992

\_ OF \_\_/

וַק	ACEMENT OF TOPSOLL	John Control	INSECTIO	N DATE	-3-77-
	MATERIAL	TES II	ACCEPT	REJECT	N/A
	- TOP SOIL OBTAINED FR AREA ACCEPTED BY THE CONSTRUCTION MANAGER				
	- FREE FROM HEAVY CLAY STONES, PLANTS, ROOT OTHER FOREIGN MATERIA	S, STICKS AND			
	- SUBGRADE IS NOT FROZI EXCESSIVELY WET, EXTI IN POOR CONDITION.				· .
2.	PLACEMENT				
	- TOPSOILED AREAS ARE S UNIFORMLY GRADED.	ONA HTOOMS			
3.	- TOP SOIL THICKNESS IS 6 INCHES.* + SURVEY IS RESPONSIBILITY DUST CONTROL				
	ACTION TAKEN None	Reaves		·	
4.	LOCATION (APPROXIMATE)	<u> </u>			
5,	REMARKS				
	ADDITIONAL RESINERY EXC	worm Areas Alu.	16 Ens 2 \$ 4	AT-	
	CURRENT MATTHES WER				cot-
	WELL EXCAMPLED YESTER	SAY AT COMENT	Connicis. No	MEAS AT	
	THE POWERHOUSE WORE	7080 US 45 7	HESE ANZ	IN TRAFF	EL_
	ANEAS.		<b></b> .		
	1995 1994 - 1995				
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	The state of the s	11			
راً ماري	INSPECTOR	Dale		_ DATE <u>//</u>	1-5-92
``	REVIEWED BY finshar	Brancos		DATE !!	17/22
	ANNA COLUMN				

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JUN 1 1 1993

FORM A-11 SHEET OF INSPECTION DATE CALLED S

ACEMENT OF TOPSO	IL OEEEE(VEI)	INSPECTIO	N DATE GUALS
MATERIAL	(JEB)	ACCEPT	REJECT N/A
TOP COIL OBT AREA ACCEPTE CONSTRUCTION			
	AVY CLAY, COARSE SAND, IS, ROOTS, STICKS AND N MATERIAL.		
- SUBGRADE IS I EXCESSIVELY U IN POOR COND	VET, EXTREMELY DRY OR		
FIACFIIFHT			i iza
- TOPSOILED ARI	EAS ARE SMOOTH AND	1	
- TOP SOIL THIC	CKNESS IS AT LEAST		
DUST CONTROL	,		
ACTION TAKEN _	NA		
REMARKS DAY  EAST CE	NO MATERIAL  - MATERIAL WAS	howwood .	or This
			of <sub>a</sub> r
<del> </del>			er general and a second a second and a second a second and a second and a second and a second and a second an
INSPECTOR ON	sh d. Colombia		DATE 6/16/13
REVIEWED BY	Little & los		DATE 6/14/93
VEATEURD 61 -1-	The second		

FORM A-11 JUN 1 4 1993 SHEET PLACEMENT OF TOPSOIL INSPECTION DATE ACCEPT REJECT 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 WATER TRUCK Wood ACTION TAKEN 4-17:5 4. LOCATION (APPROXIMATE) WIST CULA 5. REMARKS Imported 1:665.93 Tons \$100 a 100 c

INSFECTOR
REVIEWED B

**1** 4 (55)

FORM A-11,

רון:	ACEMPUT OF TOPSOIL	(1233 <b>14 1233</b>	SHEET	/ OF / ON DATE _	T-/12/9
		( )EB	ACCEPT		N/A
	MATERIAL				,
	- TOP SOIL OBTAINED F AREA ACCEPTED BY TH CONSTRUCTION MANAGE	łE			
	- FREE FROM HEAVY CLA STONES, PLANTS, ROC OTHER FOREIGN MATER	TS, STICKS AND		<del></del>	
	- SUBGRADE IS NOT FRO EXCESSIVELY WET, EX IN FOOR CONDITION.			·-	
2.	PLACEMENT		_		
	- TOPSOILED AREAS ARE UNIFORMLY GRADED.	SMOOTH AND			
	- TOP SOIL THICKNESS 6 INCHES.	IS AT LEAST			
3.	DUST CONTROL				
	ACTION TAKEN WAT	JATZUCK L	MINO	s-e	
	-	·		· .	
4.	LOCATION (APPROXIMATE				
	NORTH WEST	CELFI MA	\$ A		
F.	REMARKS	- / /	100n		
	Tro	70 6" in	APPROIA	7~ Loca	//02.5
	ImPorted 1,	138.96 /0	<u>~ ASO</u>		<del></del>
	This Date	8,847.777	0~		

FLACEMENT OF TOPSOIL

JUN 0 3 1993

FORM A-11 SHEET OF INSPECTION DATE 6/3/53

MATERIAL DES	ACCEPT	REJECT	N/#
- TOP SOIL OBTAINED FROM BORROW APEA ACCEPTED BY THE CONSTRUCTION MANAGER.			
- FPEE FROM HEAVY CLAY, COARSE SAND, STONES, PLANTS, ROOTS, STICKS AND OTHER FOREIGN MATERIAL.	V		<del></del>
- SUBGRADE IS NOT FROZEN, EYCESSIVELY WET, EXTREMELY DRY OR IN FOOR CONDITION.	V		
PLACEMENT			
- TOPSOIDED AREAS ARE SMOOTH AND UNIFORMLY GRADED.	<u> </u>		
- TOP SOIL THICKNESS IS AT LEAST 6 INCHES.		<del></del> .	
DUST CONTROL			
ACTION TAKEN LATER TRUCK USUED ON	Road was		
	Road was		
ACTION TAKEN LATER TRUCK USER OR		. 5	
LOCATION (APPROXIMATE)			
LOCATION (APPROXIMATE)  STOCK P. Ling on NORTH CELA		. 5	
LOCATION (APPROXIMATE)  STOCK P. Ling on NORTH CELA		· \$	
LOCATION (APPROXIMATE)  STOCK P. Ling on NORTH CELA		· \$	
LOCATION (APPROXIMATE)  STOCK P. Ling on NORTH CELA		· \$	
LOCATION (APPROXIMATE)  STOCK P. Ling on NORTH CELA		· \$	
LOCATION (APPROXIMATE)  STOCK P. Ling on NORTH CELA		· \$	
LOCATION (APPROXIMATE)  STOCK P.L., On NORTH CELA  REMARKS 1,001.75 Ton Placed Toda			
LOCATION (APPROXIMATE)  STOCK P. Ling on NORTH CELA		DATE C	

## PLACEMENT OF TOPSOIL



FORM A 11 SHEET A 22 INSPECTOR

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. PLACEMENT - TOPSOILED AREAS ARE SMOOTH AND UNIFORMLY GRADED. - TOP SOIL THICKNESS IS AT LEAST 6 INCHES. DUST CONTROL 3. ACTION TAKEN WATER TRUCK US = d 4. LOCATION (APPROXIMATE) REMARKS PLACE TOP Soil 6" ON The WOST CELA CAP Towage TO DAY 2,001.66 TODATE: 11,600.43 TON INSFECTOR REVIEWED BY

JUN 0 4 1955

FORM A-11 SHEET \_ OF INSPECTION DATE PLACEMENT OF TOPSOIL REJECT ACCEPT N/A: MATERIAL 1. - 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. D. FLACEMENT - TOPSOILED AREAS ARE SMOOTH AND UNIFORMLY GRADED. - TOP SOIL THICKNESS IS AT LEAST 6 INCHES. 3. DUST CONTROL ACTION TAKEN WATER TRUCK RAN ON HAUL ROADS TO LOCATION (APPROXIMATE) South

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INSPECTOR	( des M	1	Colo	male	 >
REVIEWED BY		brit	nan	Brane	bs

44,

## PLACEMENT OF TOPSOIL



FORM A-11
SHEET / OF / INSPECTION DATE 6/15/93

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.	<u> </u>		
	- SUBGRADE IS NOT FROZEN, EXCESSIVELY WET, EXTREMELY DRY OR IN POOR CONDITION.	V		
2.	PLACEMENT			
	- TOPSOILED AREAS ARE SMOOTH AND UNIFORMLY GRADED.			
	- TOP SOIL THICKNESS IS AT LEAST 6 INCHES.	1		
з.	DUST CONTROL			
	ACTION TAKEN LATER TRUCK USIN			<del></del>
4.	LOCATION (APPROXIMATE)			
	WEST CELA ALSO NORTHWES?			
5.	REMARKS Imported 1,467.83 Ton = 1	13.068.261	-3~	
				<del></del>
			<del></del>	<del></del>
	Aud I Col to		DATE Q	111.100
	INSPECTOR PARTY OF COMMUNICATION OF THE PARTY OF THE PART	2-6	DATE &	/K Az
	REVIEWED BY January Branch	<u>k)</u>	DATE Y	118/15

FORM A-11
SHEET / OF /
INSERTCTION DATE 6/793

Li)	ACEMENT OF TOPSOIL DESCRIPTION	SHEET / INSPECTION D	OF GATE GYSTA
· · ·	MATERIAL	ACCEPT RE	EJECT N/A
	- TOP SOIL OBTAINED FROM BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.		<del>,</del> , , <del>, , , , , , , , , , , , , , , ,</del>
	- FREE FROM HEAVY CLAY, COARSE SAND, STONES, PLANTS, ROOTS, STICKS AND OTHER FOREIGN MATERIAL.	<u> </u>	<del></del>
	- SUBGRADE IS NOT FROZEN, EXCESSIVELY WET, EXTREMELY DRY OR IN FOOR CONDITION.		
	PLACEMENT		業年でから、
	- TOPSOILED AREAS ARE SMOOTH AND UNIFORMLY GRADED.		
	- TOP SOIL THICKNESS IS AT LEAST 6 INCHES.	<u></u>	<u> </u>
3.	DUST CONTROL		
	ACTION TAKEN Rai~		<u> </u>
	LOCATION (APPROXIMATE)  REMARKS 749.0 To. 749.212.d	CELA CA!	
			1
		are s	
	^		
	INSPECTOR Joya & Columbia		DATE 4/1/23
	REVIEWED By Anaton June S		DATE 6/8/93

PLACEMENT	OF	TOPSOTT
PEACEMENT	ΨF	TOLDOID

FORM A-11
SHEET OF INSPECTION DATE: 62/6/23

The second

		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 FOOR CONDITION.	<u> </u>		- September 1
	PLACEMENT			
	- TOFSOILED AREAS ARE SMOOTH AND UNIFORMLY GRADED.	<u> </u>		
	- TOP SOIL THICKNESS IS AT LEAST 6 INCHES.	1		
	DUST CONTROL			
•				
	LOCATION (APPROXIMATE)	<u>d</u>		
	LOCATION (APPROXIMATE)  South was Truck use		·	
•	LOCATION (APPROXIMATE)	C L L 17	T1 L L.	: Circ
	LOCATION (APPROXIMATE)  South wish condoc  REMARKS This is ALL 74. Tol?	<u>C.L.L.17</u> Soil un		
	LOCATION (APPROXIMATE)  South wist contact  REMARKS This is ALL The Total  PLACE IT To 6" And Source	C 6 6 17 Soil un	n, Con T. C	
	LOCATION (APPROXIMATE)  South wist condoc  REMARKS This is ALL The Told  PLACE IT To b" and Source  Stone Tompare on First To	CULA Soil un Will TA	n, Con T. C	
	LOCATION (APPROXIMATE)  South wist conder  REMARKS This is ALL The Total  PLACE IT To b" and Source  Stone Tompare on First To  TopSoil 2,231.18 Ton	C 6 6 17 Soil un	n, Con T. C	
	LOCATION (APPROXIMATE)  South wist conder  REMARKS This is ALL The Total  PLACE IT To b" and Source  Stone Tompare on First To  TopSoil 2,231.18 Ton	CULA Soil un Vill Tie Tiday	n, Con T. C	

PLACEMENT OF TOPSOIL

FORM A-11
SHEET \_\_/ OF \_\_/
INSPECTION DATE \_\_6/17/93

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.			<del></del>
	- TOP SOIL THICKNESS IS AT LEAST 6 INCHES.	V		
3.	DUST CONTROL			
	ACTION TAKEN WATER TRUCK USED	<i>i</i>		
	·			
4.	LOCATION (APPROXIMATE)			
	OUTSIDE CELA ÉPERIMATUR Ch	Annal		
5.	REMARKS Inforted 5/3.55 Ton	- To U.a	У	
	15,817.99Tone 13 1	a Ice		
			JUN 1 8 199	<u></u> -
	·	Ş		<b>.</b>
	INSPECTOR Joseph S. Colomontino		DATE (	0/17/13
	REVIEWED BY		DATE _	

JUN 0 6 1993

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FORM A-11
SHEET \_\_/ OF \_\_\_\_\_
INSPECTION DATE 6/7/93

enthic til	ACCEPT	REJECT	N/A
TOT SOIL OPTAINED FROM BORROW APEA ACCEPTED BY THE CONSTRUCTION MANAGER.			
- FREE FROM HEAVY CLAY, COARSE SAND, STONES, PLANTS, ROOTS, STICKS AND OTHER FOREIGN MATERIAL.			
SUBGRADE IS NOT FROZEN, EYCERGIVELY WET, EXTREMELY DRY OR IN FOOR CONDITION.	V		
LIWOLNERA			
- TOPSOILED AREAS ARE SMOOTH AND UNIFORMLY GRADED.	<u>/</u>		
- TOP SOIL THICKNESS IS AT LEAST 6 INCHES.	<u>/</u>	<del></del> .	
DUST CONTPOL			
ACTION TAKEN WATER TRUCK IN U	5 e	· · · · · · · · · · · · · · · · · · ·	
LOCATION (APPROXIMATE)			
CELA EAST			
REMARKS			
InPo. T 1,627.69 Ton	TODIR	4,8 34.0	> 10-
		<del></del>	<del></del>
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INSPECTOR

REVIEWED BY

DATE 489

DATE 4892

## PLACEMENT OF TOPSOIL

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	2870	
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MATERIAL	JUN 0 9 1993	ACCEPT	REJECT N/A
AREA ACCEPTED BY TH	HE		
STONES, PLANTS, ROC	OTS, STICKS AND		
PLACEMENT			\$1. <sub>5</sub>
- TOPSOILED AREAS ARE UNIFORMLY GRADED.	E SMOOTH AND		- :
- TOP SOIL THICKNESS 6 INCHES.	IS AT LEAST		
DUST CONTROL			
ACTION TAKENRai~	, NoT Naded		
EAST CELL	9		
•	MPORT OF TOPS	oil AT No	on Que To
Excessive Rain.			
		fæg	· 人名英格兰
,			
A	1 0 1		**
INSPECTOR week &	1 (Kanastra		DATE 6/9/93
REVIEWED BY	athern Bran	els	_ DATE 6/10/93
	- TOP SOIL OBTAINED AREA ACCEPTED BY TO CONSTRUCTION MANAGE  - FREE FROM HEAVY CLE STONES, PLANTS, ROO OTHER FOREIGN MATER  - SUBGRADE IS NOT FROM EXCESSIVELY WET, EXIN POOR CONDITION.  PLACEMENT  - TOPSOILED AREAS ARE UNIFORMLY GRADED.  - TOP SOIL THICKNESS 6 INCHES.  DUST CONTROL  ACTION TAKEN  LOCATION (APPROXIMATE  FAST CEL  REMARKS STOP I  EXCESSIVE RAID.	- 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.  PLACEMENT  - TOPSOILED AREAS ARE SMOOTH AND UNIFORMLY GRADED.  - TOP SOIL THICKNESS IS AT LEAST 6 INCHES.  DUST CONTROL  ACTION TAKEN  RAIN, NOT WORLD  LOCATION (APPROXIMATE)  EAST CELA  REMARKS STOP, Import of Tops  Excessive Rain.	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.  PLACEMENT  TOPSOILED AREAS ARE SMOOTH AND UNIFORMLY GRADED.  TOP SOIL THICKNESS IS AT LEAST 6 INCHES.  DUST CONTROL  ACTION TAKEN  REMARKS  STOP  Infort of Topsoil AT No Excessive Raim.

	GEOTEXTILE	FORM A-12 SHEET INSPECTIO	OF/	<u> </u>
	1. MATERIAL	ACCEPT	REJECT "N/	'A
	- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. (ATTACH COPY).	1		
	- 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.	<u> </u>		
	- INSTALLATION INCLUDING SEAMS, IS PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.		·	<del></del>
, :	3. VERIFICATION TESTING			
	<ul> <li>1 INSPECTION OF OVERLAPS AND SECURING METHODS AT 25' SPACING ALONG SEAM OR ONCE PER PIECE.</li> </ul>	<u>/</u>		
	- 1 SEAM STRENGTH TEST FOR EVERY 2500 FEET LENGTH OF SEAM.	_70 BE	TALEN	
. 4	. GEOTEXTILE LOCATION (APPROXIMATE)			
ž.	DEPLOYED & SEWED P'S 1-	-9: USING	DOUBLE	I
<u> </u>	REMARKS		SEAM	
			<del></del>	
<u>.</u>		Single Pi	eryer	
i i		SEW	TWICE	
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a.	DIECHE WIE	್ಯಾಸ್ಟ್ರೀಕ್ ದಾಡುಬಾಲಾಭಾಗ್ಯ	`	
].	OCT 0 1 1992			
<u>şî</u> t	INSPECTOR	<u> </u>	DATE <u>9-70</u>	i
ja	REVIEWED BY Collin & Serkon		DATE <u>/0/1/9</u>	2
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-		FORM A-12 SHEET/ OF _/ INSPECTION DATE			
G	EOTEXTILE	INSPECTI	ON DATE	9-30-92	
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.	$\checkmark$			
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.	$\checkmark$			
	- 1 SEAM STRENGTH TEST FOR EVERY 2500 FEET LENGTH OF SEAM.	<u> </u>			
4 -	GEOTEXTILE LOCATION (APPROXIMATE)				
	EXTENDED CEOTEXTILE EASTWARD	- rous MENS	bles routes	NSOO	
5.	REMARKS				
-	RESULTS OF GENTEXTILE DESTINATIVE	- SAMPLL			
-	GDI ATTATCHEO		<u> </u>		
1. S.		DECE	ZE		
,		001 01	1992		
à.	INSPECTOR		_ DATE <u>_9</u> -	, ,	
1 2. /	REVIEWED BY Collin & Suhon		DATE 10	1/92	

CEOTEWELL E	FORM A-1 SHEET	ON DATE	<u> </u>
GEOTEXTILE	INSPECTI	ON DATE _/	
1. MATERIAL	ACCEPT	REJECT	N/A
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. (ATTACH COPY).			<u></u>
- FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE.		<del> </del>	<del></del> -
2. PLACEMENT			
- SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS.			
- FINAL IN-PLACE LOCATION OF GEOTEXTILE COMPLIES WITH CONTRACT DRAWING.	<u></u>		
- 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.			
GEOTEXTILE LOCATION (APPROXIMATE)			
500 to parox 600'N line	=		
REMARKS tot 39 footoge	e deplo	sel,	
sewed per spers 3:	7,800	TS 700	
<u> </u>	2520	I'NEAR F	7 <u>Se</u> i
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-	OS CO	SUALE I	
11 17	OCT o	2 1992	
INSPECTOR Min Bola		DATE /O-	, ,
REVIEWED BY	<u> </u>	DATE 🖄	2/92

	GEC	OTEXTILE	FORM A-12 SHEET/ INSPECTIO	OF/	<u>1</u> 2-2-92
	٠.	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.			
İ	2.	PLACEMENT			
		- SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS.			
		- FINAL IN-PLACE LOCATION OF GEOTEXTILE COMPLIES WITH CONTRACT DRAWING.		<del></del>	
		- 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)			
		GEOTEXTILE PLUSA TO NT	710 E100	<u>ی</u>	<del></del>
	5.	REMARKS	·		<del></del>
		SF TODAY = 54,000	SF TODAT	- 18 / / ·	57,49
		Mr. B.A.	OCT 0 5 1992	 	D.
		INSPECTOR MA GARA REVIEWED BY CARM P. Sculiou		DATE/_/	10/02
	F	REVIEWED BY		DATE 10/	3/ 7×

GEOTEXTILE	FORM A-1 SHEET INSPECTI	/_ OF/	1 10-3-9
MATERIAL	ACCEPT	REJECT	N/A
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. (ATTACH COPY).	<u>/</u>		
- 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.	<u></u>		
- INSTALLATION INCLUDING SEAMS, IS PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.		<del></del>	<del></del>
. VERIFICATION TESTING			
- 1 INSPECTION OF OVERLAPS AND SECURING METHODS AT 25' SPACING ALONG SEAM OR ONCE PER PIECE.	<u>/</u>		
- 1 SEAM STRENGTH TEST FOR EVERY 2500 FEET LENGTH OF SEAM.			<del></del>
. GEOTEXTILE LOCATION (APPROXIMATE)			
. REMARKS Jutal 10, 800	- TS	200	
to R line N900		<del></del>	
	· · · · · · · · · · · · · · · · · · ·	<del> </del>	
			<u></u>
		0 5 1992	
INSPECTOR And Bolls	<del>,</del>	DATE <u>//</u>	-5-92
REVIEWED BY Olly	row	_ DATE _	0/5/42

GE	OTEXTILE	SHEET INSPECTI	OF OF ON DATE	10-5
<b>1</b> , ,	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.	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.	<u>/</u>		
4.	GEOTEXTILE LOCATION (APPROXIMATE)		•	
		+3	Luc	
5.	REMARKS Frustall sew 16,2	2002	Pull	
	DIS 2 314. Sent to Mu	ureas d	Assoc,	Acr
	lot touting As per spec	<i>,</i> , , , , , , , , , , , , , , , , , ,		
		<u> </u>		
i				· ·
	OCT 0 6 1992		1	n .
	DECEMEN		J. 6	× ~~22
	INSPECTOR Children Constitution of the Constit		_ DATE _/	
	REVIEWED BY Collin Phoe	~	_ DATE /g	1792

GE(	OTEXTILE	FORM A-1 SHEET INSPECTI		, <u>'0-6-97</u>
, ,	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.	<u> </u>		
2.	PLACEMENT			
_	- SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS.	<u>/</u>		
	- FINAL IN-PLACE LOCATION OF GEOTEXTILE COMPLIES WITH CONTRACT DRAWING.	<u> </u>		
	- 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.	<u>/</u>		
4.	GEOTEXTILE LOCATION (APPROXIMATE)			
5.	REMARKS I wetall, gw occ to spees. 43, 4852 TS	ardine	accar	lun
		<del></del>		
		•=• •=•		
	OCT 0 7 1992	tio-6	95	
:	INSPECTOR		_ DATE _	
., ]	REVIEWED BY Collin P. Jakon	<u></u>	_ DATE 4	192

GE	OTEXTILE		.2 / OF / ON DATE /	0-7-92
1.	MATERIAL	ACCEPT	REJECT	N/A
	- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. (ATTACH COPY).	$\underline{\mathcal{V}}$		
	- FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE.			
2.	PLACEMENT			
	- SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS.		<del></del> ,	
	- FINAL IN-PLACE LOCATION OF GEOTEXTILE COMPLIES WITH CONTRACT DRAWING.			
	- INSTALLATION INCLUDING SEAMS, IS PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.	V		<del></del>
3.	VERIFICATION TESTING			
	- 1 INSPECTION OF OVERLAPS AND SECURING METHODS AT 25' SPACING ALONG SEAM OR ONCE PER PIECE.			<del></del>
	- 1 SEAM STRENGTH TEST FOR EVERY 2500 FEET LENGTH OF SEAM.			
4.	GEOTEXTILE LOCATION (APPROXIMATE)			
5.	REMARKS L evel B 10-12 A. w	1: 2	teclis	10.12
	7 techs 4-5 p.in; 7	7	5-7	<del></del> /
	Sudall 26, 9702 75700.	100K 7	F 5 TOWER W	
	SAMPLES DS #5 & DS & RESULTS			
1	3 \$ 4 pra- ATTATEMED.			<del></del>
	OCT 8 1992	· <del> </del>		-
	PECEWED	1.P	10-7	2-92
	INSPECTOR	-	_ DATE	
	REVIEWED BY Collin f. Show		_ DATE _/	18/92

		OF/	<u>,                                    </u>
EOTEXTILE	INSPECTI	ON DATE	0-9-92
. MATERIAL	ACCEPT	REJECT	N/A
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. (ATTACH COPY).	<del></del>		
- FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE.			_
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.		<del></del> .	
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.			
GEOTEXTILE LOCATION (APPROXIMATE)			
4/4			
REMARKS			
RESULTS OF DESTRUCTIVE S	amples		
DS #5 & DS #6 ATTAT			
·	OCTI	) 1992	
	PERE		
INSPECTOR Mb Balla		_ DATE <u>//</u>	<u>-9-92</u> _
REVIEWED BY Collin & Jakon		DATE <u>/</u>	11/92

	GE	OTEXTILE	FOR A-1 SHEET INSPECTION	ON DATE	0-10-92
	1.	MATERIAL	ACCEPT	REJECT	N/A
		- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. (ATTACH COPY).	1		
		- FREE FFOM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE.			
, <b>4</b> ° e	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.			<del></del>
3	3.	VERIFICATION TESTING			
		- 1 INSPECTION OF OVERLAPS AND SECURING METHODS AT 25' SPACING ALONG SEAM OR ONCE PER PIECE.	<u> </u>		
		- 1 SEAM STRENGTH TEST FOR EVERY 2500 FEET LENGTH OF SEAM.	<u> </u>		
4		GEOTEXTILE LOCATION (APPROXIMATE)			
-		5055 " South end to michor tra	nih to 4	inush und	er Stone
5	•	REMARKS 41,4252 top of stone laya	er from	"K" Cine	south
		to approx "C" line		<del></del>	
4.4					
				<u></u>	·
	•	30	T 1 2 1992	<u> </u>	
			ELCH SWIE		
į.	]	INSPECTOR Und Bala		DATE <u>/</u> 0	-12-92-
Ĭ k.		REVIEWED BY Collin P. Suhow		DATE <u>/0</u> /	12/92
		<b>v</b> –		•	• 1

				-
7 TILE	FORM A-1 SHEET		<u>10</u> -12 -97-	
XIILE	<del></del>	·		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.	/			
PLACEMENT	_			
- SURPACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS.	<u>/</u>			
- 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.	$\sqrt{\ }$	·		į
- 1 SEAM STRENGTH TEST FOR EVERY 2500 FEET LENGTH OF SEAM.				.··
Permany gestertile 7570	e from	w to p	remore	· ·
REMARKS Channel at youth	end .	1 cell	'	·
20,2352 75700 primary in	etelle	) <u>)                                   </u>		
	·		<del></del>	લિકાઈ ક
<b>,</b>	OCT 13	M)S) 1003		
Mr. R. A.	00		0.57	Call Land
INSPECTOR: (Im Equation )		DATE O		

G	EOTEXTILE	FORM A-12 SHEET INSPECTION		1-14-9 Z
	. MATERIAL	ACCEPT	REJECT	N/A
	- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. (ATTACH COPY).			<del></del>
	- FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE.		<del></del>	
2	PLACEMENT			
	- SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS.	<u> </u>		<del></del>
	<ul> <li>FINAL IN-PLACE LOCATION OF GEOTEXTILE COMPLIES WITH CONTRACT DRAWING.</li> </ul>	<u>/</u>		
	- 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.	<u></u>		
	- 1 SEAM STRENGTH TEST FOR EVERY 2500 FEET LENGTH OF SEAM.			
4.	Deploy 47,810 TS 700 C	:lanula	res /0.	
5.	REMARKS Live to Wiline to		25-	C C
]	4,1,00 and a lost wester	in la	(B.	testin
	10-15-92	, , ,		7
		<del>,</del>		
Í			· · · · · · · · · · · · · · · · · · ·	
]	!	OCT 1 5 1992		
		DECISIONE		
	INSPECTOR Charles		DATE 40	-14
	REVIEWED BY Colling Suhow	10/15/92	DATE 16	14-92

~ G	EOTEXTILE	SHEET OF INSPECTION DATE 6.15		
l	WARRENTAT	ACCEPT	REJECT	N/A
.1	MATERIAL - MANUFACTURER'S MILL CERTIFICATE OR			
1	AFFIDAVIT HAS BEEN PROVIDED.	<u>~</u>		
1	- FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE.	<u>/</u>		
2.	PLACEMENT			
	- SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS.			
1	- FINAL IN-PLACE LOCATION OF GEOTEXTILE COMPLIES WITH CONTRACT DRAWING.	<u> </u>		
	- 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 TS 1800 wied as a buchism	Cer iene	lerliver	
	intalled in channel from p"	6 "0" 6	ne.	
	PRODUCT = 75 /000	<del></del>		
	SF INSTALLED TODAY = 3,000 SF		<del> </del>	
	SF INSTALLED TO DATE = 3,000 SF		OOT 1 0 4000	
			OCT 1 6 1992	
	THE PERSON NO. 1 B. C.		DATE (S	- 0.000
,	REVIEWED BY		DATE <u>/ 0</u>	
£.	D. Colling hike	v 10,	116/92	

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GEOTEXTILE	FORM A-1 SHEET INSPECTI	ON DATE	16-97
1. MATERIAL	ACCEPT	REJECT	N/A
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.			•
- FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE.	<u>/</u>		
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)			
INSTALLED PRIMARY GETTEXTER IN SOU	THEAD POLT	ial of cent	
5. PERMICHS COMPLETING THE SOUTHERN SUR	eE		
PRODUCT = 75700			
SF INSTALLED TODAY = 15,500			
TS 1000 3,000 <sup>2</sup> metalled to a	late		
INSPECTOR Charles Bath		DATE _/	0-16-92
REVIEWED BY John H. Tox		DATE 10	-19-92
J. D.			

Markon Sale

		FORM A-1 SHEET	/ OF	
GEC	DTEXTILE	INSPECTI	ON DATE /6	·-17-92
1.	MATERIAL	ACCEPT	REJECT	N/A
.1	- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.	/		
· I	- FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE.			
2.	PLACEMENT			
	- SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS.		<del></del> ,	
	- FINAL IN-PLACE LOCATION OF GEOTEXTILE COMPLIES WITH CONTRACT DRAWING.	<u>/</u>	***	,
	- INSTALLATION INCLUDING SEAMS, IS PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.	<u>/</u>	<del></del> ,	
3.	VERIFICATION TESTING			
	- 1 INSPECTION OF OVERLAPS AND SECURING METHODS AT 25' SPACING ALONG SEAM OR ONCE PER PIECE.	<u> </u>		
	- 1 SEAM STRENGTH TEST FOR EVERY 2500 FEET LENGTH OF SEAM.			
4. (	GEOTEXTILE LOCATION (APPROXIMATE)			
5. F	REMARKS			
_	PRODUCT = TS 700 primare			
_	SF INSTALLED TODAY = 65, 418			<del></del>
	SF INSTALLED TO DATE = 455, 820			
	J. D.			
· II	NSPECTOR Sant	<del></del>	DATE /O-	19-92
RI	EVIEWED BY John H. Fox		DATE /6	19-92

FORM A-12 19,215 GEOTEXTILE INSPECTION DATE 10-12-92 ACCEPT REJECT N/A MATERIAL - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. - FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE. PLACEMENT 2. - 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. GEOTEXTILE LOCATION (APPROXIMATE) EAST SINE OF STIR REMARKS \_\_\_ PRODUCT = TS 700 SF INSTALLED TODAY = 23.340 SF INSTALLED TO DATE = 155,820 DATE 10-19-92-DATE 10-20-92 REVIEWED BY

GEOTEXTILE	FORM A-1 SHEET INSPECTION	₹	1 1-20-92
	ACCEPT		
. MATERIAL	ACCEPT	REJECT	N/A
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.	<u> </u>		
- FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE.		-	
2. PLACEMENT			
- SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS.	<u>~</u>		
- 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.			<del></del>
4. GEOTEXTILE LOCATION (APPROXIMATE)	10'	N. of K	leve to
5. REMARKS Changel			
PRODUCT = 93 700			
SF INSTALLED TODAY = 15002 premary	<del></del>		
SF INSTALLED TO DATE = 480,660			<del></del>
f. p. 10-92			
INSPECTOR Chino Ball	<b>&gt;</b>	DATE 10	20-92
PEUTEWED BY In I for Steph	te.	DATE /0-	-21-92

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GEOTEXTILE	FORM A-12 SHEET INSPECTIO	/_ OF	0-24-92
MATERIAL	ACCEPT	REJECT	N/A
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.	<u> </u>		
- FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE.	~		
2. PLACEMENT	/		
- SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS.	<u>i/</u>	<del></del> .	
- FINAL IN-PLACE LOCATION OF GEOTEXTILE COMPLIES WITH CONTRACT DRAWING.			·
- INSTALLATION INCLUDING SEAMS, IS PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.	<u>/</u>	<del></del> .	
3. VERIFICATION TESTING			
- 1 INSPECTION OF OVERLAPS AND SECURING METHODS AT 25' SPACING ALONG SEAM OR ONCE PER PIECE.	<u> </u>		
- 1 SEAM STRENGTH TEST FOR EVERY 2500 FEET LENGTH OF SEAM.			
4. GEOTEXTILE LOCATION (APPROXIMATE)			
5. REMARKS			
PRODUCT = TS 700 prom Secon	ularez		
SF INSTALLED TODAY = 13500			
SF INSTALLED TO DATE = 8 7 5 4 CO	da 49	2,660	
INSPECTOR Amb Bat		DATE 10	-21-97
REVIEWED BY John & Fox LeoSyntic		DATE /0	27-92

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GEOTEXTILE	FORM A- SHEET _ INSPECT		0-76-92
GLOTEATINE			
MATERIAL	ACCEPT	REJECT	N/A
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.		————	
- FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE.	<u>~</u>	*****	
2. PLACEMENT			
- SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS.	<u></u>		
- FINAL IN-PLACE LOCATION OF GEOTEXTILE COMPLIES WITH CONTRACT DRAWING.	<u> </u>		
- INSTALLATION INCLUDING SEAMS, IS PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.	/	<del></del> ,	<del></del>
3. VERIFICATION TESTING			
- 1 INSPECTION OF OVERLAPS AND SECURING METHODS AT 25' SPACING ALONG SEAM OR ONCE PER PIECE.	Samples	70 .32 74	eed_
- 1 SEAM STRENGTH TEST FOR EVERY 2500 FEET LENGTH OF SEAM.	NA		
4. GEOTEXTILE LOCATION (APPROXIMATE)  to T line at east eval			
5. REMARKS			<del></del>
PRODUCT = TS 700			
SF INSTALLED TODAY = 13, 905 skandar	<del>y</del>		
SF INSTALLED TO DATE = 508,065	<del></del>		
INSPECTOR MAN Sales		DATE _A:	26-92
REVIEWED BY John & tox Geolynte	)	DATE /0	27-92

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GEOTEXTILE	FORM A-12 SHEET INSPECTIO	OF (	0-27-92
MATERIAL	ACCEPT	REJECT	N/A
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.			
- FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE.	1		
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.		<del></del>	
- 1 SEAM STRENGTH TEST FOR EVERY 2500 FEET LENGTH OF SEAM.			
4. GEOTEXTILE LOCATION (APPROXIMATE)			
5. REMARKS			
PRODUCT = TS 700 20, 057	12,510 p	umare;	7557 sleavel
SF INSTALLED TODAY = 20,057 YS 700	, 2000 -	151000	
SF INSTALLED TO DATE = 528, 122	<i>'</i>		
INSPECTOR	. )	DATE <u>/0</u> -	

2.8.00-27-92

ro.	PEXTILE	FORM A-12 SHEET INSPECTIO	OF /	-28-92
1.	MATERIAL	ACCEPT	REJECT	N/A
.1	- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.	/		
1	- FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE.	V		
2.	PLACEMENT			
.	- SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS.	V	<del></del> .	
-	- FINAL IN-PLACE LOCATION OF GEOTEXTILE COMPLIES WITH CONTRACT DRAWING.	<u> </u>		
-	INSTALLATION INCLUDING SEAMS, IS PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.			
- v	ERIFICATION 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.			<del></del>
4. G	EOTEXTILE LOCATION (APPROXIMATE)			
	P. E Sule V Cur			
5. RI	MARKS SMOOTHES RUT IN CAS VENT	STONE_	ts 150	<del>-</del>
	RENVEST BY GEOSYNEE		<del> </del>	
	PRODUCT = : 75 700			
	SF INSTALLED TODAY = 9225			
, 	SF INSTALLED TO DATE = 537 35/			
	. , , , , , , , , , , , , , , , , , , ,			1
r	10-28-92 f.p.			
IN	SPECTOR MAD STATE	<del></del>	DATE 2	28-92
RE	VIEWED BY John & Tox 10-2	9-92	DATE <u>/0-</u>	29-92

ც	EOTEXTILE	FORM A-1 SHEET INSPECTI	·	-29-82
	. MATERIAL	ACCEPT	REJECT	N/A
! !	- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.	<u> </u>	<del></del>	
1	- FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE.	<u> </u>		
2.	PLACEMENT			
	- SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS.	<u> </u>		
	- FINAL IN-PLACE LOCATION OF GEOTEXTILE COMPLIES WITH CONTRACT DRAWING.	V		
	- 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.	<u> </u>		
4.	GEOTEXTILE LOCATION (APPROXIMATE) To stave startificate	·	······	
5.	REMARKS None	· 		
	PRODUCT = 73 700			<del></del>
	SF INSTALLED TODAY = 77 420 fruman	7 wil 5, 400	second	(4vy
_	SF INSTALLED TO DATE = 6/4, 77/2			
	INSPECTOR (Int Back)	<b>L</b> ,	DATE <u>10</u>	-2 <b>9-9</b> 2
	REVIEWED BY JOHN H. Fox Go	ynter)	DATE /6-	
		/		

OTEXTILE		OF OF	10-30-52	<b>-</b>
	ACCEPT	REJECT	N/A	
1. MATERIAL				
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.	<u> </u>			
- FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE.		<del></del>		
2. PLACEMENT				
- SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS.	<u>/</u>			
- 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)				
NORTH END SELONDARY	9 PRIMA	<i>y</i>		
5. REMARKS NONE				
RESULTS OF GEOTEXTILE SELD ST	NOVETH TEST RES	SULTS ATMETER	Es Forma 7	-/3
PRODUCT = : /s 700				
	002 Minnay	2355-	Seconoses	
SF INSTALLED TO DATE = 647/26			/	
11-1-92 Jan.				
·				
INSPECTOR China Bar		DATE //-	2-92	
REVIEWED BY John A. Too (Sept	antes)	DATE //-	2-92	

- TOTEXTI	LE	FORM A-12 SHEET / OF / INSPECTION DATE /0		
1. MATE	RIAL	ACCEPT	REJECT	И/А
	MUFACTURER'S MILL CERTIFICATE OR FIDAVIT HAS BEEN PROVIDED.			
	EE FROM DEFECTS, RIPS, HOLES, WS, DETERIORATION OR DAMAGE.			
2. PLACE	MENT			
	FACES TO RECEIVE GEOTEXTILE FREE OF DEBRIS.	<u>/</u>	<del></del> ,	
GEO	AL IN-PLACE LOCATION OF TEXTILE COMPLIES WITH CONTRACT WING.			
IS I	TALLATION INCLUDING SEAMS, PERFORMED IN ACCORDANCE WITH UFACTURER'S RECOMMENDATION.			
3. VERIF	CATION TESTING			
SECU	ISPECTION OF OVERLAPS AND FRING METHODS AT 25' SPACING IG SEAM OR ONCE PER PIECE.		<del></del>	
	CAM STRENGTH TEST FOR EVERY FEET LENGTH OF SEAM.			
4. GEOTEX	TILE LOCATION (APPROXIMATE)			
·	N END SCIONDARY		<del></del>	<del></del>
5. REMARK	S NONE			
PRODU	M = 175 700			
SF INS	STALLED TODAY = 4500 2		<del></del>	
SF INS	STALLED TO DATE = 151,06			
Inspect	FOR MAN BOTTON	, )	DATE //-	-2-92_
REVIEWE	D BY John & The Longon	te	DATE //-	·2-92

FORM A-12 SHEET \_\_\_/\_ OF / INSPECTION DATE //-/- 92 OTEXTILE ACCEPT REJECT N/A 1. MATERIAL - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. - FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE. 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. GEOTEXTILE LOCATION (APPROXIMATE) CHANNEL REMARKS & RUD SHEET IN NUMBER CHANNEL PRODUCT = -73 1000 SF INSTALLED TODAY = 1000 SF SF INSTALLED TO DATE = 12500 SF

REVIEWED BY

DATE 1-2-92

DATE //-2-92

FOTEXTILE	FORM A-12 SHEET / OF INSPECTION DATE /(-4-97		
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. PLACEMENT			
- SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS.			<del></del>
- 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.	wr-		
- 1 SEAM STRENGTH TEST FOR EVERY 2500 FEET LENGTH OF SEAM.			
4. GEOTEXTILE LOCATION (APPROXIMATE)			
Norm SLOPE UP TO X"LINE \$	EAST IF O	ls 900	
5. REMARKS Nove	·		
PRODUCT = 18,000 TS 700	s econd	wy	· · ·
SF INSTALLED TODAY = 18,000 \( \frac{1}{2} \)	Ann	5 1992	
SF INSTALLED TO DATE = 334, 902 2	7		<del></del>
11-4-92 J.A.			
INSPECTOR TO THE STATE OF THE S	<del></del>	DATE <u>//-</u>	
REVIEWED BY John L. top ( Deoly	rte)	DATE //-	<u>5-92</u>

	SHEET (	OF (	11-5-82
الله الله الله الله الله الله الله الله	ACCEPT	REJECT	N/A
	<i>~</i>		
		<del></del> .	
IN ACCORDANCE WITH		<del></del> .	
STING			
ODS AT 25' SPACING	<u> </u>		
	wt.		
n .1			
~	·		
700			
	Emberg		
7 -			
11-5-92 J. D.  1/25-92 J. D.  2/25-92  olivitos)	DATE //-		
	'S MILL CERTIFICATE OR S BEEN PROVIDED.  FECTS, RIPS, HOLES, IORATION OR DAMAGE.  RECEIVE GEOTEXTILE DEBRIS.  RE LOCATION OF MPLIES WITH CONTRACT  INCLUDING SEAMS, IN ACCORDANCE WITH S RECOMMENDATION.  STING  OF OVERLAPS AND ODS AT 25' SPACING ONCE PER PIECE.  PH TEST FOR EVERY STH OF SEAM.  FION (APPROXIMATE) SUBJECT  TO THE SEAM OF SEAM OF SEAM OF SEAM.  FION (APPROXIMATE) SUBJECT  TO THE SEAM OF SEAM OF SEAM OF SEAM OF SEAM.  FION (APPROXIMATE) SUBJECT  TO THE SEAM OF SE	ACCEPT  'S MILL CERTIFICATE OR S BEEN PROVIDED.  FECTS, RIPS, HOLES, TORATION OR DAMAGE.  RECEIVE GEOTEXTILE DEBRIS.  RELOCATION OF MPLIES WITH CONTRACT  INCLUDING SEAMS, IN ACCORDANCE WITH S RECOMMENDATION.  STING  OF OVERLAPS AND ODS AT 25' SPACING ONCE PER PIECE.  TH TEST FOR EVERY STH OF SEAM.  FION (APPROXIMATE) SUBJECT  FOR  TORE  TORE  TORE  ACCEPT   ACCEPT REJECT  ACCEPT REJECT  S MILL CERTIFICATE OR S BEEN PROVIDED.  FECTS, RIPS, HOLES, FORATION OR DAMAGE.  RECEIVE GEOTEXTILE DEBRIS.  RE LOCATION OF IMPLIES WITH CONTRACT  INCLUDING SEAMS, IN ACCORDANCE WITH S RECOMMENDATION.  STING  OF OVERLAPS AND ODDS AT 25' SPACING ONCE PER PIECE.  FIF TEST FOR EVERY STH OF SEAM.  FION (APPROXIMATE)  SUBJUCTE  FOR EVERY  FIOR (APPROXIMATE)  SUBJUCTE  FOR EVERY	

## NOV 547 1992

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FORM A-12 SHEET / OF / INSPECTION DATE //-6-92

TOTEXTILE	الله الله الله الله الله الله الله الله	INSPECTI	ON DATE Z	1-6-92
1. MATERIAL		ACCEPT	REJECT	N/A
	S MILL CERTIFICATE OR BEEN PROVIDED.	~		
	ECTS, RIPS, HOLES, DRATION OR DAMAGE.			
. PLACEMENT				
- SURFACES TO RE ARE FREE OF DE	CEIVE GEOTEXTILE			
- FINAL IN-PLACE GEOTEXTILE COM DRAWING,	LOCATION OF PLIES WITH CONTRACT			
	NCLUDING SEAMS, N ACCORDANCE WITH RECOMMENDATION.			
VERIFICATION TES	ring			
- 1 inspection of securing method along seam or c	OS AT 25' SPACING			
- 1 SEAM STRENGTE 2500 FEET LENGT				
GEOTEXTILE LOCATI	ON (APPROXIMATE)			
NORTHEAST CONER	EAST OF 0/5 900 \$ 00	V CENTER OF CE	24 UP 70 A	AK F
REMARKS	· · · · · · · · · · · · · · · · · · ·	·		
PRODUCT =	TS 700			
SF INSTALLED TODAY	= 64,000 SF			
SF INSTALLED TO DATE	s = 7.39.746 SE (	406, 641 SF 3.	33,105# MAJEN)	
	,	7		
1	1 B.T.			4
INSPECTOR	Wat I d I I		DATE //	
REVIEWED BY	mid 10x Worlet	E. /	DATE // /	0-92

## NOV = 8 1992

2.7.
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FORM A-12		,
SHEET/_	OF _	<u>/</u>
INSPECTION	DATE	11-7-92

	TEXTILE	20 J. T. U	Inspecti	ON DATE /	1-7-92
1.	MATERIAL		ACCEPT	REJECT	N/A
1		ER'S MILL CERTIFICATE OR HAS BEEN PROVIDED.			
		DEFECTS, RIPS, HOLES, ERIORATION OR DAMAGE.			
2.	PLACEMENT				
	- SURFACES TO ARE FREE O	O RECEIVE GEOTEXTILE F DEBRIS.			
		LACE LOCATION OF COMPLIES WITH CONTRACT		<del></del>	
	IS PERFORM	ON INCLUDING SEAMS, ED IN ACCORDANCE WITH ER'S RECOMMENDATION.	<u></u>		
7	VERIFICATION	TESTING			
	SECURING ME	N OF OVERLAPS AND THODS AT 25' SPACING OR ONCE PER PIECE.			
		NGTH TEST FOR EVERY ENGTH OF SEAM.			
4.	GEOTEXTILE LO	CATION (APPROXIMATE)			
	Moron SLOPE	RETUREN 0/5 750 f ds 900;	BETWEEN "X"	CALD & FOLE	of STINE
5.	REMARKS	TEXTUE WAS OVERLAPPED 2	" WITH PREVIOU	SY PLACED	<u>CENTENT</u> UL
	BECAUSE IT IN	TS FROZEN & COULD NOT BE	STITEMED. DI	K'D W/R. No.	NTA.
	PRODUCT = 5	ECONDAMY TS 700			
	SF INSTALLED TO	DAY = 24,750 SF		·	
	SF INSTALLED TO	DATE = 764,496 SF	431,391 5F SECONDARY +	333, 105 5F )	
		·		,	
	Inspector	And Fail 0 4 0 1		_ DATE _//	7-92

-	FORM A- SHEET		/
TOTEXTILE		ION DATE _	11-11-92
1. MATERIAL	ACCEPT	REJECT	N/A
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.	<u> </u>		
- FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE.	<u></u>		
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.	V		
· 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)	•		1
north end (ELA PR	warcy	Second	any
5. REMARKS DEPLOYED ON WEST SIDE OF	Variation 10	<u>or-</u>	
PRODUKTI = TS 700			<del></del>
SF INSTALLED TODAY = +77397 /5.18	0 SE QA	m 11-11.	12-
SF INSTALLED TO DATE = 779, 676 of 446	57/57 +	Primary	_)
		CEWE 2. 7.	
INSPECTOR A TO He don't	NOV		11-92
REVIEWED BY John & Tot Deoryou	<i>ر</i> ت	DATE <u>//-</u>	<u> </u>

TOTEXTILE		OF /	
1. MATERIAL	ACCEPT	REJECT	N/A
- MANUFACTURER'S HILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.	_		
- FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE.			<del></del> .
2. PLACEMENT			
- SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS.			
- FINAL IN-PLACE LOCATION OF GEOTEXTILE COMPLIES WITH CONTRACT PRAWING,		-	
- 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)			
BETWEEN PEARS 3 \$ 4			
5. REMARKS PLACED PAINAM TO 700 AT	ACOVE (	LOCATIONS	
WITH APPROVAN & J. FOX			
PRODUCT = \$ TS 700 (PRIMARY)		<del></del>	
SF INSTALLED TODAY = 99,900 SF			
SF INSTALLED TO DATE = 879,576 SF			
	DECEN		
INSPECTOR Balance	NOV 1 6	1992 DATE <u>1/-</u> /	6-92
REVIEWED BY		DATE	

•

SHEET OF / INSPECTION DATE //-/7-92 GEOTEXTILE ACCEPT REJECT II/hMATERIAL - MANUFACTURERIS MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. - FREE FROM DEFECTS, RIPS, HOLES, FLAMS, DETERIORATION OR DAMAGE. PLACEMENT - SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS. - PINAL IN\*PLACE LOCATION OF GEOTEXTILE COMPLIES WITH CONTRACT PRAWING. - INSTALLATION INCLUDING SEAMS, IS PERFORMED IN ACCORDANCE WITH MANUFACTURERIS RECOMMENDATION. VERIFICATION TESTING - 1: INSPECTION OF OVERLAPS AND SECURING METHODS AT 25' SPACING ALONG BEAN OR ONCE PER PIECE. - 1 SEAN: STRENGTH TEST FOR EVERY 2500 FEET LENGTH OF SEAM. GEOTEXTILE LOCATION (APPROXIMATE) SECONDARY TSTU NORTH REMARKS PRODUCTO = TS 700 SECOURM SP INSTALLED TODAY = 33000 SF SP-INSTALLED TO DATE = 9/2,576 SF Inspector DATE //-/72 DATE 11-18-92 REVIEWED BY

FORM A-12

GEOTEXTILE		/ OF / ON DATE /	
1. MATERIAL	ACCEPT	REJECT	H/A
- HANUFACTURERIS MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.			
- FREE FROM DEFECTS, RIPS, HOLES, FLAMS, DETERIORATION OR DAMAGE.	<u> </u>	paragraph of the party of the party of	
2. PLACEMENT	•		
- SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF PEBRIS.		graphen a so-stan	
- PINAL IN-PLACE LOCATION OF GEOTEXTILE COMPLIES WITH CONTRACT PRAWING.			
- Installation including seams, is performed in accordance with Manufacturer's recommendation.		<u></u>	AT
VERIFICATION TESTING			
- 1 INSPECTION OF OVERLAPS AND SECURING METHODS AT 25' SPACING ALONG SPAM OR ONCE PER PIECE.			
- 1 SEAM STRENGTH TEST FOR EVERY 2500 FEET LENGTH OF SEAM.		ghan amusik skruderk	· · · · · · · · · · · · · · · · · · ·
4. GEOTEXTILE LOCATION (APPROXIMATE)  PLACED SECONDARY GEOTEXTILE AN	l Almora Cone	Are ARRADICE	n ev
NOTE OF THE PARTY		for of CERTY	witer
5. REMARKS 14574450 BOTH 73 700 \$ 73 100	,		
Maria Maria	BY R. WONTH		
in their terms		7	
The second secon	<u>5 1000-3</u> 0005	<u> </u>	Am 1/18
SF-INSTALLED TO DATE = 15.500\$ 15 Aug 9	16,176 75700	HOY	100
	Ī,	(.7.	1 9 1992
INSPECTOR		DATE <u>//-/8</u>	-92
REVIEWED BY Show N. Fr Godinto	)	DATE //-19	-93

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-		<b>MV 2</b> 1 1992.	FORM A-1	2 of	,
	GEOTEXTILE	BECENEU			11-20-92
Γ	· Wimporir	M 7ED III	ACCEPT	REJECT	N/A
1	1. MATERIAL		_		
. <b>.</b> 	- MAHUPACTURERIS AFPIDAVIT HAS B	MILL CERTIFICATE OF EEN PROVIDED.			
1	- FREE FROM DEFEC FLAMS, DETERIOR	TS, RIPS, HOLES, ATION OR DAMAGE.			
1 :	2. Placement		,		
1	- Surfaces to reci are pree of pebi				
1	- Final in-Place i Geotextile Compi Drawing,	OCATION OF JES WITH CONTRACT			
	- Installation inc is performed in Manufacturer is r	ACCORDANCE WITH			***
	. Verification testi	<b>1</b> G			
	- 1 inspection of c securing methods along span or one	AT 25' SPACING			
	- 1 SEAN STRENGTH T 2500 PEET LENGTH				
4.	GEOTEXTILE LOCATION	(APPROXIMATE)	,		
	TS 700 10800		PRIMARY		
5.	REMARKS TS 1000	3000 NORTH	Chena all	~	
	Youte R	, Bijvirld	- Ar	m/ 11-	0
	PRODUCT = 75 700	1 73 1000			
	SE INSTALLED TODAY =	TS.700 108002	73 /000 3000	<b>3</b>	
	SP INSTALLED TO DATE =	9269762 75700	- TS 10	v	
			19,700		
			•		
		, ,			
	INSPECTOR	may Bay		DATE //	20-92
	REVIEWED BY	then brances		DATE //	2//92
	<i>V</i>				1

GEOTEXTILE NOV 2 2 1992		.2 / OF ON DATE _	1-21
1. HATERIAL	ACCEPT	REJECT	H/A
- MANUFACTURERIS HILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED.			-
- FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE.			and a second
2. PLACEMENT			
- SURFACES TO RECEIVE GEOTEXTILE ARE PREE OF DEBRIS.			
- FINAL IN-PLACE LOCATION OF GEOTEXTILE COMPLIES WITH CONTRACT PRANTING,		<del></del>	
- INSTALLATION INCLUDING SEAMS, IS PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION,			
J. VERIFICATION TESTING			
- 1 Inspection of Overlaps and securing methods at 25' spacing along span or once per piece.		ation administration a	
- 1 SEAN STRENGTH TEST FOR EVERY 2500 FEET LENGTH OF SEAM.			
4. GEOTEXTILE LOCATION (APPROXIMATE)			
NonTHUEST Comes of Site of June	+ SLOPE		
5. REMARKS SECONDAY COTEXTILE LAYER C	ompletto -	TOWN	
PRODUCTO = : 75 700 93,150 Primary 7	· (/02/2 / () -		
SP INSTALLED TODAY = //0,250° 75700 #	5/000 15/2 15/20		00
SF-INSTALLED TO DATE = 1,037,224 SF (757	·		
	,	· ·	
INSPECTOR Chino Bate		DATE _//-	,
REVIEWED BY Jonethan Drometos		DATE ///SI	192

OTEXTILE	050 0 1 1992 PECEWE	FORM A-1 SHEET INSPECTI	_	- 92
1. MATERIAL	323	ACCEPT	REJECT	N/A
- HANUFACTURER	S MILL CERTIFICATE OR BEEN PROVIDED.			<u> </u>
- FREE FROM DEFI	ECTS, RIPS, HOLES, DRATION OR DAMAGE.			<u></u>
2. PLACEMENT			•	
- SURFACES TO RE ARE FREE OF DE	CCEIVE GEOTEXTILE			
- FINAL IN-PLACE GEOTEXTILE COM DRAWING.	LOCATION OF PLIES WITH CONTRACT	******		_
	NCLUDING SEAMS, N ACCORDANCE WITH RECOMMENDATION.			
VERIFICATION TEST	ring		,	,
- 1 INSPECTION OF SECURING METHOR ALONG SEAM OR O	OS AT 25' SPACING			_
- 1 SEAM STRENGTE 2500 FEET LENGT				
4. GEOTEXTILE LOCATI	ON (APPROXIMATE)			
	- No GEOTEXTILE PLACE	700H		
5. REMARKS	RESULTS OF DESTRUC	TIVE TESTS	14-19 me	
ATTAIC	420.			
PRODUCT = 73 7	90			
SF INSTALLED TODAY	= 0			
•	E = 1,037,226 sf			
		·		
INSPECTOR	nathan Brandes		DATE 12/1/9	22

- G	EOTEXTILE	050 0 2 1992 1980:1987				
	. MATERIAL	IL ZER III	ACCEPT	REJECT	N/A	
1	- MANUFACTURER'S MI AFFIDAVIT HAS BEE					
1	- FREE FROM DEFECTS FLAWS, DETERIORAT					
2.	PLACEMENT					
	- SURFACES TO RECEIV			<del></del> .		
	- FINAL IN-PLACE LOC GEOTEXTILE COMPLIE DRAWING.				-	
	- INSTALLATION INCLU IS PERFORMED IN AC MANUFACTURER'S REC	CORDANCE WITH				
3.	VERIFICATION TESTING					
	- 1 INSPECTION OF OVE SECURING METHODS AS ALONG SEAM OR ONCE	T 25' SPACING				
	- 1 SEAM STRENGTH TE 2500 FEET LENGTH O			<del></del>		
4.	GEOTEXTILE LOCATION	(APPROXIMATE)				
5.	REMARKS NONE					
2/	PRODUCT = 75 1000 \$	75 700				
) r .	SF INSTALLED TODAY =	32,400 sel	73 700 5400 SF +	27000 SF		
	SF INSTALLED TO DATE =	1,087,826				
	INSPECTOR	Brander		DATE <u>/2</u>	-1-12-	
				•	7	

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GEOTEXTILE	<u> </u>		ON DATE	12/2/92
. MATERIAL	JE8	ACCEPT	REJECT	N/A
- MANUFACTURER'S MILL CE AFFIDAVIT HAS BEEN PRO				
- FREE FROM DEFECTS, RIP FLAWS, DETERIORATION O	S, HOLES, R DAMAGE.			
2. PLACEMENT		•		,
- SURFACES TO RECEIVE GEO ARE FREE OF DEBRIS.	OTEXTILE			
- FINAL IN-PLACE LOCATION GEOTEXTILE COMPLIES WIT DRAWING.				
- INSTALLATION INCLUDING IS PERFORMED IN ACCORDA MANUFACTURER'S RECOMMEN	LNCE WITH	$\sqrt{}$	<del></del> .	
3. VERIFICATION TESTING				
- 1 INSPECTION OF OVERLAP SECURING METHODS AT 25 ALONG SEAM OR ONCE PER	SPACING			
- 1 SEAM STRENGTH TEST FOR 2500 FEET LENGTH OF SEAM			-	
4. GEOTEXTILE LOCATION (APPRO	OXIMATE)			
5. REMARKS /NSTAWING 75100	0 AS MIMAY C	EOTEYTILA	- OVERLAP	ONTA
NOT STITESTING MATE	SAIM - REGULTS	of pesnocti		
PRODUCT = 73 Love			A17	THEHED
SF INSTALLED TODAY = 21	000 3F			
SF INSTALLED TO DATE = (DE	1,103,426 5	£		
			. *	
	·			
INSPECTOR	A face		DATE <u>/2-</u> 2	2-92
REVIEWED BY fortham	Srandes )		DATE 17/3	192

FORM A-12

GEC	OTEXTILE	DEC 0 4 1992	FORM A-12 SHEET INSPECTIO	OF/	12/3/92
,	MATERIAL	لقار المال	ACCEPT	REJECT	N/A
1	- MANUFACTUPER'S MI AFFIDAVIT HAS BEEN				
,	- FREE FROM DEFECTS, FLAWS, DETERIORATI				<del></del>
2.	PLACEMENT				
	- SURFACES TO RECEIV				
	- FINAL IN-PLACE LOC GEOTEXTILE COMPLIE DRAWING.		$\sqrt{}$		
	- INSTALLATION INCLU IS PERFORMED IN AC MANUFACTURER'S REC	CORDANCE WITH		<del></del> .	
3.	VERIFICATION TESTING				
 	- 1 INSPECTION OF OVE SECURING METHODS AS ALONG SEAM OR ONCE	r 25' spacing	$\sqrt{}$		
	- 1 SEAM STRENGTH TES 2500 FEET LENGTH OF				
4. (	GEOTEXTILE LOCATION (	(APPROXIMATE)			
_	Nontres	CONTEN	<del></del>	<del></del>	
5. F	REMARKS /NSTALLA	x 75 1000 AS	PMMANY GO	TEXTUS.	<u></u>
-	Aneg Pr	exicuscy AMOUNTED	BY OPEYNTER		
	PRODUCT = 73 1000		<u> </u>		
SC	SF INSTALLED TODAY =	7,500 st	<del>,</del>	<del></del>	
<i>-</i>	SF INSTALLED TO DATE =	1098,126 SF \$			
,	NSPECTOR	han Brancle	<u> </u>	DATE /2	4/92
			<del>-</del> <del></del>	,	'

- G1	EOTEXTILE	DEC 0 7 1992	FORM A-1: SHEET INSPECTION	OF / ON DATE /	12/4/92
<u> </u>		M ZER III	ACCEPT	REJECT	N/A
٠.	. MATERIAL				
1		S MILL CERTIFICATE OR BEEN PROVIDED.	$\checkmark$		
i		ECTS, RIPS, HOLES, PRATION OR DAMAGE.	$\checkmark$		
2.	PLACEMENT			•	
	- SURFACES TO RE ARE FREE OF DE	CEIVE GEOTEXTILE	$\checkmark$		
1	- FINAL IN-PLACE GEOTEXTILE COM DRAWING.	LOCATION OF PLIES WITH CONTRACT	$\checkmark$		
		NCLUDING SEAMS, N ACCORDANCE WITH RECOMMENDATION.	$\checkmark$		
3.	VERIFICATION TEST	ring			
•	- 1 INSPECTION OF SECURING METHOR ALONG SEAM OR O	DS AT 25' SPACING	$\checkmark$		
	- 1 SEAM STRENGTH 2500 FEET LENGT				
4.	GEOTEXTILE LOCATI	ON (APPROXIMATE)			
	Norma	or conver, Non	NONTHER	HAUL BOAL	MOCEM.
5.	REMARKSCOMPL	ETED MINARY GOOTES	TILE TOOK	NSINK	
i i	731000	, OVERLAPPED NOT	STITCHED		
	PRODUCT = 75 /6	200			
	SF INSTALLED TODAY	= 27,000 SF			
	SF INSTALLED TO DAT	E = /, /+3,326 sf *	+ confer	SD DOM	2-9
			<u> ~T=+4+</u>		
1	INSPECTOR	mo Bat		DATE Z	-7-92
	REVIEWED BY	other Granelos		DATE 12	792

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JUN 0 2 1993

FORM A-12
SHEET OF S-27-9

GEOTEXTILE		(18)N	INSPECTION	DATE _	2 - 2 1-1
1. HATERIAL	JEA		ACCEPT	REJECT	H/A
	URER'S MILL CERTIFI T HAS BEEN PROVIDED				
				<del></del>	·
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2. FLACEMENT					•
	TO RECEIVE GEOTEXTI	LE -			
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IS PERFOR	ION INCLUDING SEAMS MED IN ACCORDANCE WI RER'S RECOMMENDATION	TH	<u> </u>	·	
3. VERIFICATION	TESTING				
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	ENGTH TEST FOR EVER LENGTH OF SEAM.	¥		<del></del>	
4. GEOTEXTILE L	OCATION (APPROXIMAT	E)			
5. REMARKS					
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INSPECTOR C	a Martin.			DATE 6-	1-93
REVIEWED BY	Another Rom	nolos		DATE 6/2	100

GEOTEXTILE	JUN 0 2 1993	FORM A-1 SHEET INSPECTI	OF	5-28-43
	JEB)	ACCEPT	REJECT	N/A
1. MATERIAL		nocer i	raid LC1	N/ K
- HANUFACTURER'S MI AFFIDAVIT HAS BEE		<u> </u>	****	;·
- FREE FROM DEFECTS	, RIPS, HOLES, TION OR DAMAGE.		-	
2. PLACEMENT				
- GURFACES TO RECEI			<del></del> .	******
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- INSTALLATION INCLU IS PERFORMED IN AC MANUFACTURER'S REC	CORDANCE WITH			,
J. VERIFICATION TESTING				
- 1 INSPECTION OF OVE SECURING METHODS AS ALONG SEAM OR ONCE	T 25' SPACING			
- 1 SEAM STRENGTH TES 2500 FEET LENGTH OF				
4. GEOTEXTILE LOCATION (	APPROXIMATE)			
5. REMARKS				
PRODUCT = . 75 1000	& Channels on	CELA		
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INSPECTOR Ja Ma	tu'		DATE _6	1-93
REVIEWED BY frutha	n Kraneles		DATE S/2	193

(	TEXTILE	JUN 0 5 1997	FORM A SHEET INSPECTI	12 OF DATES	6136
	IFATIO	ACTES N			7 7 7 7 7 7
1	MATERIAL		ACCEPT	reject	H/A
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	- FREE FROM DEFECTS, I				
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Ų	FRIFICATION TESTING				, , , , , , , , ,
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_ /IF	OTEXTILE LOCATION (API	PROXIMATE)			
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	JUN 0 5 1993	FORM A-1	2. 47.	Add Adda.
•	PECEWEN	SHEET	Of	
( TEXTILE	(7£R)	Inspecti	ON* DATE OF	
		ACCEPT	REJECT	
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	ER'S HILL CERTIFICATE OR			和智慧以
AFFIDAVIT	HAS BEEN PROVIDED.		13.2	
- FREE FRON I	DEFECTS, RIPS, HOLES,		4	
FTAWS, DETE	ERIORATION OR DAMAGE.		200	
2. FUACEMENT				
~ SURFACES TO	RECEIVE GEOTEXTILE			
ARE FREE OF		<u> </u>	· · · · · · · · · · · · · · · · · · ·	
I PIAL THEPL	ACE LOCATION OF		C.	
GEOTEXTILE	COMPLIES WITH CONTRACT	1		
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	I INCLUDING SEAMS,			
	O IN ACCORDANCE WITH			
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	OF OVERLAPS AND			
	HODS AT 25' SPACING R ONCE PER PIECE.			
	GTH TEST FOR EVERY NGTH OF SEAM.	$\nu$		
4. GEOTEXTILE LOCA	ATION (APPROXINATE)			
EasT PRI	mary Channel			
5. PEMARKS				
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· TEXTIFIE	JUN 0 5 1993	FORM A-12 SHEET / INSPECTIO	OF/	7323
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- HANUFACTURER'S H AFFIDAVIT HAS BE	ILL CERTIFICATE OR EN PROVIDED.			1
- FREE FROM DEFECT:				
2. PUACEMENT				
- SURFACES TO RECEI		<u> </u>	············.	
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4. OPPOSENTIAL LOCATION	(APPROXIMATE)			and the second
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MH 0 5 1993	FORM A- SHEET INSPECTI	or	
AL ALEMAN	ACCEPT	Reject	
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- FREE FROM DEFECTS, RIPS, HOLES, PLANS, DETERIORATION OR DAMAGE.	<u> </u>	ر د در در همین در در در در در در در در در در در در در	
2. PLACEMENT			
- SURFACES TO RECEIVE GEOTEXTILE	<u> </u>		
GEOTEXTILE COMPLIES WITH CONTRACT DRAWING.	V	alianolia (	
- INSTALLATION INCLUDING SEAMS, IS PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.			
VERIFICATION TESTING			
- I INSPECTION OF OVERLAPS AND SECURING HETHODS AT 25' SPACING ALONG SEAH OR ONCE PER PIECE.	<u>/</u>		
- 1 SEAM STRENGTH TEST FOR EVERY 2500 FEET LENGTH OF SEAM.	<u> </u>		
4. GEOTEXTILE LOCATION (APPROXIMATE)			
WEST PRIMARY Channel			
5. DOMADES			
FRODUCE - TS-1000	116/4	Sec.	
SF INSTALLED TODAY = 15,000 SF			
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SE HISTALLED TO DATE = 84,0005 F.			
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HISPECTOR JOSPH & Calmilla		DATE: EXS	
REVIEWED BY Frathen Brandos		DATE	
V		ALE SERVICE AND ALE	

46.500

FORM A-12, 11 SHEET OF GEOTEXTILE INSPECTION DATE ACCEPT REJECT N/A MATERIAL - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED. (ATTACH COPY). FREE FROM DEFECTS, RIPS, HOLES, FIAMS, DETERIORATION OR DAMAGE. PUNCEMENT - SUPFACES TO RECEIVE GEOTEXTILE APE FREE OF DEBRIS. - FINAL TH-FLACE LOCATION OF GEOTEXTIES COMPLIES WITH CONTRACT DPAULING. - INSTALLATION INCLUDING SEAMS. IS PEPFORMED 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. GEOTEXTILE LOCATION (APPROXIMATE) ComBined Channel ( NO Dwg. To Ida Rogen north John Brandis and INSPECTOR

REVIEWED BY

MAY 2 8 1993 FORM A-13 SHEET \_\_\_/\_ OF \_ INSPECTION DATE 5/27/93 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 ONSITE WATER TRUCK Used TO CENTROL DUST 4. BEDDING LOCATION SWAL+S ON CELA 5. REMARKS STATED THIS ACTIVITY LATE AFTERNIN STOCK Pile mos T OF Imported Bedding Stome on situ 360-92 TON

REVIEWED BY fraken Branch DATE 5/27

BEI	DDING	<b>MAY</b> 2 8 <b>1993</b> posicisanos	FORM A-1 SHEET INSPECTI	3 /_ OF / ON DATE _5	128/93
		11.328	ACCEPT	REJECT	N/A
1.	MATERIAL				-
	<ul> <li>BEDDING MATERIAL OBT QUARRY ACCEPTED BY C MANAGER.</li> </ul>				
	- FREE FROM SOFT, NON- PARTICLES, ORGANIC M AND THIN OR ELONGATE	ATERIALS			
	- MATERIALS COMPLY WITH REQUIREMENTS.	H GRADATION			
2.	PLACEMENT				
	FINAL IN-PLACE LOCAT THICKNESS OF BEDDING ON CONTRACT DRAWINGS	IS AS SHOWN		<del></del>	
3.	DUST CONTROL				
	ACTION TAKEN ONSITE	e WATER TRUCK	usid To	WATER AC	222
	Ronds	·			
4.	BEDDING LOCATION				
	Suprason CEL.	A & STOCKPIL	e		
5	REMARKS Im Post Ta	J 18034 Ton	<u></u>		
		<del> </del>			
					[
		·			
	INSPECTOR Joseph J.	Colomter		date $\frac{2}{3}$	128/93

REVIEWED BY

FORM A-13 SHEET \_\_\_\_\_ OF /\_ INSPECTION DATE 6/2/93 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 YES WATER TRUCK USED ON HAUL ROADS 4. BEDDING LOCATION Sualis on CELA ; ALSO in RAST DIKE ARCA. REMARKS DATE INSPECTOR (

REVIEWED BY

JUN 0 2 1993

BEDDING DECEMBER

JUN 0 3 1993

FORM A-13
SHEET / OF /
INSPECTION DATE 6/3/13

MATERIAL	100500		
MATEPIAL	ACCEPT	REJECT	N/A
	-~ · -	<b>-</b>	
PERSONAL PROPERTY COMMINED FOOM			
- BEDDING MATERIAL OBTAINED FROM QUARRY ACCEPTED BY CONSTRUCTION		•	
MANAGER.	1/		
LANGE TAKE	<del></del>		
- FPEE FROM SOFT, NON-DURABLE			
PARTICLES, ORGANIC MATERIALS	. /		
AND THIN OR ELONGATED PARTICLES.	$V_{-}$		
	_ :		
- MATERIALS COMPLY WITH GRADATION	./		•-
REQUIREMENTS.		<del></del> ·	
PLACEMENT			
P. L. M. C. E. M. C. L.			
FINAL IN-PLACE LOCATION AND	/		
THICKNESS OF BEDDING IS AS SHOWN			
ON CONTRACT DRAWINGS.			
DUST CONTROL			
ACTION TAKEN WATER TRUCK USED	011 10 Y	· •	
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BEDDING LOCATION			
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PRRIMETER CHARACL			
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JUN 0 4 1993

BEI	DDING		FORM A-13 SHEET INSPECTIO	OF JAIR
	MATERIAL		ACCEPT	REJECT N/A
1.	MATERIAL			ີ່ : ໝໍ
		RIAL OBTAINED FROM TED BY CONSTRUCTION	$\sqrt{}$	
	PARTICLES, O	FT, NON-DURABLE RGANIC MATERIALS ELONGATED PARTICLES.	V	
	MATERIALS CON REQUIREMENTS	MPLY WITH GRADATION	$\overline{V}$	
2.	PLACEMENT			
		CE LOCATION AND BEDDING IS AS SHOWN DRAWINGS.	V	
3.	DUST CONTROL			
	ACTION TAKEN	WATER TRUCK USER	( C. O.T.	Tank in the second
	ACTION TAKEN _	WATER TRUCK USSA	FOZ DUST	202///0
	_	· · · · · · · · · · · · · · · · · · ·		
4.	BEDDING LOCATION	N		
	Placed on	The South PRIMARY	Chansh his	ST Checon
5.	REMARKS 4"	Of Bedding STO B	Being Repaid	- Paine
	Chizanel &			
		·	d.	
	INSPECTOR	with I. Colum	the	DATES 6443
	REVIEWED EX	Smathan Bearles		DAW
	// <del>/</del>	77		

JUN 0 8 1993 SHEET INSPECTION DATE 4/5/83 BEDDING ACCEPT REJECT N/A MATERIAL · REPUBLIG MATERIAL OBTAINED FROM QUAPRY ACCEPTED BY CONSTRUCTION MANAGER. - FPEE FROM SOFT, NON-DURABLE FARTICLES, ORGANIC MATERIALS AND THIN OR ELONGATED PARTICLES. - MATERIALS COMPLY WITH GRADATION PEQUIPEMENTS. ?. PLACEMENT FINAL IN-PLACE LOCATION AND THICKNESS OF BEDDING IS AS SHOWN ON CONTRACT DRAWINGS. 3. DUST CONTROL ACTION TAKEN RAI~ 4. BEDDING LOCATION West Chance Percent 5. REMARKS \_\_\_\_\_

REVIEWED BY

FORM A-13

FORM A-13/ OF INSPECTION DATE 6/7/93 phiddad ACCEPT REJECT N/A I. MATERIAL - PEDDING 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 UNFOR TRUCK IN OFR 4. BEDDING LOCATION NORTH CHANNEL 5. REMARKS \_\_\_\_\_ I'mPORT 271.58 TO. 1,450.72 Ton TO PATE DATE \_6 INSPECTOR

REVIEWED BY

DATE

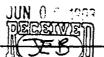
JUN 0 8 1993

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1.	HWALLY.	وار ک	ACCEPT	REJECT	N/A
	- BEDDING MATERIAL OBTAINS QUAPRY ACCEPTED BY CONST				<i>:</i>
	- FREE FROM SOFT, NON-DURA PARTICLES, ORGANIC MATER AND THIN OR ELONGATED PA	RIALS			s <sup></sup>
	- MATERIALS COMPLY WITH GEREQUIREMENTS.	RADATION			
2.	PLACEMENT				
	FINAL IN-PLACE LOCATION THICKNESS OF BEDDING IS ON CONTRACT DRAWINGS.		<u>/</u>		<i>i</i> .
3.	DUSI CONTROL				<b>*</b> ,
	ACTION TAKEN N/A				:
	BEDDING LOCATION  ComBinad	- manue			
5.	REMARKS			<del></del>	·
		····			<del></del>
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			₹.,	<b>≟</b> 1.	:
	A	11/			
1	INSPECTOR Supplies	Colomer	نسهر	DATE: 4	1/10/93

		FORM A-1. SHEET		
CK	Rushed aravel		ON DATE	6/17/93
1.	MATERIAL	ACCEPT	REJECT	N/A
	-CRUGAL GRANTERIAL OBTAINED FROM QUARRY ACCEPTED BY CONSTRUCTION MANAGER.	<u> </u>		
	- 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.	V		
3.	DUST CONTROL			
	ACTION TAKEN WATER TRUCK USING		<del></del>	<del></del>
	RUSHAD GRANLLOCATION  ACCOSS ROAD TO 17TILITY POL	' <u> </u>		<del></del>
5.	(6/1.42 Ton Ca	-111, "L=T	٤٠, )	
		JUN 1	S SSS SWE A	
	INSPECTOR Colombia		DATE	17/93
	REVIEWED BY 12 LL		DATE <u>(</u>	0/18/93

RII	PRAP	FORM A- SHEET INSPECT	OF I	1-Z1
1, .	MATERIAL	ACCEPT	REJECT	N/
	- 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 NONE REQU	IRED		
	NORTHERN END OF	LHANN	iec.	
5.	REMARKS I GRADATION PERFORMED.	SEE	ATTACHED	
	REPORT FORMS.			
			<del> </del>	
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	INSPECTOR Trederick of Mastile		DATE <u>/ 0</u>	-21-

DIDDID						
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 75 R			
	ACCEPT	REJECT	N/A
 MATERIAL			
- RIPRAP OBTAINED FROM QUARRY		<u>.</u> .	•
ACCEPTED BY CONSTRUCTION MANAGER			
- FREE FROM DIRT, SAND, CLAY AND			
ROCK FINES.			
- MATERIALS COMPLY WITH GRADATION			
REQUIREMENTS.	<u></u>		
PLACEMENT			••
- FINAL IN-PLACE LOCATION AND THICKNESS			
OF RIFRAP AS SHOWN ON DRAWINGS WITH A TOLERANCE OF +3,-0 INCHES			
WITH A TOLERANCE OF +3,-0 INCHES			
DUST CONTROL			
WITTON TAKEN YES. WATER TRUCK LE	ام میں میں	Tank	
TAKEN TAKEN TAKEN			
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RIFPAF LOCATION			
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REMARKS PLACED in SUALOS AND C	will Bu	hizaded )	r <sub>o</sub>
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meste Spec.		<del></del>	
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INSPECTOR

DATE 6/2/23
DATE 6/3/93

JUN () 3 1902

FORM A-14 \_ OF / SHEET

INSPECTION DATE 6/3/93 קבססים ACCEPT REJECT N/A PARTERIAL. - PIEFAE OFTAINED FROM OUARRY ACCEPTED BY CONSTRUCTION MANAGER - FREE FROM DIRT, SAND, CLAY AND FOCE FINES. - MATERIALS COMPLY WITH GRADATION PEOUL REMENTS. f. PLACEMENT - FINAL IN-PLACE LOCATION AND THICKNESS OF RIPRAP AS SHOWN ON DRAWINGS WITH A TOLERANCE OF +3,-0 INCHES C, 1. DUST CONTROL ACTION TAKEN WATER TRUCK US-Ed OR ROAD WAYS 4. RIPPAP LOCATION More From STOCK PILLE And Rocad in Pagementen Channel This is NOT TO PROPER TOLORDOUR AS OF YET. 5. REMARKS \_\_\_\_\_

REVIEWED

## JUN 0 4 1933



FORM A-14 SHEET OF INSPECTION DATE 6/4/93

. MATERIA	\L	ACCEPT	REJECT	N/A
	AF OBTAINED FROM QUARRY PTED BY CONSTRUCTION MANAGER	V		÷
	FROM DIRT, SAND, CLAY AND FINES.	1		·
	REMENTS.	/		
PLACEME	HT			
OF RE	PEAP AS SHOWN ON DRAWINGS A TOLERANCE OF +3,-0 INCHES			in the second
DUST CO	NTROL			ر،
ACTION '	TAKEN WATER TRUCK is used	FOR This	· _ <del>'</del>	
ALO	LOCATION  15 Supre CLESUST TO SOUTH  and The SouTh end To The	TenPass	AY ACC	058 Ko.
дко. REMARKS	1ST SWALL CLESUST TO SOUTH	And Sha	POd A	es 3 Kg,
АК. REMARKS	15 Supre CLESIST TO SOUTH  and The SouTh end To The  Rip RAP is Being Placed	And Sha	POd A	es 3 Kg,
A.C.,	15 Supre CLESIST TO SOUTH  and The SouTh end To The  Rip RAP is Being Placed	And Sha	POd A	es 3 Kg,
A.C.,	15 Supre CLESIST TO SOUTH  and The SouTh end To The  Rip RAP is Being Placed	And Sha	POd A	es 3 Kg,
A.C.,	15 Supre CLESIST TO SOUTH  and The SouTh end To The  Rip RAP is Being Placed	And Sha	POd A	<u> </u>
A.C.,	15 Supre CLESIST TO SOUTH  and The SouTh end To The  Rip RAP is Being Placed	And Sha	POd A	<u> د یا دو</u>
A.C.,	15 Supre CLESIST TO SOUTH  and The SouTh end To The  Rip RAP is Being Placed	And Sha	POd A	es 3 Kg,
A.C.,	15 Supre CLESIST TO SOUTH  and The SouTh end To The  Rip RAP is Being Placed	And Sha	POd A	es 3 Kg,



MATERI		N 0 8 1993	ACCEPT	REJECT	N/A
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	FROM DIRT, SAND	, CLAY AND	/		
	PIALS COMPLY WIT	H GRADATION	<u></u>		
PLACEM	ENT			•	74. 4
OF R	L IN-PLACE LOCAT IPRAP AS SHOWN OF A TOLERANCE OF	V DRAWINGS	ss		)
DUST C	ONTROL				ر¢
ACTION	TAKEN RAIN			·	
RIPRAP	LOCATION	- PLACEMEN	<i>T</i>		
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JUN 0 R 1993 FORM A-14 SHEET INSPECTION DATE: PIPRAP ACCEPT RÉJÉCT MATERIAL - PIPPAP 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 NOSTA Charack 5. REMARKS \_\_\_\_\_\_

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FORM A-14

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		- FREE FROM DIR'	T, SAND, CLAY AND	
		- MATERIALS COM REQUIREMENTS.	PLY WITH GRADATION	
	2.	PLACEMENT		
		OF RIPRAP AS	E LOCATION AND THICKNE SHOWN ON DRAWINGS NCE OF +3,-0 INCHES	ss
	3.	DUST CONTROL		
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	- PIERAP OBTAINED	O FROM QUARRY NSTRUCTION MANAGER		
	- FREE FROM DIRT,	, SAND, CLAY AND		
	- MATERIALS COMPI	LY WITH GRADATION		
· .	PLACEMENT			
	OF RIPRAP AS SE	LOCATION AND THICKNESS HOWN ON DRAWINGS DE OF +3,-0 INCHES		
3.	DUST CONTROL			
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FORM A-14 JUN 1 6 1993 / OF SHEET INSPECTION DATE \_ 6/15/93 PEPKAP ACCEPT REJECT N/A 1. MATERIAL - PIPPAP OBTAINED FROM QUARRY ACCEPTED BY CONSTRUCTION MANAGER - FREE FROM DIRT, SAND, CLAY AND ROCK FINES. - MATERIALS COMPLY WITH GRADATION REQUIREMENTS. C. 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 4732 TRUCK 152d 4. RIPRAP LOCATION Combined Charrie 5. REMARKS Imported 235.23 For = 5,3/5.23 For in (combining

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FORM A-14 SHEET OF INSPECTION DATE 6/14/93

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. 1.	MATERIAL	ACCEPT	REJECT	N/A
	- PIFFAR OBTAINED FROM QUARRY ACCEPTED BY CONSTRUCTION MANAGER			
	- FREE FROM DIRT, SAND, CLAY AND ROCK FINES.	<u></u>		
	- MATERIALS COMPLY WITH GRADATION REQUIREMENTS.	<u></u>		
Ξ.	FLACEMENT			
	- FINAL IN-PLACE LOCATION AND THICKNESS OF RIPRAP AS SHOWN ON DRAWINGS WITH A TOLERANCE OF +3,-0 INCHES	<u></u>		
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	INSPECTOR Joseph J. Colomater		DATE 4	//4/47
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JUN 0 2 1993 ... FORM A-15 SHEET INSPECTION DATE 6 SEED AND FERTILIZER ACCEPT. REJECT TO A 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. FLACEMENT - 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. 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 Soud was A

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FORM A-15
SHEET \_\_\_\_ OF \_\_\_\_
INSPECTION DATE' \_\_\_\_

1 1.	MATERIAL	ACCEPT	REJECT	N/A
	- MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH SPECIFICATION REQUIREMENTS.		:	· ·
	- SEEDS ARE DRY AND FREE OF DAMAGE.	<u> </u>		, <del></del> -
	- 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.		<del></del>	$\sqrt{}$
	- TEST RESULTS MEET OR EXCEED. THE REQUIREMENTS OF THE SPECIFICATIONS.	<u> </u>		
4.	REMARKS BROOKS SPACIAL MIXTURE #110	066		
	white Charge #1016			
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4 M. 10	and Clark	<u> </u>	COM DAMPES	5/27/9
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FORM A-15 MAY 2 5 1993 SHEET \_\_\_\_/ OF INSPECTION DATE SEED AND FERTILIZER 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. 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. 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. 41

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DATE OF STATE | 1      |              |  | AUG 2.5 1552                            | FORM A-19<br>SHEET | ="                                    |   |
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| •      | SE           | ED AND FERTILIZER  | MOG (1) 1352                            | INSPECTIO          | N DATE Y                              | -24-9   |
| \      |              | MATERIAL   | (7B)                                    | ACCEPT             | REJECT                                | · N/A · ·-                                    |
|        |              | - MANUFACTURER'S LABS<br>COMPLIES WITH SPECT<br>REQUIREMENTS.  |   | _                  |                                       |   |
| ļ      |              | - SEEDS ARE DRY AND F  | FREE OF DAMAGE.                         |                    | <del></del>                           |   |
|        |              | - FERTILIZER IS FREE AND LUMPS.  | OF MOISTURE,                            |                    |                                       |   |
|        | 2.           | PLACEMENT  |   | •                  |                                       |   |
|        |              | - AREA RECEIVING SEED<br>FERTILIZERS IS SCAR<br>AND FREE OF STONES<br>6 INCHES.  | RIFIED OR LOOSE,                        |                    |                                       |   |
|        |              | - PLANTING SEASON IS<br>WITH MANUFACTURER'S<br>ACCEPTED BY CONSTRU   | REQUIREMENTS AND                        |                    |                                       |   |
|        | 3.           | VERIFICATION TESTING   |   |                    |                                       |   |
| ]<br>[ |              | - 1 TEST SAMPLE FOR E<br>OF SEED MIXTURE OR<br>EACH LOT WHICHEVER<br>AND SENT FOR TESTIN   | 1 SAMPLE FROM<br>GOVERNS IS TAKEN       |                    |                                       |   |
|        |              | - TEST RESULTS MEET OF REQUIREMENTS OF THE   |   | RESULT             | s Peudin                              | ان  |
| ļ      | 4.           | REMARKS PLACED S   | ·                                       |                    |                                       | <u>, , , , , , , , , , , , , , , , , , , </u> |
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SEED AND_FERTILIZER	FORM A-19 SHEET (	OF L	<del>-19-92:</del>
	ACCEPT	REJECT	N/A
MATERIAL			•
- MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH SPECIFICATION REQUIREMENTS.			<del>-</del> ,
- SEEDS ARE DRY AND FREE OF DAMAGE.		<del></del>	
- FERTILIZER IS FREE OF MOISTURE' AND LUMPS.			·
2. PLACEMENT		•	ंड - इ
- 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.	Wue Be	Tesieb	
- TEST RESULTS MEET OR EXCEED THE REQUIREMENTS OF THE SPECIFICATIONS.	TEST RESUL	- Penonc	<del></del> -
4. REMARKS SAMPLES OF THE SEED BEING U			
TESTING. THE CURRENT CONTROLS			
AND FERTILIZED - STRAW WILL B			
ATTACHED IS THE INFORMATION ABOUT	THE SEE	O BEEND	•
AND FERTICIZER.	* ************************************		
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INSPECTOR Traderick Westers	Task	CODATE;	119-92-

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ž.	1.	MATERIAL	ACCEPT	REJECT	N/A
		- MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.			· :
. 2	2.	PLACEMENT			*##
		- SILT FENCES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.			
3	3.	LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES.			اند <u>با</u> ــــــــــــــــــــــــــــــــــــ
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profit Para	1.	MATERIAL	ACCEPT REJECT	N/A
		- MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN. 2003 103		<u> </u>
<b>1</b>	2.	PLACEMENT	*	
7 (A)		- SILT FENCES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.		44-44 43-74
	3.	LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES.		7 d (1)
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	DSION AND SEDIMENT CONTROL	SHEET	
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	- SILT FENCES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.	* 11.	
3.	LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES.	/	
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	2.	PLACEMENT	<del>.</del> .,	•••••	
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	3.	LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES.			
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FORM A-16 SHEET \_ \_\_/\_ OF INSPECTION DATE WE. EROSION AND SEDIMENT CONTROL ACCEPT REJECT 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. LOCATION OF EROSION AND SEDIMENT' CONTROL MEASURES: REMARKS CELA EXS CONTROLS INTACT SEP 3 1992

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2 2.	1.	MATERIAL	ACCEPT R	EJECT	N/A
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	2.	PLACEMENT	• .		
		- SILT FENCES AND OTHER EROSION. CONTROL MEASURES ARE INSTALLED AS SHOWN ON CERTIFIED EROSION. AND SEDIMENT CONTROL PLAN.		<del></del> .	
g~ ≥≠	3.	LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES.			
	4.	REMARKS			
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	ATION OF EROSION ROL MEASURES.	N AND SEDIMENT	_		:
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FORM W-TO SEP 3 1992: SHEET \_\_\_\_ OF INSPECTION DATE 7-30-EROSION AND SEDIMENT CONTROL TEN/A. MATERIAL. - MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN. . -PLACEMENT 2. - SILT FENCES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED. AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN. LOCATION OF EROSION AND SEDIMENT 3. CONTROL MEASURES. REMARKS REGINAL GREA"E" 11

FORM A-16 SHEET OF EROSION AND SEDIMENT CONTROL INSPECTION DATE WE ACCEPT REJECT MATERIAL ٦. - MANUFACTURER'S LABEL OR CERTIFICATE --COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN. PLACEMENT 2. - SILT FENCES AND OTHER EROSION - . CONTROL MEASURES ARE INSTALLED .. AS-SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN. LOCATION OF EROSION AND SEDIMENT 3. CONTROL MEASURES. REMARKS

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1.	MATERIAL JEB	ACCEPT REJECT N/A
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2.	PLACEMENT	· Ary
	- 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.	
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1	SEP 3 1992 EROSION AND SEDIMENT CONTROL	FORM A-10 SHEET / OF / INSPECTION DATE // B/7
	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.	
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ę.	2.	PLACEMENT		
		- SILT FENCES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.	200	
F-	3.	LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES.		
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	erosion and sediment control SEP 3 1992	FORM A-16 SHEET / OF / INSPECTION DATE 8-10-97	_
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SEP 3 1992 FORM A-16 SHEET OF 🖊 EROSION AND SEDIMENT CONTROL DECEMBER INSPECTION DATE W/E - A/H N/A 🐧 ACCEPT REJECT MATERIAL - MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN. 2. PLACEMENT - SILT FENCES AND OTHER EROSIONS W. TARTE CONTROL MEASURES ARE INSTALLED AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN. LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES. REMARKS "E" EX 5 COMMOLS REFINEY Area S. 13

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SEP 3 1992 FORM A-16 SHEET OF EROSION AND SEDIMENT\_CONTROL PERCENTED INSPECTION DATE 8-19-12-ACCEPT REJECT. N/À 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. LOCATION OF EROSION AND SEDIMENT 3. CONTROL MEASURES. REMARKS REDVINE ESS CONTROLS

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FORM A-16 SHEET \_\_\_\_OF \* SEP \_ 3 1982 EROSION AND SEDIMENT CONTROL DECEMBED ÄCCEPT REJECT 1. MATERIAL - MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN: PLACEMENT 2. - SILT FENCES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN. COLLECTION LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES. REMARKS (4) (4)

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FORM A-16 SHEET \_\_/\_ OF EROSION AND SEDIMENT CONTROL INSPECTION DATE 10-9-92 - -2.7 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. LOCATION OF EROSION AND SEDIMENT: 17 --> CONTROL MEASURES. REMARKS ALL ENDSWA & SEDIMENT CONTROL STWEAMS REMOVED ONIGINAL SEDIMENT BASIN,

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FORM A-16 SHEET #1 OF EROSION AND SEDIMENT CONTROL INSPECTION DATE W/R 10/20 ACCEPT REJECT NAME MATERIAL - - - - - - -- MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN. ... PLACEMENT - SILT FENCES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN. LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES. REMARKS Ef 5 STAVETURE INTREST DATE 10-30-72 INSPECTOR TO STEEL PRESE \_\_ DATE # 7/3-25-97 REVIEWED BY

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FORM A-16

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FORM A-16 OF EROSION AND SEDIMENT CONTROL INSPECTION DATE W/2-12-11 ACCEPT REJECT 1. MATERIAL - MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN. PLACEMENT - SILT FENCES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED. AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN. LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES. REMARKS An EtS STWEETURES INTACT

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FORM A-16 SHEET \_\_\_\_OF /\_\_INSPECTION DATE 12-18-92\_\_ IHC 1 8) 1882 EROSION AND SEDIMENT CONTROL ACCEPT REJECT N/A MATERIAL - MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN. 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. REMARKS VALLEYS & AT THE CULYENT INLET. The effectiveness of these additional Eqs structures is being reviewed. There may be a need for more E & S Comtrol. JEB

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EROSION AND SEDIMENT CONTROL.	INSPECTION DATE 12-23-42
MATERIAL	ACCEPT REJECT N/A
- MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.	
2. PLACEMENT	2. :
- 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	1
DIRE AND AROUND WEST STOCKER	8 PLACED W NONTH

DATE /2-23-12
A ADRIENT
DATE /2-23-74

	SION AND SEDIMENT CONTROL DECEMBED INSPECTION DATE WE THE SECOND ACCEPT REJECT N/A
ι.	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
4.	REMARKS
	Au Esasion of SEDIMENT CONTROL STRUCTURES
-	ALE INTACT ADDITIONAL STANGEMEN WEND
-	PLACED IN THIS PAST WEEK IN THE WEST
	2 NONTH CHANNERS

And Barden

DATE 1/-4-93

DATE 1/4/98

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FORM A-16 SHEET \_\_/\_ OF \_/

EROSION AND SEDIMENT CONTROL	INSPECTIO	ON DATE WE 1-8-43
. MATERIAL	ACCEPT"	REJECT N/A
- MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.	<u> </u>	· · · · · · · · · · · · · · · · · · ·
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.	1.	<u></u> » <u></u>
ALL EROSION + SEDIMENT	CONTR	L STRUCTURES
ARE INMACE, SOME OF THE	SILT FENC	E HAS TO BE
REWORKED	·	-
		- · · · · · · · · · · · · · · · · · · ·
		• • •
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JAN 1 3 1393 FORM A-16 SHEET OF INSPECTION DATE W/E 1-1.3-93 EROSION AND SEDIMENT CONTROL ACCEPT REJECT N/A MATERIAL - MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN. 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. REMARKS REINFORCES SILT STRUCTURES WITH ADDITIONAL HAY BALES AND TIGHTENED UP THOSE SILT FENCES WHICH WERE SAGGING. SILT STRUCTURES ARE IN LACE DATE 1

REVIEWED BY

FORM A-16 SHEET EROSION AND SEDIMENT CONTROL TOPECTOR INSPECTION DATE MATERIAL - MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN: PLACEMENT - SILT FENCES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN. LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES. REMARKS ALL SILT FONCES ARE INTACT AND FUNCTIONER IN The Channels All STRAW Balles Ane ProPer

INSPECTOR Jeph & Comertino
REVIEWED By frather Bands

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FORM A-16 'erosion" and 'sediment-control 😘 MATERIAL 1. THE THE PROPERTY OF THE - MANUFACTURER'S LABELLOR CERTIFICATE - AT -- COMPLIES WITH CERTIFIED EROSION AND CHANGE SEDIMENT CONTROL PLAN. 2. PLACEMENT - SILT FENCES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED :: ... -- AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN. LOCATION OF EROSION AND SEDIMENT\* CONTROL MEASURES.

FORM A-16 MAY 2 1 1993 EROSION AND: SEDIMENT CONTROL ACCEPT \*\*\* MATERIAL - MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN. PLACEMENT - SILT FENCES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN. LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES. REMARKS START TO EXCULATE 304 L. ... 1.379.161 1.37.27 2.37.27 2.38.34 INSPECTOR

FORM A-16 MAY ? 8 1993 SHEET ON AND SEDIMENT CONTROL INSPECTION DATE SISSIE 1. MATERIAL - MANUFACTURER'S LABEL, OR CERTIFICATE ...COMPLIES\_WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN. PLACEMENT - SILT FENCES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED. AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN. LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES. REMARKS EACH SWALE ON CELA HAS HAYBAG will ALSO Be Sended.

FORM A-16 JUN 0 2 1993 SHEET EROSION AND SEDIMENT CONTROL INSPECTION DATE ACCEPT REJECT: MATERIAL - MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN. - 14-PLACEMENT - SILT FENCES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN : 100 LOCATION OF EROSION AND SEDIMENT 3. CONTROL MEASURES. 4. REMARKS EROSION MATLIAS PLACED ON SCORE OF

INSPECTOR

frathan Braneles

DATE 6/2/9

DATE 6/3/93

THEFT OF

5. C.

FORM A-16 SHEET -EROSION AND SEDIMENT CONTROL INSPECTION DATE: ACCEPT REJECT MATERIAL 1. - 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. LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES. REMARKS 52dima. T ConTROL ARe in ef. INSPECTOR

		(E)(E)(E)(E)(C)(C)
EROSION AND SEDIMENT CONTROL		TODSIC ISTUM
PROGRAM AND CERTAINS COMMENT	÷	The second
EROSION AND SEDIMENT CONTROL		NV-VIII
	,	INT T



FORM A-16 SHEET \_\_\_\_\_ OF \_\_\_\_\_ INSPECTION DATE GIAGES

	, H X-D	*,	
1.	MATERIAL	ACCEPT REJECT	N/A
	- MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.	· · · · ·	i
2.	PLACEMENT		-
	- SILT FENCES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN:	<u>/</u>	
3.	LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES.	<u>-1/</u>	
4.	REMARKS EARLIER in The week	EROSio~ ConTrol ma	Twas
•	<u>-</u>	Thas Seeded.	<u> </u>
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JUN 4 5 1993 EROSION AND SEDIMENT CONTROL 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. LOCATION OF EROSION AND SEDIMENT Э. CONTROL MEASURES. PLACE JUTE MAT ON EAST DIKE REMARKS

INSPECTOR

REVIEWED BY

Another Brancks

DATE 6/14/9

DATE 6/6/2

OF / SHEET THE PROPERTY OF PENCES AND GATES RECEIVED INSPECTION DATE 6/1/93 ACCEPT REJECT N/A .i. HATEPIAI - DOSTS, FAILS, GATE FRAMES, AND POST PRACES ARE HOT-DIP GALVANIZED. - MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS PEEN PROVIDED. (ATTACH COPY). - MATERIALS AND COATINGS FURNISHED ARE TESTED AND MEET THE REQUIREMENTS OF SPECIFICATIONS (ATTACH RESULTS). TERIFICATION INSPECTION - CONCRETE FOOTING DEPTH AND DIAMETER IS ACCORDING TO DESIGN DRAWINGS (BEFORE PLACEMENT OF CONCRETE). - SFACING OF FOOTINGS IS ACCORDING TO DESIGN DRAWINGS. - LOCATION OF FENCES AND GATES ARE IN ACCORDANCE WITH DESIGN DRAWINGS (SURVEYOR VERIFY). 3. LOCATION (APPROXIMATE) CLAS REMARKS

FORM A-17

FORM A-17 AN 1 1 1993 SHEET INSPECTION DATE INSTALLATION OF FENCES AND GATES ACCEPT 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). 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). LOCATION (APPROXIMATE) REMARKS

REVIEWED By Junthan bran

DATE Q/(/4)

DATE 6//4/9

		rorm aris	OF (	
	NITORING WELL AND PIEZOMETER STALLATIONS	INSPECTIO	N DATE 9	-17-92
$\int_{1}$	MATERIAL	ACCEPT	REJECT	N/A
	- MONITORING WELL AND PIEZOMETER: MANUFACTURER'S CERTIFICATE HAS BEEN PROVIDED FOR MATERIAL (ATTACH COPY).	PENDIN	G	
	- ANNULAR BACKFILL MATERIAL CONFORMS WITH SPECIFICATIONS.			
2.	PLACEMENT			
	- MONITORING WELL AND PIEZOMETER BOREHOLE DIAMETER, DEPTH AND LOCATION CONFORM WITH CONTRACT DRAWING.	<u></u>	<del></del>	<del></del>
3.	DUST CONTROL NONE REQUIRED			
	ACTION TAKEN NODE WEGOTRE			
4.	LOCATION (N/E COORDINATE) P-3 N 767275 E	675340	)	
,	REMARKS DRILLING COMPLETED, IN	STALLATIO	ON WILL	BE
	DONE TOMORROW		<del></del>	
			o regi	
	~		TEWS JES	
	INSPECTOR ALBERT		DATE 2	17-92
	REVIEWED BY Anathon Brancles		_ date $/\!\!\!\!/$	18/92

SHEET | OF | INSPECTION DATE 9-18-92 MONITORING WELL AND PIEZOMETER INSTALLATIONS ACCEPT REJECT 1. MATERIAL - MONITORING WELL AND PIEZOMETER: MANUFACTURER'S CERTIFICATE HAS BEEN TO BE PROVIDED 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) REMARKS SET WELL P-3 TODAY, COVER TO BE PLACED LATER. REVIEWED BY Anathon

FORM A-15

SHEET \_\_\_\_\_ OF \_\_\_\_ INSPECTION DATE 9-21-92 MONITORING WELL AND PIEZOMETER INSTALLATIONS ACCEPT REJECT N/A MATERIAL - MONITORING WELL AND PIEZOMETER: MANUFACTURER'S CERTIFICATE HAS BEEN To BE SUBMITTED 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 None REQUIRED ACTION TAKEN 4. LOCATION (N/E COORDINATE) P2 ON EAST SIDE REMARKS DRILLED AND SET EXCEPT FOR GROUT, GROUTING WILL BE COMPLETED TOMORROW. DATE 9-21-92 REVIEWED BY \_

FORM A-15 SHEET OF INSPECTION DATE 9-22-92 MONITORING WELL AND PIEZOMETER INSTALLATIONS ACCEPT REJECT N/A MATERIAL - MONITORING WELL AND PIEZOMETER: MANUFACTURER'S CERTIFICATE HAS BEEN TO BE SUPPLIED 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) P-1 (NORTH EAST SIDE) REMARKS TINISHED P-2 DRILLED ADDED SAND AND BENTONITE PELLETS TO P-1. WILL ADD GROUT TO / TOMORROW

DATE 9-22-92

INSPECTION DATE 9-23-92 MONITORING WELL AND PIEZOMETER INSTALLATIONS ACCEPT REJECT N/A MATERIAL - MONITORING WELL AND PIEZOMETER: MANUFACTURER'S CERTIFICATE HAS BEEN SUBMITTED\_ 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 REQUIRED ACTION TAKEN LOCATION (N/E COORDINATE) P-6 (NORTH END OF SITE) REMARKS DRILLED AND SET P-6 WILL DO P-4 TOMORROW PRILLING LOGS FOR P-1 + P-2 ATTACHED. DATE 9-23-92 DATE 9/24/92 REVIEWED BY

FORM H-15

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# INSPECTION DATE 9-24-92 MONITORING WELL AND PIEZOMETER INSTALLATIONS ACCEPT REJECT 1. MATERIAL - MONITORING WELL AND PIEZOMETER: MANUFACTURER'S CERTIFICATE HAS BEEN SUBMITTED WERE 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 \_\_\_ 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. DATE 9-24-92 REVIEWED BY Jonethan

SHEET \_\_\_\_OF \_ INSPECTION DATE 9-25-92 MONITORING WELL AND PIEZOMETER INSTALLATIONS ACCEPT REJECT N/A MATERIAL - MONITORING WELL AND PIEZOMETER: MANUFACTURER'S CERTIFICATE HAS BEEN HAUE BEEN SUBMITTED 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 4. LOCATION (N/E COORDINATE) PIEZOMETER P-5. NORTH EAST SIDE REMARKS DRILLED AND SET P-5 TODAY. DELONED THE DRILLING EQUIPMENT AND WILL BEGIN DRILLING THE MONITORING WELLS ON MONDAY. DATE 9-25-92 REVIEWED BY

SHEET / OF / INSPECTION DATE 9-29-92

### MONITORING WELL AND PIEZOMETER INSTALLATIONS

		ACCEPT	REJECT	
. •	MATERIAL			N/2
	- MONITORING WELL AND PIEZOMETER: MANUFACTURER'S CERTIFICATE HAS BEEN PROVIDED FOR MATERIAL (ATTACH COPY).	AWAITING	APPROV	4 کـــــــ
	- ANNULAR BACKFILL MATERIAL CONFORMS WITH SPECIFICATIONS.			
	PLACEMENT	•		
	- MONITORING WELL AND PIEZOMETER BOREHOLE DIAMETER, DEPTH AND LOCATION CONFORM WITH CONTRACT DRAWING.	V		
	DUST CONTROL			
	ACTION TAKEN Nove REQUIRE	<i>/</i> 2		
•	LOCATION (N/E COORDINATE)			
	LOCATION (N/E COORDINATE)  MWR-1  REMARKS DRICLED TO 32' DEPTH	AND SE	τ	
	MWR-1	AND SE	Τ	
	MWR-1	AND SE	Τ	
	MWR-1	AND SE	7. ·	
	MWR-1	AND SE		
	MWR-1	AND SE		
	MWR-1	AND SE		
	MWR-1	AND SE		-Z9-9

INSPECTION DATE 9-30-92 MONITORING WELL AND PIEZOMETER INSTALLATIONS 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 NONTE REQUIRED 4. LOCATION (N/E COORDINATE) MWR-11 REMARKS DRILLED TO 27 DEPTH BECAUSE OF EQUIPMENT BREAKDOWN, NEW CORD NOT BE SE TODAY DATE <u>9-30-92</u>

REVIEWED BY \_

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SHEET \_/\_ OF \_/

SHEET \_/ OF \_/
INSPECTION DATE 10-1-92 MONITORING WELL AND PIEZOMETER INSTALLATIONS 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 REDURED 4. LOCATION (N/E COORDINATE) MWR-11 & MWR-7 REMARKS \_\_\_\_ COMPLETED MWR-11 TODAY BY SETTING MELL. STANTED MWR-7 & COMPLETO DRIVENG IT. DATE 10-1-92 DATE 192192 

FORM A-15

MONITORING WELL AND PIEZOMETER INSPECTION DATE 10-6-92 INSTALLATIONS ACCEPT REJECT N/A MATERIAL - MONITORING WELL AND PIEZOMETER: MANUFACTURER'S CERTIFICATE HAS BEEN PROVIDED FOR MATERIAL (ATTACH COPY). HAS BEEN 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 LOCATION (N/E COORDINATE) MWR-7 ON DIKE 38' AND DRILLED TO 40 HIT CLAY AT REMARKS MOVED EQUIPMENT TO DRILL HUR-6 SE HWR-7. DATE 10-2-92 REVIEWED BY

FORM A-19

SHEET \_\_\_\_ OF \_\_I

FORM A-19 OF 1 SHEET MONITORING WELL AND PIEZOMETER INSPECTION DATE 10-5-92 INSTALLATIONS ACCEPT REJECT MATERIAL - MONITORING WELL AND PIEZOMETER: WAITING FOR APPROVAL 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 None Requires ACTION TAKEN \_ LOCATION (N/E COORDINATE) MWR-6 DRILLED AND FINISHED MWR-6 WAS THE BENTONITE ADDITION. WILL TWISH TOMORROW. OUTER CASINGS WERE PLACED ON MWR-17411 AND PIEZOMETER P-5 DATE 10-5-92 DATE 1/1/ REVIEWED BY

FORM A-15 OF ( SHEET MONITORING WELL AND PIEZOMETER INSPECTION DATE 10 -6-92 INSTALLATIONS REJECT N/A 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 None REQUIRED ACTION TAKEN LOCATION (N/E COORDINATE) MWR-5 ON DIKE PECLETS DRILLED AND SET TO BENTONITE. OUTER CASING AND GROUT WILL BE DONE TOMORROW. DZILLING LOGS FOR WELLS MWK-5 of MWK-6 ATTATEMED. DATE 10-6-92

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SHEET / OF / INSPECTION DATE 10:7:92-

#### MONITORING WELL AND PIEZOMETER

INS	STALLATIONS			
l.	MATERIAL	ACCEPT	REJECT	N/A
	- 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 REDUIRED			·· <del>··</del>
4.	LOCATION (N/E COORDINATE)  MWR-4			
	REMARKS			
	COMPLETED SETTING MWR-5, PLACES	1 PROFECTI	٠٠٠	
	CASINGS ALOUND P.4 + P.3 DAN		, i	
	TO DEPTH. WILL PAKE WELL TOMAN	www. NoriF	100 R. Nov	74
	PIEZOMETER P-14 TIPELEVATION =	1983 Nor	1490.	
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	INSPECTOR Chino Batter		_ DATE <u>//</u>	1-7-92-
. 1	REVIEWED BY Collin & Strom		_ DATE _/C	18/92
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MONITORING WELL AND PIEZOMETER INSPECTION DATE 10-8-92 INSTALLATIONS ACCEPT REJECT N/A 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 NONE REQUIRED ACTION TAKEN 4. LOCATION (N/E COORDINATE) MONITORING WELLS MWR-3 + MWR-4 ON DIKE. REMARKS MONITORING WELL MWR-4 WAS COMPLETED AND MWR-3 WAS STARTED AND COMPLETED TO THE ADDITION OF BENTONITE PELLETS. MWR-3 & MWR-4 ALS ATTATCHED REVIEWED BY \_

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	NITORING WELL AND PIEZOMETER STALLATIONS	•	111072611	ON DATE	
	MATERIAL		ACCEPT	REJECT	N/A
•	IMILATIA				
	- MONITORING WELL AND PIEZ				
	MANUFACTURER'S CERTIFICA PROVIDED FOR MATERIAL (A				
	PROVIDED FOR MATERIAL (A	TIACH COPI).	<del></del>		
	- ANNULAR BACKFILL MATERIA	L CONFORMS			
	WITH SPECIFICATIONS.			<del></del>	
			-		
	PLACEMENT				
	- MONITORING WELL AND PIEZO	つめをでたり			
	BOREHOLE DIAMETER, DEPTH				
	CONFORM WITH CONTRACT DRA				
	DUST CONTROL				
	ACTION TAKEN	Parison			
	ACTION TAKEN	NEW TED			
				····	
	LOCATION (N/E CORPLYAME)			···	-
	LOCATION (N/E COORDINATE)			······································	<del> </del>
	LOCATION (N/E COORDINATE)  Cample 60 Setting		oniues 131	ON MWR-Z	
	COMPLETED SETTING	MWR - 3 ,	oniues 131	ON MWR-Z	
			במיננפט 131	ON MWR-Z	
	COMPLETED SETTING		onius 131	ON MWR-Z	
	COMPLETED SETTING		EN WED 131	ON MWR-Z	
	COMPLETED SETTING	MWR -3.	TA:WED 131	ON MWE-Z	
	COMPLETED SETTING	MWR - 3	priuso 131	ON MWR-Z	
	COMPLETED SETTING	MWR -3.	zniues /3'	ON MWR-Z	
	COMPLETED SETTING	. MWR -3.	DRIUED 131	ON MWR-Z	
	COMPLETED SETTING		zniuso 131	ON MWR-Z	
	COMPLETED SETTING		zniued 131	ON MWR-Z	
	COMPLETED SETTING		ENIUED 131	ON MWR-Z	
	COMPLETED SETTING		zniues 131	ON MWR-Z	
	COMPLETED SETTING	. MWR -3.	ENILLED 131	ON MWR-Z	
	COMPLETED SETTING		70ECE	ON MWE-Z	
	COMPLETED SETTING		DAILED 13'	ON MWE-Z	
	COMPLETED SETTING		DALLES 131	ON MUR-Z	
	COMPLETED SETTING	. MWR -3.	DAILES 131	ON MWE-Z	
	COMPLETED SETTING	MWR -3,	Enimes 131	DATE 20-	
I	REMARKS	Whow	Eniues 131	WE TO THE TOTAL PROPERTY OF THE TOTAL PROPER	9-92

Training they willing

· Marianta

	ITORING WELL AND PIEZOMETER TALLATIONS	SHEET	OF / N DATE	10-12-97
1.	MATERIAL	ACCEPT	REJECT	N/A
'     .	- 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.	<u> </u>		
з.	DUST CONTROL			
	ACTION TAKEN NOWE REQUIR	ED	<del> </del>	
-	HWR-Z  REMARKS WELL MWR-Z WAS COM THERE ARE 3 WELLS REMAINING I  WRILLED - HWR- 8,9+10. WHEN	THE W.	lust BE	
-	COMPLETED DEVELOPMENT WILL &	BEGIN.		
_		TOTELLE CO		
				:
	•••			:
	NSPECTOR Frederick Wartel		DATE <u>(0</u> -	
R	EVIEWED BY School	<u> </u>	DATE <u>/4/</u>	77 ∞

MONITORING WELL AND PIEZOMETER	SHEET	OF /	<u> </u>
INSTALLATIONS  1. MATERIAL	ACCEPT	REJECT	N/A
- MONITORING WELL AND PIEZOMETER: MANUFACTURER'S CERTIFICATE HAS BEEN PROVIDED FOR MATERIAL (ATTACH COPY).			
- ANNULAR BACKFILL MATERIAL CONFORMS WITH SPECIFICATIONS.		<del></del>	
PLACEMENT			
- MONITORING WELL AND PIEZOMETER BOREHOLE DIAMETER, DEPTH AND LOCATION CONFORM WITH CONTRACT DRAWING.			
. DUST CONTROL  ACTION TAKEN None Requi	RED		·
. LOCATION (N/E COORDINATE)  MWR-9 ALONG THE	WEST S	IDE.	
REMARKS R NORTH APPROVED MOVING	MWR-10	SOUTH 10	, ·
TO KEEP FROM DAMACING TREES AL	ONG THE	HAUL RO	AD.
MWR-9 WAS COMPLETED AND 7	Two WELL	s REMAIN	FOR
DRILLING "NSTALLED PIPE SLEEVE !	Ps-3.		
·	-,		

REVIEWED BY Collin P. Sylon DATE 10/13/92

		SHEET		
T14.5	NITORING WELL AND PIEZOMETER STALLATIONS	INSPECTI	ON DATE	) _ i 4 _ <
		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.			
		-	<del></del>	
	PLACEMENT			
	- MONITORING WELL AND PIEZOMETER			
	BOREHOLE DIAMETER, DEPTH AND LOCATION			
	CONFORM WITH CONTRACT DRAWING.	<del></del>		<del></del>
	DUST CONTROL			
•				
	ACTION TAKEN NOVE REQUIRE	<u> </u>		
	LOCATION (N/E COORDINATE)			
	MWR-10 NORTH WES	- C.S. A.	e ë re	
	REMARKS MONITORING WELL MW12-10 C			
	GF ITS NEW LOCATION TO AVOID DA	MACE TO	THE TREE	15
	OF IT'S TIEW COCHTION TO TOO TO			
			_	
	WAS COMPLETED AND DULY MWR-8 1		_	
	WAS COMPLETED AND DULY MWR-8 1	CEMAINS 7	To BE Den	
	WAS COMPLETED AND DULY MWR-8 1	CEMAINS 7	To BE Den	
	WAS COMPLETED AND DULY MWR-8 1	CEMAINS 7	To BE Den	
	WAS COMPLETED AND DULY MWR-8 1	CEMAINS 7	To BE Den	
	WAS COMPLETED AND DULY MWR-8 1	CEMAINS 7	To BE Den	
	WAS COMPLETED AND DULY MWR-8 1	CEMAINS 7	To BE Den	
	WAS COMPLETED AND DULY MWR-8 1	CEMAINS 7	To BE Den	
	WAS COMPLETED AND DULY MWR-8 1	CEMAINS 7	To BE Den	
	WAS COMPLETED AND DULY MWR-8 1	CEMAINS 7	To BE Den	
	WAS COMPLETED AND DULY MWR-8 / HND SET.  DRILLING LOGS FOR MWR-7 & MWR	CEMAINS 7	BE Den	LEA
	WAS COMPLETED AND DULY MWR-8 1	CEMAINS 7	To BE Den	LEA

	urmontus unit lun pinsaurmen	SHEET		<del></del>
	NITORING WELL AND PIEZOMETER STALLATIONS	INSPECTI	ON DATE 10	7-/3-9
1.	MATERIAL	ACCEPT	REJECT	N/A
•	- 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.			
١.	DUST CONTROL			
	ACTION TAKEN NONE REQUIRED	<del></del>	<del></del>	
	MWR-8			
	COMPLETED DALLING & SETTING	MWR-8.	An	
	WEUS & PIEZOMETERS AND	- INSTAL	ED.	
	DEVELOPMENT OF WEUS T	O BEGIN		
	TOMARROW. DIZILING LOC FOR	MNR-B	/-S	*
	ATTATEHED.			
		caracas.	70075CS	
			Was III	
				;
	INSPECTOR May Gate		DATE /0	·-/(9;
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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	MONITORING WELL AND PIEZOMETER INSTALLATIONS	SHEET ( OF ( ) INSPECTION DATE ( ) ()
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  NOWE. REQUIRED  4. LOCATION (N/E COORDINATE)  N/A  REMARKS DEVELOPED MONITORING WELL MWR-(1, THE WELL WAS SURGES AND DEVELOPED TOR 8 HOURS AS PER THE SPECS BUT THE NTU'S WERE NOT CESS THAN 16 THE NTU READING WAS 195. CLARIFICATION OF THE		ACCEPT REJECT N/
WITH SPECIFICATIONS.  2. PLACEMENT  - MONITORING WELL AND PIEZOMETER BOREHOLE DIAMETER, DEPTH AND LOCATION CONFORM WITH CONTRACT DRAWING.  3. DUST CONTROL ACTION TAKEN  NOWE REQUIRED  4. LOCATION (N/E COORDINATE)  N/A  REMARKS DEVELOPED MONITORING WELL MWR-(1, THE WELL WAS SURGED AND DEVELOPED FOR 8 HOURS AS PER THE SPECS BUT THE NTUS WERE NOT LESS THAN 16  THE NTU READING WAS 195. CLARIFICATION OF THE	MANUFACTURER'S CERTIFICATE HAS BEE	
- 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  REMARKS DEVELOPED MONITORING WELL MWR-(1, THE WELL WAS SURGES AND DEVELOPED FOR 8 HOURS AS PER THE SPECS BUT THE NTU'S WERE NOT LESS THAN 16  THE NTU READING WAS 195. CLARIFICATION OF THE		
BOREHOLE DIAMETER, DEPTH AND LOCATION CONFORM WITH CONTRACT DRAWING.  3. DUST CONTROL ACTION TAKEN  NONE REQUIRED  1. LOCATION (N/E COORDINATE)  N/A  REMARKS DEVELOPED MONITORING WELL MWR-11, THE WELL WAS SURGES AND DEVELOPED FOR 8 HOURS AS PER THE SPECS BUT THE NTU'S WERE NOT LESS THAN 16  THE NTU READING WAS 195. CLARIFICATION OF THE	2. PLACEMENT	•
ACTION TAKEN NOWE REQUIRED  1. 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 16  THE NTU READING WAS 195. CLARIFICATION OF THE	BOREHOLE DIAMETER, DEPTH AND LOCATI	ON
LOCATION (N/E COORDINATE)  N/A  REMARKS DEVELOPED MONITORING WELL MWR-11, THE  WELL WAS SURGES AND DEVELOPED FOR 8 HOURS AS PER  THE SPECS BUT THE NTU'S WERE NOT LESS THAN 16  THE NTU READING WAS 195. CLARIFICATION OF THE		
N/A.  REMARKS DEVELOPED MONITORING WELL MWR-11. THE  WELL WAS SURGED AND DEVELOPED FOR 8 HOURS AS PER  THE SPECS BUT THE NTUS WERE NOT LESS THAN 16  THE NTU READING WAS 195. CLARIFICATION OF THE	ACTION TAKEN NOVE KEG	DU RED
	N/A -	WELL MWR-11, THE
SPECIFICATIONS WOULD BE APPRECIATED.	REMARKS DEVELOPED MONITORING & WELL WAS SURGES AND DEVELO	open for 8 Hours As Per
	REMARKS DEVELOPED MONITORING DEVELOPED MONITORING DEVELOPED MONITORING DEVELOPED AND DEVELOPED AND DEVELOPED THE SPECS, BUT THE NTUS  THE NTU READING WAS 195. CL	WERE NOT LESS THAN A
	REMARKS DEVELOPED MONITORING & WELL WAS SURGES AND DEVELO THE SPECS BUT THE NTUS THE NTU READING WAS 195. CL	WERE NOT LESS THAN 16  PRIFICATION OF THE
_	REMARKS DEVELOPED MONITORING DEVELOPED MONITORING DEVELOPED MONITORING DEVELOPED AND DEVELOPED AND DEVELOPED THE SPECS, BUT THE NTUS  THE NTU READING WAS 195. CL	WERE NOT LESS THAN 16  PRIFICATION OF THE
	REMARKS DEVELOPED MONITORING DEVELOPED MONITORING DEVELOPED MONITORING DEVELOPED AND DEVELOPED AND DEVELOPED THE SPECS, BUT THE NTUS  THE NTU READING WAS 195. CL	WERE NOT LESS THAN 16  PRIFICATION OF THE
	REMARKS DEVELOPED MONITORING DEVELOPED MONITORING DEVELOPED MONITORING DEVELOPED AND DEVELOPED AND DEVELOPED THE SPECS, BUT THE NTUS  THE NTU READING WAS 195. CL	WERE NOT LESS THAN 16  PRIFICATION OF THE
	REMARKS DEVELOPED MONITORING DEVELOPED MONITORING DEVELOPED MONITORING DEVELOPED AND DEVELOPED AND DEVELOPED THE SPECS, BUT THE NTUS  THE NTU READING WAS 195. CL	WERE NOT LESS THAN A
INSPECTOR Tudence Waster DATE 10-16-92  REVIEWED BY LAND Solution DATE 10-19-92	REMARKS DEVELOPED MONITORING DEVELOPED MONITORING DEVELOPED MONITORING DEVELOPED AND DEVELOPED THE SPECS BUT THE NTUS  THE SPECS BUT THE NTUS  THE NTU READING WAS 195. CLA  SPECIFICATIONS WOULD BE APPRECIA	DATE 10-16-92

MONITORING WELL AND PIEZOMETER INSTALLATIONS	Inspecti Sket -	ON DATE 10	-21-9
1. MATERIAL	ACCEPT		N/A
- 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.			———
ACTION TAKEN NONE REQUIRE	- A		:
ACTION TAKEN NOVE LEGUIRE	<u> </u>	<del></del>	
. LOCATION (N/E COORDINATE) $\mathcal{N}/\mathcal{A}$			;
. REMARKS CONTINUED TO WORK ON	DEVELO	PINE TH	e
REMAINING WELLS.			
	<del> </del>		<u> </u>
			<del></del>
			:
		•	,
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			;
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			<b>1</b>
INSPECTOR I walked Mastets		DATE <u>/0-</u>	•

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FORM A-15 OF 📝 SHEET /

## INSPECTION DATE 12-15-92 MONITORING WELL AND PIEZOMETER INSTALLATIONS 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 REGULATION 4. LOCATION (N/E COORDINATE) MUR-7. ON DIKE 5. REMARKS MONITORING WELL MUR-7 WAS TODAY. BOO CALLONS OF WATER DEVELOPED TROM THE WELL OVER A I HOUR PERIOD THE ESTIMATED VOLUME OF THE WELL WAS 22 GALLONS, THE WATER FROM DEVELOPING THE WELL WAS PLACED IN THE WATER IMPOUNDMENT

DATE 12-15-92 DATE 12-16-92 REVIEWED BY

FORM A-15 SHEET \_ ( OF \_ / INSPECTION DATE \_/Z-16-92

## MONITORING WELL AND PIEZOMETER INSTALLATIONS

INSTALLATIONS	ACCEPT	REJECT			
MATERIAL	ACCEPT	REJECT	N/A		
- MONITORING WELL AND PIEZOMETER: MANUFACTURER'S CERTIFICATE HAS BEEN PROVIDED FOR MATERIAL (ATTACH COPY).					
- ANNULAR BACKFILL MATERIAL CONFORMS WITH SPECIFICATIONS.	<del></del>	<del></del>	_		
2. PLACEMENT					
- MONITORING WELL AND PIEZOMETER BOREHOLE DIAMETER, DEPTH AND LOCATION CONFORM WITH CONTRACT DRAWING.			<u>ت</u>		
3. DUST CONTROL					
ACTION TAKEN NONE REQUIRED	<del></del>	<del></del>			
4. LOCATION (N/E COORDINATE)					
MONITORING WELL DEVELO	PMENT A	142-6,5	4, 3, 2, +10		
REMARKS DEVELOPED 6 MONTORING WELLS TODAY AS					
LISTED ABOVE. THE AMOUNT	akt. To	Develor	* # ACH		
life it is MUR-4, 100 GAL; M	WK-5 9	0 G AL : 40	JR-4,		
55 GAL! MWR-3, 90 GAL! MWR-	·		· ·		
110 GAL.	<u> </u>				
	100 ML	ECENTE			
	الله	الأستناس المستركب			
	<del>-</del> ·		1		
			1		
INSPECTOR Tuderish Mailt		DATE /	-16.92		
REVIEWED BY John M. Fry		DATE <u>12</u>	-17-92		

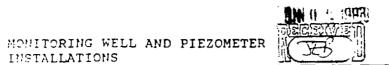
#### MONITORING WELL AND PIEZOMETER

IN	ISTALLATIONS						
Γ,	MATERIAL	ACCEPT	REJECT	N/A			
	- MONITORING WELL AND PIEZOMETER: MANUFACTURER'S CERTIFICATE HAS BEEN PROVIDED FOR MATERIAL (ATTACH COPY).						
	- ANNULAR BACKFILL MATERIAL CONFORMS WITH SPECIFICATIONS.	<del></del>		<u> </u>			
2.	PLACEMENT						
	<ul> <li>MONITORING WELL AND PIEZOMETER BOREHOLE DIAMETER, DEPTH AND LOCATION CONFORM WITH CONTRACT DRAWING.</li> </ul>						
3.	DUST CONTROL		•				
	ACTION TAKEN NOW FREE AND						
4.	. LOCATION (N/E COORDINATE)  MONTORING WILLS & PIE Zoma Takes  REMARKS MONTORING WILLS DEVELOPED &X VOLGINGE						
	Pletomatures Ax Volume monitoring will some BOAT						
	muli jave 9, mul B; Pie Zone Ters wells No. PI; PS, P4						
	Pla Contract fine product & was not would ted.						
	Volumas: Mux-1 115-gal. Mux-9 105gal; nux-8 80gal;						
	Plazometers 40 9AL EACH. Monitoring wells finished, Plazometers						
	2 wells Left.	DEC 1978	192				
		DECH TO					
			•				
	REVIEWED BY John D. For	Martilo	DATE //	2/17/92			
	REVIEWED BY John Q. to		_ DATE _/3	-/8-94			

FORM A-15 SHEET \_/\_ OF \_/ MONITORING WELL AND PIEZOMETER INSPECTION DATE 12.18.72 INSTALLATIONS 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 PIEZUMETER WELLS 5. REMARKS TIMESHED DEVELOPING THE PIEZOMETERS TODAY P-Z AND P-3 WERE COMPLETED, P-Z HAD 25 GALLONS PUMBED FROM IT AND P-3 HAD SO GALLOWS POMPED FROM IT. ALL MONITORING WELLS AND PIEZOMETERS HALE BEEN COMPLETED THE MONITORING WELLS ON THE DIKE HAVE BEEN MARKED WITH CRANCE STAKES AND PINK FLACS TO SHOW WHERE THEY ARE LOCATED

REVIEWED BY \_

DATE 1-2-13-92



TALLATIONS				
MATERIAL	<b>JN</b> 0 1 12	ACCEPT	REJECT	N/A
MONITORING WELL AN MANUFACTURER'S CENTROVIDED FOR MATER	RTIFICATE HAS BEE			<u> </u>
- ANNULAR BACKFILL N WITH SPECIFICATION				<u>'</u>
PLACEMENT				••
- MONITORING WELL AN BOREHOLE DIAMETER, CONFORM WITH CONTR	DEPTH AND LOCAT	ION	<del></del>	· ———
DUST CONTROL				
ACTION TAKEN <u>Wate</u> .	2 T2-CK			
LOCATION (N/E COORDI	NATE)			
PS5- AS EXTEND	ed Andaiso	P. 6 AS RE.	REO Chan	1 crdes
REMARKS Emper So	sils Invostigation	= 1-c. C	7115 AT 547	30 Pm
And installed A f	Pa Starke extrisi	ar And ALSO	EXTO dad The	2
PrezeniFix well	P-6.			
	_			
~				
	,			
A I	101+			1 1416
INSPECTOR Jack	A. Colemte		DATE DATE	6/4/9

## QUALITY ASSURANCE FORMS COMPLETED BY GEOSYNTEC CONSULTANTS

 FORM A-2A PLACEMENT OF SOIL-BENTONITE CUTOFF WALL

FORM A-2A SHEET Z OF Z

CEMENT OF SOIL BENTONITE CUTOFF WALL nt'd)	INSPECTION DATE 7/9/9		19/92
	ACCEPT	REJECT	N/A
BACKFILL			
- SLUMP TEST (EVERY 2000 CY)		<del></del>	
- DENSITY (EVERY 2000 CY)			
- PERMEABILITY (SHELBY) (EVERY 5000 CY)		<del></del>	
- SIEVE ANALYSIS (EVERY 2000 CY)			
- SLOPE			<u> </u>
- DISTANCE			
- CLAY CLOD SIZE			
- AGGREGATE SIZE		<del></del>	
KEY IN THE CLAY			
- DEPTH TO CLAY (EVERY 100 FEET)			
- SAMPLE OF CLAY FOR RECORD (EVERY			<u> </u>
100 FEET OF WALL LENGTH)			L
- ATTERBERG LIMITS (EVERY 500 FEET			
OF WALL LENGTH)			
TRENCH			
- VERTICALITY (EVERY JOO FEET)			
TRAFFIC CAP			
- THICKNESS OF CAP (EVERY 300 FEET)			<u>-</u> _
- MOISTURE CONTENT (EVERY 250 CY) - IN-PLACE DENSITY (EVERY 250 CY)			
- PERMEABILITY (EVERY 500 CY)			
•			
DUST CONTROL			
LOCATION			
REMARKS Depth cheeked at 5t	2+70		·
		-	
		•	
Inspector		DATE	
REVIEWED BY			
DEVIEWEN DV		D 2 M C	

FORM A-2A
SHEET \_\_\_\_\_OF \_\_\_\_
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	V		
	- WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR.			
	- SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.	<u> </u>		
2.	QC AND VERIFICATION TESTINGS			
ļ	FRESH SLURRY			
	- DENSITY (1 TEST PER WEEK) - VISCOSITY (1 TEST PER WEEK) - FILTRATE LOSS (1 TEST PER WEEK) - PH (1 TEST 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 (1 TEST: PER WEEK).			<u> </u>
	- VISCOSITY OF THE SLURRY (1 TEST PER WEEK)			

FORM A-2A SHEET \_2 OF \_Z

ACEMENT OF SOIL BENTONITE CUTOFF WALL	INSPECTI	ACCEPT REJECT			
	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)	<u>_</u>				
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)					
DUST CONTROL		·····			
LOCATION					
REMARKS Depth checked at 5t. 1+	oo and t	150			
INSPECTOR Collin P. S. Muse					
INSPECTOR (Slew F. K/hive	·	DATE	9-3-9		
REVIEWED BY		DATE	·		

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

FORM A-2A SHEET 2 OF 2

LACEMENT OF SOIL BENTONITE CUTOFF WALL cont'd)	INSPECTION DATE 7		7/14/92	
	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)		<del></del>		
TRAFFIC CAP				
- THICKNESS OF CAP (EVERY 300 FEET) - MOISTURE CONTENT (EVERY 250 CY) - IN-PLACE DENSITY (EVERY 250 CY) - PERMEABILITY (EVERY 500 CY)			V	
3. DUST CONTROL				
LOCATION				
5. REMARKS Depthis the Depth of To	ench Cl	recked at	51.0	
Verticality Charles at st. Otoc	)			
INSPECTOR Colling Sulvan		DATE	9-3-9	
REVIEWED BY		DATE		

FORM A-2A SHEET \_\_ ( OF PLACEMENT OF SOIL BENTONITE CUTOFF WALL INSPECTION DATE ACCEPT REJECT N/A MATERIAL 1. - 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 (1 TEST PER WEEK) - VISCOSITY (1 TEST PER WEEK) - FILTRATE LOSS (1 TEST PER WEEK) - pH (1 TEST 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

(1 TEST: PER WEEK).

- VISCOSITY OF THE SLURRY (1 TEST PER WEEK)

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

t,q)		ON DATE	413/12	
	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)			_ <u></u>	
- PERMEABILITY (EVERY 500 CY)				
DUST CONTROL				
LOCATION				
REMARKS Depth Clacket at St. 3	27+00			
C.M. D.			A	
INSPECTOR Collin P. Schow		DATE	9-3-	

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

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		<del></del>	
	- WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR.			
	- SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.	<u>/</u>		
2.	QC AND VERIFICATION TESTINGS			
	- DENSITY (1 TEST PER WEEK) - VISCOSITY (1 TEST PER WEEK) - FILTRATE LOSS (1 TEST PER WEEK) - PH (1 TEST 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 (1 TEST: PER WEEK).			_
	- VISCOSITY OF THE SLURRY (1 TEST PER WEEK)			

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

(cont'd)		,	, ,
	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)			<i>V X X</i>
3. DUST CONTROL			
4. LOCATION			
5. REMARKS Depth Checked at at 5t. 26to			
5. REMARKS Depth Checked at \$1.26to	. 26+00		
	Kelli Slump: 3½		
INSPECTOR _ Collin P. Suhow		DATE	9/3/92
REVIEWED BY		DATE	

FORM A-2A SHEET \_\_\_\_ OF \_\_ 2 PLACEMENT OF SOIL BENTONITE CUTOFF WALL INSPECTION DATE ACCEPT REJECT N/A 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 FRESH SLURRY - DENSITY (1 TEST PER WEEK) - VISCOSITY (1 TEST PER WEEK) - FILTRATE LOSS (1 TEST PER WEEK) - pH (1 TEST 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 (1 TEST: PER WEEK) - VISCOSITY OF THE SLURRY (1 TEST PER WEEK)

FORM A-2A SHEET 2 OF 2

CEMENT OF SOIL BENTONITE CUTOFF WALL	INSPECTI	T REJECT N/A	
	ACCEPT	REJECT	N/A
BACKFILL			
- SLUMP TEST (EVERY 2000 CY)			
- DENSITY (EVERY 2000 CY) - PERMEABILITY (SHELBY) (EVERY 5000 CY)		<del></del>	
- 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 JOO FEET)			
TRAFFIC CAP			
- THICKNESS OF CAP (EVERY 300 FEET)			
- MOISTURE CONTENT (EVERY 250 CY) - IN-PLACE DENSITY (EVERY 250 CY)			
- PERMEABILITY (EVERY 500 CY)		<del></del>	
DUST CONTROL			
LOCATION			
REMARKS Depth Cheeked at 27400 and	2400	ン 	
INSPECTOR Colling for have		פאעפ	9/3/9.
REVIEWED BY	<del></del>	DATE	_/!/
DEVIEWEN DV		DATE	

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

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

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.	<u>/</u>		
	- SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.	<u> </u>		
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)			
	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)			_

FORM A-2A SHEET 2 OF 2

1.33

ACEMENT OF SOIL BENTONITE CUTOFF WALL ont'd)	INSPECTI	ACCEPT REJECT N	
51.0 4/	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)	<u></u>		
- SAMPLE OF CLAY FOR RECORD (EVERY			
100 FEET OF WALL LENGTH)			
- ATTERBERG LIMITS (EVERY 500 FEET			
OF WALL LENGTH)			
TRENCH			
- VERTICALITY (EVERY JOO FEET)			
TRAFFIC CAP			
- THICKNESS OF CAP (EVERY 300 FEET)			
- MOISTURE CONTENT (EVERY 250 CY)		<del></del>	<del></del>
- IN-PLACE DENSITY (EVERY 250 CY) - PERMEABILITY (EVERY 500 CY)			<u></u>
DUST CONTROL			
LOCATION			
REMARKS Depth Chested at St. 23100			
FRESH SLURRY			
DENSITY: 60 10/fc.			
VIOLOS 174: 52 3500			
		•	
			•
INSPECTOR		DATE	
REVIEWED BY		DATE	

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

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

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 (1 TEST PER WEEK) - VISCOSITY (1 TEST PER WEEK) - FILTRATE LOSS (1 TEST PER WEEK) - PH (1 TEST PER WEEK)		<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 (1 TEST: PER WEEK)			/
	- VISCOSITY OF THE SLURRY (1 TEST PER WEEK)			
I				

FORM A-2A SHEET 2 OF 2

ACEMENT OF SOIL BENTONITE CUTOFF WALL	INSPECTION DATE 7/2/		1/21/32
	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			V V V
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			(15)
- VERTICALITY (EVERY 300 FEET)	<u></u>	<del></del>	
TRAFFIC CAP			
- THICKNESS OF CAP (EVERY 300 FEET) - MOISTURE CONTENT (EVERY 250 CY) - IN-PLACE DENSITY (EVERY 250 CY) - PERMEABILITY (EVERY 500 CY)			
. DUST CONTROL			
. LOCATION			
. REMARKS Depth checked at St. 21 too an	L 22100		
Verticality Checked at St. 21.	د در		
FRESH SWARY VISCOSITY: 99 5:25 DENSITY: 66 PCF FILTRATE: 13 ML/30 MIN PH: 8			
INSPECTOR Collin P. Suhow		DATE	9/3/92
REVIEWED BY		DATE	

FORM A-2A SHEET / OF Z INSPECTION DATE 7/21/92 PLACEMENT OF SOIL BENTONITE CUTOFF WALL ACCEPT REJECT N/A 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 FRESH SLURRY - DENSITY (1 TEST PER WEEK) - VISCOSITY (1 TEST PER WEEK) - FILTRATE LOSS (1 TEST PER WEEK) - pH (1 TEST 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 (1 TEST: PER WEEK) - VISCOSITY OF THE SLURRY (1 TEST PER WEEK)

FORM A-2-A SHEET 2 OF 2 PLACEMENT OF SOIL BENTONITE CUTOFF WALL INSPECTION DATE 7/22/92 (cont'd) 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 WA 4. LOCATION Depth check at 5t. 19+00 and 20+00; Vert. Checked st. 18+40 5. REMARKS \_ TREDUK SWARY BACKFILL Scump: 4" VIDESTLY: 74 SECS DONZUA: 133 10/262 DENSITY : 82 15/21 SIEVE COLLECTED 23+20

REVIEWED BY

FORM A-2A
SHEET \_/ OF \_Z
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 (1 TEST PER WEEK) - VISCOSITY (1 TEST PER WEEK) - FILTRATE LOSS (1 TEST PER WEEK) - pH (1 TEST 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 (1 TEST: PER WEEK)			
	- VISCOSITY OF THE SLURRY (1 TEST PER WEEK)	_		
I				

FORM A-2A SHEET 2 OF 2

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) - MOISTURE CONTENT (EVERY 300 FEET) - MOISTURE CONTENT (EVERY 250 CY) - IN-PLACE DENSITY (EVERY 250 CY) - PERMEABILITY (EVERY 500 CY)	ACCEPT	REJECT	N/A
- 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) - MOISTURE CONTENT (EVERY 300 FEET) - MOISTURE CONTENT (EVERY 250 CY) - IN-PLACE DENSITY (EVERY 250 CY) - PERMEABILITY (EVERY 500 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) - THICKNESS OF CAP (EVERY 300 FEET) - MOISTURE CONTENT (EVERY 250 CY) - IN-PLACE DENSITY (EVERY 250 CY) - PERMEABILITY (EVERY 500 CY)			<u></u>
- 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) - THICKNESS OF CAP (EVERY 300 FEET) - MOISTURE CONTENT (EVERY 250 CY) - IN-PLACE DENSITY (EVERY 250 CY) - PERMEABILITY (EVERY 500 CY)			<u></u>
- 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) - MOISTURE CONTENT (EVERY 300 FEET) - MOISTURE CONTENT (EVERY 250 CY) - IN-PLACE DENSITY (EVERY 250 CY) - PERMEABILITY (EVERY 500 CY)			<u>.</u>
- 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)			
- 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)			
- 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)	<u>-</u>		
- 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)	<u>-</u>		
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)			<u></u>
- 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)	<u>-</u> _		
- 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)	<u>-</u>		
- 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)			<u>lee</u>
- 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)			
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)			
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)			
- 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)			
TRAFFIC CAP  - THICKNESS OF CAP (EVERY 300 FEET)  - MOISTURE CONTENT (EVERY 250 CY)  - IN-PLACE DENSITY (EVERY 250 CY)  - PERMEABILITY (EVERY 500 CY)			
- THICKNESS OF CAP (EVERY 300 FEET) - MOISTURE CONTENT (EVERY 250 CY) - IN-PLACE DENSITY (EVERY 250 CY) - PERMEABILITY (EVERY 500 CY)		<del></del>	
- MOISTURE CONTENT (EVERY 250 CY) - IN-PLACE DENSITY (EVERY 250 CY) - PERMEABILITY (EVERY 500 CY)			
- MOISTURE CONTENT (EVERY 250 CY) - IN-PLACE DENSITY (EVERY 250 CY) - PERMEABILITY (EVERY 500 CY)			
- PERMEABILITY (EVERY 500 CY)		<del></del>	
,			
			<del></del>
DUST CONTROL	<del></del>		
LOCATION			
REMARKS Depth checked at St. 17400 as	cm d 1840	er)	
REMARKS CHEATER BY ST. 11100 000	3-REA 1010		

FORM A-2A		$\overline{}$
SHEET _/_	OF	<u></u>
INSPECTION	DATE	9/23/97

				7-7-
1.	MATERIAL	ACCEPT	REJECT	N/A
	- BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY)	<u> </u>		
	- ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY			
	- WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR.	V		
	- SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.	<u> </u>		
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)			
	ALL ABOVE TESTS SHALL BE PERFORMED FOR THE SLURRY READY TO BE PLACED IN THE TRENCH.			
	SLURRY IN TRENCH			
<u> </u> 	- DENSITY OF THE SLURRY (1 TEST: PER WEEK)			
	- VISCOSITY OF THE SLURRY (1 TEST PER WEEK)			

FORM A-2A SHEET \_\_\_\_ OF \_\_\_\_ Z

CEMENT OF SOIL BENTONITE CUTOFF WALL nt'd)	INSPECTI	ON DATE	1/24/92
	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)	<u> </u>		7
TRENCH			
- VERTICALITY (EVERY 300 FEET)			<u></u>
TRAFFIC CAP			
- THICKNESS OF CAP (EVERY 300 FEET) - MOISTURE CONTENT (EVERY 250 CY) - IN-PLACE DENSITY (EVERY 250 CY) - PERMEABILITY (EVERY 500 CY)			
DUST CONTROL			
LOCATION			
REMARKS Depth Checked at 16 too			
BACKFILL DENSITY: 131 IP/FE & SIBUT COLLECTED AT St. 18+40			
INSPECTOR Colling Suhon		DATE	9/3/9
REVIEWED BY		DATE	

FORM A-2A SHEET OF Z INSPECTION DATE 7/24/92

				11
1.	MATERIAL	ACCEPT	REJECT	N/A
	- BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY)	V	<del></del>	
	- 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.	<u>/</u>		
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)			
	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)			

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

cont'd)	INSPECTI	ON DATE	1127/92
	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)			9
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)			
. DUST CONTROL			
. LOCATION Double Checked at 5t. 15ton	<i>-</i>		
. REMARKS			
· · · · · · · · · · · · · · · · · · ·			
		<u> </u>	
INSPECTOR Colling la Kow		DATE	9/3/9.
REVIEWED BY	·	0100	
VM 1 2 4 7 4 7 4 7 4 7 7 7 7 7 7 7 7 7 7 7 7		DATE	

FORM A-2A SHEET \_\_/\_ OF PLACEMENT OF SOIL BENTONITE CUTOFF WALL INSPECTION DATE 7/27/92 ACCEPT REJECT N/A 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. 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) 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)

FORM A-2A SHEET \_\_\_\_ OF \_\_\_\_

BACKFILL - SLUMP TEST (		ACCEPT		
- SLUMP TEST (			REJECT	N/A
- DENGITY (EVE		<del></del>		
DENSITY (EVE	RY 2000 CY)	<del></del>		
- PERMEABILITY	(SHELBY) (EVERY 5000 CY)		<del></del>	
- SIEVE ANALYS	IS (EVERY 2000 CY)	<del></del>		
- SLOPE				
- DISTANCE				
- CLAY CLOD SI				
- AGGREGATE SI	ZE			<u></u>
KEY IN THE CLA	Υ.			
- DEPTH TO CL	Y (EVERY 100 FEET)			
	AY FOR RECORD (EVERY			<u></u>
	WALL LENGTH)			سا
- ATTERBERG LI OF WALL LENG	MITS (EVERY 500 FEET			
TRENCH	14 G J			
	(EVERY 300 FEET)			
TRAFFIC CAP				
- THICKNESS OF	F CAP (EVERY 300 FEET)			
- MOISTURE CON	NTENT (EVERY 250 CY)			
	NSITY (EVERY 250 CY)			
- PERMEABILITY	(EVERY 500 CY)			
DUST CONTROL				
LOCATION				
DEMARKS Dear	The Cheeked at 5t. 15toc ticulity cheeked at 5t. 14	14	14+00	
REMARKS	1: 111	1.	,00	
Ver	ticulity cheeked at 5t. 14	100		

FORM A-2A
SHEET / OF 2
INSPECTION DATE 8/4/92

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 (1 TEST PER WEEK) - VISCOSITY (1 TEST PER WEEK) - FILTRATE LOSS (1 TEST PER WEEK) - pH (1 TEST 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 (1 TEST: PER WEEK)	<del></del>		/
	- VISCOSITY OF THE SLURRY (1 TEST PER WEEK)			

FORM A-2A PLACEMENT OF SOIL BENTONITE CUTOFF WALL INSPECTION DATE \$/5/92 (cont'd) 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. 13tow

INSPECTOR	Collin P. Sukon	DATE 9/3/92
REVIEWED BY		DATE

1.	MATERIAL	ACCEPT	REJECT	N/A
	- BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY)	~		<del></del>
	- 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			
	- DENSITY (1 TEST PER WEEK) - VISCOSITY (1 TEST PER WEEK) - FILTRATE LOSS (1 TEST PER WEEK) - pH (1 TEST 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 (1 TEST: PER WEEK)			~
	- VISCOSITY OF THE SLURRY (1 TEST PER WEEK)		<del></del>	

FORM A-2A SHEET \_2 OF \_2

rement of soil Bentonite Cutoff Wall	INSPECTI	ON DATE	<u>x/6/9</u>
	ACCEPT	REJECT	N/A
BACKFILL			
- SLUMP TEST (EVERY 2000 CY)		<del></del>	
- DENSITY (EVERY 2000 CY) - PERMEABILITY (SHELBY) (EVERY 5000 CY)			
- SIEVE ANALYSIS (EVERY 2000 CY)			<u>-</u> -
- 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			L
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)			
DUST CONTROL			
LOCATION			
REMARKS Depth checked at St. 11+	' <del>v</del> o		
· · · · · · · · · · · · · · · · · · ·	BALKFILL Slump: 4	/ <u>.</u> "	
VIZEDITY: 37 SEET DENSITY: 65 9861	PLNSH1 : 12	7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
FILITATE : 15 MY30 MAN	SIENE COLLE	-76B 14+00	
P + : 7			
INSPECTOR Collin Police		DATE	9/3
REVIEWED BY			
KEATEMEN DI		DATE	

FORM A-2A
SHEET OF 2
INSPECTION DATE 8/6/92

1.	MATERIAL	ACCEPT	REJECT	N/A
i	- 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.	<u> </u>		
	- SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.	<u> </u>		
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)			
	ALL ABOVE TESTS SHALL BE PERFORMED FOR THE SLURRY READY TO BE PLACED IN THE TRENCH.	٠		
	SLURRY IN TRENCH			
	- DENSITY OF THE SLURRY (1 TEST: PER WEEK)			
	- VISCOSITY OF THE SLURRY (1 TEST PER WEEK)		****	

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FORM A-2A SHEET Z OF Z INSPECTION DATE \$/7/92

nt'd)			
	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)			
DUST CONTROL			
LOCATION			
REMARKS Depth Cheeped at 5t. 9	180 and	1100	
			,
(1/12.00 (			1
INSPECTOR _ laling frehom	<u> </u>	DATE	9/3/
REVIEWED BY		DATE	

FORM A-2A SHEET OF 2 INSPECTION DATE 8/7/92

		ACCEPT	REJECT	N/A
1.	MATERIAL	WACTE !	red ect	11/ K
	- 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.			<del></del>
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)			
	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).	<del></del>		/
	- VISCOSITY OF THE SLURRY (1 TEST PER WEEK)			/

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FORM A-2A
SHEET 2 OF 2
INSPECTION DATE 8/8/92

nt'd)	INSPECTION DATE 48/92		
	ACCEPT	REJECT	N/A
BACKFILL			
- SLUMP TEST (EVERY 2000 CY)		· .	
- DENSITY (EVERY 2000 CY)			
- PERMEABILITY (SHELBY) (EVERY 5000 CY)		<del></del>	
- SIEVE ANALYSIS (EVERY 2000 CY)	<del></del>	<del></del>	
- SLOPE			
- DISTANCE	<del></del>		
- CLAY CLOD SIZE			
- AGGREGATE SIZE			
KEY IN THE CLAY			
- DEPTH TO CLAY (EVERY 100 FEET)			
- SAMPLE OF CLAY FOR RECORD (EVERY	<del></del>	<del></del>	<u></u>
100 FEET OF WALL LENGTH)			
- ATTERBERG LIMITS (EVERY 500 FEET OF WALL LENGTH)			
TRENCH			
- VERTICALITY (EVERY JOO FEET)			9
TRAFFIC CAP			
- THICKNESS OF CAP (EVERY 300 FEET) - MOISTURE CONTENT (EVERY 250 CY) - IN-PLACE DENSITY (EVERY 250 CY) - PERMEABILITY (EVERY 500 CY)			
DUST CONTROL		· · · · · · · · · · · · · · · · · · ·	
LOCATION			
REMARKS Depth Checked at 5+. 8+	vo and 7	100.	
Verticality Checked at 5+ 75		» `	
TRENCH			
VIOCOSITY: 51 SEES DUNSITY: 90 ID/E:			
200211/ · 70 10/E1		,	
			,
INSPECTOR _ Collin P. Serhow		DATE	9/3/
DOUTDUMD AN			
REVIEWED BY		DATE	0 4 4 5 4 5 7 9 5 7 5 1

FORM A-2A SHEET \_ / OF PLACEMENT OF SOIL BENTONITE CUTOFF WALL 3/8/92 INSPECTION DATE 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 FRESH SLURRY - DENSITY (1 TEST PER WEEK) - VISCOSITY (1 TEST PER WEEK) - FILTRATE LOSS (1 TEST PER WEEK) - pH (1 TEST 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 (1 TEST: PER WEEK). - VISCOSITY OF THE SLURRY . (1 TEST PER WEEK)

4.

CONTRACTOR OF THE TRACTOR OF THE STATE OF THE STATE OF

FORM A-2A	ra Mas M	
SHEET 2 INSPECTION	OF <u>~</u>	
INSPECTION	DATE	8/10/92

(00	nt'd)			7-7-
		ACCEPT	REJECT	N/A
	BACKFILL		11-	•
	- 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)		<del>,</del>	
	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	<u> </u>		
5.	REMARKS Depth Cheeked of 54. 67	too and	5t30	<del></del>
	REMARKS Depth Cheeked of 54. 6+ be verticality Cheched at 6+000	id 5+3.	ائد ادار در	
	21	Stone correcto	10/fc4	
	TREACH SCOREY VISCOSHY: 57 cm; Valony + 66 1976.			
	INSPECTOR Colling Suhon	· · · · · · · · · · · · · · · · · · ·	DATE	9/3/92
	REVIEWED BY		DATE	المحاومة ويعارك المارية ومياده والمستحرية

FORM A-2A SHEET ( OF <u>2</u> PLACEMENT OF SOIL BENTONITE CUTOFF WALL 8/10/92 INSPECTION DATE ACCEPT REJECT N/A MATERIAL 1. 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 (1 TEST PER WEEK) - VISCOSITY (1 TEST PER WEEK) - FILTRATE LOSS (1 TEST PER WEEK) - pH (1 TEST 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 (1 TEST: PER WEEK). · VISCOSITY OF THE SLURRY (1 TEST PER WEEK)

PLACEMENT OF SOIL BENTONITE CUTOFF WALL

FORM A-2A COMMITTEE SHEET 2 OF 2

INSPECTION DATE 10/1/92

<u> </u>	nt'd)		
	-	ACCEPT	REJECT N/A
	BACKFILL		Watt For
	- 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	i l	· ;
	- 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	2 3/ 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	15 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	FRESH. SLURRY	, , , , ,	1 1 1 7 1 1
	VISCOSITY 40 SEC DENSITY 65 16/fc3		
	INSPECTOR Collin A. Sarkon	,	DATE /0///98

OF <u>2</u> SHEET \_\_/\_ PLACEMENT OF SOIL BENTONITE CUTOFF WALL INSPECTION DATE 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. 146 2 1 1 1 15- . . . 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) 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). The state of the second - VISCOSITY OF THE SLURRY (1 TEST PER WEEK) 15 m ... 4.55

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FORM A-2A

nt'd)		CUTOFF WALL	INSPECTION ACCEPT	REJECT N
BACKFILL	100		110021	
- DENSITY - PERMEABI	ST (EVERY 200 (EVERY 2000 C LITY (SHELBY) ALYSIS (EVERY	Y) (EVERY 5000 C	- <del> </del>	2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
- SLOPE - DISTANCE - CLAY CLO - AGGREGAT	D SIZE	entre de la companya de la companya de la companya de la companya de la companya de la companya de la companya		
KEY IN THE				
- SAMPLE O	CLAY (EVERY F CLAY FOR RE OF WALL LENG G LIMITS (EVE LENGTH)	CORD (EVERY TH)		
TRENCH			,	1 3. 6 h 1 - 2 h
- VERTICAL	ITY (EVERY )	O FEET)		- <u></u>
TRAFFIC CA	<b>LE</b> (12)			
- MOISTURE	S OF CAP (EVI CONTENT (EVI DENSITY (EVI LLITY (EVERY	ERY 250 CY) ERY 250 CY)		
DUST CONTR	OL			<u> </u>
LOCATION _				
REMARKS _	Depth Che	cked at 5+0	o as 31', 4	1+00 at 31'
	Varticality c	hecked at 4+8	o and 40	
TRE	FUCH SLURRY. Viscosity: 53 Density: 67 11	Sec.	SCURRY LIRATE: 12 ML/ PH = 8	30 sec
	$\sim$ $\sim$	$2 \cdot \bigcirc$	レ・	DATE /0/

FORM A-2A SHEET / OF Z INSPECTION DATE 10/2/92

sangaran da kabupatèn da kabupat	un salar - 3 m - 1	.,	
1. MATERIAL	ACCEPT	REJECT	N/A
- BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY)		<u>· · ·</u>	
- ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY	1.50 m	,	
- WATER IS OBTAINED FROM THE SOURCE ACCEPTED BY THE CONSTRUCTION MGR.		-	
- SOIL IS OBTAINED FROM THE BORROW AREA ACCEPTED BY THE CONSTRUCTION MANAGER.		·	
And the second s	gradija izvalja. Gradija 1982.	****	
2. QC AND VERIFICATION TESTINGS	1 1,	•	
FRESH SLURRY			
- DENSITY (1 TEST PER WEEK) - VISCOSITY (1 TEST PER WEEK) - FILTRATE LOSS (1 TEST PER WEEK) - PH (1 TEST PER WEEK)	Set set of		<u>/</u>
ALL ABOVE TESTS SHALL BE PERFORMED FOR THE SLURRY READY TO BE PLACED IN THE TRENCH.	1917   1   1   1   1   1   1   1   1   1		
SLURRY IN TRENCH			
- DENSITY OF THE SLURRY (1 TEST PER WEEK).		<del></del>	
- VISCOSITY OF THE SLURRY (1 TEST PER WEEK)			

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	FORMS A=2A SO THE TOTAL SECTION OF THE SHEET AND A SOUTH OF THE SECTION OF THE SE
PLACEMENT OF SOIL BENTONITE CUTOFF WALL (CONt'd)	INSPECTION DATE 10/3/92
BACKFILL	ACCEPT REJECT N/A
- SLUMP TEST (EVERY 2000 CY) - DENSITY (EVERY 2000 CY) - PERMEABILITY (SHELBY) (EVERY 5000 CY) - SIEVE ANALYSIS (EVERY 2000 CY)	SAMPLE TAKEN 4+50
- 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	SUSPERING WILL FOR
- 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 Depthinchecked at St. 3th  2+70 (31') Verticality checked at  BACKFILL  SLUMP: 4"  DEVSITY: 125.7 18/21 3 at 4+50  Siewe Demple taken  200	10 (32'), 3+00 (32'), and
INSPECTOR Collin P. Service	DATE 10/3/92
REVIEWED BY	DATE

FORM A-2A SHEET / OF 2 INSPECTION DATE 10/3/92

				<del></del>
		ACCEPT	REJECT	N/A
1.	MATERIAL			ļ
	- BENTONITE: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY)			
	- ADDITIVES: MANUFACTURER'S QA CERTIFICATE (ONE PER TRUCK LOAD DELIVERY	<u> </u>		
	- 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 (1 TEST PER WEEK) - VISCOSITY (1 TEST PER WEEK) - FILTRATE LOSS (1 TEST PER WEEK) - PH (1 TEST 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 (1 TEST: PER WEEK).		<del></del>	
	- VISCOSITY OF THE SLURRY (1 TEST PER WEEK)	<u>:</u>		