Pasco County, Florida

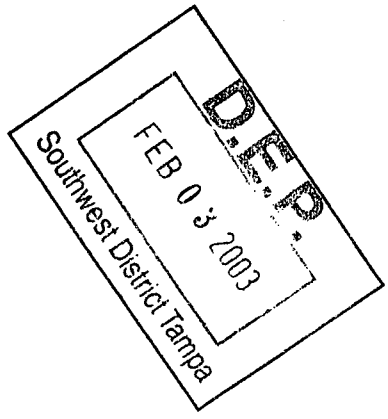
West Pasco County Landfill Expansion
Cells A-3 and SW-2

Certification of Construction Completion and Quality Assurance Documentation

January 2003

Volume 1 of 4

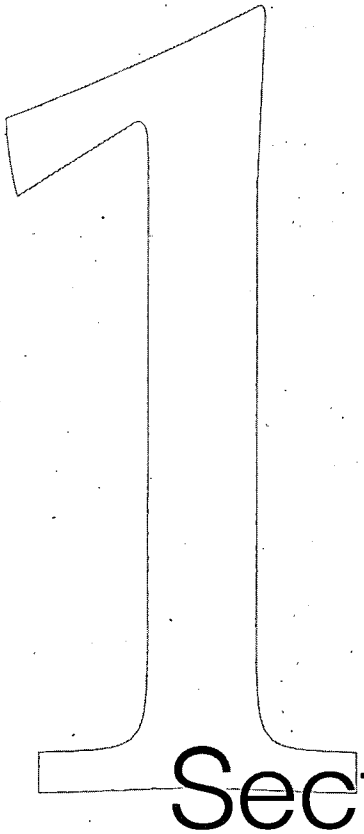
West Pasco County Landfill Expansion
Cells A-3 and SW-2
Certification of Construction Completion



VOLUME 1 OF 4

SECTION 1	QUALITY ASSURANCE DAILY REPORTS
SECTION 2	SUBGRADE ACCEPTANCE
SECTION 3	GCL BENTOMAT CRC CONFORMANCE TEST RESULTS
SECTION 4	GCL BENTOMAT CONFORMANCE TEST RESULTS
SECTION 5	GCL CLAYMAX CONFORMANCE TEST RESULTS
SECTION 6	GEOMEMBRANE CONFORMANCE TEST RESULTS SET 1 AND 2 OF 7

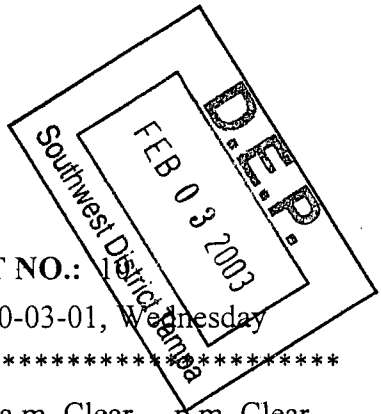
VOLUME 1



Section One

CDM Camp Dresser & McKee Inc.

RESIDENT INSPECTOR'S DAILY REPORT



PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 10

CONTRACTOR'S REP.: Greg Hillman **DATE:** 10-03-01, Wednesday

****

VISITORS: Gary Conway, Carl Asprinio

WEATHER: a.m. Clear p.m. Clear

TEMP. RANGE: 70° - 86°

RAINFALL: 0"

MAJOR DELIVERIES:

****

WORK PERFORMED:

Handex:

Dozer grading surface of stockpile area.

Labor crew digging test holes to locate and identify existing liner systems, both cells.

Gary Conway and Greg driving along east fence.

South End Development:

Continues to clear and grub stockpile/storage area.

Peninsula Survey:

Survey topo SW-2 area (close traverse).

Miscellaneous:

Monthly progress meeting at 3rd floor conference room.

Handex and Comanco submit numerous shop drawings at meeting.

After meeting, Comanco, Handex and I inspect exposed edges of tie-in and discuss area to be exposed for Comanco to tie in geosynthetics.

DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 10

CONTRACTOR'S REP.: Greg Hillman **DATE:** 10-03-01, Wednesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	6	Case 1150G Dozer 3 Pickup Trucks
South End Development	2	Volvo EC 36 Excavator Volvo L90C Loader
Peninsula Survey	3	1 Van

HOURS INSPECTOR PRESENT ON JOB SITE: _____

Resident Inspector

CDM Camp Dresser & McKee Inc.

RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 11

CONTRACTOR'S REP.: Greg Hillman **DATE:** 10-04-01, Thursday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Clear p.m. _____

TEMP. RANGE: 65° - 85°

RAINFALL: 0"

MAJOR DELIVERIES: _____

****

WORK PERFORMED:

Handex:

Dozer grading A-3 area.

Excavator (rental) arrives mid afternoon and starts uncovering cell tie-in in area A-3.

South End Development:

Preparing to burn 3 brush piles in A-3 area (Burn Permit #70661). Start burning at 9 a.m.

Peninsula Survey:

No work.

Miscellaneous:

Greg requests video back so he can copy and get footages.

Ron Walker wants to see a draft of job sign before it is made, and I convey the message to Greg who has no objection to that.

Ron Walker states that he has faxed PO number to job trailer (there was some confusion about PO numbers given at the3 progress meeting yesterday).

I point out to Greg that Leachate Spill Plan is not included on the submittal list. Greg says he believes it is listed in HASP.

DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 11

CONTRACTOR'S REP.: Greg Hillman **DATE:** 10-04-01, Thursday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	6	Kobelco SK200 Excavator 3 Pickup Trucks
South End Development	2	Volvo EC 36 Excavator Volvo L90C Loader
Peninsula Survey		

HOURS INSPECTOR PRESENT ON JOB SITE: 4.5 hrs. (7:30 a.m. – noon)

Resident Inspector

CDM Camp Dresser & McKee Inc.

RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 12

CONTRACTOR'S REP.: Greg Hillman **DATE:** 10-05-01, Friday

****

VISITORS: _____

_____

_____

WEATHER: a.m. P/Cldy p.m. _____

TEMP. RANGE: 65°

RAINFALL: 0"

MAJOR DELIVERIES: 3 rolls of 20-Mil Liner

****

WORK PERFORMED:

Handex:

Dozer continues grading for topo in A-3 Area.

Excavator moves to clearing in SW-2 area. Laborer and excavator continue to uncover Ash Cell 2 tie-in.

9:30 to 10:45 tucking secondary liner under primary liner along approximately 60 feet of increased excavation to the north.

Terex TA25 off-road dump truck arrives on site.

Crew of two continues uncovering liner.

South End Development:

Continues root raking to bring brush to piles besides stoking.

Burning second and later third set for brush piles (Burn Permit #70192).

DCW Civil Construction, Inc.:

Case Quadtrax 9380 with pull-along pans (Reynolds) arrives on site.

No work.

Peninsula Survey:

No work.

Comanco:

Loader, dozer, rubber tire hoe and pickup truck arrive on site.

Equipment being moved to staghing area.

CDM Camp Dresser & McKee Inc.

DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 12

CONTRACTOR'S REP.: Greg Hillman **DATE:** 10-05-01, Friday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	5	Kobelco SK200 Excavator Case 1150G Dozer John Deere 750C Dozer 3 Pickup Trucks Terex TA 25 Off-Road Dump Truck
South End Development	2	Volvo EC 36 Excavator Volvo L90C Loader
Comanco		John Deere 544G Loader w/Fork & Bucket John Deere 550G LGP Dozer John Deere 410E Rubber Tire Hoe Pickup Truck
DCW Civil Construction, Inc.		1 Case Quadtrax 9380 w/Pull-Along Pan (idle)
Peninsula Survey		

HOURS INSPECTOR PRESENT ON JOB SITE: 8:00 a.m. – Office

Resident Inspector

CDM Camp Dresser & McKee Inc.

RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 15

CONTRACTOR'S REP.: Greg Hillman **DATE:** 10-08-01, Monday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Clear p.m. Clear

TEMP. RANGE: 68° - 87°

RAINFALL: 0"

MAJOR DELIVERIES: _____

_____

_____

****

WORK PERFORMED:

Handex:

Dozer grading lay-down/stockpile area, knocking down berm and leveling a pad area for for trailer move and parking area.

Excavator taking road and base material to south side of SW-1. Loading off-road dump truck which is hauling to trailer pad area.

Mid p.m., dump truck start hauling to SW-1 north ramp into cell.

South End Development:

Continues to clear and grub SW-2 working west.

At 9 a.m. stacking brush and burning the east half of lay-down yard (Permit #72125).

DCW Civil Construction, Inc.:

No work.

Peninsula Survey:

No work.

Comanco:

3 people working on ash cell 2 rain tarp – County Project.

Miscellaneous:

Made phone calls regarding wells, permit to grout abandoned wells, and dig new ones.

Called CDM and John Power, Pasco County. Faxed available information to Contractor and reminded him to look at G-2.

Dry wind blowing dust around. Don Walker asks me to contact Contractor about dust control.

CDM Camp Dresser & McKee Inc.

DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 15

CONTRACTOR'S REP.: Greg Hillman **DATE:** 10-08-01, Monday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	5	Kobelco SK200 Excavator Case 1150G Dozer John Deere 750C Dozer Pickup Trucks Terex TA 25 Off-Road Dump Truck
South End Development	2	Volvo EC 36 Excavator Volvo L90C Loader
Comanco		John Deere 544G Loader John Deere 550G LGP Dozer John Deere 410E Rubber Tire Pickup Trucks
DCW Civil Construction, Inc.		1 Case Quadtrax 9380 w/Pan (idle)
Peninsula Survey		Van

HOURS INSPECTOR PRESENT ON JOB SITE: 6.5 hrs. (11:00 a.m. – 5:30 p.m.)

Resident Inspector

CDM Camp Dresser & McKee Inc.

RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 16

CONTRACTOR'S REP.: Greg Hillman **DATE:** 10-09-01, Tuesday

****

VISITORS: _____

_____

_____

_____

WEATHER: a.m. Clear p.m. P/Cldy

TEMP. RANGE: 67° - 83°

RAINFALL: No rain but windy

MAJOR DELIVERIES: _____

****

WORK PERFORMED:

Handex:

Excavator loading off-road dump truck with SW-1 road and base material.

Dozer using material to make haul road on top of SW-1 from northwest corner to east.

At 3 p.m., excavator and laborer uncover SW-1 tie-in area working east from old ramp.

Dozer scraping weeds and grass around.

South End Development:

Continues to clear and grub SW-2 west end area.

Loader stacking brush west end of lay-down yard (Permit #72447). Start burning at 9 a.m.

DCW Civil Construction, Inc.:

No work.

Peninsula Survey:

2 surveyors on site at 8:30 a.m. to complete A-3 topo.

Surveyor talking to Greg about locating fence and gas line south of Cell A-3, north of paved road.

At 3:30 p.m. surveyors say A-3 topo is complete.

Comanco:

9 people continue working on cell A-2 rain tarp – County Project.

Miscellaneous:

Greg says it is his intent to remove trailer pad area at the end of the job unless Ron Walker wants to keep it for ~~roll-~~off storage.

CDM Camp Dresser & McKee Inc.

DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 16

CONTRACTOR'S REP.: Greg Hillman **DATE:** 10-09-01, Tuesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	5	Kobelco SK200 Excavator Case 1150G Dozer John Deere 750C Dozer Pickup Trucks Terex TA 25 Off-Road Dump Truck
South End Development	2	Volvo EC 36 Excavator Volvo L90C Loader
Comanco		John Deere 544G Loader John Deere 550G LGP Dozer John Deere 410E Rubber Tire Pickup Trucks
DCW Civil Construction, Inc.		1 Case Quadtrax 9380 w/Pan (idle)
Peninsula Survey	2	Van

HOURS INSPECTOR PRESENT ON JOB SITE: 9 hrs. (7:30 a.m. – 4:45 p.m.)

Resident Inspector

CDM Camp Dresser & McKee Inc.

RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 17

CONTRACTOR'S REP.: Greg Hillman **DATE:** 10-10-01, Wednesday

****

VISITORS: _____

_____

_____

_____

WEATHER: a.m. Clear p.m. P/Cldy

TEMP. RANGE: 67° - 84°

RAINFALL: 0"

MAJOR DELIVERIES: _____

****

WORK PERFORMED:

Handex:

Excavator and laborer continue to uncover SW-1 tie-in; uncovered to the east end and then started working west from the cleared area at the old ramp.

Case dozer knocking down weeds and grass in the SW-2 area, preparing for SW-2 topo.

Water truck arrives at 4:00 p.m.

South End Development:

Another round of root raking in A-3 area. At 11:30 a.m. loader root raking stockpile area.

Excavator stacking brush in the laydown/stockpile area. (Permit #72621). Start burning west laydown area at 9 a.m.

At 1:30, excavator and Handex off-road dump truck moving A-3 root piles to laydown stockpile burn piles.

DCW Civil Construction, Inc.:

At 9 a.m. Cat D5M LGP Dozer arrives.

Fuel tank on site, uncontained. Contractor returing it for bigger double contained tank.

Peninsula Survey:

No work.

Comanco:

Continues working on site A-2 rain tarp – County Project.

Miscellaneous:

Soils Lab (Andreyev Eng. Inc.) to test sand sample. Ray Jones is contact person).

Well contractor, Universal Eng. Sciences, to plug 2 wells tomorrow (contact is Scott Graf).

CDM Camp Dresser & McKee Inc.

DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 17

CONTRACTOR'S REP.: Greg Hillman **DATE:** 10-10-01, Wednesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	5	Kobelco SK200 Excavator Case 1150G Dozer John Deere 750C Dozer (mechanic at 10:20) Pickup Trucks Terex TA 25 Off-Road Dump Truck Water Truck F750 (on site at 4 p.m.)
South End Development	2	Volvo EC 36 Excavator Volvo L90C Loader
Comanco		John Deere 544G Loader John Deere 550G LGP Dozer John Deere 410E Rubber Tire Pickup Trucks
DCW Civil Construction, Inc.		1 Case Quadtrax 9380 w/Pan (idle) 1 Cat D5M LGP Dozer (idle)
Peninsula Survey		Van

HOURS INSPECTOR PRESENT ON JOB SITE: 9 hrs. (7:30 a.m. – 4:45 p.m.)

John C Mc Gee III
Resident Inspector

CDM Camp Dresser & McKee Inc.

RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 18

CONTRACTOR'S REP.: Greg Hillman **DATE:** 10-11-01, Thursday

****

VISITORS: _____

WEATHER: a.m. P/Cldy p.m. P/Cldy

TEMP. RANGE: 68° - 87°

RAINFALL: 0"

MAJOR DELIVERIES:

Three loads of water – 2,000 gallons not metered.

****

WORK PERFORMED:

Handex:

Attempting to fill water truck at reuse hydrant – minimal flow. Greg consulting with Ron Walker to hook up elsewhere. At 8:30, water truck spraying A-3 to reduce dust. Excavator and laborer continue to uncover SW-1 tie-in. (Excavator down a couple of hours in the a.m.). At 1 p.m. 850-ft. of 1130-ft. SW-1 tie-in has been exposed.

South End Development:

Burning brush piles in south SW-2 (Permit #72810). Excavator and loader stacking.

DCW Civil Construction, Inc.:

At 7:45 a.m. pull pans start removing topsoil from A-3 center of cell and placing it in the stockpile area. At 2:30 p.m. both pull pans down. At 3 p.m. one operational again. Another fuel tank is brought on site (double wall above ground).

Peninsula Survey:

Surveyors staking out A-3 inside toe of slope 4 corners with cut for Contractor to rough-cut cell.

Comanco:

Continues working on site A-2 rain tarp – County Project.

Miscellaneous:

Greg has a bucket sample of SW-2 sand to be tested at the job trailer.

CDM Camp Dresser & McKee Inc.

DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 18

CONTRACTOR'S REP.: Greg Hillman **DATE:** 10-11-01, Thursday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	5	F750 Water Truck Kobelco SK200 Excavator Case 1150G Dozer John Deere 750C Dozer (mechanic at 10:20) Pickup Trucks Terex TA 25 Off-Road Dump Truck
South End Development	2	Volvo EC 36 Excavator Volvo L90C Loader
Comanco		John Deere 544G Loader John Deere 550G LGP Dozer John Deere 410E Rubber Tire Pickup Trucks
DCW Civil Construction, Inc.	2	2 Case Quadtrax 9380 w/Pan 1 Cat D5M LGP Dozer (idle)
Peninsula Survey	2	Van

HOURS INSPECTOR PRESENT ON JOB SITE: 7.5 hrs. (7:45 a.m. – 3:15 p.m.)

Resident Inspector

CDM Camp Dresser & McKee Inc.

RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 19

CONTRACTOR'S REP.: Greg Hillman **DATE:** 10-12-01, Friday

****

VISITORS: _____

WEATHER: a.m. P/Cldy p.m. P/Cldy

TEMP. RANGE: 68° - 86°

RAINFALL: 0"

MAJOR DELIVERIES:

Three loads of water – 2,000 gallons not metered.

****

WORK PERFORMED:

Handex:

Water truck being filled at reuse hydrant behind Leachate Plant. – good flow now that valve is all the way open. Watering A-3, haul route, and laydown area.

Liner tie-in clean-off was completed Thursday in the p.m.

Two dozers working in the stockpile area.

In the p.m., Volvo 6-wheel off-road A40 9,000 gallon water truck on site.

South End Development:

Excavator and loader stacking brush in west SW-2. Burning starts at 9:00 a.m. (Permit #73291)

DCW Civil Construction, Inc.:

Briggs mechanic working shortly on one pull pan in the a.m. Both pull pans hauling top soil from A-3 to stockpile area.

Peninsula Survey:

No work.

Comanco:

Continues working on site A-2 rain tarp – County Project.

Miscellaneous:

Sign sketch was approved.

CDM Camp Dresser & McKee Inc.

DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 20

CONTRACTOR'S REP.: Greg Hillman **DATE:** 10-13-01, Saturday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	3	Volvo A40 Water Truck Kobelco SK200 Excavator Case 1150G Dozer John Deere 750C Dozer (mechanic at 10:20) Pickup Trucks Terex TA 25 Off-Road Dump Truck Volvo 6-wheel Off-Road A40 Water Truck
South End Development	0	Volvo EC 36 Excavator (idle) Volvo L90C Loader (idle)
Comanco		John Deere 544G Loader John Deere 550G LGP Dozer John Deere 410E Rubber Tire Pickup Trucks
DCW Civil Construction, Inc.	2	2 Case Quadtrax 9380 w/Pan 1 Cat D5M LGP Dozer (idle)
Peninsula Survey	0	Van

HOURS INSPECTOR PRESENT ON JOB SITE: 2.5 hrs (7:30 a.m. – 10:00 a.m.)

Resident Inspector

CDM Camp Dresser & McKee Inc.

RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 22

CONTRACTOR'S REP.: Greg Hillman **DATE:** 10-15-01, Monday

****

VISITORS: _____

_____

_____

_____

WEATHER: a.m. P/Cldy p.m. P/Cldy

TEMP. RANGE: 70° - 86°

RAINFALL: 0"

MAJOR DELIVERIES: _____

****

WORK PERFORMED:

Handex:

Water truck being services by L.B. Smith (soil moist from weekend rain). Starts watering the haul route around noon.

2 dozers knocking down weeds and grass in SW-2 south side area.

South End Development:

Continue burning in SW-2 west end area. 6 burn piles are consolidated into one.

Loader being serviced at 2:30 p.m.

DCW Civil Construction, Inc.:

Two sets of pull pans running between A-3 and stockpile area.

John Deere 8870 w/single pan arrives at 10:30 a.m. without tractor (nothing available to unload it).

Start placing cleaner sand at southeast stockpile area for liner lay-down.

Peninsula Survey:

No work.

Comanco:

Continues working on site A-2 rain tarp – County Project.

Miscellaneous:

Made calls to Abdul (CDM) and Pablo (Comanco) to discuss liner testing frequencies and cost.

Bill calls fuel company about getting empty tank off the site.

DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 22

CONTRACTOR'S REP.: Greg Hillman **DATE:** 10-15-01, Monday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	5	Volvo A40 Water Truck Kobelco SK200 Excavator Case 1150G Dozer John Deere 750C Dozer (mechanic at 10:20) 2 Pickup Trucks Terex TA 25 Off-Road Dump Truck (idle)
South End Development	2	Volvo EC 36 Excavator Volvo L90C Loader
Comanco		John Deere 544G Loader John Deere 550G LGP Dozer John Deere 410E Rubber Tire Pickup Trucks
DCW Civil Construction, Inc.	2	2 Case Quadtrax 9380 w/Double Pan 1 John Deere 8870 w/Single Pan 1 Cat D5M LGP Dozer (idle)
Peninsula Survey	0	Van

HOURS INSPECTOR PRESENT ON JOB SITE: 8.5 hrs. (7:30 a.m. – 4:00 p.m.)

Resident Inspector

CDM Camp Dresser & McKee Inc.

RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 23

CONTRACTOR'S REP.: Greg Hillman **DATE:** 10-16-01, Tuesday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Cldy. p.m. Cldy.

TEMP. RANGE: 70° - 84°

RAINFALL: 0"

MAJOR DELIVERIES: _____

****

WORK PERFORMED:

Handex:

Crew preparing to move job trailer. Trailers to be moved farther from road with a parking area. Second trailer arrives and is being placed. Original trailer to move on to pad area.

Late a.m. water truck starts running.

Dozer grading liner lay-down area.

South End Development:

Stacking remainder of brush SW-2 area (S.E. Burn Permit #74425).

Root raking west end of SW-2 area.

Knocked down more trees for surveyors to finish 50-foot grid.

DCW Civil Construction, Inc.:

Continue hauling from A-3 to stockpile area. At 8:30 one pull pan being serviced (20 min.).

Dozer and John Deere pull pan idle.

Peninsula Survey:

At 8:30 a.m surveyors on site to topo SW-2 area. Leaving at 11:00 a.m.

Comanco:

Continues working on rain tarp – County Project.

Miscellaneous:

Empty fuel tank being removed (10:15 a.m.).

At noon Universal on site to grout abandoned wells 4MW16D and 4MW15D. SWFWMD rep. on site (12:50 p.m.) to document. Completed and checked by 1:30 p.m.

Verizon on site at 2:30 p.m. to reconnect phone lines.

CDM Camp Dresser & McKee Inc.

DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 23

CONTRACTOR'S REP.: Greg Hillman **DATE:** 10-16-01, Tuesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	3	Volvo A 40 Water Truck Kobelco SK200 Excavator Case 1150G Dozer (idle) John Deere 750C Dozer 2 Pickup Trucks Terex TA 25 Off-Road Dump Truck (idle)
South End Development	2	Volvo EC 36 Excavator Volvo L90C Loader
Comanco		John Deere 544G Loader John Deere 550G LGP Dozer John Deere 410E Rubber Tire Pickup Trucks
DCW Civil Construction, Inc.	2	2 Case Quadtrax 9380 w/Pan - 1 blew line on engine (switched to John Deere) 1 John Deere 8870 w/Pan 1 Cat D5M LGP Dozer (idle)
Peninsula Survey (8:30 – 11:00 a.m.)	2	Van

HOURS INSPECTOR PRESENT ON JOB SITE: 8.5 hrs. (7:20 a.m. – 3:50 p.m.)

Resident Inspector

CDM Camp Dresser & McKee Inc.

RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 24

CONTRACTOR'S REP.: Greg Hillman **DATE:** 10-17-01, Wednesday

****

VISITORS: _____

_____

_____

WEATHER: a.m. P/Cldy. p.m. P/Cldy.

TEMP. RANGE: 63° - 77°

RAINFALL: 0"

MAJOR DELIVERIES: _____

****

WORK PERFORMED:

Handex:

Moving from old job trailer to new.

At 8:30 a.m. water truck watering haul route.

Dozer working in stockpile area.

South End Development:

Not on site in the a.m. Did some maintenance work in the p.m.

All brush piles burned yesterday.

DCW Civil Construction, Inc.:

Both double pull pans hauling material from A-3 to stockpile area.

Peninsula Survey:

At 8:30 a.m surveyors continue to topo SW-2 area. I inform Greg that I may have to see a copy to approve topo if other CDMers are out of town.

Comanco:

Continues working on rain tarp – County Project.

Notes:

Greg asks for location of job sign, and John Power promises to look into it.

At noon Shawkat Ali from Ardaman calls to arrange getting an ash cell leachate sample for the CRC test. Greg asks him to bring a bucket with lid tomorrow a.m.

CDM Camp Dresser & McKee Inc.

DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 24

CONTRACTOR'S REP.: Greg Hillman **DATE:** 10-17-01, Wednesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	3	Volvo A 40 Water Truck Kobelco SK200 Excavator Case 1150G Dozer John Deere 750C Dozer Pickup Trucks Terex TA 25 Off-Road Dump Truck
South End Development (Maintenance part of the day)	(1)	Volvo EC 36 Excavator (idle) Volvo L90C Loader (idle)
Comanco		John Deere 544G Loader John Deere 550G LGP Dozer John Deere 410E Rubber Tire Pickup Trucks
DCW Civil Construction, Inc.	2	2 Case Quadtrax 9380 w/Pan – double pan broke at 3 p.m. (switched to John Deere) 1 John Deere 8870 w/Pull Pan 1 Cat D5M LGP Dozer (idle)
Peninsula Survey	2	Van

HOURS INSPECTOR PRESENT ON JOB SITE: 9 hrs. (7:40 a.m. – 4:40 p.m.)

Resident Inspector

CDM Camp Dresser & McKee Inc.

RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 25

CONTRACTOR'S REP.: Greg Hillman **DATE:** 10-18-01, Thursday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Clr. p.m. Clr.

TEMP. RANGE: 57° - 79°

RAINFALL: 0 "

MAJOR DELIVERIES: _____

****

WORK PERFORMED:

Handex:

Water truck watering from A-3 to stockpile area.

Dozer grading stockpile area.

Start installation of job sign before lunch at the location indicated by John Power.

South End Development:

Brings an old D4OD off-road dumptruck on site.

DCW Civil Construction, Inc.:

Running 1 double pull pan and 1 single pull pan; the other double pull pan still down.

Mechanic repairs tires on pull pan at noon.

At 1:50 p.m. both double pull pans down.

Peninsula Survey:

At 9:00 a.m surveyors on site to continue SW-2 topo. I initial drawing line for surveyor to lay out four inside toe corners of SW-2. Topo to be ready tomorrow.

Comanco:

Continues working on rain tarp – County Project.

Placing donnage for liner stockpile area.

Notes:

Leachate is collected for CRC GCL test to go to Ardaman. Was dropped of at 4:30 p.m.

Some discussion about monitoring well internal works.

DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 25

CONTRACTOR'S REP.: Greg Hillman **DATE:** 10-18-01, Thursday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	3	Volvo A 40 Water Truck Kobelco SK200 Excavator Case 1150G Dozer John Deere 750C Dozer 2 Pickup Trucks Terex TA 25 Off-Road Dump Truck (idle)
South End Development	0	Volvo EC 36 Excavator (idle) Volvo L90C Loader (idle) 4DOD Off-Road Dump Truck
Comanco		John Deere 544G Loader John Deere 550G LGP Dozer John Deere 410E Rubber Tire Pickup Trucks
DCW Civil Construction, Inc.	2	2 Case Quadtrax 9380 w/Pan 1 John Deere 8870 w/Pull Pan 1 Cat D5M LGP Dozer (idle)
Peninsula Survey	2	Van

HOURS INSPECTOR PRESENT ON JOB SITE: 8.5 hrs. (7:30 a.m. – 2:00 p.m. to lab 4:40 drop-off)

Resident Inspector

CDM Camp Dresser & McKee Inc.

RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 26

CONTRACTOR'S REP.: Greg Hillman **DATE:** 10-19-01, Friday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Clr. p.m. P/Cldy

TEMP. RANGE: 65° - 83°

RAINFALL: 0"

MAJOR DELIVERIES:

2 rolls of GundSeal, cut in two pieces, arrive in the a.m. (stored on pipe donnage and covered with 20 Mil liner in the p.m.)

****

WORK PERFORMED:

Handex:

Water truck watering haul routes.

2 dozers leveling soil in stockpile area.

South End Development:

Crew on site to look at SW-2 cell area and sign in at Handex trailer for site introduction.

At 9:50 a.m. excavator arrives. Also dozer is on site.

At 3:15 p.m. another off-road dump truck arrives.

DCW Civil Construction, Inc.:

1 double pull pan running in A-3 and excavator (arrived yesterday p.m.) loading it.

At 9:30 a.m. D400E arrives and is hauling from A-3 to stockpile area.

At east end of A-3 some clayey material and rocky material are found.

At 3:15 p.m. another off-road dump truck arrives.

Comanco:

Continues working on rain tarp – County Project.

Miscellaneous:

Second fuel tank placed in lined sump.

At 4:20 I pick up copy of topo drawing from Peninsula Survey. Tampa Office receive their copy at 4:30 p.m.

DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 26

CONTRACTOR'S REP.: Greg Hillman **DATE:** 10-19-01, Friday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	5	Volvo A 40 Water Truck Kobelco SK200 Excavator (departs @ 10:45) Case 1150G Dozer John Deere 750C Dozer 2 Pickup Trucks Terex TA 25 Off-Road Dump Truck (off rent)
South End Development Crew on site in a.m.		1 Volvo EC 36 Excavator (2nd on site in p.m.) 1 Volvo L90C Loader 1 Case 1150G Dozer 1 D400 (2nd on site in p.m.)
Comanco		John Deere 544G Loader John Deere 550G LGP Dozer John Deere 410E Rubber Tire 2 Pickup Trucks (1 idle) (J. Deere idle after 2nd truck arrives)
DCW Civil Construction, Inc.	4	1 Case Quadtrax 9380 w/pan Kobelco SK480 LC Excavator 1 Cat D5M LGP Dozer 2 D400E Off-Road Dump Trucks
Peninsula Survey	0	

HOURS INSPECTOR PRESENT ON JOB SITE: _____

Resident Inspector

CDM Camp Dresser & McKee Inc.

RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 27

CONTRACTOR'S REP.: Greg Hillman **DATE:** 10-20-01, Saturday

****

VISITORS: _____

_____

_____

WEATHER a.m. CLDY p.m. _____

TEMP. RANGE: 70° - 86°

RAINFALL: 0"

MAJOR DELIVERIES: _____

****

WORK PERFORMED:

Handex:

Water truck watering haul route from A-3 to stockpile area.

1 dozer leveling stockpile area.

South End Development:

No work.

DCW Civil Construction, Inc.:

Kobelco excavator loading 3 haul trucks from A-3 cut area. One double pull pan still running.

Peninsula Survey:

No work.

Comanco:

Continues working on rain tarp – County Project.

Notes:

Jack (CDM) and Greg (Handex) review the field copy of Peninsula's SW-2 topo drawing and agree that it is accurate on the floor area of the cell. Contractor will begin in the cell floor area pending approval of the entire drawing.

DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 27

CONTRACTOR'S REP.: Greg Hillman **DATE:** 10-20-01, Saturday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	4	Volvo A 40 Water Truck Case 1150G Dozer John Deere 750C Dozer (idle) 2 Pickup Trucks Terex TA 25 Off-Road Dump Truck (off rent)
South End Development	0	2 Volvo EC 36 Excavators (idle) 1 Volvo L90C Loader (idle) 1 Case 1150G Dozer (idle) 1 Cat D400 (idle)
Comanco		John Deere 544G Loader John Deere 550G LGP Dozer John Deere 410E Rubber Tire Pickup Trucks
DCW Civil Construction, Inc.	5	1 Case Quadtrax 9380 w/Pan (operational) Kolbelco SK 480LC Excavator 1 D5M LGP Dozer 2 Cat D400E Off-Road Dump Truck 1 Cat D250E Off-Road Dump Truck
Peninsula Survey	0	

HOURS INSPECTOR PRESENT ON JOB SITE: 2.5 hrs. (7:30 a.m. – 10:00 a.m.)

Resident Inspector

CDM Camp Dresser & McKee Inc.

RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 29

CONTRACTOR'S REP.: Greg Hillman **DATE:** 10-22-01, Monday

****

VISITORS: _____

_____

_____

WEATHER a.m. CLDY p.m. P/Cldy

TEMP. RANGE: 71° - 85°

RAINFALL: 1/8" over the weekend

MAJOR DELIVERIES: _____

****

WORK PERFORMED:

Handex:

Water truck running on both haul routes from SW-2 and A-3 to stockpile area (± 9:00 a.m.).

1 dozer and 1 loader grading SW-2 area.

South End Development:

2 excavators loading 4 off-road dump trucks with top soil type material from the west end floor of SW-2. At 8:00 a.m. one truck overheats.

DCW Civil Construction, Inc.:

1 excavator loading 3 off-road dump trucks in A-3 cell, and 1 pull pan operating from A-3 to stockpile area.

At 8:30 LowBoy loading broken pull pan to move from site.

D6M on site at 3:00 p.m. and starts grading.

Comanco:

Continues working on rain tarp – County Project.

Notes:

Locations needing silt fence are discussed; Greg will get a silt fence outfit on site soon.

Dan Strobridge called to say that the SW-2 topo was accepted.

Kirk from Handex called again about flow meters; I told him to contact Abdul (CDM).

DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 29

CONTRACTOR'S REP.: Greg Hillman **DATE:** 10-22-01, Monday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	5	Volvo A 40 Water Truck Case 1150G Dozer John Deere 750C Dozer 2 Pickup Trucks
South End Development	9	1 Terex TA 25 Off-Road Dump Truck 2 Volvo EC 36 Excavators 1 Volvo L90C Loader (idle) 3 Cat D250 Off-Road Dump Trucks (1 down) 1 Case 1150G Dozer
Comanco		John Deere 544G Loader John Deere 550G LGP Dozer John Deere 410E Rubber Tire Pickup Trucks
DCW Civil Construction, Inc.	5	1 Case Quadtrax 9380 w/pan (operational) 1 John Deere 8870 w/pan 1 Kobelco SK480 LC Excavator 1 Cat D5M LGP Dozer 2 D400E Off-Road Dump Trucks 1 Cat D250 Off-Road Dump Truck 1 D6M (arrives in the p.m.)
Peninsula Survey	0	

HOURS INSPECTOR PRESENT ON JOB SITE: 8.5 hrs (7:30 a.m. – 4:00 p.m.)

Resident Inspector

CDM Camp Dresser & McKee Inc.

RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 30

CONTRACTOR'S REP.: Greg Hillman **DATE:** 10-23-01, Tuesday

****

VISITORS: _____

_____

_____

WEATHER am Fog & P/Cldy pm M/Cldy

TEMP. RANGE: 73° - 84°

RAINFALL: Rainy in the p.m.

MAJOR DELIVERIES: _____

_____

_____

****

WORK PERFORMED:

Handex:

Water truck running mid a.m.

Dozers working stockpiles (two areas) topsoil and common fill.

South End Development:

2 excavators loading 4 off-road dump trucks from westward end of floor of SW-2, moving top soil type material to stockpile. Dozer and loader grading cell area.

At 11:30 road grader arrives and broken down truck departs.

DCW Civil Construction, Inc.:

1 excavator loading 3 off-road dump trucks in A-3 cell, and D6 dozer grading cell area.

Excavated material to stockpile area. D6 stripping top soil on A-2 south slope.

At 10:15 a.m. pull pan repaired, and D250 dump truck operator uses pull pan instead as haul vehicle.

Comanco:

Continues working on rain tarp – County Project.

Miscellaneous:

Greg and Ron from County set up Road and Bridge Department stockpile location, and hauling begins before 2:00 p.m. (shorter haul for DCW – cycle time w/loading = 12 min.)

Jack and Greg discuss excess topsoil removal from south edge of SW-2; Greg promises it will be addressed when swales are cut and graded.

DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 30

CONTRACTOR'S REP.: Greg Hillman **DATE:** 10-23-01, Tuesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	3	Volvo A 40 Water Truck Case 1150G Dozer John Deere 750C Dozer 2 Pickup Trucks
South End Development	8	1 Terex TA 25 Off-Road Dump Truck 2 Volvo EC 36 Excavators 1 Volvo L90C Loader 3 Cat D250 Off-Road Dump Trucks 1 Case 1150G Dozer
Comanco		John Deere 544G Loader John Deere 550G LGP Dozer John Deere 410E Rubber Tire Pickup Trucks
DCW Civil Construction, Inc.	5	1 Case Quadtrax 9380 w/pan (operational) 1 John Deere 8870 w/pan (idle) 1 Kobelco SK480 LC Excavator 1 Cat D5M LGP Dozer (idle) 2 Cat D400E Off-Road Dump Trucks 1 Cat D250 Off-Road Dump Truck 1 D6M

HOURS INSPECTOR PRESENT ON JOB SITE: 7.5 hrs (7:25 a.m. – 3:05 p.m.)

Resident Inspector

CDM Camp Dresser & McKee Inc.

RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 31

CONTRACTOR'S REP.: Greg Hillman **DATE:** 10-24-01, Wednesday

****

VISITORS: _____

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_____

WEATHER: a.m. Cldy p.m. M/Cldy

TEMP. RANGE: 75° - 86°

RAINFALL: 0

MAJOR DELIVERIES: _____

****

WORK PERFORMED:

Handex:

2 dozers working in stockpile area.

Water truck on haul road (L.B. Smith repairing water truck (2:00-2:35 p.m.) – operational.

Laborer digging along edge of topsoil pile and haul route in preparation for silt fence.

South End Development:

2 excavators loading 4 off-road dump trucks from SW-2 area - one loading topsoil type material from the central SW-2 area, and the other loading the old road berm onto trucks.

1 dozer, 1 loader, and 1 grader working cell area and haul road.

DCW Civil Construction Inc.:

Excavator loading 2 off-road dump trucks in A-3 cell.

Dump trucks hauling excavated material to Road and Bridge stockpile, and remaining pull pan hauling to stockpile area.

D6M doing some side slope shaping work at A-2.

Comanco:

Continues working on rain tarp – County Project.

CDM Camp Dresser & McKee Inc.

DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 31

CONTRACTOR'S REP.: Greg Hillman **DATE:** 10-24-01, Wednesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	6	Volvo A 40 Water Truck Case 1150G Dozer John Deere 750C Dozer 2 Pickup Trucks
South End Development	8	1 Terex TA 25 Off-Road Dump Truck 2 Volvo EC 36 Excavators 1 Volvo L90C Loader 3 Cat D400 Off-Road Dump Trucks 1 Case 1150G Dozer 1 John Deere 570A Grader
Comanco		John Deere 544G Loader John Deere 550G LGP Dozer John Deere 410E Rubber Tire Pickup Trucks
DCW Civil Construction, Inc.	5	1 Case Quadtrax 9380 w/pan (operational) 1 John Deere 8870 w/pan 1 Kobelco SK480 LC Excavator 1 Cat D5M LGP Dozer (idle) 2 Cat D400E Off-Road Dump Trucks 1 Cat D250 Off-Road Dump Truck (idle) 1 Cat D6M
Peninsula Survey	0	

HOURS INSPECTOR PRESENT ON JOB SITE: 9.5 hrs (7:25 a.m. – 5:00 p.m.)

Resident Inspector

CDM Camp Dresser & McKee Inc.

RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 32

CONTRACTOR'S REP.: Greg Hillman **DATE:** 10-25-01, Thursday

****

VISITORS: _____

_____

_____

WEATHER: a.m. P/Cldy p.m. M/Cldy

TEMP. RANGE: 75° - 86°

RAINFALL: No rain, but windy p.m.

MAJOR DELIVERIES: _____

_____

_____

****

WORK PERFORMED:

Handex:

2 dozers working the stockpile.

Water truck watering haul routes. Stops working at 2:00 p.m.

Silt fence being placed near topsoil stockpile and locations on haul route.

South End Development:

2 excavators loading 4 off-road dump trucks from SW-2 area to stockpile.

Dozer and grader maintaining routes and pushing topsoil material into piles.

Placing some fill on SW-1.

DCW Civil Construction Inc.:

Excavator loading 3 off-road dump trucks in A-3 cell.

Dump trucks hauling excavated material to Road and Bridge stockpile.

D6M continues shaping A-2 side slope, pushing topsoil down past existing swale.

At 9:30 a.m. excavator down. At 11:30 loading trucks again.

340 yds^3 hauled to C&D Landfill area from A-3.

Comanco:

Continues working on rain tarp – County Project.

_____

CDM Camp Dresser & McKee Inc.

DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 32

CONTRACTOR'S REP.: Greg Hillman **DATE:** 10-25-01, Thursday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	6	Volvo A 40 Water Truck Case 1150G Dozer John Deere 750C Dozer 2 Pickup Trucks
South End Development	8	1 Terex TA 25 Off-Road Dump Truck 2 Volvo EC 36 Excavators 1 Volvo L90C Loader 3 Cat and Bell D250 Off-Road Dump Trucks 1 Case 1150G Dozer 1 John Deere 570A Grader
Comanco		John Deere 544G Loader John Deere 550G LGP Dozer John Deere 410E Rubber Tire Pickup Trucks
DCW Civil Construction, Inc.	5	1 Case Quadtrax 9380 w/pan (down all day) 1 John Deere 8870 w/pan 1 Kobelco SK480 LC Excavator 1 Cat D5M LGP Dozer (idle) 2 Cat D400E Off-Road Dump Trucks 1 Cat D250 Off-Road Dump Truck (idle) 1 Cat D6M
Peninsula Survey	0	

HOURS INSPECTOR PRESENT ON JOB SITE: ?? hrs (7:10 a.m. – ?:00 p.m.)

Resident Inspector

CDM Camp Dresser & McKee Inc.

RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 33

CONTRACTOR'S REP.: Greg Hillman **DATE:** 10-26-01, Friday

****

VISITORS: _____

Jeff Smith, Alpha Valve & Controls

_____

WEATHER: a.m. M/Cldy p.m. P/Cldy

TEMP. RANGE: 73° - 85°

RAINFALL: _____

MAJOR DELIVERIES: _____

****

WORK PERFORMED:

Handex:

2 dozers continue in stockpile area knocking down piles.

Water truck being repaired and is working again at 1:15 p.m.

Silt fence installation continues.

South End Development:

2 excavators loading 4 off-road dump trucks from east end of cell and old road berm.

Dozer and grader maintaining routes and pushing material to excavators.

DCW Civil Construction Inc.:

Excavator loading 3 off-road dump trucks in A-3 cell.

Remaining pull pan hauling excavated material to stockpile.

Road and Bridge stockpile is complete.

D6M grading haul trails in A-3 area and stacking topsoil on north side of A-3.

Comanco:

Continues working on rain tarp – County Project.

CDM Camp Dresser & McKee Inc.

DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 33

CONTRACTOR'S REP.: Greg Hillman **DATE:** 10-26-01, Friday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	5	Volvo A 40 Water Truck Case 1150G Dozer John Deere 750C Dozer 2 Pickup Trucks
South End Development	8	1 John Deere 570A Grader 2 Volvo EC 36 Excavators 1 Volvo L90C Loader 4 Cat, Bell, Terex 25 Ton Off-Road Dumps 1 Case 1150G Dozer
Comanco		John Deere 544G Loader John Deere 550G LGP Dozer John Deere 410E Rubber Tire Pickup Trucks
DCW Civil Construction, Inc.	5	1 Case Quadtrax 9380 w/pan 1 John Deere 8870 w/pan (idle) 1 Kobelco SK480 LC Excavator 1 Cat D5M LGP Dozer (idle) - gone 2 Cat D400E Off-Road Dump Trucks 1 Cat D250 Off-Road Dump Truck 1 Cat D6M Dozer

HOURS INSPECTOR PRESENT ON JOB SITE: 8 hrs (Office 8-11 a.m., site till 4 p.m.)

Resident Inspector

CDM Camp Dresser & McKee Inc.

RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 34

CONTRACTOR'S REP.: Greg Hillman **DATE:** 10-27-01, Saturday

****

VISITORS: _____

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_____

WEATHER: a.m. M/Cldy p.m. P/Cldy

TEMP. RANGE: _____

RAINFALL: No rain, but windy

MAJOR DELIVERIES: _____

****

WORK PERFORMED:

Handex:
2 dozers continue in stockpile area knocking down piles.
Water truck running haul routes.

South End Development:
2 excavators continue loading 4 off-road dump trucks from the old road berm in SW-2.

DCW Civil Construction Inc.:
Excavator loading 3 off-road dump trucks in A-3 cell.
Remaining pull pan hauling material to stockpile, loading from west end of cell – almost done with first cut.
Dozer idle in the a.m.

Comanco:
No work today.

CDM Camp Dresser & McKee Inc.

DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 33

CONTRACTOR'S REP.: Greg Hillman **DATE:** 10-26-01, Friday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	6	Volvo A 40 Water Truck Case 1150G Dozer John Deere 750C Dozer 2 Pickup Trucks
South End Development	7	1 John Deere 570A Grader 2 Volvo EC 36 Excavators 1 Volvo L90C Loader 4 Cat, Bell, Terex 25 Ton Off-Road Dumps 1 Case 1150 Dozer
Comanco		John Deere 544G Loader John Deere 550G LGP Dozer John Deere 410E Rubber Tire Pickup Trucks
DCW Civil Construction, Inc.	5	1 Case Quadtrax 9380 w/pan 1 John Deere 8870 w/pan (idle) 1 Kobelco SK480 LC Excavator 2 Cat D400 Off-Road Dump Trucks 1 Cat D250 Off-Road Dump Truck 1 Cat D6M
Peninsula Survey	0	

HOURS INSPECTOR PRESENT ON JOB SITE: 2 hrs (7:35 a.m. – 9:35 a.m.)

John C Mabry III

Resident Inspector

CDM Camp Dresser & McKee Inc.

RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 36

CONTRACTOR'S REP.: Greg Hillman **DATE:** 10-29-01, Monday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Cldy p.m. P/Cldy

TEMP. RANGE: 58° - 75°

RAINFALL: 0"

MAJOR DELIVERIES: _____

****

WORK PERFORMED:

Handex:

2 dozers continue in stockpile area knocking down piles.

Water truck watering, but breaks down mid a.m. and is down for the day. 2nd water truck scheduled for tomorrow.

South End Development:

2 excavators continue loading 4 off-road dump trucks from the old road berm in SW-2.

Mid a.m. 1 off-road dump truck down – operational again in the p.m.

Dozer grading area and grader maintaining haul routes.

DCW Civil Construction, Inc.:

Excavating topsoil pile along A-2 toe of slope.

Excavator loading 3 off-road dump trucks and pull pan in A-3 cell.

Pull pan down mid a.m., mechanic on site - operational again in p.m.

John Deere running while the Case Quadtrax pull pan is down.

Comanco:

Continues working on rain tarp – County Project.

Unloading first liner truck at 7:50 a.m.

1 loader operator and 1 spotter on site.

At 4:00 p.m. no 4th truck yet.

CDM Camp Dresser & McKee Inc.

DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 36

CONTRACTOR'S REP.: Greg Hillman **DATE:** 10-29-01, Monday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	6	Volvo A 40 Water Truck Case 1150G Dozer John Deere 750C Dozer 2 Pickup Trucks
South End Development	8	1 John Deere 570A Grader 2 Volvo EC 36 Excavators 1 Volvo L90C Loader (idle) 4 Cat, Bell, Terex 25 Ton Off-Road Dumps 1 Case 1150 Dozer
Comanco	2	John Deere 544G Loader Pickup Trucks
DCW Civil Construction, Inc.	5	1 Case Quadtrax 9380 w/pan 1 John Deere 1 Kobelco SK480 LC Excavator 2 Cat D400 Off-Road Dump Trucks 1 Cat D250 Off-Road Dump Truck 1 Cat D6M Dozer

HOURS INSPECTOR PRESENT ON JOB SITE: 8 hrs & 50 min. (7:25 a.m. – 4:15 p.m.)

Resident Inspector

CDM Camp Dresser & McKee Inc.

RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 37

CONTRACTOR'S REP.: Greg Hillman **DATE:** 10-30-01, Tuesday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Cldy p.m. P/Cldy

TEMP. RANGE: 60° - 78°

RAINFALL: 0"

MAJOR DELIVERIES: Three truckloads of liner arrive

****

WORK PERFORMED:

Handex:

2 dozers continue working in stockpile area.

Water truck operational again at 11:30 a.m. 2nd water truck (2000-gal.) arrives at 3:00 p.m.

South End Development:

2 excavators continue loading 4 off-road dump trucks from remaining middle hump of old road berm in SW-2. Old RCP removed. Dozer grading area. Road berm gone in the p.m.

Grader maintaining haul routes.

Excavator working in liner tie-in area.

DCW Civil Construction, Inc.:

Excavating topsoil pile along A-2 toe of slope, finishing west end.

Excavator loading 3 off-road dump trucks and pull pan in A-3 cell.

Early a.m. 25-ton truck breaks down. At 2 p.m. replacement D250E dump truck arrives.

John Deere single pull pan running, and dozer grading haul route in cell.

Late a.m. starting second cut of cell floor.

Comanco:

Grading liner stockpile area.

Unloading three liner trucks as they arrive. Three conformance rolls marked but not cut.

CDM Camp Dresser & McKee Inc.

DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 37

CONTRACTOR'S REP.: Greg Hillman **DATE:** 10-30-01, Tuesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	6	Volvo A 40 Water Truck Case 1150G Dozer John Deere 750C Dozer 2 Pickup Trucks
South End Development	8	1 John Deere 570A Grader 2 Volvo EC 36 Excavators 1 Volvo L90C Loader 4 Cat, Bell, Terex 25 Ton Off-Road Dumps 1 Case 1150 Dozer
Comanco	2	John Deere 544G Loader 1 Pickup Truck
DCW Civil Construction, Inc.	6	1 Case Quadtrax 9380 w/pan 1 John Deere w/pan 1 Kobelco SK480 LC Excavator 2 Cat D400 Off-Road Dump Trucks 1 Cat D250 Off-Road Dump Truck (broke) 1 Cat D6M Dozer

HOURS INSPECTOR PRESENT ON JOB SITE: 8 hrs & 45 min. (7:25 a.m. – 4:10 p.m.)

Resident Inspector

CDM Camp Dresser & McKee Inc.

RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 38

CONTRACTOR'S REP.: Greg Hillman **DATE:** 10-31-01, Wednesday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Cldy p.m. P/Cldy

TEMP. RANGE: 60° - 78°

RAINFALL: 0"

MAJOR DELIVERIES: Four truckloads of liner arrive

****

WORK PERFORMED:

Handex:

1 dozer continues working in stockpile area, including the new "good sand" stockpile. – Sand to be screened.

Both water truck running today.

South End Development:

2 excavators continue loading 4 off-road dump trucks from SW-1 tie-in area in the a.m.

1 excavator loading from the cell floor cut (northwest corner) in the p.m.

Dozer shaping existing SW-1 slope, and grader working haul routes.

DCW Civil Construction, Inc.:

Excavating 2nd cut cell floor in A-3 cell, working south in east half of cell.

Excavator loading 3 off-road dump trucks and pull pan in A-3 cell. Some excavated material goes to stockpile, and some loads go to "good sand" pile started today north of geosynthetic area.

Dozer working on haul route, etc.

Comanco:

Unloading four liner trucks in the a.m. and then cutting samples and shaping lay-down area.

CDM Camp Dresser & McKee Inc.

DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 38

CONTRACTOR'S REP.: Greg Hillman **DATE:** 10-31-01, Wednesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	6	F350 Water Truck Volvo A 40 Water Truck Case 1150G Dozer John Deere 750C Dozer (down) 2 Pickup Trucks
South End Development	8	1 John Deere 570A Grader 2 Volvo EC 36 Excavators 1 Volvo L90C Loader 4 Cat, Bell, Terex 25 Ton Off-Road Dumps 1 Case 1150 Dozer
Comanco	2	John Deere 544G Loader (a.m.) John Deere 550G LGP Dozer (p.m.) 1 Pickup Truck
DCW Civil Construction, Inc.	5	1 Case Quadtrax 9380 w/pan (still down) 1 John Deere w/pan 1 Kobelco SK480 LC Excavator 2 Cat D400 Off-Road Dump Trucks 1 Cat D250 Off-Road Dump Truck 1 Cat D6M Dozer

HOURS INSPECTOR PRESENT ON JOB SITE: 8 hrs & 50 min. (7:30 a.m. – 4:20 p.m.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 39

CONTRACTOR'S REP.: Greg Hillman **DATE:** 11-01-01, Thursday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Clear p.m. P/Cldy

TEMP. RANGE: 69° - 85°

RAINFALL: 0"

MAJOR DELIVERIES: Two truckloads of liner

****

WORK PERFORMED:

Handex:

2 dozers working in stockpile area (replacement dozer arrives at 8:35 a.m.).

Both water truck running today.

South End Development:

2 excavators continue loading 3 off-road dump trucks from SW-2. 1 excavator working top soil toe of slope, and 2nd excavator working cell floor westend. At 11 a.m both excavators on cell floor.

Mid a.m. mechanic working on broken down truck.

Dozer and grader working around cell haul routes.

DCW Civil Construction, Inc.:

Excavating 2nd cut cell floor in A-3 cell, south edge.

Excavator loading 3 off-road dump trucks and pull pan in A-3 cell. Some excavated material goes to stockpile, and some loads go to "good sand" pile.

Dozer working on haul route and cell floor.

Comanco:

Unloading two truckloads of liner.

area.

Miscellaneous:

At 10:45, trash burning @ trailer east of job trailers (smoke blowing across site).

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 39

CONTRACTOR'S REP.: Greg Hillman **DATE:** 11-01-01, Thursday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	6	F350 Water Truck Volvo A 40 Water Truck Case 1150G Dozer John Deere 750C Dozer 2 Pickup Trucks
South End Development	8	1 John Deere 570A Grader 2 Volvo EC 36 Excavators 1 Volvo L90C Loader 4 Cat, Bell, Terex 25 Ton Off-Road Dumps 1 Case 1150 Dozer
Comanco	2	1 John Deere 544G Loader John Deere 550G Pickup Trucks
DCW Civil Construction, Inc.	5	1 Case Quadtrax 9380 w/pan (idle) 1 John Deere w/pull pan 1 Kobelco SK480 LC Excavator 2 Cat D400 Off-Road Dump Trucks 1 Cat D250 Off-Road Dump Truck 1 Cat D6M Dozer

HOURS INSPECTOR PRESENT ON JOB SITE: 9 hrs & 40 min. (7:30 a.m. – 5:10 p.m.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 40

CONTRACTOR'S REP.: Greg Hillman **DATE:** 11-02-01, Friday

****

VISITORS: _____

_____

_____

WEATHER: a.m. M/Cldy p.m. Cldy

TEMP. RANGE: 71° - 86°

RAINFALL: 0" (sprinkles in p.m.)

MAJOR DELIVERIES: Five truckloads of HDPE liner
Eight truckloads of Claymax 200R (GCL)

****

WORK PERFORMED:

Handex:

2 dozers working both common stockpile and "good sand" stockpile.

A 40 water truck running haul routes.

South End Development:

2 excavators loading 4 off-road trucks from SW-2. Both excavators will be loading from the second cut of the cell floor area north strip.

Dozer and grader working haul route.

DCW Civil Construction, Inc.:

Excavator cutting north edge of cell floor working back toward A-2 cell.

Excavator loading 3 off-road dump trucks. John Deere pull pan runs half a day.

Comanco:

Unloading trucks of liner and GCL (not set up for GCL – some experimentation and some damaged materials using straps.

Peninsula Survey:

Surveying and laying out stakes SW-2 north toes and SW-1 slope.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 40

CONTRACTOR'S REP.: Greg Hillman **DATE:** 11-02-01, Friday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	6	Volvo A 40 Water Truck Case 1150G Dozer John Deere 750C Dozer Pickup Trucks
South End Development	8	1 John Deere 570A Grader 2 Volvo EC 36 Excavators 1 Volvo L90C Loader 4 Cat, Bell, Terex 25 Ton Off-Road Dumps 1 Case 1150 Dozer
Comanco	2-6 (p.m.)	1 John Deere 544G Loader John Deere 550G Pickup Trucks
DCW Civil Construction, Inc.	5	1 Case Quadtrax 9380 w/pan (idle) 1 John Deere w/pull pan 1 Kobelco SK480 LC Excavator 2 Cat D400 Off-Road Dump Trucks 1 Cat D250 Off-Road Dump Truck 1 Cat D6M Dozer
Peninsula Survey (8:30 a.m. – 2:30 p.m.)	3	1 Van

HOURS INSPECTOR PRESENT ON JOB SITE: 10 hrs & 15 min. (7:30 a.m. – 5:45 p.m.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 43

CONTRACTOR'S REP.: Greg Hillman **DATE:** 11-05-01, Monday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Cldy p.m. Cldy

TEMP. RANGE: 66° - 74°

RAINFALL: 0" (windy)

MAJOR DELIVERIES: One truckload of Claymax

****

WORK PERFORMED:

Handex:

2 dozers working both common stockpile and "good sand" stockpile.

A-40 water truck running haul routes.

South End Development:

2 excavators continue loading 4 off-road trucks from SW-2. Both excavators will be loading from the second cut of the cell floor area working south.

Dozer and grader working haul route.

DCW Civil Construction, Inc.:

Excavator making another cut on the cell floor working west.

Excavator loading 3 off-road dump trucks and some loads to the John Deere pull pan.

Dozer working area from A-2 slope to cell floor toe.

Comanco:

Taking inventory of geosynthetics.

Unloading GCL (finished by 2:40 p.m.

Continue covering material and taking inventory.

Peninsula Survey:

Over the weekend, surveyors placed layout stakes A-3 toe plus some points.

Miscellaneous:

Handex questions Ash Cell 3 toe to existing. Jack addressing issue.

J. Power requests letter to County regarding Handex pay request #1. Jack addressing issue.

DCW questions 50-ft. elevation stake line.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 43

CONTRACTOR'S REP.: Greg Hillman **DATE:** 11-05-01, Monday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	6	Volvo A-40 Water Truck Case 1150G Dozer John Deere 750C Dozer 2 Pickup Trucks
South End Development	8	1 John Deere 570A Grader 2 Volvo EC 36 Excavators 1 Volvo L90C Loader 4 Cat, Bell, Terex 25 Ton Off-Road Dumps 1 Case 1150 Dozer
Comanco	2	1 John Deere 544G Loader Pickup Trucks
DCW Civil Construction, Inc.	5	1 Case Quadtrax 9380 w/pan (left) 1 John Deere w/pull pan 1 Kobelco SK480 LC Excavator 2 Cat D400 Off-Road Dump Trucks 1 Cat D250 Off-Road Dump Truck 1 Cat D6M Dozer
Peninsula Survey (worked over the weekend)		1 Van

HOURS INSPECTOR PRESENT ON JOB SITE: 8 hrs & 55 min. (7:45 a.m. – 4:40 p.m.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 44

CONTRACTOR'S REP.: Greg Hillman **DATE:** 11-06-01, Tuesday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Clear p.m. Clear

TEMP. RANGE: 56° - 76°

RAINFALL: 0"

MAJOR DELIVERIES: One truckload of Claymax and three loads of Bentomat

****

WORK PERFORMED:

Handex:

2 dozers working both common stockpile and "good sand" stockpile.

A-40 water truck running haul routes.

South End Development:

2 excavators continue loading 4 off-road trucks from SW-2. Both excavators will be loading from the second cut of the cell floor area working south.

Dozer and grader working haul route.

DCW Civil Construction, Inc.:

Excavator making cuts on the east edge of cell and north of toe of floor slope.

Excavator loading 3 off-road dump trucks.

Dozer working the floor and the A-2 toe area.

Comanco:

Unloading and taking inventory of geosynthetics.

By the end of the day, covering stored materials

Peninsula Survey:

No work today.

Miscellaneous:

Jack informs Clayton to set aside two damaged GCL rolls on truck.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 44

CONTRACTOR'S REP.: Greg Hillman **DATE:** 11-06-01, Tuesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	5	Volvo A-40 Water Truck Case 1150G Dozer John Deere 750C Dozer 2 Pickup Trucks
South End Development	8	1 John Deere 570A Grader 2 Volvo EC 36 Excavators 1 Volvo L90C Loader 4 Cat, Bell, Terex 25 Ton Off-Road Dumps 1 Case 1150 Dozer
Comanco (working a couple of hours)	2-4	1 John Deere 544G Loader 1 Pettibone Lull-type Forklift Pickup Trucks
DCW Civil Construction, Inc.	5	1 John Deere w/pull pan (idle) 1 Kobelco SK480 LC Excavator 2 Cat D400 Off-Road Dump Trucks 1 Cat D250 Off-Road Dump Truck 1 Cat D6M Dozer
Peninsula Survey		

HOURS INSPECTOR PRESENT ON JOB SITE: 8 hrs & 15 min. (7:50 a.m. – 4:05 p.m.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 45

CONTRACTOR'S REP.: Greg Hillman **DATE:** 11-07-01, Wednesday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Clear p.m. Clear

TEMP. RANGE: 58° - 76°

RAINFALL: 0"

MAJOR DELIVERIES: _____

_____

****

WORK PERFORMED:

Handex:

2 dozers working both common stockpile and "good sand" stockpile.

Trees between stockpile and SW-2 are cleared.

A-40 water truck running haul routes.

South End Development:

2 excavators continue loading 4 off road dump trucks from SW-2. Both excavators will be loading from the second cut below the old road area.

Dozer and grader working the haul routes.

DCW Civil Construction, Inc.:

Excavator loading topsoil/sand mix material along Cell A-2 toe. Some topsoil/sand mix material is dumped in "good sand" stockpile – contractor is contacted.

Excavator loading 3 off-road trucks. Dozer pushing material into piles for excavator.

Comanco:

Setting up more stockpile area.

Peninsula Survey:

Surveyors staking 53-ft. elevation line.

Miscellaneous:

DCW questions fill on grade stakes at A-2 toe of slope.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 45

CONTRACTOR'S REP.: Greg Hillman **DATE:** 11-07-01, Wednesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	5	F350 Water Truck (idle) Volvo A-40 Water Truck Case 1150G Dozer John Deere 750C Dozer 2 Pickup Trucks
South End Development	8	1 John Deere 570A Grader 2 Volvo EC 36 Excavators 1 Volvo L90C Loader 4 Cat, Bell, Terex 25 Ton Off-Road Dumps 1 Cat 40 Ton 1 Case 1150 Dozer
Comanco	2	1 John Deere 544G Loader 1 Pettibone Lull-type Forklift 1 Pickup Truck
DCW Civil Construction, Inc.	5	1 John Deere w/pull pan (left) 1 Kobelco SK480 LC Excavator 2 Cat D400 Off-Road Dump Trucks 1 Cat D250 Off-Road Dump Truck 1 Cat D6M Dozer
Peninsula Survey	2	1 Van

HOURS INSPECTOR PRESENT ON JOB SITE: 5 hrs & 10 min. (7:50 a.m. – 1:00 p.m.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 46

CONTRACTOR'S REP.: Greg Hillman **DATE:** 11-08-01, Thursday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Clear p.m. Cldy.

TEMP. RANGE: 55° - 77°

RAINFALL: 0"

MAJOR DELIVERIES: 1 load Claymax (Lovell), 1 load Bentomat

****

WORK PERFORMED:

Handex:

2 dozers continue working both common stockpile and "good sand" stockpile.

In the p.m., dozer starting a new "good sand" stockpile south of SW-2.

A-40 water truck running haul routes.

South End Development:

2 excavators continue loading 5 off-road dump trucks from SW-2, south of first drainage swale, 3rd cut.

Dozer and grader working the haul routes and grading floor.

At 4 p.m. a vibratory roller and another dozer arrive on site.

DCW Civil Construction, Inc.:

Supervisor says he needs more grade stakes to make cuts in A-3.

In the a.m., excavator loading 3 off-road trucks east end, north of north leachate line, and in the p.m. working south berm slope.

Comanco:

Unloading 2 GCL trucks and working on staging area. (Liner pre-installation scheduled for Wednesday 11/14/01 at 9 a.m.

Peninsula Survey:

Surveyors staking east, west and south berm top and toe of slope in Cell A-3.

Miscellaneous:

CDM to issue letter moving contour 53-ft. to 51-ft. for slopes' tie-in.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 46

CONTRACTOR'S REP.: Greg Hillman **DATE:** 11-08-01, Thursday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX		F350 Water Truck (idle) Volvo A-40 Water Truck Case 1150G Dozer John Deere 750C Dozer 2 Pickup Trucks
South End Development		1 John Deere 570A Grader 2 Volvo EC 36 Excavators 1 Volvo L90C Loader (idle) 4 Cat, Bell, Terex 25 Ton Off-Road Dumps 1 Cat 40 Ton 1 Case 1150 Dozer
Comanco		1 John Deere 544G Loader 1 Pettibone Lull-type Forklift 1 Pickup Truck
DCW Civil Construction, Inc.		1 Kobelco SK480 LC Excavator 2 Cat D400 Off-Road Dump Trucks 1 Cat D250 Off-Road Dump Truck 1 Cat D6M Dozer
Peninsula Survey (depart 2:30 pm.)		

HOURS INSPECTOR PRESENT ON JOB SITE: 8 hrs & 30 min. (7:30 a.m. – 4:00 p.m.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 47

CONTRACTOR'S REP.: Greg Hillman **DATE:** 11-09-01, Friday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Clear p.m. P/Cldy

TEMP. RANGE: 59° - 79°

RAINFALL: 0"

MAJOR DELIVERIES: 2 loads Claymax (Lovell), 1 partial load of liner

****

WORK PERFORMED:

Handex:

2 dozers continue working both common stockpile and north "good sand" stockpile.

A-40 water truck running haul routes.

South End Development:

2 excavators continue loading 4 off-road dump trucks from SW-2, south of high point.

Grader working haul routes while dozer is cutting to grade SW-1 side. Grader part time.

DCW Civil Construction, Inc.:

Excavator loading 3 off-road trucks south edge of A-3.

Comanco:

Unloading 2 GCL trucks and 1 partial load of liner.

4 laborers filling sand bags in the p.m.

Peninsula Survey:

Two crews south toe of Cell A-3, south toe of cell leachate line, TOB south, SW-2.

Surveyors claim flat area west center SW-2 and to a lesser extent A-3. I get with Louis in Tampa office to check CAD – not flat.

Miscellaneous:

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 47

CONTRACTOR'S REP.: Greg Hillman **DATE:** 11-09-01, Friday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	6	F350 Water Truck Volvo A-40 Water Truck Case 1150G Dozer John Deere 750C Dozer 2 Pickup Trucks
South End Development	8	1 John Deere 570A Grader 2 Volvo EC 36 Excavators 1 Volvo L90C Loader (idle) 1 Volvo L120 Loader 4 Cat, Bell, Terex 25 Ton Off-Road Dumps 1 Cat 40 Ton 1 Case 1150 Dozer 1 Case 850 Dozer 1 Hamm 2420 Vibratory Roller
Comanco	2	1 John Deere 544G Loader 1 Pettibone Lull-type Forklift 1 Pickup Truck
DCW Civil Construction, Inc.	5	1 Kobelco SK480 LC Excavator 2 Cat D400 Off-Road Dump Trucks 1 Cat D250 Off-Road Dump Truck 1 Cat D6M Dozer
Peninsula Survey	4	2 Vans

HOURS INSPECTOR PRESENT ON JOB SITE: 7:30 a.m. – 1:30 p.m. to Office (6 hrs +)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 48

CONTRACTOR'S REP.: Greg Hillman **DATE:** 11-10-01, Saturday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Clear p.m. P/Cldy

TEMP. RANGE: 60° - 80°

RAINFALL: (Fog in a.m.)

MAJOR DELIVERIES: _____

****

WORK PERFORMED:

Handex:

2 dozers running, one stays on north "good sand" stockpile, and second one works common stockpile and haul route.

Water truck (A40) watering haul routes.

South End Development:

2 excavators continue loading 4 off-road dump trucks from SW-2, south of high point.

Grader working haul routes.

DCW Civil Construction, Inc.:

Excavator shaping east end leachate pipe cut.

No hauling.

Comanco:

No work.

Peninsula Survey:

No work.

Miscellaneous:

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 48

CONTRACTOR'S REP.: Greg Hillman **DATE:** 11-10-01, Saturday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	2	F350 Water Truck Volvo A-40 Water Truck (idle) Case 1150G Dozer John Deere 750C Dozer 2 Pickup Trucks
South End Development	8	1 John Deere 570A Grader 2 Volvo EC 36 Excavators 1 Volvo L90C Loader (idle) 1 Volvo L120 Loader 4 Cat, Bell, Terex 25 Ton Off-Road Dumps 1 Cat 40 Ton (down) 1 Case 1150 Dozer (idle) 1 Case 850 Dozer (idle) 1 Hamm 2420 Vibratory Roller (idle)
Comanco	0	1 John Deere 544G Loader 1 Pettibone Lull-type Forklift 1 Pickup Truck
DCW Civil Construction, Inc.	1	1 Kobelco SK480 LC Excavator 2 Cat D400 Off-Road Dump Trucks (idle) 1 Cat D250 Off-Road Dump Truck (idle) 1 Cat D6M Dozer (idle)

HOURS INSPECTOR PRESENT ON JOB SITE: 7:30 a.m. – 10:10 a.m. (2 hrs. 40 min.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 50

CONTRACTOR'S REP.: Greg Hillman **DATE:** 11-12-01, Monday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Clear p.m. P/Cldy

TEMP. RANGE: 60° - 79°

RAINFALL: 0"

MAJOR DELIVERIES: 3 loads of Claymax

****

WORK PERFORMED:

Handex:

2 dozers running, one stays on north "good sand" stockpile, and second one works common stockpile.

Water truck (A40) watering haul routes.

Contractor starts shipping conformance liner samples to lab.

South End Development:

2 excavators continue loading 3 off-road dump trucks (40 Ton to run later today) from south leachate swale.

Dozer grading floor, and L120 Loader moving sandy fill from highs to lows.

Grader working haul routes. Mid a.m. grader alternates with second dozer.

DCW Civil Construction, Inc.:

Excavator loading 3 off-road dump trucks from east end of A-3.

Dozer shaping with excavator in rocky clayey area.

Comanco:

Unloading Claymax at 7:30 a.m. – 2 more trucks follow.

In the p.m.. tarping and sandbagging stockpiled material.

Peninsula Survey:

No work.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 50

CONTRACTOR'S REP.: Greg Hillman **DATE:** 11-12-01, Monday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	6	F350 Water Truck Volvo A-40 Water Truck Case 1150G Dozer John Deere 750C Dozer 2 Pickup Trucks
South End Development	8	1 John Deere 570A Grader 2 Volvo EC 36 Excavators 1 Volvo L90C Loader 1 Volvo L120 Loader 3 Cat, Bell, Terex 25 Ton Off-Road Dumps 1 Cat 40 Ton 1 Case 1150 Dozer
Comanco	2	1 John Deere 544G Loader 1 Pettibone Lull-type Forklift 1 Pickup Truck
DCW Civil Construction, Inc.	5	1 Kobelco SK480 LC Excavator 2 Cat D400 Off-Road Dump Trucks 1 Cat D250 Off-Road Dump Truck 1 Cat D6M Dozer

HOURS INSPECTOR PRESENT ON JOB SITE: 7:30 a.m. – 4:00 p.m. (8 hrs. 30 min.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 51

CONTRACTOR'S REP.: Greg Hillman **DATE:** 11-13-01, Tuesday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Cldy. p.m. M/Cldy

TEMP. RANGE: 60° - 79°

RAINFALL: 0"

MAJOR DELIVERIES: _____

****

WORK PERFORMED:

Handex:

2 dozers running, one stays on north "good sand" stockpile, and second one works common stockpile.

Water truck (A40) watering haul routes.

Contractor to ship remaining liner conformance samples to lab.

South End Development:

2 excavators continue loading 3 off-road dump trucks from south leachate swale. (40 Ton still down – mechanic on site mid a.m.)

Dozer grading floor, and L120 loader moving sandy fill from highs to lows.

Vibratory roller running in Cell SW-2.

DCW Civil Construction, Inc.:

Excavator loading 3 off-road dump trucks along north edge of excavation A-3.

Comanco:

Crew filling sandbags in geosynthetic stockpile area.

Miscellaneous:

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 51

CONTRACTOR'S REP.: Greg Hillman **DATE:** 11-13-01, Tuesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	6	F350 Water Truck (idle) Volvo A-40 Water Truck Case 1150G Dozer John Deere 750C Dozer 2 Pickup Trucks
South End Development	8	1 John Deere 570A Grader 2 Volvo EC 36 Excavators 1 Volvo L90C Loader (idle) 3 Cat, Bell, Terex 25 Ton Off-Road Dumps 1 Cat 40 Ton Dump Truck (down) 1 Case 1150 Dozer 1 Case 850 Dozer
Comanco	5	1 John Deere 544G Loader 1 Pettibone Lull-type Forklift 1 Pickup Truck
DCW Civil Construction, Inc.	5	1 Kobelco SK480 LC Excavator 2 Cat D400 Off-Road Dump Trucks 1 Cat D250 Off-Road Dump Truck 1 Cat D6M Dozer

HOURS INSPECTOR PRESENT ON JOB SITE: 8 hrs. 40 min. – 7:20 a.m. – 4:00 p.m.

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 52

CONTRACTOR'S REP.: Greg Hillman **DATE:** 11-14-01, Wednesday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Cldy. p.m. Cldy.

TEMP. RANGE: 60° -

RAINFALL: .2" overnight. Misty a.m.

MAJOR DELIVERIES: _____

_____

****

WORK PERFORMED:

Handex:

2 dozers running, one stays on north "good sand" stockpile, and second one works common stockpile.

Water truck (A40) watering haul routes.

Contractor wrapping GCL conformance samples for Fed-Ex to go to lab.

South End Development:

2 excavators continue loading 3 off-road dump trucks from south leachate swale east end. (40 Ton still down – mechanic working on it).

Dozer grading floor, and loader moving sandy fill from high spots to low spots.

Vibratory roller idle.

DCW Civil Construction, Inc.:

Excavator shaping south berm slope, and dozer working north slope to A-2.

In the p.m. one off-road dump truck moving sandy material from high spots to low spots with excavator.

Comanco:

Crew filling sandbags and, after liner meeting, cutting conformance samples and restacking material to get to sample rolls.

Also, doing some work on A-2 tarp for the County.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 52

CONTRACTOR'S REP.: Greg Hillman **DATE:** 11-14-01, Wednesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	6	F350 Water Truck (idle) Volvo A-40 Water Truck Case 1150G Dozer John Deere 750C Dozer 2 Pickup Trucks
South End Development	8	1 John Deere 570A Grader 2 Volvo EC 36 Excavators 1 Volvo L90C Loader (idle) 3 Cat, Bell, Terex 25 Ton Off-Road Dumps 1 Cat 40 Ton Dump Truck (down) 1 Case 1150 Dozer 1 Case 850 Dozer
Comanco	5	1 John Deere 544G Loader 1 Pettibone Lull-type Forklift 1 Pickup Truck
DCW Civil Construction, Inc.	2	1 Kobelco SK480 LC Excavator 2 Cat D400 Off-Road Dump Trucks 1 Cat D250 Off-Road Dump Truck 1 Cat D6M Dozer

HOURS INSPECTOR PRESENT ON JOB SITE: 8 hrs.+ (7:30 a.m. – 3:30 p.m. to office)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 64

CONTRACTOR'S REP.: Greg Hillman **DATE:** 11-26-01, Monday

****

VISITORS: Peggy from Peninsula

WEATHER: a.m. Cldy. p.m. M/Cldy.

TEMP. RANGE: 68° - 84°

RAINFALL: (No work @ Thanksgiving)

MAJOR DELIVERIES: Pablo from Comanco to call when additional geosynthetics will be delivered – he states that CRC GCL tests are going well. Test results coming in by fax.

****

WORK PERFORMED:

Handex:

2 dozers running on stockpiles shaping and maintaining haul routes around piles.

Both water truck working around site and in cells.

Density test scheduled for tomorrow.

South End Development:

1 excavator loading 1 off-road dump truck as it cuts east berm area.

Loader, dozer and laborer in cell finishing grading west half of cell, then working east.

Service being done to several pieces of equipment.

DCW Civil Construction, Inc.:

Setting up laser grading dozer and starting finish grade.

Comanco:

Crew working on A-2 County project, rain tarp.

Peninsula Survey:

Providing berm and toe stakes, east end not per pipe grades. Discussion to correct.

Miscellaneous:

Discussion with Greg and Peninsula about east collection trench grading to be done by C 3,4 and C 8,10 survey information.

GCL test results are coming in by fax.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 64

CONTRACTOR'S REP.: Greg Hillman **DATE:** 11-26-01, Monday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	6	F750 Water Truck Volvo A-40 Water Truck Case 1150G Dozer John Deere 750C Dozer 2 Pickup Trucks
South End Development	5	1 John Deere 570A Grader 1 Volvo EC 36 Excavator 1 H-2420 Roller 1 Volvo L90C Loader (idle) 1 Volvo L120 Loader 1 Cat 25 Ton Off-Road Dump Truck 1 Cat 40 Ton Dump Truck (down) 1 Case 1150 Dozer 1 Case 850 Dozer
Comanco	0	None
DCW Civil Construction, Inc.	1	1 Kobelco SK480 LC Excavator (idle) 2 Cat D400 Off-Road Dump Trucks (idle) 1 Cat D250 Off-Road Dump Truck running to Power Laser 1 Cat D6M Dozer 1 Ingersol Rand 70 Roller
Peninsula Survey	3	1 Van

HOURS INSPECTOR ON JOB SITE: Office 7:30 then site 8:45 a.m. – 4:15 p.m. (7.5 hrs.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 65

CONTRACTOR'S REP.: Greg Hillman **DATE:** 11-27-01, Tuesday

****

VISITORS: _____

_____

_____

WEATHER: a.m. P/Cldy. p.m. P/Cldy.

TEMP. RANGE: 66° - 85°

RAINFALL: 0"

MAJOR DELIVERIES: _____

****

WORK PERFORMED:

Handex:

1 dozer running in stockpile area, maintaining haul route and knocking down piles from SW-2.

Volvo water truck running in SW-2, Ford water truck was picked up. Cat 250 water truck on site and running in the p.m.

South End Development:

1 excavator loading 2 off-road dump trucks as it cuts east berm slope rough grade.

Loader, dozer and roller in cell finishing cell floor, working east. In the p.m., grader also on the cell floor.

In the p.m. moving excavator and loader to leachate tank area to clear resue line area.

DCW Civil Construction, Inc.:

Starting actual cell floor grading with laser and dozer. Roller also running on floor.

Comanco:

Crew working on A-2 County project, rain tarp and demobilizing in the p.m.

Peninsula Survey:

Providing as-built topo for west half of SW-2.

Universal:

Doing (speedy) densities in west half of SW-2 in the a.m.

Miscellaneous:

Doing pay request with Greg.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 65

CONTRACTOR'S REP.: Greg Hillman **DATE:** 11-27-01, Tuesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	4 (am) 5 (pm)	1 Cat 250 Water Truck Volvo A-40 Water Truck Case 1150G Dozer John Deere 750C Dozer 2 Pickup Trucks
South End Development	5	1 John Deere 570A Grader 1 Volvo EC 36 Excavator 1 Volvo L90C Loader 1 Volvo L120 Loader 1 Cat 25 Ton Off-Road Dump Truck 1 Cat 40 Ton Dump Truck (down) 1 Case 1150 Dozer 1 Case 850 Dozer
DCW Civil Construction, Inc.	2	1 Kobelco SK480 LC Excavator (idle) 2 Cat D400 Off-Road Dump Trucks (idle) 1 Cat D250 Off-Road Dump Truck 1 Cat D6M Dozer 1 Ingersol Rand 70 Roller
Peninsula Survey	3	1 Van
Universal	1	1 Truck

HOURS INSPECTOR ON JOB SITE: 7:45 a.m. – 4:30 p.m. (8 hrs. 45 min.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 66

CONTRACTOR'S REP.: Greg Hillman **DATE:** 11-28-01, Wednesday

****

VISITORS: Clayton Lung of Comanco

WEATHER: a.m. Clear p.m. P/Cldy.

TEMP. RANGE: 62° - 84°

RAINFALL: 0" (foggy in a.m.)

MAJOR DELIVERIES:

****

WORK PERFORMED:

Handex:

Both water trucks are working, watering subgrade in both cells.

South End Development:

1 excavator and 1 loader continue to clear reuse line past leachate storage tank.

Loader, dozer and roller in cell continue finish grading SW-2.

DCW Civil Construction, Inc.:

Continue cell floor grading with laser and dozer.

Loader moving excess material, and smooth drum roller compacting.

Comanco:

No work. – Clayton discussing Monday start with Greg and Jack.

Peninsula Survey:

Not on site today.

Several phone calls regarding subgrade as-built, and 53/51 elevation in A-3 / A-2.

Miscellaneous:

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 66

CONTRACTOR'S REP.: Greg Hillman **DATE:** 11-28-01, Wednesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	4	F350 Water Truck Volvo A-40 Water Truck Case 1150G Dozer John Deere 750C Dozer Off-Road 1 Pickup Truck
South End Development	6	1 John Deere 570A Grader 1 Volvo EC 36 Excavator 1 Volvo L90C Loader 1 Volvo L120 Loader 1 Cat 25 Ton Off-Road Dump Truck 1 Cat 40 Ton Dump Truck (down) 1 Case 1150 Dozer
Comanco	0	1 John Deere 5440 Loader (idle) 1 John Deere 410E Backhoe (idle)
DCW Civil Construction, Inc.	3	2 Cat D400 Off-Road Dump Trucks (idle) 1 Cat D250 Off-Road Dump Truck (leaving) 1 Cat D6M Dozer 1 Ingersol Rand 70 Roller

HOURS INSPECTOR ON JOB SITE: 7:30 a.m. – 2:30 p.m. (7 hrs.) + office till 4:30 p.m.

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 67

CONTRACTOR'S REP.: Greg Hillman **DATE:** 11-29-01, Thursday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Clear p.m. P/Cldy.

TEMP. RANGE: 66° - 83°

RAINFALL: 0" (foggy in a.m.)

MAJOR DELIVERIES: _____

****

WORK PERFORMED:

Handex:

Both water trucks are working, watering subgrade in both cells plus some haul route occasionally.

South End Development:

Excavator loading two off-road dump trucks, shaping east berm at north end, including old road area.

1 dozer shaping east containment berm on SW-1 slope.

Dozer, loader, grader, and roller grading, shaping, compacting SW-2.

Late a.m. cutting LDS swale and removing roots from subgrade.

DCW Civil Construction, Inc.:

Continue cell floor grading with laser and dozer.

Loader moving excess material, and smooth drum roller compacting soil.

Comanco:

No work.

Peninsula Survey:

Locating LDS fitting inverts so swales can be cut.

Miscellaneous:

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 67

CONTRACTOR'S REP.: Greg Hillman **DATE:** 11-29-01, Thursday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	4	Cat A25 Water Truck Volvo A-40 Water Truck Case 1150G Dozer 1 Pickup Truck
South End Development	6	1 John Deere 570A Grader 1 Volvo EC 36 Excavator 1 Volvo L90C Loader (idle) 1 Volvo L120 Loader 1 Cat 25 Ton Off-Road Dump Truck 1 Cat 40 Ton Dump Truck (down) 1 Case 1150 Dozer 1 Hamm 2420 Roller
Comanco	0	1 John Deere 5440 Loader (idle) 1 John Deere 410E Backhoe (idle)
DCW Civil Construction, Inc.	3	1 Cat D250 Off-Road Dump Truck (leaving) 1 Cat D6M Dozer 1 Ingersol Rand 70 Roller
Peninsula Survey	3	1 Van

HOURS INSPECTOR ON JOB SITE: 7:20 a.m. – 3:30 p.m. (8 hrs. 10 min.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 68

CONTRACTOR'S REP.: Greg Hillman **DATE:** 11-30-01, Friday

****

VISITORS: _____

WEATHER: a.m. Clear p.m. Clear

TEMP. RANGE: 65° - 83°

RAINFALL: 0" (foggy in a.m.)

MAJOR DELIVERIES: _____

****

WORK PERFORMED:

Handex:

Both water trucks are working, watering subgrade in both cells.

South End Development:

1 dozer shaping east end of cell including LDS swale.

Dozer and roller shaping and compacting cell floor of SW-2.

More root removal this morning. At 9:00, start burning trees from reuse line clearing (Burn Permit No. 8732)

DCW Civil Construction, Inc.:

Continues laser dozer floor grading.

Loader moving excess material, and smooth drum roller compacting soil.

Comanco:

No work. Dropping off Job Connex next to job trailers.

Universal:

On site for densities / SW-2 east half, including berms.

Miscellaneous:

Fax manhole elevations to Handex and Abdul of CDM.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 68

CONTRACTOR'S REP.: Greg Hillman **DATE:** 11-30-01, Friday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	4	Cat A25 Water Truck Volvo A-40 Water Truck Case 1150G Dozer 1 Pickup Truck
South End Development	6	1 John Deere 570A Grader 1 Volvo EC 36 Excavator 1 Volvo L90C Loader (idle) 1 Volvo L120 Loader 1 Cat 25 Ton Off-Road Dump Truck 1 Cat 40 Ton Dump Truck 1 Case 1150 Dozer 1 Hamm 2420 Roller
Comanco	0	1 John Deere 5440 Loader (idle) 1 John Deere 410E Backhoe (idle)
DCW Civil Construction, Inc.	3	1 Cat D250 Off-Road Dump Truck (leaving) 1 Cat D6M Dozer 1 Ingersol Rand 70 Roller
Universal	1	1 Truck

HOURS INSPECTOR ON JOB SITE: 7:25 a.m. – 3:45 p.m. (8 hrs. 20 min.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 69

CONTRACTOR'S REP.: Greg Hillman **DATE:** 12-1-01, Saturday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Clear p.m. P/cldy

TEMP. RANGE: 62° - 83°

RAINFALL: 0"

MAJOR DELIVERIES: _____

****

WORK PERFORMED:

Handex:

Correcting grade deviations discussed yesterday, and cutting west anchor trench, to water slope up to SW-1 at a later time.

South End Development:

Equipment all staged at job trailers being picked up by Low Boy.

DCW Civil Construction, Inc.:

Shaping and compacting west end of A-3 cell, including west berm.

Comanco:

No work.

Miscellaneous:

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 69

CONTRACTOR'S REP.: Greg Hillman **DATE:** 12-1-01, Saturday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	3	Cat A25 Water Truck Volvo A-40 Water Truck Case 1150G Dozer 1 Backhoe 1 Hamm 2420 Roller 1 Pickup Truck
South End Development		1 John Deere 570A Grader 1 Volvo EC 36 Excavator 1 Volvo L90C Loader (idle) 1 Volvo L120 Loader 1 Cat 25 Ton Off-Road Dump Truck 1 Cat 40 Ton Dump Truck 1 Case 1150 Dozer
Comanco	0	1 John Deere 5440 Loader (idle) 1 John Deere 410E Backhoe (idle)
DCW Civil Construction, Inc.	3	1 Cat D250 Off-Road Dump Truck (leaving) 1 Cat D6M Dozer 1 Ingersol Rand 70 Roller

HOURS INSPECTOR ON JOB SITE: 7:45 a.m. – 10:30 a.m. (2 hrs. 45 min.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 71

CONTRACTOR'S REP.: Greg Hillman **DATE:** 12-3-01, Monday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Clear p.m. P/cldy

TEMP. RANGE: 62° - 81°

RAINFALL: 0" (foggy in a.m.)

MAJOR DELIVERIES: _____

_____

****

WORK PERFORMED:

Handex:

Excavated anchor trench over the weekend on west berm top.

Final corrections of leachate swale west end completed.

Watering subgrade SW-2 west end in preparation for Comanco deployment.

In the p.m. both water trucks watering A-3.

South End Development:

Departing equipment.

DCW Civil Construction, Inc.:

Continuing finish grading A-3 floor and west end.

Comanco:

Crew on site staging some material – most of the crew leave at lunchtime.

Deployment start is moved to Wednesday.

2nd loader arrives on site.

Peninsula Survey:

Shooting leachate swale corrections, and then as-builts east half of SW-2.

Miscellaneous:

Problems with the GCL conformance test results.

String-line weekend corrections.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 71

CONTRACTOR'S REP.: Greg Hillman **DATE:** 12-3-01, Monday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	4	Cat A25 Water Truck Volvo A-40 Water Truck Case 1150G Dozer 1 Case 580 Backhoe 1 Pickup Truck
South End Development	0	Departing
Comanco	13 (a.m.)	1 John Deere 5440 Loader 1 544 H Loader 1 John Deere 410E Backhoe
DCW Civil Construction, Inc.	4	1 Ingersol Rand 70 Roller 1 John Deere 544-H 1 Cat D250 Off-Road Dump Truck 1 Cat D6M Dozer
Peninsula Survey	4	2 Vans

HOURS INSPECTOR ON JOB SITE: 6:55 a.m. – 4:00 p.m. (9 hrs.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 72

CONTRACTOR'S REP.: Greg Hillman **DATE:** 12-4-01, Tuesday

****

VISITORS: _____

_____

_____

WEATHER: a.m. P/cldy p.m. P/cldy

TEMP. RANGE: 62° - 81°

RAINFALL: 0"

MAJOR DELIVERIES: _____

****

WORK PERFORMED:

Handex:

Watering parking area, haul routes, and cells.

Watering haul route from geosynthetic stockpile area to SW-2 north upper floor.

In the p.m., dozer shaping top of stockpile common soil.

DCW Civil Construction, Inc.:

Finish-grading northwest corner of A-3. Laser dozer grading, loader moving excess sandy material, and smooth drum roller compacting floor.

Comanco:

Staging material in SW-2 on plastic pipe, and using rain tarp material to cover piles of Claymax and Bentomat.

In the p.m. staging some liner on top of SW-1 on pipe.

First truckload of composite en route (at 2 p.m.) to be unloaded tomorrow.

Peninsula Survey:

No work.

Miscellaneous:

At 2:30 p.m., received 4 GCL Mass/Unit Area results.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 72

CONTRACTOR'S REP.: Greg Hillman **DATE:** 12-4-01, Tuesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	4	Cat A25 Water Truck Volvo A-40 Water Truck Case 1150G Dozer 1 Case 580 Backhoe 1 Pickup Truck
Comanco	2	1 John Deere 5440 Loader 1 544 H Loader 1 John Deere 410E Backhoe
DCW Civil Construction, Inc.	3	1 Ingersol Rand 70 Roller 1 John Deere 544-H 1 Cat D250 Off-Road Dump Truck 1 Cat D6M Dozer
Peninsula Survey	0	

HOURS INSPECTOR ON JOB SITE: 7:00 a.m. – 2:45 p.m. (7 hrs. 45 min.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 73

CONTRACTOR'S REP.: Greg Hillman **DATE:** 12-5-01, Wednesday

****

VISITORS: _____

_____

_____

WEATHER: a.m. P/cldy p.m. P/cldy

TEMP. RANGE: 62° - 81°

RAINFALL: 0"

MAJOR DELIVERIES: First truckload of composite drainage net.

****

WORK PERFORMED:

Handex:

Cutting anchor trench south berm and then begin watering.

DCW Civil Construction, Inc.:

Continues to finish-grade and compact A-3, concentrating on west half.

Loader and A25 off-road dump truck moving excess sandy material.

Comanco:

Deploying Bentomat on west berm.

Passing test results on 7 samples of 60 mil HDPE textured liner (7700 number range).

I inform Comanco QC other tests outstanding in 7700 range.

First truckload of composite drainage net arrives at 9 a.m. – unloaded by noon.

Starting liner over west berm GCL at 2 p.m.

Peninsula Survey:

Doing as-builts of west end A-3.

Shooting lift station elevations.

Miscellaneous:

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 73

CONTRACTOR'S REP.: Greg Hillman **DATE:** 12-5-01, Wednesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	4	Cat A25 Water Truck Volvo A-40 Water Truck Case 1150G Dozer 1 Case 580 Backhoe 1 Pickup Truck
Comanco	12	1 John Deere 544O Loader 1 John Deere 544H Loader 1 John Deere 410E Backhoe
DCW Civil Construction, Inc.	3	1 Ingersol Rand 70 Roller 1 John Deere 544H Loader 1 Cat D250 Off-Road Dump Truck 1 Cat D6M Dozer
Peninsula Survey	3	1 Van

HOURS INSPECTOR ON JOB SITE: 7:00 a.m. – 6:00 p.m. (11hrs.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 74

CONTRACTOR'S REP.: Greg Hillman **DATE:** 12-6-01, Thursday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Clear p.m. P/cldy

TEMP. RANGE: 61° - 81°

RAINFALL: 0" (foggy in a.m.)

MAJOR DELIVERIES: _____

_____

****

WORK PERFORMED:

Handex:

Rolled west end floor in preparation for Comanco deployment.

Digging anchor trench south berm working east.

Watering cells subgrade as needed.

DCW Civil Construction, Inc.:

Continuing to finish-grade and compact A-3, working east. Some rock encountered at east end of south leachate swale.

Comanco:

Deploying Bentomat on south berm and north berm.

Starting Claymax floor liner mid p.m.. Last seam welded 6:15 p.m. - Destructs to be marked tomorrow.

Miscellaneous:

Conformance roll of composite drainage net marked after receiving Inventory List by fax.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 74

CONTRACTOR'S REP.: Greg Hillman **DATE:** 12-6-01, Thursday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	3	Cat A25 Water Truck Volvo A-40 Water Truck Case 1150G Dozer 1 Case 580 Backhoe 1 Pickup Truck
Comanco	15	1 John Deere 544O Loader 1 John Deere 544H Loader 1 John Deere 410E Backhoe
DCW Civil Construction, Inc.	3	1 Ingersol Rand 100 Roller (replacing the 70 Roller 1 John Deere 544H Loader 1 Cat D250 Off-Road Dump Truck 1 Cat D6M Dozer

HOURS INSPECTOR ON JOB SITE: 7:15 a.m. – 6:15 p.m. (11hrs.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 75

CONTRACTOR'S REP.: Greg Hillman **DATE:** 12-7-01, Friday

****

VISITORS: _____

_____

_____

WEATHER: a.m. P/cldy p.m. P/cldy

TEMP. RANGE: 61° - 81°

RAINFALL: 0" (foggy in a.m.)

MAJOR DELIVERIES: _____

_____

****

WORK PERFORMED:

Handex:

Dressing top of east containment berm SW-2, then rolling subgrade and watering.

Also watering haul routes, stopckpile area, and cells.

DCW Civil Construction, Inc.:

Continue finish-grading and rolling A-3, eastern end to include LDS (cut today or tomorrow).

Floor grading to LDS pipe invert stakes, provided by surveyor; location of pipe painted by me on Tuesday 12/4/01.

Comanco:

No work.

Miscellaneous:

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 75

CONTRACTOR'S REP.: Greg Hillman **DATE:** 12-7-01, Friday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	3	Cat A25 Water Truck Volvo A-40 Water Truck Case 1150G Dozer 1 Case 580 Backhoe 1 Pickup Truck
Comanco	0	1 John Deere 544O Loader 1 John Deere 544H Loader 1 John Deere 410E Backhoe
DCW Civil Construction, Inc.	3	1 Ingersol Rand 100 Roller 1 John Deere 544H Loader 1 Cat D250 Off-Road Dump Truck 1 Cat D6M Dozer

HOURS INSPECTOR ON JOB SITE: 7:20 a.m. – 1:30 p.m. to office until 3:45 p.m.

John C Murphy III

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 76

CONTRACTOR'S REP.: Greg Hillman **DATE:** 12-8-01, Saturday

****

VISITORS: _____

WEATHER: a.m. Cldy/Fog p.m. Cldy

TEMP. RANGE: 70° - 84°

RAINFALL: .75"/night & sprinkle 3:30

MAJOR DELIVERIES: _____

****

WORK PERFORMED:

Handex:

Doing some correction of leachate swale north grade. (Jack, Clayton and Greg discuss swale grade critical for flow).

Continue rolling and cutting south berm anchor trench.

DCW Civil Construction, Inc.:

Continue grading and compacting east end of A-3.

Comanco:

Folding back liner and unfolding Claymax which was folded under liner last night.

Doing Claymax repair at north swale and start deployment at 8:30 a.m.

Also beginning tie-in to SW-1.

Air-testing and extruder begin by 8:15 a.m. By 9:45 first liner panel down (to alternate between liner and GCL).

At 3:30, due to sprinkling, crew stops GCL deployment, finish liner deployment, and fold excess GCL under liner (3-4 ft. approximately).

Miscellaneous:

After 3 p.m. only Greg is on site for Handex.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 76

CONTRACTOR'S REP.: Greg Hillman **DATE:** 12-8-01, Saturday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	3 (a.m.)	Cat A25 Water Truck Volvo A-40 Water Truck Case 1150G Dozer 1 Case 580 Backhoe 1 Pickup Truck
Comanco	16	1 John Deere 544O Loader 1 John Deere 544H Loader 1 John Deere 410E Backhoe
DCW Civil Construction, Inc.	3	1 Ingersol Rand 100 Roller 1 John Deere 544H Loader 1 Cat D250 Off-Road Dump Truck 1 Cat D6M Dozer

HOURS INSPECTOR ON JOB SITE: 7:25 a.m. – 5:30 p.m. (10 hrs.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 78

CONTRACTOR'S REP.: Greg Hillman **DATE:** 12-10-01, Monday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Cldy p.m. Cldy

TEMP. RANGE: 70° - 83°

RAINFALL: Traces in rain gauge

MAJOR DELIVERIES: 2 loads of 10-in. PVC pipe, 1 load of 8.65-in. galv. pipe and 1 truck load of composite

****

WORK PERFORMED:

Handex:

Unloading the three loads of pipe.

Doing some subgrade touch-up.

Rolling subgrade ahead of Comanco.

In the p.m., cutting anchor trench south berm.

DCW Civil Construction, Inc.:

Continue grading and rolling eastern A-3.

Comanco:

Unfolding GCL edge that was folded under liner and start Bentomat deployment (alternating between GCL and liner).

Miscellaneous:

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 78

CONTRACTOR'S REP.: Greg Hillman **DATE:** 12-10-01, Monday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	4	Cat A25 Water Truck Volvo A-40 Water Truck Case 1150G Dozer 1 Case 580 Backhoe 1 Pickup Truck
Comanco	15	1 John Deere 544O Loader 1 John Deere 544H Loader 1 John Deere 410E Backhoe
DCW Civil Construction, Inc.	2	1 Ingersol Rand 100 Roller 1 John Deere 544H Loader 1 Cat D250 Off-Road Dump Truck 1 Cat D6M Dozer

HOURS INSPECTOR ON JOB SITE: 7:10 a.m. – 6:10 p.m. (11 hrs.)

John C Mc Hugh III

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 79

CONTRACTOR'S REP.: Greg Hillman **DATE:** 12-11-01, Tuesday

****

VISITORS: _____

_____

_____

WEATHER: a.m. P/cldy p.m. P/cldy

TEMP. RANGE: 70° - 83°

RAINFALL: 0"

MAJOR DELIVERIES: Sandscreen

****

WORK PERFORMED:

Handex:

Exposing pipe by hydrant, not by tie-in location (they say it is easier).

Watering SW-2 cell floor and haul routes.

Doing some touch-up of subgrade.

Sandscreen arriving on sit at approx. 2:30 p.m.

DCW Civil Construction, Inc.:

Working east end of A-3 as well as east and west contqainment berms.

Low boy takes haul truck away.

Comanco:

Begin deploying as usual, unfolding liner and then GCL deployment; however, yesterday's seams fail destructive testing, and they are cut out before lunch. After lunch panels are pulled over and welded again.

Extruding butt seams.

Detailing west end of tie-in to SW-1(alternating between GCL and liner).

Miscellaneous:

Handex will have South End Development make grade corrections in SW-2.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 79

CONTRACTOR'S REP.: Greg Hillman **DATE:** 12-11-01, Monday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	4	Cat A25 Water Truck Volvo A-40 Water Truck Case 1150G Dozer 1 Case 580 Backhoe 1 Pickup Truck
Comanco	15	1 John Deere 544O Loader 1 John Deere 544H Loader 1 John Deere 410E Backhoe
DCW Civil Construction, Inc.	2	1 Ingersol Rand 100 Roller 1 John Deere 544H Loader 1 Cat D250 Off-Road Dump Truck (departs) 1 Cat D6M Dozer

HOURS INSPECTOR ON JOB SITE: 7:25 a.m. – 5:35 p.m. (10 hrs. 10 min.)

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 80

CONTRACTOR'S REP.: Greg Hillman **DATE:** 12-12-01, Wednesday

****

VISITORS: _____

_____

_____

WEATHER: a.m. P/cldy p.m. P/cldy

TEMP. RANGE: 70° - 83°

RAINFALL: 0" (foggy in a.m.)

MAJOR DELIVERIES: 1 truckload of CDN, Belt for Sand screening

****

WORK PERFORMED:

Handex:

Setting up screen and installing belt. Screening starts in late a.m.

Some rolling of subgrade ahead of Comanco deployment.

DCW Civil Construction, Inc.:

Continue finish grading east end of A-3, LDS swale, and berm slope.

Comanco:

Larger crew on site today. More bars for GLL and two extruders detailing.

Crew of laborers clean up debris on top of SW-1.

South End Development:

Crew of 3 on site to make grade corrections. String-lining between stakes.

Miscellaneous:

I called Pablo and asked him to check on destructs at lab. – Destructs 1 and 2 passed. Also received more liner results.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 80

CONTRACTOR'S REP.: Greg Hillman **DATE:** 12-12-01, Tuesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	4	Cat A25 Water Truck Volvo A-40 Water Truck Case 1150G Dozer 1 Rubber Tire Hoe 1 Volvo L120 Loader (arrived yesterday) 1 Pickup Truck
Comanco	26	1 John Deere 544O Loader 1 John Deere 544H Loader 1 John Deere 410E Backhoe
DCW Civil Construction, Inc.	3	1 Ingersol Rand 100 Roller 1 John Deere 544H Loader 1 Cat D6M Dozer
South End Development	3	Using Handex equipment

HOURS INSPECTOR ON JOB SITE: 7:30 a.m. – 5:30 p.m. (10 hrs.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 81

CONTRACTOR'S REP.: Greg Hillman **DATE:** 12-13-01, Thursday

****

VISITORS: _____

_____

_____

WEATHER: a.m. P/cldy p.m. P/cldy

TEMP. RANGE: 68° - 84°

RAINFALL: 0" (foggy in a.m.)

MAJOR DELIVERIES: Pipe fittings for reuse pipe

****

WORK PERFORMED:

Handex:

Operating sand screening to new stockpile.

Roller in SW-2 ahead of liner deployment.

Some grading corrections to fix "washboard" south of south collection swale.

DCW Civil Construction, Inc.:

Finishing A-3 LDS grading.

Rolling floor continues (surveyors to shoot as-builts tomorrow).

Comanco:

Folding back liner and beginning GCL deployment. First liner deployed before 10:00 a.m.

Alternating GCL and liner deployment.

In late a.m., rubber tire hoe placing bars in GCL (less wasted loader time)

More liner conformance results arriving from lab.

Installing cap strip to replace failed destructs.

Miscellaneous:

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 81

CONTRACTOR'S REP.: Greg Hillman **DATE:** 12-13-01, Thursday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	5	Cat A25 Water Truck Volvo A-40 Water Truck Case 1150G Dozer 1 Volvo L120 Loader 1 Case 580 Backhoe (started 12/3/01) 1 Pickup Truck
Comanco	24	1 John Deere 544O Loader 1 John Deere 544H Loader 1 John Deere 410E Backhoe
DCW Civil Construction, Inc.	3	1 Ingersol Rand 100 Roller 1 John Deere 544H Loader 1 Cat D250 Off-Road Dump Truck 1 Cat D6M Dozer

HOURS INSPECTOR ON JOB SITE: 7:20 a.m. – 5:45 p.m. (10 hrs. 25 min.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 82

CONTRACTOR'S REP.: Greg Hillman **DATE:** 12-14-01, Friday

****

VISITORS: _____

_____

_____

WEATHER: a.m. P/cldy p.m. P/cldy

TEMP. RANGE: 68° - 84°

RAINFALL: 0" (hazy in a.m.)

MAJOR DELIVERIES: 1 CDN truckload and more pipe fittings for reuse pipe

****

WORK PERFORMED:

Handex:

Operating sand screening to new stockpile. Greg says he may need a larger screen (only 5,000 yds. screened to date). Mechanics working on screen to increase production.
Roller in SW-2 ahead of liner deployment.
In the a.m., dozer working in SW-2 to fix "washboard" south floor.

DCW Civil Construction, Inc.:

Finishing A-3 LDS grading and rolling in preparation for as-built surveying.
Moving excess material to stockpile with Terex off-road truck.

Comanco:

Folding back liner and beginning GCL deployment. First liner deployed by 9:00 a.m.
Alternating GCL and liner deployment.
Rubber tire hoe placing bars in GCL.
Continue cap strip replacement of failed seams. Wedge capping completed by 2 p.m.
At 9 a.m., starting vacuum testing.

Peninsula Surveying:

Shooting corrections to SW-2 first (west half of SW-2 correction shots not done).

Miscellaneous:

In the p.m., discussing Bentomat shortage, toe offset, and slope length.
All stakes removed approximately 200-ft. across subgrade.
Received Comanco liner paperwork. Marked and sent out destructs.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 82

CONTRACTOR'S REP.: Greg Hillman **DATE:** 12-14-01, Friday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	5	Cat A25 Water Truck Volvo A-40 Water Truck Case 1150G Dozer 1 Volvo L120 Loader 1 Case 580 Backhoe (started 12/3/01) 1 Pickup Truck
Comanco	29	1 John Deere 544O Loader 1 John Deere 544H Loader 1 John Deere 410E Backhoe
DCW Civil Construction, Inc.	3	1 Ingersol Rand 100 Roller 1 John Deere 544H Loader 1 Terex Off-Road Truck 1 Cat D6M Dozer
Peninsula Surveying	2	1 Van

HOURS INSPECTOR ON JOB SITE: 7:20 a.m. – 3:45 p.m. (8 hrs. 25 min.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 83

CONTRACTOR'S REP.: Greg Hillman **DATE:** 12-15-01, Saturday

****

VISITORS: _____

_____

_____

WEATHER: a.m. P/cldy p.m. P/cldy

TEMP. RANGE: 70° - 83°

RAINFALL: 0"

MAJOR DELIVERIES: _____

****

WORK PERFORMED:

Handex:

Operating sand screening to new stockpile. Production rate increased.

Roller in SW-2 ahead of liner deployment – some backdragging is done after discussion of loader turning ruts.

DCW Civil Construction, Inc.:

Continue moving excess material to stockpile with Terex off-road truck.

Comanco:

Folding back liner and beginning GCL deployment. First liner down by 10 a.m.

Alternating GCL and liner deployment.

GCL 3-ft. overlap at toe continues like it was done yesterday in the p.m.

Rubber tire hoe placing bars in GCL (appears to be a regular activity).

Detailing continues.

Mid a.m., third loader staging composite drainage net.

Miscellaneous:

Received 13 pages of liner paperwork from Comanco.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 83

CONTRACTOR'S REP.: Greg Hillman **DATE:** 12-15-01, Saturday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	4	Cat A25 Water Truck Volvo A-40 Water Truck Case 1150G Dozer 1 Volvo L120 Loader 1 Case 580 Backhoe (started 12/3/01) 1 Pickup Truck
Comanco	29	1 John Deere 544O Loader 1 John Deere 544H Loader 1 John Deere 410E Backhoe 3rd Loader (arrives mid a.m.)
DCW Civil Construction, Inc.	3	1 Ingersol Rand 100 Roller 1 John Deere 544H Loader 1 Cat D6M Dozer 1 Terex Off-Road Truck

HOURS INSPECTOR ON JOB SITE: 7:35 a.m. – 5:35 p.m. (10 hrs.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 85

CONTRACTOR'S REP.: Greg Hillman **DATE:** 12-17-01, Monday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Cldy p.m. P/cldy

TEMP. RANGE: 68° - 82°

RAINFALL: 0"

MAJOR DELIVERIES: HDPE Pipe and 6-inch Pump for SW-2

****

WORK PERFORMED:

Handex:

Operating sand screening to new stockpile.

Roller in SW-2 ahead of liner deployment.

Rubber tire hoe cutting LDS swale SW-2.

In the p.m., repairing subgrade in GCL loading area.

DCW Civil Construction, Inc.:

Removing Terex off-road truck from site in the a.m. (7:15) – other equipment follows.

Comanco:

Folding back liner and beginning GCL deployment. First liner down by 10:15 a.m.

Alternating GCL and liner deployment.

Detailing continues.

After checking air test and V-bar on west end liner, Comanco crew starts installing composite drainage net at west toe and berm.

Peninsula Surveying:

As-built shooting A-3. Also did some shots in SW-2.

Miscellaneous:

Received 8 pages of liner paperwork from Comanco.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 85

CONTRACTOR'S REP.: Greg Hillman **DATE:** 12-17-01, Monday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	4	Cat A25 Water Truck Volvo A-40 Water Truck Case 1150G Dozer 1 Volvo L120 Loader 1 Case 580 Backhoe (started 12/3/01) 1 Pickup Truck
Comanco	29	1 John Deere 544O Loader 1 John Deere 544H Loader 1 John Deere 410E Backhoe 3rd Loader
DCW Civil Construction, Inc.	0	1 Ingersol Rand 100 Roller 1 John Deere 544H Loader 1 Cat D6M Dozer 1 Terex Off-Road Truck (left @ 7:15 a.m.)

HOURS INSPECTOR ON JOB SITE: 7:15 a.m. – 6:00 p.m. (10 hrs. 45 min.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 86

CONTRACTOR'S REP.: Greg Hillman **DATE:** 12-18-01, Tuesday

****

VISITORS: Kim Ford and Sarah of FDEP inspecting SW-2

WEATHER: a.m. Cldy p.m. Clear

TEMP. RANGE: 65° - 79°

RAINFALL: .3" overnight

MAJOR DELIVERIES:

****

WORK PERFORMED:

Handex:

Operating sand screening to new stockpile.

In SW-2, roller, rubber tire hoe, and day laborer repairing subgrade after water stopped flowing off liner, attempting to fix first 100-ft. from liner.

Some wet material in swale removed, and dry material brought in. String lined.

Continue shaping LDS east swale.

DCW Civil Construction, Inc.:

No activity in A-3 (west as-built shows that corrections are needed).

Comanco:

Crew starts with composite drainage net (until weather is clearing).

Folding over liner after adding temporary flaps in swales to stop flow off liner.

Bentomat installation on slopes begins at 8:30 a.m., and Claymax begins as subgrade becomes available. First liner down by 11 a.m., and 2 runs completed by noon.

Miscellaneous:

Universal takes two sand samples ("B" by Connex, and "A" west).

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 86

CONTRACTOR'S REP.: Greg Hillman **DATE:** 12-18-01, Tuesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	6	Cat A25 Water Truck Volvo A-40 Water Truck Case 1150G Dozer 1 Volvo L120 Loader 1 Case 580 Backhoe (started 12/3/01) 1 Pickup Truck
Comanco	36	1 John Deere 544O Loader 1 John Deere 544H Loader 1 John Deere 410E Backhoe 3rd Loader
DCW Civil Construction, Inc.	0	1 Ingersol Rand 100 Roller 1 John Deere 544H Loader 1 Cat D6M Dozer 1 Terex Off-Road Truck (left @ 7:15 a.m.)

HOURS INSPECTOR ON JOB SITE: 7:10 a.m. – 5:30 p.m. (10 hrs. 20 min.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 87

CONTRACTOR'S REP.: Greg Hillman **DATE:** 12-19-01, Wednesday

****

VISITORS: _____

WEATHER: a.m. P/Cldy p.m. Cldy.

TEMP. RANGE: 49° - 73°

RAINFALL: 0"

MAJOR DELIVERIES: 5 Rolls of Bentomat (from Batch 15 FA)
10 Bags of Dentonite Powder, 1720, 1724, 1721, 1880, 1731.

****

WORK PERFORMED:

Handex:

Operating sand screening, extending new stockpile north.
Anchor trench being excavated east on south berm and then north on east berm.
Roller on subgrade ahead of liner deployment.
Discussion on how to address standing water at west end of north swale.
Laborer repairing rut in subgrade when not rolling subgrade.
No activity in A-3.

CDW Civil Construction Inc.

No activity in A-3.

Comanco:

Concentrating on GCL deployment at the start of the day.
Tracking lab fail destructs #5 and #22.
2nd day of repairing ruts in subgrade during GCL deployment.
Detailing continues.
By mid a.m., resuming CDN deployment and sewing (continue for remainder of the day).
In the p.m., track failed DT-34.

Miscellaneous:

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 87

CONTRACTOR'S REP.: Greg Hillman **DATE:** 12-19-01, Wednesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	7	Cat A25 Water Truck Volvo A-40 Water Truck Case 1150G Dozer 1 Volvo L120 Loader 1 Case 580 Backhoe (started 12/3/01) 1 Pickup Truck
Comanco	36	1 John Deere 544O Loader 1 John Deere 544H Loader 1 John Deere 410E Backhoe 3rd Loader (John Deere)

HOURS INSPECTOR ON JOB SITE: 7:15 a.m. – 5:20 p.m. (10 hrs.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 88

CONTRACTOR'S REP.: Greg Hillman **DATE:** 12-20-01, Thursday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Clear p.m. Clear

TEMP. RANGE: 53° - 75°

RAINFALL: 0"

MAJOR DELIVERIES: 18 Rolls of Composite Drainage Net (1/3 of a normal load)

****

WORK PERFORMED:

Handex:

Operating sand screening, extending new stockpile north.

Anchor trench being excavated northeast corner of SW-2 (not blocking ramp into cell).

Roller on subgrade ahead of liner deployment.

Late p.m., correcting hump in south swale near LDS.

No activity in A-3.

CDW Civil Construction Inc.

No activity in A-3.

Comanco:

Folding back liner and beginning GCL deployment – alternating GCL and liner deployment.

Also starting composite drainage net deployment.

Mid a.m., small crew begins capping failed Seam Destruct #22.

In the p.m., bottleneck at ramp in cell (Comanco to modify deployment pattern).

Miscellaneous:

Dan: Letter acknowledging Handex' $99 error (mtg. verbal).

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 88

CONTRACTOR'S REP.: Greg Hillman **DATE:** 12-20-01, Thursday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	6	Cat A25 Water Truck Volvo A-40 Water Truck Case 1150G Dozer 1 Volvo L120 Loader 1 Case 580 Backhoe (started 12/3/01) 1 Pickup Truck
Comanco	36	1 John Deere 544O Loader 1 John Deere 544H Loader 1 John Deere 410E Backhoe 3rd Loader (John Deere)

HOURS INSPECTOR ON JOB SITE: 7:20 a.m. – 5:40 p.m. (10 hrs. 20 min.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 89

CONTRACTOR'S REP.: Greg Hillman **DATE:** 12-21-01, Friday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Clear p.m. Clear

TEMP. RANGE: 32° - 69°

RAINFALL: 0" (frost)

MAJOR DELIVERIES: Truckload CDN, Conformance Sample 1303, Lot 4

****

WORK PERFORMED:

Handex:

Operating sand screening, extending new stockpile north.

Roller on subgrade ahead of liner deployment.

CDW Civil Construction Inc.

No activity in A-3.

Comanco:

Folding back liner and beginning GCL deployment.

Deploying GCL on east berm and south berm avoiding butt seams on 3/1 slope.

Small crew continues on cap strip.

Detailing continues.

Mid a.m., short of Bentomat. Panel pulled from sump location to be replaced when pipe and sump are installed.

Raking ruts out in subgrade as liner is being deployed out of the southeast corner.

At 5:30 p.m. deployment of liner complete (3+ rolls of Claymax left over) – east cross seam not welded, bagged down (partial crew to work Saturday to detail, weld, air test, etc. ramp over trench).

Miscellaneous:

Universal takes sand samples C&D from north side of pile.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 89

CONTRACTOR'S REP.: Greg Hillman **DATE:** 12-21-01, Friday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	6	Cat A25 Water Truck Volvo A-40 Water Truck Case 1150G Dozer 1 Volvo L120 Loader 1 Case 580 Backhoe (started 12/3/01) 1 Pickup Truck
Comanco	36	1 John Deere 544O Loader 1 John Deere 544H Loader 1 John Deere 410E Backhoe 3rd Loader (John Deere)

HOURS INSPECTOR ON JOB SITE: 7:25 a.m. – 5:45 p.m. (10 hrs. 20 min.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 90

CONTRACTOR'S REP.: Greg Hillman **DATE:** 12-22-01, Saturday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Clear p.m. _____

TEMP. RANGE: 32° - 70°

RAINFALL: 0" (frost in a.m.)

MAJOR DELIVERIES: _____

****

WORK PERFORMED:

Handex:

Operating sand screening, extending new stockpile north.

CDW Civil Construction Inc.

No activity in A-3.

Comanco:

Mechanic on site – sight glass on diesel fuel leaking, some on pavement before valve is closed.

Crew preparing cross seam and detailing east end of SW-2.

Cleaning up, using low ground pressure vehicle on liner (as of yesterday p.m.).

All destructs are marked on liner, but Comanco says they will cut them out Wednesday after Christmas break.

Miscellaneous

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 90

CONTRACTOR'S REP.: Greg Hillman **DATE:** 12-22-01, Saturday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	5	Cat A25 Water Truck Volvo A-40 Water Truck Case 1150G Dozer 1 Volvo L120 Loader 1 Case 580 Backhoe (started 12/3/01) 1 Pickup Truck
Comanco	25	1 John Deere 544O Loader 1 John Deere 544H Loader 1 John Deere 410E Backhoe 3rd Loader (John Deere)

HOURS INSPECTOR ON JOB SITE: 7:15 a.m. – 12:55 p.m. (5 hrs. 40 min.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 94

CONTRACTOR'S REP.: Greg Hillman **DATE:** 12-26-01, Wednesday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Cldy. p.m. Cldy.

TEMP. RANGE: 45° - 58°

RAINFALL: 1" Mon. & ½" Tues.

MAJOR DELIVERIES: Truckload CDN on site - some Lot #4, some Lot #5.
(0101345 to lab)

****

WORK PERFORMED:

Handex:

Operating sand screening, extending stockpile north and east.
Pumped water out of Cell SW-2 over Christmas weekend with 6-in. pump.
3-in. pump (replacing the 6-in. pump) draining LDS swale.

Comanco:

Welding tie-in to SW-1.
Detailing liner continues, especially south berm. Liner shrunk due to temperature drop.
Destructs are being cut out to ship to lab.
Most of the crew deploying CDN. Loader staging CDN from stockpile area.
In the p.m. crew starts clean-up of stockpile area.

Miscellaneous

Universal took sand samples E, F. on east side of piles.
No liner paperwork received today.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 94

CONTRACTOR'S REP.: Greg Hillman **DATE:** 12-26-01, Wednesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	4	Cat A25 Water Truck Volvo A-40 Water Truck Case 1150G Dozer 1 Volvo L120 Loader 1 Case 580 Backhoe (gone today) 1 Pickup Truck 3-inch Pump (replacing 6-inch Pump)
Comanco	34	1 John Deere 544O Loader 1 John Deere 544H Loader 1 John Deere 410E Backhoe 3rd Loader (John Deere)

HOURS INSPECTOR ON JOB SITE: 7:20 a.m. – 5:30 p.m. (10 hrs. 10 min.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 95

CONTRACTOR'S REP.: Greg Hillman **DATE:** 12-27-01, Thursday

****

VISITORS: _____

_____

_____

WEATHER: a.m. P/Cldy. p.m. Clear

TEMP. RANGE: 32° - 62°

RAINFALL: 0"

MAJOR DELIVERIES: _____

****

WORK PERFORMED:

Handex:

Operating sand screening, extending stockpile north and east.

Dozer blades south berm piles to give loader access for CDN deployment.

Comanco:

Continue deployment of CDN full rolls.

Part of crew begins filling in the 85-ft. center gap between the 200-ft. rolls on the north and south deployment.

Detailing continues on liner, especially south berm and north tie-in.

3 additional destructs marked before lunch to fill gap in seam testing and go out by Fed-Ex (last of this layer).

Miscellaneous

Jack and Greg look at SW-2 as-builts for subgrade; several areas need to be reshot (west half north swale and east end of both swales).

15 pages of liner paperwork received in the a.m. and 12 more before lunch.

Some discussion with Pable about CRC GCL conformance retest (which was not done, but will be done).

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 95

CONTRACTOR'S REP.: Greg Hillman **DATE:** 12-27-01, Thursday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	4	Cat A25 Water Truck Case 1150G Dozer 1 Volvo L120 Loader 1 Pickup Truck 3-inch Pump
Comanco	34	1 John Deere 544O Loader 1 John Deere 544H Loader 1 John Deere 410E Backhoe 3rd Loader (John Deere)

HOURS INSPECTOR ON JOB SITE: 7:20 a.m. – 5:25 p.m. (10 hrs.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 96

CONTRACTOR'S REP.: Greg Hillman **DATE:** 12-28-01, Friday

****

VISITORS: _____

_____

_____

WEATHER: a.m. P/Cldy. p.m. M/Cldy

TEMP. RANGE: 48° - 65°

RAINFALL: 0"

MAJOR DELIVERIES: Truckload of CDN (53 Rolls)

****

WORK PERFORMED:

Handex:

Operating sand screening, extending stockpile north and east.

DCW Civil Construction, Inc.:

3-man crew on site making grade corrections in swales and removing roots.

Shooting corrections in the p.m.

Comanco:

Continue deployment of CDN full rolls.

Part of crew continue filling in center gap between the north and south deployment, working east.

Detailing continues on south berm liner and north tie-in, working east.

Peninsula Surveying:

Shooting limits of liner installed as well as corrected SW-2 subgrade.

Miscellaneous

Greg says densities will be taken in A-3 on January 2, 2002.

G&H sand samples taken at east and north side of stockpile.

3 pages of liner paperwork received today.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 96

CONTRACTOR'S REP.: Greg Hillman **DATE:** 12-28-01, Friday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	4	Cat A25 Water Truck Case 1150G Dozer 1 Volvo L120 Loader 1 Pickup Truck 3-inch Pump
Comanco	34	1 John Deere 544O Loader 1 John Deere 544H Loader 1 John Deere 410E Backhoe 3rd Loader (John Deere)
DCW Civil Construction, Inc.	4	Shovels, Rakes, Axes String Line
Peninsula Surveying	3	1 Van

HOURS INSPECTOR ON JOB SITE: 7:25 a.m. – 5:20 p.m. (9 hrs. 55 min.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 97

CONTRACTOR'S REP.: Greg Hillman **DATE:** 12-29-01, Saturday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Cldy. p.m. M/Cldy

TEMP. RANGE: 60° - 69°

RAINFALL: .4" overnight

MAJOR DELIVERIES: 1 truckload of CDN (51 rolls) – 0101434, Lot 6, sampled
In the p.m. 2 more trucks of CDN (50 rolls and 51 rolls) – 0101555, Lot 7, sampled

****

WORK PERFORMED:

Handex:

Operating sand screening, extending stockpile west

DCW Civil Construction, Inc.:

No work.

Comanco:

Continue deploying CDN full rolls and filling in center gap between north and south deployment, working east.

Detailing continues on south berm liner and north tie-in, working east.

In the p.m., small crew assembling rub pad at west end of SW-2 in preparation for liner deployment.

Miscellaneous

6 pages of liner paperwork received today.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 97

CONTRACTOR'S REP.: Greg Hillman **DATE:** 12-29-01, Saturday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	3	Cat A25 Water Truck Case 1150G Dozer 1 Volvo L120 Loader 1 Pickup Truck 3-inch Pump
Comanco	40	1 John Deere 544O Loader 1 John Deere 544H Loader 1 John Deere 410E Backhoe 3rd Loader (John Deere)
DCW Civil Construction, Inc.	0	

HOURS INSPECTOR ON JOB SITE: 7:10 a.m. – 3:15 p.m. to FedEx (8 hrs. +)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 101

CONTRACTOR'S REP.: Greg Hillman **DATE:** 1-2-02, Wednesday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Cldy. p.m. M/Cldy

TEMP. RANGE: 55° - 62°

RAINFALL: Gauge: 0". 0800-1300: 2.4"

MAJOR DELIVERIES: 11 truckloads of CRC GCL delivered in the a.m.
Also, 2 truckloads of CDN arrives on site.

****

WORK PERFORMED:

Handex:

Operating sand screening, extending stockpile west
On Monday, anchor trench on west end of A-3 was dug. (No sand screening that day).
Water truck watering A-3 early a.m. – stops as rain increases.
Erosion on slopes in A-3.
2 pumps working in SW-2 – standing water in the cell. Late a.m. 6-in. pump arrives.
In the p.m. a roller arrives but is returned as it is too small.

Comanco:

Deploying CDN until rain starts at about 8 a.m. – Most of the crew leaving at 8 a.m.
Crew of 10 unloading CRC GCL and covering rolls as soon as they are stacked.
Just before lunch, moving unloading operation to lay-down area for the 2 truckloads of CDN; then going back to the east side of A-3 to unload the remaining truckloads of CRC GCL. – At 3 p.m. last truck was unloaded and material being covered.
(Road all muddy at A-3 due to unloading).

Miscellaneous

Sand sample I taken from east side of stockpile.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 101

CONTRACTOR'S REP.: Greg Hillman **DATE:** 1-2-02, Wednesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	5	Cat A25 Water Truck Case 1150G Dozer 1 Volvo L120 Loader 1 Pickup Truck 3-inch Pump 6-inch Pump (arriving)
Comanco Crew of 10 for the day	44	1 John Deere 544O Loader 1 John Deere 544H Loader 1 John Deere 410E Backhoe 3rd Loader (John Deere)

HOURS INSPECTOR ON JOB SITE: 7:20 a.m. – 3:20 p.m. (8 hrs.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 102

CONTRACTOR'S REP.: Greg Hillman **DATE:** 1-3-02, Thursday

****

VISITORS: _____

WEATHER: a.m. Cldy. p.m. M/Cldy

TEMP. RANGE: 55° - 62°

RAINFALL: .1" since yesterday p.m.

MAJOR DELIVERIES: 1 truckload of CRC GCL (waiting on site at 7:20 a.m.) and 1 truck being unloaded at 8:30 a.m.

****

WORK PERFORMED:

Handex:

Two 3-inch pumps working in SW-2 – still significant water standing in the cell. (6-in. pump only idled). A 4-inch pump arrives at 9 a.m., and at 10 a.m. all three pumps are draining SW-2. Also standing water in A-3.

Sand screening begins mid a.m.

Comanco:

Unloading trucks and covering CRC GCL as soon as rolls are unloaded.

Cleaning up tie-in wash-outs off SW-1, shoveling out anchor trench, and doing general cleanup.

Most of the crew departs around 9 a.m., and the rest leaves soon after.

Miscellaneous

Received 3 pages of liner system paperwork from Comanco.

Received results from the last 12 destructs.

Conformance 8, 9. Jerry to fax preliminary index flux numbers on conformance re-test.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 102

CONTRACTOR'S REP.: Greg Hillman **DATE:** 1-3-02, Thursday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	5	Cat A25 Water Truck Case 1150G Dozer 1 Volvo L120 Loader 1 Pickup Truck 2-3" Pumps 1-6" Pump 1-4" Pump
Comanco (Leaving mid a.m.)	46	1 John Deere 544O Loader 1 John Deere 544H Loader 1 John Deere 410E Backhoe 3rd Loader (John Deere)

HOURS INSPECTOR ON JOB SITE: 7:20 a.m. – 12:10 p.m. to Office till 2:45 p.m.

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 103

CONTRACTOR'S REP.: Greg Hillman **DATE:** 1-4-02, Friday

****

VISITORS: _____

WEATHER: a.m. P/Cldy. p.m. Clear

TEMP. RANGE: 30° - 53°

RAINFALL: .1" in gauge

MAJOR DELIVERIES: 2 truckloads of CRC GCL (arriving at 8 a.m.)

****

WORK PERFORMED:

Handex:

Operating sand screening, extending stockpile upward and east.

3-inch pump draining A-3 LDS sump area.

Shoveling silt humps to promote drainage.

Cleaning off liner where sand has washed on.

Removing water from LDS SW-2 again – water draining from CDN.

Comanco:

Removing water and deploying CDN in SW-2 south side

Part of crew cleaning off liner and CDN at washed down material along tie-in area.

Additional sewing machines sewing north and middle CDN fabric from December deployment.

At 12:45 p.m. liner deployment begins.

Miscellaneous

Monthly progress meeting held today.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 103

CONTRACTOR'S REP.: Greg Hillman **DATE:** 1-4-02, Friday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	7	Cat A25 Water Truck Case 1150G Dozer 1 Volvo L120 Loader 1 Pickup Truck 2-3" Pumps
Comanco	46	1 John Deere 544O Loader 1 John Deere 544H Loader 1 John Deere 410E Backhoe 3rd Loader (John Deere)

HOURS INSPECTOR ON JOB SITE: 7:10 a.m. – 1:00 p.m. (5 hrs. 50 min.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 104

CONTRACTOR'S REP.: Greg Hillman **DATE:** 1-5-02, Saturday

****

VISITORS: _____

_____

_____

WEATHER: a.m. P/Cldy. p.m. Cldy.

TEMP. RANGE: 28° - 60°

RAINFALL: 0"

MAJOR DELIVERIES: 1 truckload of CDN

****

WORK PERFORMED:

Handex:

Dressing up subgrade in Cell A-3 west end (2 laborers and 1 dozer).

Sand screen and conveyor are moved west and sand screening operation is restarted at 10 a.m. Dozer moves back to sand screening operation at 11 a.m.

Rubber tire backhoe and 2 laborers still working in A-3.

Comanco:

Removing water and deploying CDN in SW-2 north side. Moving to middle in late a.m.

Additional 3-ft.+ CDN run east/west at bottom of collection swales. West electrode in place.

Part of crew deploying west floor HDPE liner.

Detailing yesterday's deployment begins late a.m. – only 1 gun detailing due to mechanical problems with 2 others.

Destructs marked on yesterday's and today's welding (no destructs were cut out today).

Unloading CDN from truck to stockpile at approx. 3:30 p.m.

All three wedges finishing seams at 5:10 p.m.

Miscellaneous

Greg says Peninsula Surveying found correction data for SW-2 subgrade as-builts.

Both as-builts sent to Tampa office by courier.

Talked to Greg about removing rocks and roots in west berm area – he says they are not done yet.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 104

CONTRACTOR'S REP.: Greg Hillman **DATE:** 1-5-02, Saturday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	6	Cat A25 Water Truck Case 1150G Dozer 1 Volvo L120 Loader 1 Pickup Truck 3" Pump
Comanco	43	1 John Deere 544O Loader 1 John Deere 544H Loader 1 John Deere 410E Backhoe 3rd Loader (John Deere)

HOURS INSPECTOR ON JOB SITE: 7:20 a.m. – 5:20 p.m. (10 hrs.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 106

CONTRACTOR'S REP.: Greg Hillman **DATE:** 1-7-02, Monday

****

VISITORS: _____

_____

_____

WEATHER: a.m. P/Cldy. p.m. Cldy.

TEMP. RANGE: 44° - 54°

RAINFALL: .3" over wkend, drizzle during the day & .1" rain

MAJOR DELIVERIES: 1 truckload of perforated HDPE pipe and some fittings

****

WORK PERFORMED:

Handex:

Pumping water out of SW-2 LDS.

2 laborers removing roots from A-3 subgrade.

Sand screen operating when loader is available.

Comanco:

Filling sand bags and deploying CDN in SW-2 east end (only about 20 rolls needed to finish secondary layer of CDN).

Partial crew on SW-2 deploying primary liner (starting mid a.m.).

Air testing and detailing in SW-2.

Cutting destructs in A-3 to stage CRC GCL in cell on pipe.

Welding and deploying stops at 2:30 p.m. due to rain.

After bagging down liner, crew departs.

Miscellaneous

Universal taking densities in A-3 west end area.

Universal field technician says he has no proctor results from last week and no proctors for SW-2 (but his office does).

Received survey quantity of liner in SW-2 and perm re-test results of roll #54 10^{-9}.

2 pages of paperwork received from Comanco.

Operations meeting held in the p.m.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 106

CONTRACTOR'S REP.: Greg Hillman **DATE:** 1-7-02, Monday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	8	Cat A25 Water Truck Case 1150G Dozer 1 Volvo L120 Loader 1 Pickup Truck 3" Pump
Comanco	58	1 John Deere 544O Loader 1 John Deere 544H Loader 1 John Deere 410E Backhoe 3rd Loader (John Deere)

HOURS INSPECTOR ON JOB SITE: 7:15 a.m. – 4:20 p.m. (9 hrs.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 107

CONTRACTOR'S REP.: Greg Hillman **DATE:** 1-8-02, Tuesday

****

VISITORS: Comanco's QC Manager and Safety Manager

WEATHER: a.m. Clear p.m. Clear

TEMP. RANGE: 30° - 55°

RAINFALL: .1" from yesterday

MAJOR DELIVERIES: Excavator Kobelco SK200 and John Deere 310E backhoe

****

WORK PERFORMED:

Handex:

Operating sand screening, extending stockpile up and west. Sand screen clogging (Greg says it also clogged yesterday so they shut down at 3:30 p.m.)

Crew measuring A-3 swales to indicate areas to be corrected. (surveyors expected on Friday, also to locate road crossings).

Roller and laborer working in A-3, and late p.m. dozer working on east berm.

Comanco:

Splitting crew between A-3 and SW-2.

In A-3, start deploying GCL at 9:40 a.m. and secondary liner at west berm 1:40 p.m.

In SW-2, deploying primary liner, sewing CDN east, pumping down LDS, deploying east berm CDN and clearing water off liner.

Late p.m., air testing, cleaning up, bagging down liner, and staging more GCL.

Miscellaneous

1 page of paperwork received from Comanco.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 107

CONTRACTOR'S REP.: Greg Hillman **DATE:** 1-8-02, Tuesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	8	Cat A25 Water Truck Case 1150G Dozer 1 Volvo L120 Loader 1 Pickup Truck 3" Pump
Comanco	56	1 John Deere 544O Loader 1 John Deere 544H Loader 1 John Deere 410E Backhoe 3rd Loader (John Deere)

HOURS INSPECTOR ON JOB SITE: 7:20 a.m. – 5:25 p.m. (10 hrs.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 108

CONTRACTOR'S REP.: Greg Hillman **DATE:** 1-9-02, Wednesday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Clear p.m. Clear

TEMP. RANGE: 30° - 55°

RAINFALL: .0" (Frost in the a.m.)

MAJOR DELIVERIES: _____

****

WORK PERFORMED:

Handex:

Operating sand screening, extending stockpile up and west.

410E backhoe extending south anchor trench east ahead of GCL deployment.

Dozer continues shaping east berm slope, followed by two laborers with rakes.

Approx. 10 a.m., backhoe staging up reuse pipe.

Some swale shaping in A-3, as well as tie-in touch-up.

Comanco:

In A-3, continue deploying GCL east from west toe area.

In SW-2, continue deploying primary liner (though welding will not start until liner warms up).

Loader moving temporary berm on SW-1 to deploy, replacing gaps afterwards.

Airtesting and detailing follow welding. Late p.m. wedge breakdown causes about 150-ft. of seam left open (double bagged).

Miscellaneous

Greg, Jack, and John Power discuss rerouting 10-in. reuse line and exchanging unused fittings for Supply House Trade for 2-in. lines.

Received 3 pages of liner paperwork from Comanco.

Jack informs Greg of Pay Request problems.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 108

CONTRACTOR'S REP.: Greg Hillman **DATE:** 1-9-02, Wednesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	8	Cat A25 Water Truck Case 1150G Dozer Kobelco SK200 Excavator 310E Backhoe 1 Volvo L120 Loader 1 Pickup Truck 3" Pump
Comanco	56	1 John Deere 544O Loader 1 John Deere 544H Loader 1 John Deere 410E Backhoe 3rd Loader (John Deere)

HOURS INSPECTOR ON JOB SITE: 7:20 a.m. – 5:25 p.m. (10 hrs.)

John C McGlothlin III
Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 109

CONTRACTOR'S REP.: Greg Hillman **DATE:** 1-10-02, Thursday

****

VISITORS: _____

WEATHER: a.m. Clear p.m. Clear

TEMP. RANGE: 32° - 70°

RAINFALL: 0"

MAJOR DELIVERIES: CDN 155 on site (14 deployed since last delivery)

****

WORK PERFORMED:

Handex:

Operating sand screening, extending stockpile up and west.
410E backhoe extends south anchor trench approx.150-ft. east ahead of GCL deployment.
Roller working the floor of A-3 - top of tie-in subgrade corrected.
In the p.m. excavator is repaired and moves to east of leachate storage tank to excavate for pipe placement, laying from 90° elbow north – 500 feet placed.)

Comanco:

In A-3, alternating between deployment of GCL and liner.
In SW-2, continue deploying primary liner.
Airtesting and detailing continue, numerous destructs marked - one tracking destruct (SW2 #NPD 23).
In A-3, marked destructs until 5:55.
of seam left open (double bagged).

Miscellaneous

Universal takes densities in east half of A-3 and sand samples J, K.
Discussed Pay Request No. 4 with Dan.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 109

CONTRACTOR'S REP.: Greg Hillman **DATE:** 1-10-02, Thursday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	9	Cat A25 Water Truck Case 1150G Dozer Kobelco SK200 Excavator 310E Backhoe 1 Volvo L120 Loader 1 Pickup Truck 3" Pump
Comanco	59	1 John Deere 544O Loader 1 John Deere 544H Loader 1 John Deere 410E Backhoe 3rd Loader (John Deere)

HOURS INSPECTOR ON JOB SITE: 7:15 a.m. – 6:00 p.m. (10 hrs. 45 min.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 110

CONTRACTOR'S REP.: Greg Hillman **DATE:** 1-11-02, Friday

****

VISITORS: Comanco Safety/QC Manager
Tenex representative on site in the p.m.

WEATHER: a.m. Clear p.m. Clear
TEMP. RANGE: 32° - 70°
RAINFALL: 0"

MAJOR DELIVERIES: At 7:30 a.m.: CDN truckload, 51 rolls (staged south of SW-2)

****

WORK PERFORMED:

Handex:

Operating sand screening (after 2:30 repair of equipment), extending stockpile west.
410E backhoe extends south anchor trench approx.100-ft. east ahead of GCL deployment.
Roller, dozer and 2 laborers intermittently working the floor of A-3.
Excavator digging for reuse pipe into retention basin; installer says that deflection is within manufacturer's recommendations. Excavating 4-ft. deep to ensure 36-in. of cover on the10-in. pipe.
Dozer cutting swales on the east side of both SW-2 and A-3.

Comanco:

In A-3, alternating between deployment of GCL and liner.
In SW-2, continue deploying primary liner.
Air-testing and detailing continue.
At 9 a.m. primary CDN installation starts in SW-2. Detail crew is in SW-2 to ensure that detailing is past secondary CDN on primary liner.
Beginning secondary tie-in to A-2.

Miscellaneous

Informed Greg that handwritten hydraulic conductivity results were unacceptable.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 110

CONTRACTOR'S REP.: Greg Hillman **DATE:** 1-11-02, Friday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	10	Cat A25 Water Truck Case 1150G Dozer Case 580 Backhoe Kobelco SK200 Excavator 1 Volvo L120 Loader 1 Pickup Truck
Comanco	58	1 John Deere 544O Loader 1 John Deere 544H Loader 1 John Deere 410E Backhoe 3rd Loader (John Deere)
Peninsula Survey	3	1 Van

HOURS INSPECTOR ON JOB SITE: 7:25 a.m. – 5:30 p.m. (10 hrs.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 111

CONTRACTOR'S REP.: Greg Hillman **DATE:** 1-12-02, Saturday

****

VISITORS: _____

_____

_____

WEATHER: a.m. P/Cldy. p.m. M/Cldy

TEMP. RANGE: 47° - 72°

RAINFALL: 0" (Fog in the a.m.)

MAJOR DELIVERIES: CDN truckload on site in a.m.; 50 rolls, staged south of SW-2, (sampled Lot 11 0200322)

****

WORK PERFORMED:

Handex:

Operating sand screening, extending stockpile west.

410E backhoe extends south anchor trench approx.150-ft. east ahead of GCL deployment.

Roller working the floor of A-3.

Excavator digging for reuse pipe north along east edge of retention basin to 45° corner by Lift Station A-1.

In the p.m., roller in A-3 to roll cell prior to the expected rain.

Comanco:

In A-3, alternating between deployment of GCL and liner.

Detailing liner in SW-2.

Welding rain flaps to last seam flap as a water stop for the expected rain this weekend.

Welding A-2 to A-3 tie-in.

Miscellaneous

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 111

CONTRACTOR'S REP.: Greg Hillman **DATE:** 1-12-02, Saturday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	8	Cat A25 Water Truck Case 1150G Dozer John Deere 410E Backhoe Kobelco SK200 Excavator 1 Volvo L120 Loader 1 Pickup Truck
Comanco	40	1 John Deere 544O Loader 1 John Deere 544H Loader 1 John Deere 410E Backhoe 3rd Loader (John Deere)

HOURS INSPECTOR ON JOB SITE: 7:15 a.m. – 3:00 p.m. (7 hrs. 45 min.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 113

CONTRACTOR'S REP.: Greg Hillman **DATE:** 1-14-02, Monday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Cldy. p.m. Cldy/Rain

TEMP. RANGE: 52° - 68°

RAINFALL: .8" at 4 p.m.

MAJOR DELIVERIES: CDN truckload on site in a.m.

****

WORK PERFORMED:

Handex:

Operating sand screening, extending stockpile west. Shutting down mid p.m. due to rain.

Pumping water out of SW-2.

Backfilling and compacting 10-in. reuse line across from A-3 to A-1.

Late a.m. also pumping water out of A-3.

Comanco:

Monday morning safety meeting.

At 8 a.m. starti lunloading CDN truck.

Miscellaneous

Issued fax copy of C.O. 1 forms to Handex.

Received 40 pages of paperwork for geosynthetics today.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 113

CONTRACTOR'S REP.: Greg Hillman **DATE:** 1-14-02, Monday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	7	Cat A25 Water Truck Case 1150G Dozer John Deere 410E Backhoe Kobelco SK200 Excavator 1 Volvo L120 Loader 1 Pickup Truck 3-in. and 4-in. Pumps
Comanco	4 ½ day	1 John Deere 544O Loader 1 John Deere 544H Loader 1 John Deere 410E Backhoe 3rd Loader (John Deere)

HOURS INSPECTOR ON JOB SITE: 7:20 a.m. – 4:05 p.m. (8 hrs. 45 min.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 114

CONTRACTOR'S REP.: Greg Hillman **DATE:** 1-15-02, Tuesday

****

VISITORS: Safety manager, Comanco
Carl Asprinio and Brian, Handex/Tampa

WEATHER: a.m. Cldy. p.m. Clear
TEMP. RANGE: 57° - 73°
RAINFALL: No more rain after 4 p.m. yesterday

MAJOR DELIVERIES: At 9:40 a.m., two CDN truckloads, 51 & 53 rolls

****

WORK PERFORMED:

Handex:

Operating sand screening after sand dries (10:30 a.m.), extending stockpile west.
410E backhoe extends south anchor trench approx.100-ft. east ahead of GCL deployment.
Roller is working floor of A-3.
Excavator digging for reuse pipe northeast from A-1 Lift Station.
Pumping water out of SW-2 to roll cell prior to the expected rain.
Repairing subgrade at edge of liner from water runoff prior to GCL deployment.
Moving reuse line east to get off retention basin slope (John Power says no problem, no future use in retention basin area).

Comanco:

Standing up rain flaps in SW-2 and A-3 and sweeping water off liner edge.
Alternating deployment of GCL and liner in A-3, followed by air-testing and detailing.
In SW-2, dewatering and deploying primary liner, followed by air-testing and detailing.

Miscellaneous

Marked destructs early and late in both cells.
Copied John Power on C.O. 1 paperwork.
Samples of CDN Lot 12 0200 353 and Lot 13 0200463 sent to lab.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 114

CONTRACTOR'S REP.: Greg Hillman **DATE:** 1-15-02, Tues day

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	9	Cat A25 Water Truck Case 1150G Dozer John Deere 410E Backhoe Kobelco SK200 Excavator 1 Volvo L120 Loader 1 Pickup Truck 3-in. and 4-in. Pumps Small Wacker Roller
Comanco	48	1 John Deere 544O Loader 1 John Deere 544H Loader 1 John Deere 410E Backhoe 3rd Loader (John Deere)

HOURS INSPECTOR ON JOB SITE: 7:15 a.m. – 5:35 p.m. (10 hrs. 20 min.)

John C McGlynn III

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 115

CONTRACTOR'S REP.: Greg Hillman **DATE:** 1-16-02, Wednesday

****

VISITORS: Mark Topp, Comanco
Safety Director, Comanco

WEATHER: a.m. Clear p.m. Clear
TEMP. RANGE: 38° - 75°
RAINFALL: 0"

MAJOR DELIVERIES:

****

WORK PERFORMED:

Handex:

Operating sand screening, extending stockpile west.

410E backhoe and excavator backfilling reuse line from A-1 to bend by job trailer.

Roller working floor of A-3 in the a.m. and again in the late p.m.

Pipe extending north of job trailer bend, using two 45°s to lower pipe back into basin.

Comanco:

Alternating deployment of GCL and liner in A-3, followed by air-testing and detailing.

In SW-2, deploying primary liner, followed by air-testing and detailing.

Dewatering in SW-2, water bypassing rainflap.

In the p.m., staging GCL in A-3.

Peninsula Surveying:

In SW-2, laying out diversion berm (horizontal locations only, per Greg's request), dotting every 50-ft. elev. east/west (does not appear to match drawing - high point 52.6 not 53).

Submitted two copies of as-builts for SW-2 and A-3 – one for Handex and one for CDM.

Miscellaneous:

Destructs from SW-2 went out (none were ready in A-3 at 3 p.m.)

Informed John Power that existing liner in Cell A-2, north beyond tie-in two locations, additional excavation for Handex tomorrow.

Clayton: A-3 seems larger than drawing footprint - may be 2 rolls CRC Bentomat short.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 115

CONTRACTOR'S REP.: Greg Hillman **DATE:** 1-16-02, Wednesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	9	Cat A25 Water Truck Case 1150G Dozer John Deere 410E Backhoe Kobelco SK200 Excavator 1 Volvo L120 Loader 1 Pickup Truck 3-in. and 4-in. Pumps Small Wacker Roller
Comanco	47	1 John Deere 544O Loader 1 John Deere 544H Loader 1 John Deere 410E Backhoe 3rd Loader (John Deere)
Peninsula Surveying	3	1 Van

HOURS INSPECTOR ON JOB SITE: 7:20 a.m. – 5:30 p.m. (10 hrs. 10 min.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 116

CONTRACTOR'S REP.: Greg Hillman **DATE:** 1-17-02, Thursday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Cldy. p.m. P/Cldy.

TEMP. RANGE: 54° - 68°

RAINFALL: 0"

MAJOR DELIVERIES: 2 truckloads of CDN - 51 and 52 rolls (Lot 14 sample #0200546)

****

WORK PERFORMED:

Handex:

Operating sand screening, extending stockpile west.

410E backhoe and excavator continuing reuse line north of job trailer bend.

In A-3, cutting anchor trench late a.m. and again in the p.m. (south berm additional 50-ft.)

Comanco:

Alternating deployment of GCL and liner in A-3, followed by air-testing and detailing.

Placing east electrode in SW-2 early a.m.

In SW-2, deploying primary liner after electrode placement, followed by welding, air-testing and detailing.

At 9 a.m. partial crew begins primary deployment again in SW-2 west. – Loader has enough room to deploy from A-2 top into A-3.

Miscellaneous:

Greg: May not need concrete on restrained joints. I tell him to do it as it is on the drwgs.

Greg to address reuse line/water line separation near job trailer bend.

Both Comanco and Handex will be working Sunday to protect GCL.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 116

CONTRACTOR'S REP.: Greg Hillman **DATE:** 1-17-02, Thursday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	9	Cat A25 Water Truck Case 1150G Dozer John Deere 410E Backhoe Kobelco SK200 Excavator 1 Volvo L120 Loader 1 Pickup Truck 3-in. and 4-in. Pumps 1 Wacker Roller
Comanco	53	1 John Deere 544O Loader 1 John Deere 544H Loader 1 John Deere 410E Backhoe 3rd Loader (John Deere)
Peninsula Surveying	3	1 Van

HOURS INSPECTOR ON JOB SITE: 7:25 a.m. – 5:30 p.m. (10 hrs.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 117

CONTRACTOR'S REP.: Greg Hillman **DATE:** 1-18-02, Friday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Cldy. p.m. P/Cldy.

TEMP. RANGE: 43° - 73°

RAINFALL: 0" (light fog in a.m.)

MAJOR DELIVERIES: 2 truckloads of CDN - (Lot 15 sample #0200638 and Lot 16 sample #0200660 sent to lab)

****

WORK PERFORMED:

Handex:

Operating sand screening, extending stockpile west.

Backhoe extending anchor trench on south berm to east end.

Excavator continues reuse line north. Stopped to backfill and compact mid a.m. While cutting more anchor trench, excavator broke belt – down until p.m. Cut anchor trench east side about 250-ft. north.

Comanco:

Staging 53 rolls of CDN south of SW-2 at 9 a.m.

Alternating deployment of GCL and liner in A-3.

In SW-2, crew is detailing primary liner.

Small crew installing primary CDN in SW-2 south side working east.

8 panels of liner were installed today - last wedge out of seam at 5:35 p.m. and last destruct marked at 5:45 p.m.

Miscellaneous:

In comparing survey stake locations to drawings for NE-corner of cells, it appears that surveyors took 50-ft. contour as top-of-berm into cells, missing the real liner corner.

Clayton says diversion berm flap is welded, not Gundsealed to liner.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 117

CONTRACTOR'S REP.: Greg Hillman **DATE:** 1-18-02, Friday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	10	Cat A25 Water Truck Case 1150G Dozer John Deere 410E Backhoe Kobelco SK200 Excavator 1 Volvo L120 Loader 1 Pickup Truck 3-in. and 4-in. Pumps 1 Wacker Roller
Comanco	53	1 John Deere 544O Loader 1 John Deere 544H Loader 1 John Deere 410E Backhoe 3rd Loader (John Deere)

HOURS INSPECTOR ON JOB SITE: 7:20 a.m. – 5:50 p.m. (10 hrs. 30 min.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 118

CONTRACTOR'S REP.: Greg Hillman **DATE:** 1-19-02, Saturday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Clear p.m. Clear

TEMP. RANGE: 48° - 74°

RAINFALL: 0" foggy a.m./windy p.m.

MAJOR DELIVERIES: _____

****

WORK PERFORMED:

Handex:

Operating sand screening, extending stockpile west (stopping screening at 2:30 p.m.)

Backhoe rounding south end of LDS trench in A-3, then working N.E. containment berm.

Backfilling and grading reuse line - at 11:20 all but 20-ft. of anchor/containment berm in place (gap for Comanco access).

Backhoe and laborer moving to A2-A3 tie-in. Located secondary liner edge 4-ft. north of cleanout pipe line. Tie-in completed at 2 p.m. and last anchor cut by 2:45.

Roller and dozer down. Handex crew departs at 3 p.m.

Comanco:

Alternating deployment of GCL and liner in A-3.

In SW-2, one gun detailing primary liner.

Crew of 9 installing primary CDN in SW-2 south side working east. At 9 a.m. crew moving to A-3 east berm deployment. Completed DCL at 2:30 p.m. (did not run out!!) and continued liner (Tommy on east berm, Tony's crew on floor).

Running roller in A-3 (using Handex operator for the last couple of days).

Four wedges running in the p.m. Three extruders. The A2-A3 tie-in, excavated by Handex, was welded by two extruders.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 118

CONTRACTOR'S REP.: Greg Hillman **DATE:** 1-19-02, Saturday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	7	Cat A25 Water Truck Case 1150G Dozer John Deere 410E Backhoe Kobelco SK200 Excavator 1 Volvo L120 Loader 1 Pickup Truck 3-in. and 4-in. Pumps 1 Wacker Roller
Comanco	53	1 John Deere 544O Loader 1 John Deere 544H Loader 1 John Deere 410E Backhoe 3rd Loader (John Deere)

HOURS INSPECTOR ON JOB SITE: 7:05 a.m. – 6:00 p.m. (10 hrs. 55 min.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 120

CONTRACTOR'S REP.: Greg Hillman **DATE:** 1-21-02, Monday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Cldy. p.m. P/Cldy.

TEMP. RANGE: 64° - 77°

RAINFALL: 0" (fog in the a.m.)

MAJOR DELIVERIES: _____

****

WORK PERFORMED:

Handex:

Operating sand screening, extending stockpile west after screen was moved about 100 ft. to the west (10:30 a.m.).

Staging pipe behind leachate storage tank area.

Finish grade reuse pipeline area.

Broken down dozer replaced.

Comanco:

Majority of crew continuing primary CDN in SW-2 and starting secondary CDN in A-3.

Cutting open liners for rain diversion berm in SW-2 west and Handex moving dirt out. I inform Greg it is too deep (cannot be lower than ditch invert) and crew backfills some.

Continued detailing A-3 and A2-A3 tie-in secondary liner.

Staging CDN on both sides of both cells.

Miscellaneous:

Jack, Greg, and Clayton agree on SW-2 east runoff modification: No extra flap or rip-rap, and a little less sand.

Universal on site for Proctor and sand samples upper layer (S.E., N.E., N.W., W.N.W.)

I verify with Pablo that there is no additional cost for east/west 3-ft. strips.

Clayton asks how long the CDN will be exposed (warranty issue).

I received approximately 20 pages of paperwork today.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 120

CONTRACTOR'S REP.: Greg Hillman **DATE:** 1-21-02, Monday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	8	Cat A25 Water Truck Case 1150G Dozer John Deere 410E Backhoe Kobelco SK200 Excavator 1 Volvo L120 Loader 1 Pickup Truck 3-in. and 4-in. Pumps 1 Wacker Roller (leaving the site today)
Comanco	54	1 John Deere 544O Loader 1 John Deere 544H Loader 1 John Deere 410E Backhoe

HOURS INSPECTOR ON JOB SITE: 7:10 a.m. – 5:05 p.m. (9 hrs. 55 min.)

John C. Mulligan III
Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 121

CONTRACTOR'S REP.: Greg Hillman **DATE:** 1-22-02, Tuesday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Cldy. p.m. Cldy.

TEMP. RANGE: 66° - 78°

RAINFALL: 0" (fog in the a.m.)

MAJOR DELIVERIES: _____

_____

****

WORK PERFORMED:

Handex:

Operating sand screening, extending stockpile west. At 10 a.m. screen down – expected to be down until Thursday (bad belt).

Backhoe still grading reuse pipe areas.

Excavator and pipe crew to install blow-off end of reuse line.

Excavator clearing brush east of fence for 10-inch reuse line.

Exposed gas pipe and water pipe near reuse tie-in, close quarters and approximately same elevation – Handex to order more fittings to do hookup.

Day laborers left at 2:30 p.m., and rest of crew shut down at 3:30 p.m.

Comanco:

Continues detailing A-3 and A2-A3 tie-in secondary liner.

Majority of crew and day laborers deploying CDN in both A-3 and SW-2. (Bob tracks down missing AT). Tommy to use rub sheet on north berm CDN deployment starting tomorrow.

Miscellaneous:

Greg asks about pipe coatings and concrete reinforcement of piping.

I talk to John Power about UV on upper slope CDN, cover, etc.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 121

CONTRACTOR'S REP.: Greg Hillman **DATE:** 1-22-02, Tuesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	9	Cat A25 Water Truck (off site today) Case 1150G Dozer John Deere 410E Backhoe Kobelco SK200 Excavator 1 Volvo L120 Loader 1 Pickup Truck 3-in. Pump
Comanco (9 day laborers)	64	1 John Deere 544O Loader 1 John Deere 544H Loader 1 John Deere 410E Backhoe

HOURS INSPECTOR ON JOB SITE: 7:05 a.m. – 5:20 p.m. (10 hrs. 15 min.)

John C Mc[illegible] III

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 122

CONTRACTOR'S REP.: Greg Hillman **DATE:** 1-23-02, Wednesday

****

VISITORS: _____

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WEATHER: a.m. P/Cldy. p.m. Clear

TEMP. RANGE: 68° - 83°

RAINFALL: 0"

MAJOR DELIVERIES: At 4 p.m. truckload of CDN arrives (Lot #17, sample 1554) – unloaded just after 5 p.m.

****

WORK PERFORMED:

Handex:

Grading and rolling reuse line backfill.

Mid a.m., placed saddle and valve on 6-inch existing reuse line (Greg informed me after saddle was in place)

Sandscreen still down.

Crew departs at noon – Greg is on site in the p.m.

Comanco:

Continues deploying CDN in both A-3 and SW-2.

Liner installation on A3 west berm begins at approximately 7:30 a.m.

On SW-2 north slope deploying CDN using a rub pad.

CDN A-3, filling in the middle gap between north and south deployment.

Removing sand bags under P118 in SW-2.

Air-testing in A-3. S99 and S101 corrected and repatched.

Miscellaneous:

Referring to Greg's questions yesterday, I tell him to review submittals for pipe fitting coatings and concrete reinforcement.

John Power asks Greg about the status of pricing on additional work by Handex.

I received 15 pages of paper work on geosynthetic liner.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 122

CONTRACTOR'S REP.: Greg Hillman **DATE:** 1-23-02, Wednesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	7	Cat A25 Water Truck Case 1150G Dozer John Deere 310E Backhoe Kobelco SK200 Excavator 1 Volvo L120 Loader 1 Cat Roller 1 Wacker Roller 1 Pickup Truck 3-in. Pump
Comanco (7 day laborers)	61	1 John Deere 544O Loader 1 John Deere 544H Loader 1 John Deere 410E Backhoe

HOURS INSPECTOR ON JOB SITE: 7:15 a.m. – 5:20 p.m. (10 hrs.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 123

CONTRACTOR'S REP.: Greg Hillman **DATE:** 1-24-02, Thursday

****

VISITORS: _____

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_____

WEATHER: a.m. Clear p.m. P/Cldy.

TEMP. RANGE: 68° - 83°

RAINFALL: 0" (windy in the p.m.)

MAJOR DELIVERIES: At 7:35 a.m. truckload of CDN arrives, Lot #24, roll 1297 1554. (US Laminating?). At 8:10 a.m. 2nd truckload on site.

Comanco receives 20 boxes of thread.

****

WORK PERFORMED:

Handex:

Crew working on reuse pipeline from south elbow to saddle – still waiting for 45° bend to run 6-inch line under other pipes and then Bell to 10-inch (?)

Parts arrive for sandscreen, and it it operational again at 11:15 a.m.

Dozer still grading reuse line area – fittings for reuse line arrive at 12:40 p.m.

Comanco:

Start unloading the 2 truckloads of CDN at 9:05 a.m.

Continues deploying CDN in both A-3 and SW-2.

A-3 west floor liner deployment continues – working west.

Air testing and detailing A-3 primary liner.

Electrodes arrive on site for A-3, to be placed in the same position as SW-2.

Liner deployment stops by noon due to wind. Crew moves to CDN.

Starting diversion berm at SW-2 west end.

At 4 p.m. day laborers depart.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 123

CONTRACTOR'S REP.: Greg Hillman **DATE:** 1-24-02, Thursday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	7	Cat A25 Water Truck Case 1150G Dozer John Deere 310E Backhoe Kobelco SK200 Excavator 1 Volvo L120 Loader 1 Cat Roller 1 Wacker Roller 1 Pickup Truck 3-in. Pump
Comanco (8 day laborers)	61	1 John Deere 544O Loader 1 John Deere 544H Loader 1 John Deere 410E Backhoe

HOURS INSPECTOR ON JOB SITE: 7:25 a.m. – 5:20 p.m. (9 hrs. 55 min.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 124

CONTRACTOR'S REP.: Greg Hillman **DATE:** 1-25-02, Friday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Cldy. p.m. Cldy.

TEMP. RANGE: 65° - 80°

RAINFALL: 0" (foggy in the a.m.)

MAJOR DELIVERIES: In the a.m., 1 truckload of CDN on site, Lot #18, sample 1574, 53 rolls

****

WORK PERFORMED:

Handex:

Crew working on reuse pipeline from saddle east to south elbow.

Sandscreening operating today, extending stockpile to the west.

At 8 a.m. excavator crosses back inside fence line. Fence to be repaired south of Leachate Plant.

Comanco:

Continues deploying CDN in both A-3 and SW-2.

A-3 west primary floor liner deployment restarts this morning.

At 8 a.m. 1 loader is being replaced.

SW-2 rainflap installation continues on north slope working east to P48/P49.

Peninsula Surveying:

Surveyors on site to locate east and west end of A-3 diversion berm, A-3 and SW-2 cell divide rain flaps, topo for quantity sand pile (screened), as-built reuse line, and monitor wells for installation.

Miscellaneous:

Received 2 pages of liner paperwork.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 124

CONTRACTOR'S REP.: Greg Hillman **DATE:** 1-25-02, Friday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	7	Cat A25 Water Truck Case 1150G Dozer John Deere 310E Backhoe Kobelco SK200 Excavator 1 Volvo L120 Loader 1 Cat Roller 1 Wacker Roller 1 Pickup Truck 3-in. Pump
Comanco (No day laborers)	54	1 John Deere 544O Loader 1 John Deere 544H Loader 1 John Deere 410E Backhoe
Peninsula Surveying (leave at 3:45 p.m.)	3	1 Van

HOURS INSPECTOR ON JOB SITE: 7:20 a.m. – 4:45 p.m. (9 hrs. 25 min.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 125

CONTRACTOR'S REP.: Greg Hillman **DATE:** 1-26-02, Saturday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Cldy. p.m. _____

TEMP. RANGE: 67°

RAINFALL: Light drizzle in the a.m.

MAJOR DELIVERIES: _____

****

WORK PERFORMED:

Handex:

Operating sand screening, extending stockpile to the west.

Comanco:

Deploying CDN in both A-3.

A-3 south lanchor trench gets some ballast.

3 techs on A2-A3 tie-in (primary). Removing clay and debris from between layers before welding. At 11:15 a.m. wedge weld of tie-in complete. No more welding today, only composite, Leister patches over holes (according to Tommy).

Crew expected to leave at p.m. (no lunch).

Miscellaneous

I received 29 pages of geosynthetic paperwork today.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 125

CONTRACTOR'S REP.: Greg Hillman **DATE:** 1-26-02, Saturday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	3	Cat A25 Water Truck Case 1150G Dozer John Deere 310E Backhoe Kobelco SK200 Excavator 1 Volvo L120 Loader 1 Cat Roller 1 Wacker Roller 1 Pickup Truck 3-in. Pump
Comanco	25	1 John Deere 544O Loader 1 John Deere 544H Loader 1 John Deere 410E Backhoe

HOURS INSPECTOR ON JOB SITE: 7:15 a.m. – 11:55 a.m. (4 hrs. 40 min.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 127

CONTRACTOR'S REP.: Greg Hillman **DATE:** 1-28-02, Monday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Gray p.m. P/Cldy.

TEMP. RANGE: 67° - 83°

RAINFALL: 0" (foggy in the a.m.)

MAJOR DELIVERIES: In the a.m., 3 truckloads of CDN on site (50, 50 and 51 rolls), Sample Lot #19, Roll #1647 and Lot #25, Roll #1348.
At 11:20 a.m. Liner truck arrives, 6 Rolls, 104111313 Conformance.
Delivery of tar paint for reuse pipe.

****

WORK PERFORMED:

Handex:

Operating sand screening, extending stockpile to the west.
Placing magnetic tape and backfilling along reuse line in the leachate tank area.
Purging reuse line and tighten fittings.
Backfilling starts at SW-2 anchor, west side. Electrode disappears.

Comanco:

Conducting weekly safety meeting.
Unloading CDN at SW-2 and south of A-3.
CDN and primary liner deployment continues in A-3.
Rainflap installation continues east in SW-2.
3-man crew cleaning debris and dirt off A2-A3 tie-in ahead of deployment of primary liner.
Comanco loader pops a hole in pavement by leachate plant.

Miscellaneous:

I mention to Greg that rainflap is paid for by linear foot not square foot like it is on the Contractor's daily reports.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 127

CONTRACTOR'S REP.: Greg Hillman **DATE:** 1-28-02, Monday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	6	Cat A25 Water Truck Case 1150G Dozer John Deere 310E Backhoe Kobelco SK200 Excavator 1 Volvo L120 Loader 1 Cat Roller 1 Wacker Roller 1 Pickup Truck 3-in. Pump
Comanco	43	1 John Deere 544O Loader 1 John Deere 544H Loader 1 John Deere 410E Backhoe

HOURS INSPECTOR ON JOB SITE: 7:15 a.m. – 5:25 p.m. (10 hrs. 10 min.)

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 128

CONTRACTOR'S REP.: Greg Hillman **DATE:** 1-29-02, Tuesday

****

VISITORS: T.R. & Mr. Johnson/Comanco

WEATHER: a.m. P/Cldy. p.m. P/Cldy.

TEMP. RANGE: 66° - 81°

RAINFALL: 0" (foggy in the a.m.)

MAJOR DELIVERIES: 1 truckload of CDN.

****

WORK PERFORMED:

Handex:

Continue operating sand screening. Started west stockpile yesterday in the p.m.

Using air compressor to clean off reuse fittings and applying 2-part coating.

Street sweeper cleaning off road on jobsite.

Surveyor says screened sand is under 30,000 cubic yards. Greg says sand placement may start soon. Clayton will have flaps in by Saturday.

Comanco:

CDN deployment continues in A-3 and also in SW-2 today.

Primary liner continues in A-3.

Rainflap installation continues east in SW-2.

Cutting open primary liner for electrode placement at west end near north swale.

At lunchtime and 5 p.m., destructs were marked up to unweld seams.

Last wedge out of seam at 5:30 p.m.

Miscellaneous:

Universal on site taking sand sample in new pile.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 128

CONTRACTOR'S REP.: Greg Hillman **DATE:** 1-29-02, Tuesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	6	Cat A25 Water Truck Case 1150G Dozer John Deere 310E Backhoe Kobelco SK200 Excavator 1 Volvo L120 Loader 1 Cat Roller 1 Wacker Roller (departing today) 1 Pickup Truck 3-in. Pump
Comanco	49	1 John Deere 544O Loader 1 John Deere 544H Loader 1 John Deere 410E Backhoe

HOURS INSPECTOR ON JOB SITE: 7:15 a.m. – 5:35 p.m. (10 hrs. 20 min.)

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 129

CONTRACTOR'S REP.: Greg Hillman **DATE:** 1-30-02, Wednesday

****

VISITORS: _____

_____

_____

WEATHER: a.m. P/Cldy. p.m. _____

TEMP. RANGE: 63° - 81°

RAINFALL: 0" (foggy in the a.m.)

MAJOR DELIVERIES: 2 truckloads of CDN (arriving at 7:30 and 8:30 a.m.) – sampled Lot #20 Roll #1752 and Lot #21, Roll #1801).
6 Fiberglass Manholes delivered along with boxes and sluices.

****

WORK PERFORMED:

Handex:

Sand screen down due to bad bearing. Crew cleaning around screen in preparation for mechanic. – Late p.m., mechanic working on screen.
Pipe crew calculating concrete quantities.
SW-2 west electrode wire located (shorter than before) – appears intact.
Dozer backfilling SW-2 south anchor trench.

Comanco:

Unloading CDN trucks.
Deploying primary liner in A-3 after sewing CDN seam a second time.
Primary CDN and diversion rain flap continue in SW-2. At 3 p.m. CDN crew moves to A-3, and rain flap crew is working into east stormwater control interceptor area.
Technician starts fabric repairs at west end of SW-2 in preparation for sand placement.
Interim berm flap locations marked on SW-2 primary CDN.
Capping bad seam from Demo Dave Wedge Welder.
Secondary CDN deployment in east LDS A-3 – EL 47 located at south berm west and interim cell berm.

Miscellaneous:

Universal on site taking sand samples: "O" from new pile north, "P" from old pile west, "Q" from north top side, and "R" from new pile south.

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Received 7 pages of geosynthetic paperwork.

DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 129

CONTRACTOR'S REP.: Greg Hillman **DATE:** 1-30-02, Wednesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX Part of crew leaves at 3:30 p.m.	6	Cat A25 Water Truck Case 1150G Dozer John Deere 310E Backhoe Kobelco SK200 Excavator 1 Volvo L120 Loader 1 Cat Roller 1 Pickup Truck 3-in. Pump
Comanco	49	1 John Deere 544O Loader 1 John Deere 544H Loader 1 John Deere 410E Backhoe

HOURS INSPECTOR ON JOB SITE: 7:05 a.m. – 5:25 p.m. (10 hrs. 20 min.)

John C. Haley III

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 130

CONTRACTOR'S REP.: Greg Hillman **DATE:** 1-31-02, Thursday

****

VISITORS: _____

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_____

WEATHER: a.m. P/Cldy. p.m. P/Cldy.
TEMP. RANGE: 63° - 83°
RAINFALL: .4" (foggy in the a.m.)

MAJOR DELIVERIES: In the a.m., 1 truckload of CDN
In the p.m., South End Development equipment arriving on site.

****

WORK PERFORMED:

Handex:

Moving 3" pump to A-3 to join Comanco's 3" pump draining last night's rain from cell.
Additional 3" rental pump to A-3 at 10 a.m. Moving one pump to SW-2 at 11:30 a.m.
Dozer shaping swale for pumped water.
Operating sand screening again at 8 a.m., adding to new west pile.
Some shaping of soil in preparation for kicker concrete pour tomorrow.

Comanco:

Unloaded CDN truck at SW-1 (finished by 11 a.m.).
Starting primary CDN in A-3. Liner deployment cannot begin until water is pumped out of east end of A-3.
In SW-2, crew filling middle gap in primary CDN.
Preparing to start west interim stormwater flap; dewatering swale for flap placement.
Crew begins deployment of CDN on north slope to SW-1 tie-in.
Late am.m, start preparing for east interim flap in SW-2.
Welding and detailing A2-A3 tie-in.
At 11:30 a.m., starting to stage up for primary liner. Five panels deployed (destructs will be sent out tomorrow.
UV exposure begins on CDN north slope in SW-2.

Miscellaneous:

Universal on site taking densities of reuse line backfill.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 130

CONTRACTOR'S REP.: Greg Hillman **DATE:** 1-31-02, Thursday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	5	Cat A25 Water Truck Case 1150G Dozer John Deere 310E Backhoe Kobelco SK200 Excavator 1 Volvo L120 Loader 1 Cat Roller (departing at 11:25 a.m.) 1 Pickup Truck 3-in. Pump + 2nd Rental Pump
COMANCO	49	1 John Deere 544O Loader 1 John Deere 544H Loader 1 John Deere 410E Backhoe

HOURS INSPECTOR ON JOB SITE: 7:15 a.m. – 5:25 p.m. (10 hrs. 10 min.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 131

CONTRACTOR'S REP.: Greg Hillman **DATE:** 2-01-02, Friday

****

VISITORS: _____

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WEATHER: a.m. P/Cldy. p.m. P/Cldy.
TEMP. RANGE: 58° - 83°
RAINFALL: .0" (foggy in the a.m.)

MAJOR DELIVERIES: _____

****

WORK PERFORMED:

Handex:

Continue operating sand screening, adding to new west stockpile.

Pipe crew digging holes to place pipe as markers for surveyor.

Kobelco excavator moving sand from conveyor to allow dozer to go to SW-2 sand placement.

In the p.m., pouring concrete kickers on reuse line (1 test cylinder taken).

Comanco:

Continue primary CDN in A-3 and in SW-2. Completing secondary CDN east end A-3.

Continue shaping interim berm west SW-2; started east interim rain flap at 10:30 a.m. and completed interim flaps today in the p.m. in SW-2.

In A3, detailing east end of primary liner including tie-in, and starting primary liner deployment at 1:00 p.m.

Tracking destruct APD33 – five partial peels.

Dewatering LDS with small pump.

South End Development:

Receiving equipment and setting up at west end of SW-2. – Starting sand placement at 9 a.m. and departing at 3:30 p.m.

Miscellaneous:

Received 4 pages of geosynthetic paperwork.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 131

CONTRACTOR'S REP.: Greg Hillman **DATE:** 2-1-02, Friday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	5	Volvo Water Truck (arriving late p.m.) Case 1150G Dozer John Deere 310E Backhoe Kobelco SK200 Excavator 1 Volvo L120 Loader 1 Pickup Truck 3-in. Pump + 2nd Rental Pump
COMANCO	49	1 John Deere 544O Loader 1 John Deere 544H Loader 1 John Deere 410E Backhoe Nikkon departing at 7:50 a.m.
SOUTH END DEVELOPMENT	4	1 Volvo EC 36 Excavator 1 Volvo L90C Loader (arriving at noon) 1 Case Dozer 850 H (arriving late p.m.) 1 Terex TA25 Off-Road Dump Truck 1 Volvo 40 Off-Road Dump Truck

HOURS INSPECTOR ON JOB SITE: 7:20 a.m. – 5:20 p.m. (10 hrs.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 132

CONTRACTOR'S REP.: Greg Hillman **DATE:** 2-02-02, Saturday

****

VISITORS: _____

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WEATHER: a.m. Cldy. p.m. Rain

TEMP. RANGE: 67°

RAINFALL: 0" (rain starts 10:45 a.m.)

MAJOR DELIVERIES: _____

****

WORK PERFORMED:

Handex:

Continue sand screening operation, adding to west stockpile.

Completing south raw sand pile today and planning on moving sand screen to north raw sand pile on Monday.

Comanco:

3 crews are deploying primary CDN in A-3: 1st crew working west berm south to north, 2nd crew continues working east along south berm, and 3rd crew working south berm east of interim flap east.

Continue detailing A-3 east end. Welding stops due to rain.

CDN being bagged and tied, and sewing machines being put up in trailer.

South End Development:

No activity today.

Miscellaneous:

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 132

CONTRACTOR'S REP.: Greg Hillman **DATE:** 2-2-02, Saturday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	3	Volvo Water Truck Case 1150G Dozer John Deere 310E Backhoe Kobelco SK200 Excavator 1 Volvo L120 Loader 1 Pickup Truck 3-in. Pump
COMANCO	29	1 John Deere 544O Loader 1 John Deere 544H Loader 1 John Deere 410E Backhoe
SOUTH END DEVELOPMENT (No activity – all equipment idle)	0	1 Volvo EC 36 Excavator 1 Volvo L90C Loader 1 Case Dozer 850 H 1 Terex TA25 Off-Road Dump Truck 1 Volvo 40 Off-Road Dump Truck

HOURS INSPECTOR ON JOB SITE: 7:10 a.m. – 11:40 a.m. (4 hrs. 30 min.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 134

CONTRACTOR'S REP.: Greg Hillman **DATE:** 2-04-02, Monday

****

VISITORS: _____

_____

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WEATHER: a.m. P/Cldy. p.m. P/Cldy.

TEMP. RANGE: 52° - 73°

RAINFALL: Traces from Sat. – Windy

MAJOR DELIVERIES: Rebar and welded wire fabric for pipe penetrations.
1 truckload of CDN – Lot #26, Roll #0201450 sampled.
At 9 a.m., Fraser Mining Truck drop off HDPE pipe and fittings (crew to follow).

****

WORK PERFORMED:

Handex:

Preparing to move sand screen to north raw sand stockpile.
Backfilling reuse pipe kickers.
Water truck on haul road at about 9:15 a.m.

Comanco:

Working two sewing machines in A-3.
One crew deploying CDN on south berm between the two areas deployed Saturday.
Gun-detailing east end of A3.
In SW-2, crew deploying gaps in CDN east end, corner and middle. .
Deployment stops at 12:30 p.m.
CDN conformance transmissivity problems in Lot #16 and 17. (Spray painted orange "X" on rolls in question.)

South End Development:

Two haul trucks bringing sand to west ramp of SW-2.

Miscellaneous:

Received 4 pages of geosynthetic paperwork.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 134

CONTRACTOR'S REP.: Greg Hillman **DATE:** 2-4-02, Monday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	6	Volvo Water Truck Case 1150G Dozer John Deere 310E Backhoe Kobelco SK200 Excavator 1 Volvo L120 Loader 1 Pickup Truck 3-in. Pump
COMANCO	27	1 John Deere 544O Loader 1 John Deere 544H Loader 1 John Deere 410E Backhoe
SOUTH END DEVELOPMENT	5	1 Volvo EC 36 Excavator 1 Volvo L90C Loader 1 Case Dozer 850 H 1 Terex TA25 Off-Road Dump Truck 1 Volvo 40 Off-Road Dump Truck

HOURS INSPECTOR ON JOB SITE: 7:15 a.m. – 3:10 p.m., then Office till 5:30 p.m.

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 135

CONTRACTOR'S REP.: Greg Hillman **DATE:** 2-05-02, Tuesday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Clear p.m. Clear

TEMP. RANGE: 39° - 63°

RAINFALL: 0"

MAJOR DELIVERIES: 2 trucks with concrete manholes in the a.m. and a third in the p.m. Geotextile for Handex pipe and stone wrap arrives.

****

WORK PERFORMED:

Handex:

Sand screen was operational yesterday at 3:30 p.m. and ran for 2 hours. Was moved today and being repaired. Operational again at 4:00 p.m. at new location just south of SW-2.

Pipe crew on site fusion welding pipe on the ground from A-3 to A-1 8-in. solid HDPE.

Water truck operational at 3:00 p.m.

Comanco:

Cleaning up site, moving trailer away from manhole area, and folding back SW-2 rain diversion flap.

Tracking APD33 A+B (too late for Fedex).

Welding cap over failed seam until approx. 4:15 p.m.

South End Development:

Start placing sand in SW-2 at 8:45 a.m. Greg shuts them down due to failed CDN Lot #18 at 9 a.m. Restart in new direction – shut down at 3:30 p.m.

Fraser Mining:

On site approx. 7:50 a.m. with wrong bootless pipe penetrations.

Peninsula Surveying:

On site locating rain flap, liner perimeter, manholes, and offsets with inverts.

Miscellaneous:

_____

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 135

CONTRACTOR'S REP.: Greg Hillman **DATE:** 2-502, Tuesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	6	Volvo Water Truck Case 1150G Dozer John Deere 310E Backhoe Kobelco SK200 Excavator 1 Volvo L120 Loader 1 Pickup Truck 3-in. Pump
COMANCO	27	1 John Deere 544O Loader 1 John Deere 544H Loader 1 John Deere 410E Backhoe
SOUTH END DEVELOPMENT	5	1 Volvo EC 36 Excavator 1 Volvo L90C Loader 1 Case Dozer 850 H 1 Terex TA25 Off-Road Dump Truck 1 Volvo 40 Off-Road Dump Truck
PENINSULA SURVEYING	3	1 Van
FRASER MINING	2	Truck and Fusion Welding Equipment

HOURS INSPECTOR ON JOB SITE: 7:15 a.m. – 4:45 p.m. (9 hrs. 30 min.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 136

CONTRACTOR'S REP.: Greg Hillman **DATE:** 2-06-02, Wednesday

****

VISITORS: _____

WEATHER: a.m. Clear p.m. Clear

TEMP. RANGE: 39° - 63°

RAINFALL: 0"

MAJOR DELIVERIES: 3 Truckloads of 57 Stone for A-3 Manholes

****

WORK PERFORMED:

Handex:

Operating sand screening at SW-2 south edge.

Water truck on haul route.

Excavating for manhole in A-3, followed by fiberglass manhole leachate collection A-3. (I ask Contractor about Saureisen coating shown on drawing; he says that goes on the inside after installation.)

Some 57 stone is placed around base of fiberglass manhole to anchor it. (Greg says no concrete goes around base according to drawings.)

Comanco:

Reviewing CDN documentation of arrival, placement, and location of rolls in question.

A large section of SW-2 is cleared for sand placement.

Repairing geotextile at west end of rain flap (Tommy).

Moving all CDN to A-3 area.

South End Development:

Placing sand in SW-2 west third and in the p.m. on 2nd ramp south side.

Fraser Mining:

Fabricating 8-in. perforated pipe in SW-2; multiple pieces over 300 ft. – to be moved later when needed.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 136

CONTRACTOR'S REP.: Greg Hillman **DATE:** 2-6-02, Wednesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	10	Volvo Water Truck Case 1150G Dozer Case 580L Backhoe (replacing J. Deere) Kobelco SK200 Excavator 1 Volvo L120 Loader 1 Pickup Truck 3-in. Pump
COMANCO	3	1 John Deere 544O Loader 1 John Deere 544H Loader 1 John Deere 410E Backhoe
SOUTH END DEVELOPMENT	5	1 Volvo EC 36 Excavator 1 Volvo L90C Loader 1 Case Dozer 850 H 1 Terex TA25 Off-Road Dump Truck 1 Volvo 35 Off-Road Dump Truck
FRASER MINING	2	Truck and Fusion Welding Equipment

HOURS INSPECTOR ON JOB SITE: 7:15 a.m. – 5:30 p.m. (10 hrs. 15 min.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 137

CONTRACTOR'S REP.: Greg Hillman **DATE:** 2-07-02, Thursday

****

VISITORS: Monthly Progress Meeting Attendees

WEATHER: a.m. Cldy. p.m. Rain
TEMP. RANGE: 70°- 60°
RAINFALL: Drizzle a.m./ .6" at 4 p.m.

MAJOR DELIVERIES:

****

WORK PERFORMED:

Handex:

Operating sand screening at SW-2 south edge – still operating at 4 p.m.

Water truck on haul route until rain starts.

Excavating for fiberglass manhole leachate collection A-3. Manhole placed, but rain prevents piping installation.

Force main exposed and anchored to backhoe.

Pump operating in A-3.

Comanco:

Doing remaining detailing in A-3 and training personnel on welding.

Crew doing cleanup until rain shuts them down.

South End Development:

Placing sand in SW-2 west third, moving south and east, using both ramps (still working at 4:00 p.m.)

Fraser Mining:

No work observed – but on site part of the day.

Peninsula Surveying:

On site at 8:45 a.m. – rained out.

Miscellaneous:

Monthly progress meeting held on site.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 137

CONTRACTOR'S REP.: Greg Hillman **DATE:** 2-7-02, Thursday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	11	Volvo Water Truck Case 1150G Dozer Case 580L Backhoe Kobelco SK200 Excavator 1 Volvo L120 Loader 1 Pickup Truck 3-in. Pump
COMANCO	18	1 John Deere 544O Loader 1 John Deere 544H Loader 1 John Deere 410E Backhoe
SOUTH END DEVELOPMENT	5	1 Volvo EC 36 Excavator 1 Volvo L90C Loader 1 Case Dozer 850 H 1 Terex TA25 Off-Road Dump Truck 1 Volvo 35 Off-Road Dump Truck
FRASER MINING	0	Truck and Fusion Welding Equipment
PENINSULA SURVEYING (½ hour)	3	1 Van

HOURS INSPECTOR ON JOB SITE: 7:20 a.m. – 4:05 p.m. (10 hrs. 15 min.)

John C. Haley III

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 138

CONTRACTOR'S REP.: Greg Hillman **DATE:** 2-08-02, Friday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Clear p.m. Clear

TEMP. RANGE: 37°- 63°

RAINFALL: No rain since .6" yesterday

MAJOR DELIVERIES: Concrete for A-3 Metering Manhole Pads and Reclaim Blow-Off Pad.

****

WORK PERFORMED:

Handex:

Operating sand screening at SW-2 south edge until breakdown at 9:30 a.m.

At approx. 7:30 a.m. Jack provides copy of specification section describing concrete pad for metering manholes; after some discussion fiberglass manholes are removed – pads will be poured. Greg gives copy of specification section to pipe foreman.

Pump operating in SW-2.

Greg and Jack agree to use fiber-crete with rebar at reclaim discharge pad.

Comanco:

Tracking failed DT 33A in ash cell as well as cap detailing.

Most of the crew doing weld training.

Cap strip cut for electrode placement in A-3 east, Panel P95, 100 feet north to southeast corner (approx. 3 o'clock).

South End Development:

Placing sand in SW-2 west third, moving east. Shut down at 3:15 p.m.

Fraser Mining:

Fabricating 8" perforated pipe in SW-2; multiple pieces over 300 feet, to be moved later when needed.

Miscellaneous:

_____

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 138

CONTRACTOR'S REP.: Greg Hillman **DATE:** 2-8-02, Friday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	10	Volvo Water Truck Case 1150G Dozer Case 580L Backhoe Kobelco SK200 Excavator (replacement arrives at 3:45 p.m.) 1 Volvo L120 Loader 1 Pickup Truck 3-in. Pump
COMANCO	19	1 John Deere 544O Loader 1 John Deere 544H Loader 1 John Deere 410E Backhoe
SOUTH END DEVELOPMENT	5	1 Volvo EC 36 Excavator 1 Volvo L90C Loader 1 Case Dozer 850 H 1 Terex TA25 Off-Road Dump Truck 1 Volvo 35 Off-Road Dump Truck
FRASER MINING	2	Truck and Fusion Welding Equipment

HOURS INSPECTOR ON JOB SITE: 7:15 a.m. – 3:45 p.m. (8 hrs. 30 min.)

John C. Hatch III

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 139

CONTRACTOR'S REP.: Greg Hillman **DATE:** 2-09-02, Saturday

****

VISITORS: Lou Sicona

WEATHER: a.m. P/Cldy. p.m. _____
TEMP. RANGE: 68°- 74°
RAINFALL: 0"

MAJOR DELIVERIES:

****

WORK PERFORMED:

Handex:

Operating sand screening at SW-2 south edge.

Comanco:

2 QCs on site tracking, doing as-builts, and documenting CDN lots and rolls in question, locating them, pending test results.

South End Development:

No work.

Fraser Mining:

Fabricating 8" perforated pipe for A-3 west of the cell along chain link fence.

Miscellaneous:

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 139

CONTRACTOR'S REP.: Greg Hillman **DATE:** 2-9-02, Saturday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	3	Volvo Water Truck Case 1150G Dozer Case 580L Backhoe Kobelco SK200 Excavator 1 Volvo L120 Loader 1 Pickup Truck 3-in. Pump
COMANCO	2	1 John Deere 544O Loader 1 John Deere 544H Loader 1 John Deere 410E Backhoe
SOUTH END DEVELOPMENT	0	1 Volvo EC 36 Excavator 1 Volvo L90C Loader 1 Case Dozer 850 H 1 Terex TA25 Off-Road Dump Truck 1 Volvo 35 Off-Road Dump Truck
FRASER MINING	2	Truck and Fusion Welding Equipment

HOURS INSPECTOR ON JOB SITE: 9:00 a.m. – 11:30 a.m. (2 hrs. 30 min.)

John C. McHugh III

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 141

CONTRACTOR'S REP.: Greg Hillman **DATE:** 2-11-02, Monday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Cldy. p.m. P/Cldy.
TEMP. RANGE: 53°- 73°
RAINFALL: .1" over weekend

MAJOR DELIVERIES: _____

****

WORK PERFORMED:

Handex:

Operating sand screening south of SW-2. (Talked to Greg about the clean sand pushed out of cell and ramp areas, and he said it will be run through the screen again.)

Pumped water out of SW-2 and moved pump to A-3 at 9 a.m.

Dozer pushing sand back into Stockpile 1 after excavator loads out area

Work on metering manhole in A-3 begins again at 8:30 a.m.

Installing more tubes in SW-2.

Comanco:

Locating roll numbers before and after conformance rolls.

South End Development:

Placing sand in SW-2 west third moving east. 3rd ramp south side in use.

Fraser Mining:

Fabricating solid pipe for road crossings.

Fabricated perforated pipe for A-3 over the weekend.

Peninsula Surveying:

Stakes and offsets for manholes.

Start as-builts for reclaim line.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 141

CONTRACTOR'S REP.: Greg Hillman **DATE:** 2-11-02, Monday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	11	Volvo Water Truck Case 1150G Dozer Case 580L Backhoe Kobelco SK200 Excavator 1 Volvo L120 Loader 1 Pickup Truck 1 Bobcat 3-in. Pump
COMANCO	3	1 John Deere 544O Loader 1 John Deere 544H Loader 1 John Deere 410E Backhoe
SOUTH END DEVELOPMENT	4	1 Volvo EC 36 Excavator 1 Volvo L90C Loader 1 Case Dozer 850 H 1 Terex TA25 Off-Road Dump Truck 1 Volvo 35 Off-Road Dump Truck
PENINSULA SURVEYING	3	1 Van
FRASER MINING	2	Truck and Fusion Welding Equipment

HOURS INSPECTOR ON JOB SITE: 7:00 a.m. – 4:30. (9 hrs. 30 min.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 142

CONTRACTOR'S REP.: Greg Hillman **DATE:** 2-12-02, Tuesday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Hazy p.m. Overcast
TEMP. RANGE: 46°- 70°
RAINFALL: 0"

MAJOR DELIVERIES: _____

****

WORK PERFORMED:

Handex:

Mechanic from Powerscreen repairing broken down screen - working again at 3 p.m.
Dozer pushing sand back into Stockpile 1 after excavator loads out area.
Pavement cutter working on pavement this a.m. (Greg does not agree with the CD-3 Pavement Detail, but I tell him to follow it as specified).
Excavator down. No pipe placement until noon.
Checking pipe placement with laser in trench.
In the p.m., backfilling and compacting leachate line, A-3 working north.
Some HDPE pipe fabrication being done east of job trailers.

Comanco:

Detailing liner cut and tracking CDN Lot 19 failure. (I request to see CDN test results, pass or fail, and Pablo promises to address it.
Fabricating a modified pipe boot.

South End Development:

Placing sand in SW-2 west third moving east. Getting close to rain flap.
At 10:45 a.m., placing common fill along south berm of SW-2 middle third. Ramp into middle third at approx. 1 p.m.

Fraser Mining:

Two new bootless pipe penetrations on site –wrong 12-in. length, only 5 inches of flatstock under 12-in. pipe. (Discussion about what was approved).
At 11:30 a.m., demobilizing.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 142

CONTRACTOR'S REP.: Greg Hillman **DATE:** 2-12-02, Tuesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	11	Volvo Water Truck Case 1150G Dozer Case 580L Backhoe Kobelco SK200 Excavator 1 Volvo L120 Loader 1 Pickup Truck 1 Bobcat 3-in. Pump Ingersol-Rand SD 40D Compactor (arriving in the p.m.)
COMANCO	10	1 John Deere 544O Loader 1 John Deere 544H Loader 1 John Deere 410E Backhoe
SOUTH END DEVELOPMENT	5	1 Volvo EC 36 Excavator 1 Volvo L90C Loader 1 Case Dozer 850 H 1 Terex TA25 Off-Road Dump Truck 1 Volvo 35 Off-Road Dump Truck Case 1150 Dozer (arriving at 8 a.m.)
FRASER MINING	3	Truck and Fusion Welding Equipment (demobilizing at 11:30 a.m.)

HOURS INSPECTOR ON JOB SITE: 7:15 a.m. – 4:45 (9 hrs. 30 min.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 143

CONTRACTOR'S REP.: Greg Hillman **DATE:** 2-13-02, Wednesday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Cldy. p.m. Cldy.

TEMP. RANGE: 50°- 67°

RAINFALL: 0" – drizzle at 3 p.m.

MAJOR DELIVERIES: Trench box arrives in the p.m. for Handex

****

WORK PERFORMED:

Handex:

Operating sand screening south of SW-2.

Screen machine moved yesterday after repair starting new pile slightly south.

Leachate pipe continues toward A-2 area; excavator digging and placing pipe, laser being used for grade, loader placing backfill, and roller compacting backfill.

More tubes being placed in SW-2 sand layer.

In the p.m., crew placing posts in anchor trench.

Comanco:

Placing interim berm pipe boots in SW-2 (3 of 4 placed).

Doing site cleanup and restacking CDN stored material by lot.

South End Development:

Placing sand in SW-2 middle third working south berm 0-190' north, working east.

(Told Kevin to watch wrinkling of liner due to pushing sand.)

Placing sand on south floor to east flap, working north.

Miscellaneous:

Universal picking up samples of sand from top of stockpile by SW-2 (BD southpile top and BC north pile.

Note: Survey quantity of sand stock pile is approximately half of what Greg thinks.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 143

CONTRACTOR'S REP.: Greg Hillman **DATE:** 2-13-02, Wednesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	11	Volvo Water Truck Case 1150G Dozer Case 580L Backhoe Kobelco SK200 Excavator 1 Volvo L120 Loader 1 Volvo L90 Loader 1 Pickup Truck 1 Bobcat Ingersol-Rand SD 40D Compactor 3-in. Pump
COMANCO	9	1 John Deere 544O Loader 1 John Deere 544H Loader 1 John Deere 410E Backhoe
SOUTH END DEVELOPMENT	5	1 Volvo EC 36 Excavator 1 Volvo L90C Loader 1 Case Dozer 850 H 1 Case 1150 Dozer 1 Terex TA25 Off-Road Dump Truck (idle) 1 Volvo 35 Off-Road Dump Truck 1 Volvo 40 Off-Road Dump Truck

HOURS INSPECTOR ON JOB SITE: 7:15 a.m. – 4:00 (8 hrs. 45 min.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 144

CONTRACTOR'S REP.: Greg Hillman **DATE:** 2-14-02, Thursday

****

VISITORS: _____

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_____

WEATHER: a.m. Cldy. p.m. Clear

TEMP. RANGE: 54°- 73°

RAINFALL: 0"

MAJOR DELIVERIES: 8-in. "Y" for cleanout between manholes on site.

****

WORK PERFORMED:

Handex:

Operating sand screening south of SW-2.

Dozer pushing sand back into stockpile 1 after excavator loads out area.

Pipe crew excavator down.

In A-2 manhole area backfilling and compaction continue.

More tubes being placed in SW-2 sand layer.

Water truck on haul routes and backfill area.

Fabricating pipe east of job trailers.

Comanco:

At 9:15 a.m. Clayton calls about a CDN truck, not on site.

Only 1 man on site for 3 hours in the p.m. stacking CDN by lot.

South End Development:

Placing sand in SW-2 middle third working north to sandbag limit lines placed by Comanco due to questionable CDN.

In the p.m., ramping sand in eastern third of SW-2 just east of flap.

At 4:00 p.m. done for the day.

Miscellaneous:

Greg trying to convince me that Fraser is correct in saying that the shortest a12-in. pipe can be on a 3:1 slope is 5'5" which is not correct.

Had conversation with Pablo and then with Abdul and Dan about the CDN conformance test results.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 144

CONTRACTOR'S REP.: Greg Hillman **DATE:** 2-14-02, Thursday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	11	Volvo Water Truck Case 1150G Dozer Case 580L Backhoe Kobelco SK200 Excavator 1 Volvo L120 Loader 1 Volvo L90 Loader 1 Pickup Truck 1 Bobcat Ingersol-Rand SD 40D Compactor 3-in. Pump
COMANCO (in the p.m. for 3 hours)	1	1 John Deere 544O Loader 1 John Deere 544H Loader 1 John Deere 410E Backhoe
SOUTH END DEVELOPMENT	5	1 Volvo EC 36 Excavator 1 Volvo L90C Loader 1 Case Dozer 850 H 1 Case 1150 Dozer 1 Terex TA25 Off-Road Dump Truck (idle) 1 Volvo 35 Off-Road Dump Truck 1 Volvo 40 Off-Road Dump Truck

HOURS INSPECTOR ON JOB SITE: 7:15 a.m. – 4:20 (9 hrs.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 145

CONTRACTOR'S REP.: Greg Hillman **DATE:** 2-15-02, Friday

****

VISITORS: _____
Dan Strobridge and Bob Hauser, CDM

WEATHER: a.m. P/Cldy. p.m. P/Cldy.
TEMP. RANGE: 44°- 76°
RAINFALL: 0"

MAJOR DELIVERIES: Truckload of CDN – 51 rolls (sampled Lot 22 Roll 0201900)

****

WORK PERFORMED:

Handex:

Operating sand screening south of SW-2.
Pipe crew excavator still down – pump to arrive on Monday.
Backfilling and compaction continue at A-3 end of pipe.
Continue placing tubes in SW-2 sand layer.
Water truck on haul routes and washing off road in saw-cut and crossing areas.
Water truck also watering backfilling trench as fill goes in.

Comanco:

Unloading CDN truck (before 8 o'clock).
Crew placing 4th interim flap penetration in SW-2.
Part of crew getting weld training.
In the p.m., sewing seams in east third of SW-2.
Doing general cleanup and departing at 3 p.m.

South End Development:

Placing sand in SW-2 east third south side, moving east.
Loader moving excess piles fron finish grading west third.
Staging sand on both sides of west flap, and shutting down at 3 p.m.

Miscellaneous:

Received passing transmissivity results on lots 20, 21, and 26 (Pablo to fax more information).
Greg says they'll only do sand screening and surface backfilling gravity pipe tomorrow.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 145

CONTRACTOR'S REP.: Greg Hillman **DATE:** 2-15-02, Friday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	11	Volvo Water Truck Case 1150G Dozer Case 580L Backhoe Kobelco SK200 Excavator 1 Volvo L120 Loader 1 Volvo L90 Loader 1 Pickup Truck 1 Bobcat Ingersoll-Rand SD 40D Compactor 3-in. Pump
COMANCO	10	1 John Deere 544O Loader 1 John Deere 544H Loader 1 John Deere 410E Backhoe
SOUTH END DEVELOPMENT	5	1 Volvo EC 36 Excavator 1 Volvo L90C Loader 1 Case Dozer 850 H 1 Case 1150 Dozer 1 Terex TA25 Off-Road Dump Truck (idle) 1 Volvo 35 Off-Road Dump Truck 1 Volvo 40 Off-Road Dump Truck

HOURS INSPECTOR ON JOB SITE: 7:10 a.m. – 3:05 p.m. (8 hrs.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 148

CONTRACTOR'S REP.: Greg Hillman **DATE:** 2-18-02, Monday

****

VISITORS: _____

_____

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WEATHER: a.m. P/Cldy. p.m. Clear

TEMP. RANGE: 46°- 74°

RAINFALL: .1" over the weekend

MAJOR DELIVERIES: Two loads of RCP arrive on site in the a.m. (7:15 & 11:15 a.m.)

****

WORK PERFORMED:

Handex:

Operating sand screening south of SW-2. – Screened sand on Saturday and Sunday.

Mechanic working on excavator – repaired at 10:30 a.m.

Pipe crew staging manhole sections.

Manhole installation starts at A-2 after excavator is repaired.

At 1:30 p.m. excavator breakes down again after setting 2 sections of concrete manhole and 1 pad gravel and framed for metering manhole pad (L.C.)

Comanco:

Not on site.

I received test results other than transmissivity on 17-26 (not sure when before-and-after result will be available). Pablo says he will send a spread sheet of the status this p.m.

South End Development:

Placing sand by west interim berm flap. (One truck down since Friday p.m.).

Begin standing up flap mid a.m.

Lab samples good in Pile #2. Moving Pile #2 into cell north in middle third.

Shutting down at approximately 4 p.m.

Peninsula Surveying:

Surveyors staking out swale west of SW-2

Miscellaneous:

Universal technician on site taking sand samples and densities.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 148

CONTRACTOR'S REP.: Greg Hillman **DATE:** 2-18-02, Monday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	9	Volvo Water Truck Case 1150G Dozer (repaired in p.m.) Case 580L Backhoe Kobelco SK200 Excavator (down) 1 Volvo L120 Loader 1 Volvo L90 Loader 1 Pickup Truck 1 Bobcat 3-in. Pump
COMANCO	10	1 John Deere 544O Loader 1 John Deere 544H Loader 1 John Deere 410E Backhoe (departs a.m.)
SOUTH END DEVELOPMENT	5	1 Volvo EC 36 Excavator 1 Volvo L90C Loader 1 Case Dozer 850 H 1 Case 1150 Dozer Terex TA25 Off-Road Dump Truck (departs) 1 Volvo 35 Off-Road Dump Truck 1 Volvo 40 Off-Road Dump Truck
PENINSULA SURVEYING	2	1 Van

HOURS INSPECTOR ON JOB SITE: 7:15 a.m. – 4:40 p.m. (9 hrs. 25 min.)

John C McHugh

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 149

CONTRACTOR'S REP.: Greg Hillman **DATE:** 2-19-02, Tuesday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Clear p.m. P/Cldy.

TEMP. RANGE: 41°- 77°

RAINFALL: 0"

MAJOR DELIVERIES: _____

****

WORK PERFORMED:

Handex:

Operating sand screening south of SW-2.

Excavator repaired overnight. Pipe crew excavate A-2 metering manhole pad area (L.D.), placing stone and forming. Setting up trench box. Excavating A-2 manhole north (p.m.)

Water truck watering haul routes, and loader reshaping backfilled areas.

Dozer reshaping west berm of SW-2 (surveyor grade stakes don't match top of berm liner).

Dozer overcutting west berm, 19-in. thickness half way down slope (Greg says it is per drawing – Dan to send letter stating that it tapers only on top down to 2 vertical feet). At 2 p.m. more sand to west berm.

Comanco:

No work. – At 10:45 a.m. Bob Lung on site to cut new sample Lot 17 (previous samples are in customs.)

South End Development:

Both trucks hauling sand from pile #2 to east third of SW-2. Placing sand working north until sandbag line then moving east in the p.m. Volvo 40 off-road dump truck broke down again at noontime (service exhaust).

Loader and excavator moving excess sand from west berm area. Setting depth tubes.

Shutting down at approximately 4 p.m. Most floor is covered, but some south berm is not (Kevin says ramps will cover side slope).

Peninsula Surveying:

Continue on westside swale SW-2. In the p.m. 47-ft. elevation west interim berm. End of day, locating bootless penetrations in SW-2.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 149

CONTRACTOR'S REP.: Greg Hillman **DATE:** 2-19-02, Tuesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	9	Volvo Water Truck Case 1150G Dozer Case 580L Backhoe Kobelco SK200 Excavator 1 Volvo L120 Loader 1 Pickup Truck 1 Bobcat 3-in. Pump
COMANCO (Bob Lung 3 hrs.)	0	1 John Deere 544O Loader 1 John Deere 544H Loader
SOUTH END DEVELOPMENT	6	1 Volvo EC 36 Excavator 1 Volvo L90C Loader 1 Case Dozer 850 H 1 Case 1150 Dozer 1 Volvo 35 Off-Road Dump Truck 1 Volvo 40 Off-Road Dump Truck (down)
PENINSULA SURVEYING	3	1 Van

HOURS INSPECTOR ON JOB SITE: 7:15 a.m. – 4:20 p.m. (9 hrs.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 150

CONTRACTOR'S REP.: Greg Hillman **DATE:** 2-20-02, Wednesday

****

VISITORS: _____

_____

_____

WEATHER: a.m. P/Cldy. p.m. Cldy.

TEMP. RANGE: 55°- 74°

RAINFALL: 0"

MAJOR DELIVERIES: Pipe and fittings for 2 ½ -in. wash-down.

****

WORK PERFORMED:

Handex:

Operating sand screening south of SW-2.

Pipe crew continue installing gravity line from A-2 to A-1 w/trench box and backfilling.

Part of Handex crew with dozer finish grading west third of SW-2, sand area 450" x 420" approximately.

Water truck watering haul routes.

Mention to Greg that all 8 mitered end sections bell end geotextile 801. 861 not approved for leachate pipe wrap of stone.

Comanco:

No work. – Clayton 1 hour on site in the a.m. Bob Lung cuts new samples of Lot 19, remnants.

South End Development:

1 truck continues hauling sand from pile #2 into SW-2 to middle and east thirds of south berm edge. – Truck shutting down at 2 p.m.

Excavator doing west ditch, and loader moving excess material.

Miscellaneous:

In lieu of yesterday's Tenex letter, Jack confirms with Greg and Clayton that they were not directed to stop – self protection stops the sand until issues are resolved.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 150

CONTRACTOR'S REP.: Greg Hillman **DATE:** 2-20-02, Wednesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 1 day laborer)	10	Volvo Water Truck Case 1150G Dozer Case 580L Backhoe Kobelco SK200 Excavator 1 Volvo L120 Loader 1 Pickup Truck 1 Bobcat 3-in. Pump
COMANCO	0	1 John Deere 544O Loader 1 John Deere 544H Loader
SOUTH END DEVELOPMENT	6	1 Volvo EC 36 Excavator 1 Volvo L90C Loader 1 Case Dozer 850 H 1 Case 1150 Dozer 1 Volvo 35 Off-Road Dump Truck 1 Volvo 40 Off-Road Dump Truck (down)

HOURS INSPECTOR ON JOB SITE: 7:25 a.m. – 4:45 p.m. (9 hrs. 20 min.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 151

CONTRACTOR'S REP.: Greg Hillman **DATE:** 2-21-02, Thursday

****

VISITORS: _____

_____

_____

WEATHER: a.m. P/Cldy. p.m. Cldy.

TEMP. RANGE: 62°- 80°

RAINFALL: Traces overnight

MAJOR DELIVERIES: _____

****

WORK PERFORMED:

Handex:

Operating sand screening south of SW-2.

Pipe crew fusing pipe east of trailer and doing some backfilling of A2-A1 gravity line.

Sand thickness check on the west berm was fine, but half way down the south berm slope the sand layer is too thin. Greg says it tapers down the slop on the drawings and will not change it. He wants leachate pipe through west flap moved to survey stake - says CDM directed placement.

At 9:30, setting up for leachate pipe excavation, north line, SW-2 west third.

Dozer and laborer doing finish grade on west half of SW-2.

Draining 10-in. reclaim lines for saddle placement. Crew start installing 2½-in. pipe saddle using 2½-in. hole saw. leachate pipe wrap of stone.

Comanco:

No work.

South End Development:

No hauling of sand. Leader bringing some sand to top south berm east third.

In the p.m., continue grading sand in SW-2 and mover excess sand from west third.

At 3:40 p.m., South End loader and Handex dozer still shaping west third of SW-2.

Miscellaneous:

SW-2 portolets blown over during the night.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 151

CONTRACTOR'S REP.: Greg Hillman **DATE:** 2-21-02, Thursday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	10	Volvo Water Truck Case 1150G Dozer Case 580L Backhoe Kobelco SK200 Excavator 1 Volvo L120 Loader 1 Pickup Truck 1 Bobcat 3-in. Pump
COMANCO	0	1 John Deere 544O Loader 1 John Deere 544H Loader
SOUTH END DEVELOPMENT	5	1 Volvo EC 36 Excavator (idle) 1 Volvo L90C Loader 1 Case Dozer 850 H 1 Case 1150 Dozer 1 Volvo 35 Off-Road Dump Truck (idle) 1 Volvo 40 Off-Road Dump Truck (idle)

HOURS INSPECTOR ON JOB SITE: 7:15 a.m. – 3:45 p.m. (8 hrs. 30 min.)

John C. Mullen III

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 152

CONTRACTOR'S REP.: Greg Hillman **DATE:** 2-22-02, Friday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Rain/Cldy. p.m. Rain

TEMP. RANGE: 65°

RAINFALL: .25" at 7:15 a.m.

MAJOR DELIVERIES: 3 truckloads of River Rock arriving 8:45-9:00 a.m.

****

WORK PERFORMED:

Handex:

No sand screening due to rain.

Pipe crew installing metering manholes in A-2. – Set a 14-ft. manhole and pulled it out again – switching it to SW-2.

Dozer and grade checker in west third of SW-2.

Pump draining A-3.

At 11:35, locking up trailer, and pipe crew wrapping up backfill A-2 manhole area.

Comanco:

Not on site. Pablo faxing transmissivity results – some phone updates.

South End Development:

4 man crew on site and departs at 8:00 a.m.

Miscellaneous:

Greg says there will be no activity Saturday except possibly for sand screening.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 152

CONTRACTOR'S REP.: Greg Hillman **DATE:** 2-22-02, Friday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (4 hrs.)	9	Volvo Water Truck Case 1150G Dozer Case 580L Backhoe Kobelco SK200 Excavator 1 Volvo L120 Loader 1 Pickup Truck 1 Bobcat 3-in. Pump
COMANCO	0	1 John Deere 544O Loader 1 John Deere 544H Loader
SOUTH END DEVELOPMENT (Departs by 8 a.m.)	4	1 Volvo EC 36 Excavator (idle) 1 Volvo L90C Loader 1 Case Dozer 850 H 1 Case 1150 Dozer 1 Volvo 35 Off-Road Dump Truck (idle) 1 Volvo 40 Off-Road Dump Truck (idle)

HOURS INSPECTOR ON JOB SITE: 7:15 a.m. – 11:40 a.m. (4 hrs. 30 min.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 155

CONTRACTOR'S REP.: Greg Hillman **DATE:** 2-25-02, Monday

****

VISITORS: Don Montgomery/Handex

WEATHER: a.m. Clear p.m. Clear
TEMP. RANGE: 48°- 77°
RAINFALL: Weekend 2.6"

MAJOR DELIVERIES: Truckload of 51 Rolls of CDN on site 7:10 a.m.

****

WORK PERFORMED:

Handex:

Crew working on sand screen conveyor. At 9:00 a.m. screen moved east to new pile; sand screening restarted and progressing slowly (lots of clumping due to weekend rain).
The 3-in. Handex pump was running over the weekend and continue draining A-3.
At 8:50, 4-in. pump arrives and is running in SW-2.
Pipe crew installing manhole A-1.

Comanco:

Comanco 3-in. pump draining weekend rain from SW-2.
Crew doing CDN repairs from sample cuts on SW-2 floor middle section.
Bob says he won't move sand limits until he sees fax of passing results. – Numerous CDN results received by fax of Lot 18, 20, 21, 24, and 16. Pablo wants submittal approval before sand placement.

South End Development:

Excavator moving sand from west third of SW-2 to middle third, adding more sand to south berm. Stopped moving sand at 10:30 a.m. (according to Kevin).
At 11 a.m. excavator, loader and both haul trucks at Lube & Fuel point.
Crew of 3 standing west flap of SW-2 in the p.m. (Shut down at 3:30 p.m.)

Peninsula:

Staking out SW-2 leachate lines for Handex and comparing to pipe flap penetrations (per Greg). Finish sketch, as-built reclaim and A1-A2 leachate pipe. (Shut down at 3:30 p.m.)

Miscellaneous:

Don Montgomery says stone for leachate pipe wrap failed conformance test.
Abdul accepts Lot 16 submittal and requests original 660 fail report.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 155

CONTRACTOR'S REP.: Greg Hillman **DATE:** 2-25-02, Monday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (incl. 1 day laborer) Part of crew shuts down 3:30 p.m.	10	Volvo Water Truck Case 1150G Dozer Case 580L Backhoe Kobelco SK200 Excavator 1 Volvo L120 Loader 1 Pickup Truck 1 Bobcat 3-in. Pump
COMANCO	4	1 John Deere 544O Loader 1 John Deere 544H Loader
SOUTH END DEVELOPMENT	7	1 Volvo EC 36 Excavator 1 Volvo L90C Loader 1 Case Dozer 850 H 1 Case 1150 Dozer 1 Volvo 35 Off-Road Dump Truck 1 Volvo 40 Off-Road Dump Truck
PENINSULA	3	1 Van

HOURS INSPECTOR ON JOB SITE: 7:10 a.m. – 3:50 p.m. (8 hrs. 40 min.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 156

CONTRACTOR'S REP.: Greg Hillman **DATE:** 2-26-02, Tuesday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Clear p.m. Clear

TEMP. RANGE: 46°- 75°

RAINFALL: 0"

MAJOR DELIVERIES: 5 bootless pipe penetrations and electrofusion couplings on site. At 4:10 p.m. Kobelco Excavator with narrow bucket arrives.

****

WORK PERFORMED:

Handex:

Screening sand south of SW-2, east stockpile.

Pump dewatering SW-2.

Dozer pushing sand into stockpile by job trailer in the a.m.

Pipe crew at A-1 existing lift station working on bypass pipes and hoses – bypass operational at 4:30 p.m.

Comanco:

Crew sewing CDN in SW-2, repairing sample cutouts. At 4:15 p.m., moving sand bag lines for sand placement.

Majority of crew placing CDN in A-3.

Deploying CDN on west berm and north floor to rainflap.

Received lab results of Lot 17 late yesterday.

South End Development:

2 dozers leveling sand from yesterday SW-2 middle third north half.

Excavator and loader start excavating for SW-2 bootless pipe penetrations.

Installing grate tubes at sand placement.

Fraser Mining:

At 3:00 p.m., crew of 2 starts welding 8-inch pipe to two bootless pipe penetrations.

Miscellaneous:

I inform Greg that Peninsula's pipe penetration sketch was forwarded and will be approved by letter.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 156

CONTRACTOR'S REP.: Greg Hillman **DATE:** 2-26-02, Tuesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	10	Volvo Water Truck Case 1150G Dozer Case 580L Backhoe Kobelco SK200 Excavator 1 Volvo L120 Loader 1 Pickup Truck 1 Bobcat 3-in. Pump
COMANCO	29	1 John Deere 544O Loader 1 John Deere 544H Loader
SOUTH END DEVELOPMENT	8	1 Volvo EC 36 Excavator 1 Volvo L90C Loader 1 Case Dozer 850 H 1 Case 1150 Dozer 1 Volvo 35 Off-Road Dump Truck 1 Volvo 40 Off-Road Dump Truck
PENINSULA	0	1 Van
FRASER MINING	2	Truck and Fusion Welding Equipment

HOURS INSPECTOR ON JOB SITE: 7:15 a.m. – 5:05 p.m. (9 hrs. 50 min.)

John C McGlynn III

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 157

CONTRACTOR'S REP.: Greg Hillman **DATE:** 2-27-02, Wednesday

****

VISITORS: Don Montgomery/Handex

WEATHER: a.m. Cldy. p.m. P/Cldy.
TEMP. RANGE: 50°- 48°
RAINFALL: 0" - very windy

MAJOR DELIVERIES: Cat 40 Off-Road dump truck arrived in the p.m. for South End.

****

WORK PERFORMED:

Handex:

Screening sand south of SW-2 east stockpile.
Pipe crew excavating around A-1 lift station and then to A-1 manhole with gravity line.
Small excavator digging east of cell for pipe penetration.
Pipe crew bypass piped in 4-inch PVC. Placing cleanout across from A-1.
Crew standing up primary liner in A-1 to stop water flow into sump area.

Comanco:

Crew doing substance test and start CDN deployment at 7:40 a.m.
Wind interfering with deployment. Doing short panels on west berm S.W. corner.
Doing repairs to bootless pipe penetrations. (Shut down at 3:30 p.m.)

South End Development:

Hauling and spreading sand in middle third of SW-2 north half.
Excavator and loader start excavating for SW-2 bootless pipe penetrations.
Installing grate tubes at sand placement. (Crew shut down at 4:00 p.m. at sandbag limits.)

Fraser Mining:

Air-testing bootless pipe penetrations. First three leak "bench test"; Comanco makes repairs for Fraser, and at 2:30 p.m. two are repaired and retested successfully. Two others still being repaired.

Peninsula:

Surveying A-3 MM inverts and pipe penetrations, interim berm, bootless locations.

Miscellaneous:

Universal sand samples II, JJ.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 157

CONTRACTOR'S REP.: Greg Hillman **DATE:** 2-27-02, Wednesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	11	Volvo Water Truck Case 1150G Dozer Case 580L Backhoe Kobelco SK200 Excavator Kobelco SK 160 Excavator 1 Volvo L120 Loader 1 Pickup Truck 1 Bobcat Excavator 1 Gator ATV 3-in. Pump
COMANCO	32	1 John Deere 544O Loader 1 John Deere 544H Loader
SOUTH END DEVELOPMENT	9	1 Volvo EC 36 Excavator 1 Volvo L90C Loader 1 Case Dozer 850 H 1 Case 1150 Dozer 1 Volvo 35 Off-Road Dump Truck 1 Volvo 40 Off-Road Dump Truck
PENINSULA	3	1 Van
FRASER MINING	2	1 Lull 644D Forklift 1 Carryall ATV

HOURS INSPECTOR ON JOB SITE: 7:10 a.m. – 4:20 p.m. (9 hrs. 10 min.)

John C McHugh III

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 158

CONTRACTOR'S REP.: Greg Hillman **DATE:** 2-28-02, Thursday

****

VISITORS: Don Montgomery/Handex

WEATHER: a.m. Clear p.m. P/Cldy.
TEMP. RANGE: 26°- 59°
RAINFALL: 0"

MAJOR DELIVERIES: Geotextile for pipe wrap, 13 rolls 861 batch 60940, 60976

****

WORK PERFORMED:

Handex:

Doing maintenance on screen and restart sand screening at 7:45 a.m.
Pipe crew continues excavating for gravity line to A-1 lift station – completed at 5:30 p.m.
Dewatering SW-2 for pipe penetration. At 3:30 formwork done and 65' of pipe in place.
Pouring concrete for bootless pipe penetrations in SW-2 – completed at 4:45.
Moving pipe into road crossing (6:30 p.m.), checking pipe elevation and spacing (8:45 p.m.), and backfilling (9:00 p.m.).

Comanco:

Moving sandbag line in SW-2, and replacing Lot 19 failing roll in SW-2 primary.
Majority of crew deploying CDN primary in A-3 south berm and north half of floor.
Cut open and folded over liner for excavation, and start rain diversion flap (240').
North floor CDN between 7th and 8th pipe set.

South End Development:

Two trucks hauling and spreading sand in middle third of SW-2 middle to flap, then east third middle working north.
At 8:15 a.m. small excavator, loader and surveyors start digging for leachate pipes SW-2 to manholes across road – late p.m., digging east. Also installing thickness tubes.

Fraser Mining:

Welding pipe to bootless pipe penetrations, after Comanco's repair, and drilling holes in flatstock for bolts. At 7:30 p.m., 1st pipe crossing welded. At 8:30 p.m., 2nd pipe welded.

Miscellaneous:

At 8:00 a.m., County gave go-ahead to cut road open in SW-2, says Greg.
Universal taking densities on road crossing and cylinder for concrete.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 158

CONTRACTOR'S REP.: Greg Hillman **DATE:** 2-28-02, Thursday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	11	Volvo Water Truck Case 1150G Dozer Case 580L Backhoe Kobelco SK200 Excavator Kobelco SK 160 Excavator 1 Volvo L120 Loader 1 Pickup Truck 1 Bobcat Excavator 1 Gator ATV 3-in. Pump
COMANCO	37	1 John Deere 544O Loader 1 John Deere 544H Loader
SOUTH END DEVELOPMENT	10	1 Volvo EC 36 Excavator 1 Volvo L90C Loader 1 Case Dozer 850 H 2nd 850 Dozer (arrives in the p.m.) 1 Case 1150 Dozer 1 Volvo 35 Off-Road Dump Truck 1 Volvo 40 Off-Road Dump Truck (down)
FRASER MINING	2	1 Lull 644D Forklift 1 Carryall ATV

HOURS INSPECTOR ON JOB SITE: 7:10 a.m. – 9:10 p.m. (13 hrs. 30 min.)

John C Mullett III

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 159

CONTRACTOR'S REP.: Greg Hillman **DATE:** 3-1-02, Friday

****

VISITORS: _____

_____

_____

WEATHER: a.m. P/Cldy. p.m. Cldy.

TEMP. RANGE: 49°- 70°

RAINFALL: 0" – drizzle & windy

MAJOR DELIVERIES: Grout for SW-2 MM pads. 2nd power screen & dozer for Handex

****

WORK PERFORMED:

Handex:

Screening sand south of SW-2 east pile.

Pipe crew backfills east of A-1 and repairs line from A-2 pumps (broken yesterday) – pumps running again at 11:00 a.m.

Part of crew shaping subgrade at bootless pipe penetration in SW-2. Also dewatering.

At 11:30 a.m., pipe crew moves to SW-2 MM location, forming and pouring concrete - pour complete at 4:05 p.m.

Dozer gradfing ash cells in gravity line area.

Comanco:

Majority of crew deploying CDN primary in A-3 north half of floor, east third of cell.

Rain diversion flap continues east.

Putting liner back at SW-2 bootless penetrations, including 1 panel of Bentomat and 1 piece of Claymax. At 12:30 p.m., liner cap-strips at bootless penetrations completed.

South End Development:

Three trucks hauling and spreading sand in SW-2 east third middle working northeast.

Regraded road base SW-2 road crossing and backfilled toward cell berm (rough but operational) – crew worked until 11:30 p.m.

Two excavators loading haul trucks, three dozers (2 on sand, 1 on fill).

Also installing thickness tubes.

Fraser Mining:

Fabricates 60' pipe to bootless pipe penetrations in A-3, and then pieces for A-2. I provide Paul with a small set of plans for their fabrication of cleanouts for A-3.

Miscellaneous:

Universal taking sand samples.

Greg says there is enough sand on site to finish job. May place before tests are back?

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 159

CONTRACTOR'S REP.: Greg Hillman **DATE:** 3-1-02, Friday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	9	Volvo Water Truck Case 1150G Dozer Case 580L Backhoe Kobelco SK200 Excavator Kobelco SK 160 Excavator 1 Volvo L120 Loader D6M Dozer (arrives at 9:30 a.m.) 1 Pickup Truck 1 Bobcat Excavator 1 Gator ATV 3-in. Pump
COMANCO	33	1 John Deere 544O Loader 1 John Deere 544H Loader
SOUTH END DEVELOPMENT	13	1 Volvo EC 36 Excavator 1 Volvo L90C Loader 1 Case Dozer 850 H 2nd 850 Dozer (arrives in the p.m.) 1 Case 1150 Dozer 1 Volvo 35 Off-Road Dump Truck 1 Volvo 40 Off-Road Dump Truck (down) Road Grader
FRASER MINING	2	1 Lull 644D Forklift 1 Carryall ATV

HOURS INSPECTOR ON JOB SITE: 7:25 a.m. – 4:20 p.m. (9 hrs.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 160

CONTRACTOR'S REP.: Greg Hillman **DATE:** 3-2-02, Saturday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Cldy. p.m. Cldy.

TEMP. RANGE: 68°- 80°

RAINFALL: 0"

MAJOR DELIVERIES: 2 off-road dump trucks for South End

****

WORK PERFORMED:

Handex:

Screening sand south of SW-2 new west pile. – 2 loaders and 2 screens running.

Pipe crew preparing to install metering manholes in SW-2 – elevations in question (drawing shows1.2' difference – appears to be .8'). I call Greg who says they will take care of it by adjusting concrete manhole. He asks if I agree, and I inform him that I am just bringing it to his attention.

I ask Skipper if valves get coating, and he says, "No, only reclaim gets coating".

Comanco:

No work.

South End Development:

No work.

More equipment on site.

Fraser Mining:

Fabricating HDPE piping parts for A-2 and A-3.

Miscellaneous:

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 160

CONTRACTOR'S REP.: Greg Hillman **DATE:** 3-2-02, Saturday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	8	Volvo Water Truck Case 1150G Dozer Case 580L Backhoe Kobelco SK200 Excavator Kobelco SK 160 Excavator 1 Volvo L120 Loader D6M Dozer 1 Pickup Truck 1 Bobcat Excavator 1 Gator ATV 3-in. Pump
COMANCO	0	1 John Deere 544O Loader 1 John Deere 544H Loader
SOUTH END DEVELOPMENT	0	2 Volvo EC 36 Excavators 1 Volvo L90C Loader 1 Volvo L120 Loader 2 Case Dozers 850 H 1 Case 1150 Dozer 2 Volvo 35 Off-Road Dump Truck 2 Volvo 40 Off-Road Dump Truck 1 Small Volvo Off-Road Dump Truck
FRASER MINING	2	1 Lull 644D Forklift 1 Carryall ATV

HOURS INSPECTOR ON JOB SITE: 7:25 a.m. – 1:15 p.m. (5 hrs. 50 min.)

John C. Mahler III
Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 162

CONTRACTOR'S REP.: Greg Hillman **DATE:** 3-4-02, Monday

****

VISITORS: _____

_____

_____

WEATHER: a.m. P/Cldy. p.m. Cldy.

TEMP. RANGE: 49°- 70°

RAINFALL: .5" ++ and windy

MAJOR DELIVERIES: _____

****

WORK PERFORMED:

Handex:

Screening sand south of SW-2 new west pile – 1 screen and 1 loader running.

3-in. pump running in SW-2, (moved to A-3 at 9:15 a.m.). Comanco pump running in A-3, adding 4-in. pump in A-3 at noon and running 2nd 3-in. pump in SW-2 (total of 4 pumps).

Pipe crew set SW-2 manhole base, but it does not line up (new base to be shipped to site).

Comanco:

Patching holes in CDN with geotextile.

Unfolding windblown rainflap and continuing flap east.

Starting CDN on A2-A3 slope, because they cannot work on flooded floor.

Drill bolts A-3 bootless flatstock.

South End Development:

Hauling common fill to outside ramp area A-3 west.

Loading out sand from last week's SW-2 pile and stockpile by trailer and placing in A-3 west end. (Trailer pile gone in the p.m.)

Grader and dozer working in SW-2 and checking grade.

Shut down at 4:00 p.m.

Fraser Mining:

Continue fabricating appurtenances for multiple cells.

Miscellaneous:

Universal took sand sample NN on Sunday and OO, PP samples today.

I did pay request quantities with Don Montgomery by phone.

Note: Due to heavy winds, rain gauge fell down and portalet blew over.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 162

CONTRACTOR'S REP.: Greg Hillman **DATE:** 3-4-02, Monday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	10	Volvo Water Truck Case 1150G Dozer Case 580L Backhoe Kobelco SK200 Excavator Kobelco SK 160 Excavator 1 Volvo L120 Loader 1 Volvo L90 Loader D6M Dozer 1 Pickup Truck 1 Bobcat Excavator 1 Gator ATV 2-3" Pumps and 1-4" pump
COMANCO	22	1 John Deere 544O Loader 1 John Deere 544H Loader
SOUTH END DEVELOPMENT	13	2 Volvo EC 36 Excavator 1 Volvo L90C Loader 1 Volvo 120 Loader 2 Case Dozers 850 H 1 Hamm 2420 Roller 1 Case 1150 Dozer 2 Volvo 35 Off-Road Dump Truck 2 Volvo CAT 40 Off-Road Dump Trucks 1 small Volvo 4x4
FRASER MINING	2	1 Lull 644D Forklift, and 1 Carryall ATV

HOURS INSPECTOR ON JOB SITE: 7:15 a.m. – 4:25 p.m. (9 hrs.)

John C McHugh III

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 163

CONTRACTOR'S REP.: Greg Hillman **DATE:** 3-5-02, Tuesday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Clear p.m. Clear

TEMP. RANGE: 38°- 68°

RAINFALL: 0"

MAJOR DELIVERIES: _____

_____

****

WORK PERFORMED:

Handex:

Screening sand south of SW-2 new west pile – 2 screens and 2 loaders running.

4 pumps running in A-3 (none in SW-2). Water level down into detection trench A-3.

James and day laborers form for bootless pipe pour in A-3 – at 4:20 p.m. concrete on site, pour complete at 6:45 p.m.

Late p.m. – Berring problem, old screen down.

Pumping out ditch til 7:00 p.m.

Comanco:

Continuing CDN on north slope A-3 to A-2, and continuing rain flap east.

Part of crew restart primary CDN installation on the north half of floor east third.

Around noon, cutting open liner for A-3 bootless installation.

One liner repair in A-3 (P93 284'N 4'E).

South End Development:

2 excavators and 5 haul trucks hauling sand from south pile and west pile south of SW-2 to A-3 west third.

At 8 a.m., small excavator and loader start A-3 pipe excavation to road crossing – bootless to road excavated.

In A-3 setting depth tubes for sand.

Fraser Mining:

Continue working in A03.

Miscellaneous:

Universal took 2 regular sand samples and 1 dark brown test sample.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 163

CONTRACTOR'S REP.: Greg Hillman **DATE:** 3-5-02, Tuesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	7	Volvo Water Truck Case 1150G Dozer Case 580L Backhoe Kobelco SK200 Excavator Kobelco SK 160 Excavator 1 Volvo L120 Loader 1 Volvo L90 Loader D6M Dozer 1 Pickup Truck 1 Bobcat Excavator 1 Gator ATV 2-3" Pumps and 1-4" pump
COMANCO	17	1 John Deere 544O Loader 1 John Deere 544H Loader 1-3" pump
SOUTH END DEVELOPMENT	12	2 Volvo EC 36 Excavator 1 Volvo L90C Loader 1 Volvo 120 Loader 2 Case Dozers 850 H 1 Hamm 2420 Roller 1 Case 1150 Dozer 2 Volvo 35 Off-Road Dump Truck 2 Volvo CAT 40 Off-Road Dump Trucks 1 small Volvo 4x4
FRASER MINING	2	1 Lull 644D Forklift, and 1 Carryall ATV

HOURS INSPECTOR ON JOB SITE: 7:45 a.m. – 6:50 p.m. (11 hrs.)

John C. Mackey III

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 164

CONTRACTOR'S REP.: Greg Hillman **DATE:** 3-6-02, Wednesday

****

VISITORS: Pat Dorn, Maureen Davis and Brian Ehrler (Handex)

WEATHER: a.m. Clear p.m. Cldy.
TEMP. RANGE: 53°- 76°
RAINFALL: 0"

MAJOR DELIVERIES: 4 ERCP Mitered Spigot Ends arrive and 4 Bell Miters depart.

****

WORK PERFORMED:

Handex:
Screening sand south of SW-2 new south pile – 2 loaders and screens running. (mid a.m. and p.m., old screen down.)
2 pumps draining A-3 detection swale, 1 pump running in SW-2.
Pipe crew starting SW lift station.

Comanco:
Placing primary CDN northeast corner of A-3, and beginning interim cell berm flap west A-3 (290-ft. welded – complete at 5 p.m.).
At 9:00 a.m., starting liner attachment to SW-2 bootless penetrations (temporary cover tonight).
At 3:50 p.m. starting GCL deployment from A-3 pipe penetration area to temporary cover for tonight.

South End Development:
2 excavators and 5 haul trucks hauling sand from west pile south of SW-2 to A-3 west third and (in the p.m.) middle third.
Small excavator and loader backfilling yesterday's bootless placement, and shaping with dozer (complete at 3:45 p.m.)
Part of crew standing up west berm flap in SW-2.

Fraser Mining:
Working in A-3 and in fabrication area across from trailers.

Peninsula Surveyors:
Installing grade stakes for SW-2 drainage swale south of Cell.

Miscellaneous:
Universal took sand samples SS, TT and densities (95% & 97%) on A-3 pipe penetration slope.
I inform Bill Skipper that 8-in. leachate valves are in question.
I talk to Greg about subgrade corrections needed in A-3 sump area.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 164

CONTRACTOR'S REP.: Greg Hillman **DATE:** 3-6-02, Wednesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	10	Volvo Water Truck Case 1150G Dozer Case 580L Backhoe Kobelco SK200 Excavator Kobelco SK 160 Excavator 1 Volvo L120 Loader 1 Volvo L90 Loader D6M Dozer 1 Pickup Truck 1 Bobcat Excavator 1 Gator ATV 2-3" Pumps and 1-4" pump
COMANCO	22	1 John Deere 544O Loader 1 John Deere 544H Loader 1-3" pump
SOUTH END DEVELOPMENT	15	2 Volvo EC 36 Excavator 1 Volvo L90C Loader 1 Volvo 120 Loader 2 Case Dozers 850 H 1 Hamm 2420 Roller 1 Case 1150 Dozer 2 Volvo 35 Off-Road Dump Truck 2 Volvo CAT 40 Off-Road Dump Trucks 1 small Volvo 4x4
FRASER MINING	2	1 Lull 644D Forklift, and 1 Carryall ATV
PENINSULA SURVEYING	3	1 Van

HOURS INSPECTOR ON JOB SITE: 7:05 a.m. – 5:00 p.m. (9 hrs. 45 min.)

John C McLaughlin III

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 165

CONTRACTOR'S REP.: Greg Hillman **DATE:** 3-7-02, Thursday

****

VISITORS: _____

_____

_____

WEATHER: a.m. P/Cldy. p.m. Cldy.

TEMP. RANGE: 54°- 75°

RAINFALL: 0"

MAJOR DELIVERIES: _____

****

WORK PERFORMED:

Handex:

Screening sand south of SW-2 new west pile – 2 screens and 2 loaders running all day.
Screening stopped 4:30 p.m. Ran daily cover sample through screen and filled bucket for laboratory sampling. Greg was told he could dig for sand anywhere in stockpile area; he scraped dark material aside by screens 20-ft. from the road and started digging.
At 2:00 p.m. Greg stopped sand hauling from stockpile, minimum 4 tests outstanding.
Gary wants to run samples of stockpile and wait until results are in.
1 pump is running in SW-2.
Pipe crew installing 8-in. pipe from SW Lift Station to SW-2.

Comanco:

Continuing CDN on north slope A-3, and continuing rain flap east.
In SW-2, attaching liner to bootless pipe penetrations.

South End Development:

2 excavators and 4 haul trucks hauling sand from west pile south of SW-2 to A-3 middle third.
Crew of 5 standing up west flap in SW-2, continuing from where they left off yesterday, and moving to east flap at 9:15 a.m.

Fraser Mining:

On site fabricating pipe.

Miscellaneous:

Universal on site taking sand samples UU, VV.
Jack scales off asbuilt topo for flap elevation 47. (Checked elevation with Water Level.)

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 165

CONTRACTOR'S REP.: Greg Hillman **DATE:** 3-7-02, Thursday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	10	Volvo Water Truck Case 1150G Dozer Case 580L Backhoe Kobelco SK200 Excavator Kobelco SK 160 Excavator 1 Volvo L120 Loader 1 Volvo L90 Loader D6M Dozer 1 Pickup Truck 1 Bobcat Excavator 1 Gator ATV 2-3" Pumps and 1-4" pump
COMANCO (1 loader leaving at 8:40 a.m.)	26	1 John Deere 544O Loader 1 John Deere 544H Loader
SOUTH END DEVELOPMENT	15	2 Volvo EC 36 Excavator 1 Volvo L90C Loader 1 Volvo 120 Loader 2 Case Dozers 850 H 1 Hamm 2420 Roller 1 Case 1150 Dozer 2 Volvo 35 Off-Road Dump Truck 2 Volvo CAT 40 Off-Road Dump Trucks 1 small Volvo 4x4
FRASER MINING	2	1 Lull 644D Forklift 1 Carryall ATV

HOURS INSPECTOR ON JOB SITE: 7:15 a.m. – 4:50 p.m. (9 hrs. 30 min.)

John C Mayfield III

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 166

CONTRACTOR'S REP.: Greg Hillman **DATE:** 3-8-02, Friday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Ovrcst. p.m. Clear

TEMP. RANGE: 64°- 85°

RAINFALL: 0" (foggy a.m.)

MAJOR DELIVERIES: _____

****

WORK PERFORMED:

Handex:

Sand screening starts at 9 a.m. approximately. 1 screen shuts down at 4 p.m.

Dozer backfilling anchor trench west and south A-3.

Bill Skipper and pipe crew continue installing 8-in. pipe from SW Lift Station to SW-2.

(I remind Skipper abnout hydrotest spec. section.)

Comanco:

Installing east interim cell berm flap, and continuing CDN on north slope A-3.

At 8:15 a.m. cutting open liner in A-3, so Handex can fix grade for pipe attachment – closing up again at 8:45 a.m. and working on bootless attachment.

At 1:30 p.m., start stormwater interceptor cut west end of A-3 – three tees closing up.

At 4:00 p.m., starting CDN installation in A-3.

South End Development:

2 excavators, 2 off-road dump trucks and loader cutting across road at A-3 and A-2.

2 dozers grading in A-3 west third (1 off-road dump truck still down).

Grader working on haul road, and then grading sand in SW-2 east third.

Water truck and roller join in backfilling road crossings. Road base in place at 4 p.m.

Fraser Mining:

Fabricating "T" and 20-ft. pipe each side to place in sumps.

Fabricating road crossing pipes and welding in place.

At 4:15 starting SW-2 pipe test on bootless.

Miscellaneous:

Universal on site taking densities in road crossing backfill.

Comanco job trailer departs (remaining equipment in Conex).

Comanco submitted 4 liner books.

Aerial photos were taken today.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 166

CONTRACTOR'S REP.: Greg Hillman **DATE:** 3-8-02, Friday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	9	Volvo Water Truck Case 1150G Dozer Case 580L Backhoe Kobelco SK200 Excavator Kobelco SK 160 Excavator 1 Volvo L120 Loader 1 Volvo L90 Loader D6M Dozer 1 Pickup Truck 1 Bobcat Excavator 1 Gator ATV 2-3" Pumps and 1-4" pump
COMANCO	22	1 John Deere 544H Loader
SOUTH END DEVELOPMENT (Replacement off-road dump truck arrives in the p.m.)	15	2 Volvo EC 36 Excavator 1 Volvo L90C Loader 1 Volvo 120 Loader 2 Case Dozers 850 H 1 Hamm 2420 Roller 1 Case 1150 Dozer 2 Volvo 35 Off-Road Dump Truck 2 Volvo CAT 40 Off-Road Dump Trucks 1 small Volvo 4x4
FRASER MINING	2	1 Lull 644D Forklift 1 Carryall ATV

HOURS INSPECTOR ON JOB SITE: 7:15 a.m. – 4:50 p.m. (9 hrs. 30 min.)

John C. McHugh

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 169

CONTRACTOR'S REP.: Greg Hillman **DATE:** 3-11-02, Monday

****

VISITORS: _____

WEATHER: a.m. Clear. p.m. Clear

TEMP. RANGE: 56°- 79°

RAINFALL: 0"

MAJOR DELIVERIES: Pipe Wrap River Rock (3 loads Saturday and 20 loads today)

****

WORK PERFORMED:

Handex:

Screening sand excavated over the weekend just south of southeast corner of SW-2, where the stockpile used to be.
Handex and South End have 2 screens running, working 2 loaders, 1 excavator and 1 dozer.
Pipe crew placing pneumatic plugs, etc. for testing. Manhole SW leaking.
Water truck operational – filling SW-2 lift station.
In the p.m., placing stone in SW-2.
Placing saddle valves A2-A1.
(At 11:15 a.m., Longstick excavator on site. Mechanics working on loader and small excavator.)

Comanco:

Not on site (Greg says they'll return Wednesday).

South End Development:

2 dozers grading sand in A-3. 1 loader filling 2 off-road trucks with excess sand, which is being placed on both sides of A-3 west interim flap.
Mid a.m., flap being stood up at elevation 47.
(One excavator being serviced, and three trucks idle.)

Fraser Mining:

Over the weekend, fusing pipe and placing leachate detection pipe in SW-2.
Start placing detection pipe in A-3.

Miscellaneous:

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 169

CONTRACTOR'S REP.: Greg Hillman **DATE:** 3-11-02, Monday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (2 day laborers)	11	Volvo Water Truck Case 1150G Dozer Case 580L Backhoe Kobelco SK200 Excavator Kobelco SK 160 Excavator 1 Volvo L120 Loader 1 Volvo L90 Loader D6M Dozer 1 Pickup Truck 1 Bobcat Excavator 1 Gator ATV 2-3" Pumps and 1-4" pump
COMANCO	0	1 John Deere 544H Loader
SOUTH END DEVELOPMENT	14	2 Volvo EC 36 Excavator 1 Volvo L90C Loader 1 Volvo 120 Loader 2 Case Dozers 850 H 1 Hamm 2420 Roller 1 Case 1150 Dozer 2 Volvo 35 Off-Road Dump Truck 2 Volvo CAT 40 Off-Road Dump Trucks 1 small Volvo 4x4
FRASER MINING	2	1 Lull 644D Forklift 1 Carryall ATV

HOURS INSPECTOR ON JOB SITE: 7:10 a.m. – 4:50 p.m. (9 hrs. 30 min.)

John C McHugh III

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 170

CONTRACTOR'S REP.: Greg Hillman **DATE:** 3-12-02, Tuesday

****

VISITORS: _____

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_____

WEATHER: a.m. P/Cldy. p.m. P/Cldy.

TEMP. RANGE: 61°- 80°

RAINFALL: 0"

MAJOR DELIVERIES: Replacement SW-2 Manhole Base on site

****

WORK PERFORMED:

Handex:

One excavator feeding one loader, feeding both sand screens with one dozer pushing.
Pipe crew installing remaining saddle valves.
Pressure testing reclaim line 2:20-4:20 p.m. at 150 psi – no measurable drop.
James and laborers filling bootless cavity, raking stone to grade in SW-2 leachate detection swale, and placing top fabric.
Late a.m., start ditching through sand to pipes through flap SW-2..

Comanco:

Not on site (expected to return tomorrow).

South End Development:

Shaping drainage ditch outside SW-2.
Hauling sand into middle third of A-3.
One excavator loading four off road trucks, and one loader and two dozers grading in cell.
Laborer placing grade tubes.
In the p.m., two excavators loading trucks. Sand + ramp into east third.

Fraser Mining:

Continue placing leachate detection pipe in A-3.
Testing A-3 primary bootless, pass one hour.
Fabricating more cleanouts.

Miscellaneous:

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 170

CONTRACTOR'S REP.: Greg Hillman **DATE:** 3-12-02, Tuesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	10	Volvo Water Truck Case 1150G Dozer Case 580L Backhoe Kobelco SK200 Excavator Kobelco SK 160 Excavator 1 Volvo L120 Loader 1 Volvo L90 Loader D6M Dozer 1 Pickup Truck 1 Bobcat Excavator 1 Gator ATV 2-3" Pumps and 1-4" pump
COMANCO	0	1 John Deere 544H Loader
SOUTH END DEVELOPMENT	15	2 Volvo EC 36 Excavator 1 Volvo L90C Loader 1 Volvo 120 Loader 2 Case Dozers 850 H 1 Hamm 2420 Roller 1 Case 1150 Dozer 2 Volvo 35 Off-Road Dump Truck 2 Volvo CAT 40 Off-Road Dump Trucks 1 small Volvo 4x4
FRASER MINING	2	1 Lull 644D Forklift 1 Carryall ATV

HOURS INSPECTOR ON JOB SITE: 7:15 a.m. – 4:30 p.m. (9 hrs.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 171

CONTRACTOR'S REP.: Greg Hillman **DATE:** 3-13-02, Wednesday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Clear p.m. M/Cldy.

TEMP. RANGE: 64°- 80°

RAINFALL: 0"

MAJOR DELIVERIES: Bricks for manholes arrive

****

WORK PERFORMED:

Handex:

One excavator feeding one loader, feeding one sand screen, with one dozer pushing.
(Screen repairman on site at 8:30 a.m.)
Pipe crew preparing to test 8-inch HDPE ash gravity lines. - 6 PSI air-testing on A3-A2 gravity line (9:00-11:15 a.m.), and on A2-A1 Lift Station gravity line (12:30-2:35 p.m.) – no measurable drop in either of them
Laborers dewatering detection trenches in both cells.
Backfilling around cleanouts/ash gravity lines.
Bitumastic coating applied to remaining 2½-inc. valves and saddles.

Comanco:

Cleaning primary liner edge and folding back CDN for primary liner east end of SW-2.
(Clayton asks that Handex clean out anchor trench.)
Repairing geotextile along interceptor flap and welding interceptor flap to west end.
At 10:20 a.m., starting deployment at SW-2 east end.

South End Development:

Continue shaping drainage ditch outside SW-2.
Hauling sand to east third of A-3 – 1 excavator loading 4 off-road trucks.

Fraser Mining:

Moving clean-out pipes an tying them off at east side of SW-2 and A-3.
Testing bootless, secondary A-3, leaks again (Comanco to repair again).

Miscellaneous:

Universal on site.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 171

CONTRACTOR'S REP.: Greg Hillman **DATE:** 3-13-02, Wednesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	10	Volvo Water Truck Case 1150G Dozer Case 580L Backhoe Kobelco SK200 Excavator Kobelco SK 160 Excavator 1 Volvo L120 Loader 1 Volvo L90 Loader D6M Dozer 1 Pickup Truck 1 Bobcat Excavator 1 Gator ATV 2-3" Pumps and 1-4" pump
COMANCO	14	1 John Deere 544H Loader 1 John Deere 544H Loader
SOUTH END DEVELOPMENT	12	2 Volvo EC 36 Excavator 1 Volvo L90C Loader 1 Volvo 120 Loader 2 Case Dozers 850 H 1 Hamm 2420 Roller 1 Case 1150 Dozer 2 Volvo 35 Off-Road Dump Truck 2 Volvo CAT 40 Off-Road Dump Trucks 1 small Volvo 4x4
FRASER MINING	2	1 Lull 644D Forklift 1 Carryall ATV

HOURS INSPECTOR ON JOB SITE: 7:15 a.m. – 4:15 p.m. (to Fed-Ex) (9 hrs.)

John C. Mayhall III

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 172

CONTRACTOR'S REP.: Greg Hillman **DATE:** 3-14-02, Thursday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Clear p.m. Clear

TEMP. RANGE: 55°- 78°

RAINFALL: 0"

MAJOR DELIVERIES: _____

****

WORK PERFORMED:

Handex:

Sandscreening with one screen (original sandscreen moved so that more sand could be excavated in stockpile area) - 1 excavator feeding 1 loader, and 1 dozer pushing.

James and laborers grout A-3 under bootless connection and grout bootless void.

Placing fabric and stone in A-3 detection trench (complete at 1:00 p.m.)

Placing bricks in A-3 manhole, A-2, and lift station.

Water truck watering haul routes in the p.m. (requested by John Power)

Comanco:

Detailing SW-2 primary liner.

Deploying primary liner at A-3 east end right behind stone placement.

At 2 p.m. crew lowers stone around bootless primary penetration. - There were humps around penetration.

South End Development:

Continue hauling sand to A-3 – 1 excavator loading 2-4 off-road trucks (one down, one tire repair, one idle).

Three dozers grading A-3 area and sand.

Fraser Mining:

Doing maintenance work.

Miscellaneous:

13 destructs went out at 3:15 p.m.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 172

CONTRACTOR'S REP.: Greg Hillman **DATE:** 3-14-02, Thursday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	10	Volvo Water Truck Case 1150G Dozer Case 580L Backhoe Kobelco SK200 Excavator Kobelco SK 160 Excavator 1 Long Stick Excavator 1 Volvo L120 Loader 1 Volvo L90 Loader D6M Dozer 1 Pickup Truck 1 Bobcat Excavator 1 Gator ATV 3" Pump
COMANCO	13	1 John Deere 544H Loader
SOUTH END DEVELOPMENT	10	2 Volvo EC 36 Excavator 1 Volvo L90C Loader 2 Case Dozers 850 H 1 Hamm 2420 Roller 1 Case 1150 Dozer 2 Volvo 35 Off-Road Dump Truck 2 Volvo CAT 40 Off-Road Dump Trucks 1 small Volvo 4x4
FRASER MINING	2	1 Lull 644D Forklift 1 Carryall ATV

HOURS INSPECTOR ON JOB SITE: 10:50 a.m. – 5:30 p.m. (6 hrs. 30 min.)

John C. Mulligan III

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 173

CONTRACTOR'S REP.: Greg Hillman **DATE:** 3-15-02, Friday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Clear p.m. P/Cldy.

TEMP. RANGE: 60°- 80°

RAINFALL: 0"

MAJOR DELIVERIES: River Rock

****

WORK PERFORMED:

Handex:

Sandscreens shut down (second sandscreen to be moved today).

Dozer piling sand leftovers at original stockpile behind job trailers.

Pipe crew brick and grout A-2 manhole. – Starting A-3 manhole at 9:15 a.m.

Placing darker material from original stockpile in A-3.

Setting up faster screen at topsoil stockpile (operational at 11:45 a.m.)

Temporary Pump and Controls at New Ash Lift Station.

Comanco:

Loading flatbed with 4 rolls of Claymax and 8 bundles of Gundseal.

Crew prepares liner for CDN SW-2, detailing A-3 east end and placing CDN at east end of SW-2, except at bootless pipe penetration; giving up on repairing bootless pipe penetration.

South End Development:

Hauling sand to A-3 south berm slopes and east end – 1 excavator loading 2-3 off-road trucks. (At 10:00 a.m. no sand hauling, just grading while white excavator is serviced – hauling again at 11:15 a.m.). East flap is folded west.

Fraser Mining:

Preparing to assemble SW-2 leachate header.

Peninsula:

On site at 9:30 a.m. (had to get coordinates from office). At 10:30 a.m., started locating pipe fittings in SW-2 and A-3 for primary leachate pipe. After 12:20 discussion, Jack, Greg and Tim from Peninsula adjust pipe fittings to liner configuration and bollards to detail.

Miscellaneous:

Greg says 6-8 weeks delivery on ball valves will impact road repair.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 173

CONTRACTOR'S REP.: Greg Hillman **DATE:** 3-15-02, Friday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	10	Volvo Water Truck Case 1150G Dozer Case 580L Backhoe Kobelco SK200 Excavator Kobelco SK 160 Excavator 1 Long Stick Excavator 1 Volvo L120 Loader 1 Volvo L90 Loader D6M Dozer 1 Pickup Truck 1 Bobcat Excavator 1 Gator ATV 3" Pump
COMANCO	18	1 John Deere 544H Loader
SOUTH END DEVELOPMENT 1 Volvo Excavator still down	14	2 Volvo EC 36 Excavator 1 Volvo L90C Loader 2 Case Dozers 850 H 1 Hamm 2420 Roller 1 Case 1150 Dozer 2 Volvo 35 Off-Road Dump Truck 2 Volvo CAT 40 Off-Road Dump Trucks 1 small Volvo 4x4
FRASER MINING	2	1 Lull 644D Forklift 1 Carryall ATV
PENINSULA SURVEYING	3	1 Van

HOURS INSPECTOR ON JOB SITE: 7:20 a.m. – 4:10 p.m. (8 hrs. 50 min.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 174

CONTRACTOR'S REP.: Greg Hillman **DATE:** 3-16-02, Saturday

****

VISITORS: _____

WEATHER: a.m. Clear p.m. P/Cldy.

TEMP. RANGE: 68°- 82°

RAINFALL: 0" – hazy early a.m.

MAJOR DELIVERIES: _____

****

WORK PERFORMED:

Handex:

Screening topsoil with one screen and loader.

At 8:00 a.m., James and one day laborer start excavating 2-ft. x 2-ft. ditch in west third of A-3 north half using the Bobcat excavator.

No pipe crew today.

Talk with Greg and Paul about moving 8-in. crosses to line up with leachate lines. Greg says they will not cover 2-ft. x 2-ft. ditch with fabric until Monday, and I tell him I'll inspect it on Monday rather than staying late today.

Setting up faster screen at topsoil stockpile (operational at 11:45 a.m.)

Temporary Pump and Controls at New Ash Lift Station.

Comanco:

Not on site.

South End Development:

Hauling sand to A-3 south berm slopes and east end – 1 excavator loading 2-3 off-road trucks. (Hydraulic problem with one truck.)

Laborers placing thickness tubes in sand – some sand is placed in thin areas indicated by the tubes.

Shutting down at noon except for excavator at the sand stockpile.

Fraser Mining:

Fabricating SW-2 primary leachate header.

Miscellaneous:

I ask Greg to write letter requesting waiver for CO-2 restraint minimums.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 174

CONTRACTOR'S REP.: Greg Hillman **DATE:** 3-16-02, Saturday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	4	Volvo Water Truck Case 1150G Dozer Case 580L Backhoe Kobelco SK200 Excavator Kobelco SK 160 Excavator 1 Long Stick Excavator 1 Volvo L120 Loader 1 Volvo L90 Loader D6M Dozer 1 Pickup Truck 1 Bobcat Excavator 1 Gator ATV 3" Pump
COMANCO	0	1 John Deere 544H Loader
SOUTH END DEVELOPMENT 1 Volvo Excavator still down	14	2 Volvo EC 36 Excavator 1 Volvo L90C Loader 2 Case Dozers 850 H 1 Hamm 2420 Roller (off site @ 11 a.m.) 1 Case 1150 Dozer 2 Volvo 35 Off-Road Dump Truck 2 Volvo CAT 40 Off-Road Dump Trucks 1 small Volvo 4x4
FRASER MINING	2	1 Lull 644D Forklift 1 Carryall ATV

HOURS INSPECTOR ON JOB SITE: 8:00 a.m. – 12:55 a.m. (4 hrs. 55 min.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 176

CONTRACTOR'S REP.: Greg Hillman **DATE:** 3-18-02, Monday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Clear p.m. P/Cldy.

TEMP. RANGE: 64°- 85°

RAINFALL: 0"

MAJOR DELIVERIES: _____

****

WORK PERFORMED:

Handex:

Excavating and screening sand south of SW-2 north of topsoil stockpile.

Dozer shaping sides of pit when not stacking sand west of screen.

Pipe crew participating in Smith Electric's A-2 demolition.

James and laborers dig more leachate trench in A-3 west third and install fabric in trench.

Pipe crew dressing insides of concrete manholes.

Comanco:

Booting liner around secondary cleanouts in SW-2 and deploying CDN in A-3.

Spreader bar departing at 2:00 p.m.

South End Development:

Grading sand in A-3 w/2 dozers and in SW-2 w/1 dozer. Longstick excavator excavating A-2 sump slope area.

Fraser Mining:

SW-2 primary header mostly assembled. Lane Pipe on site for bootless repair. Testing bootless at 3:10 – 4:10 p.m. and then assembling the primary header.

Peninsula:

Placing stakes in A-2 and then in SW-2 for sand as-built.

At the end of the day, locating pipe bend south toe A-3 header (east and north from Lov Sicona).

Miscellaneous:

Smith Electric demonstration A-2, running cable from Ash Lift Station toward Crom tank.

Temporary electric Ash Leachate.

Universal took 2 sand samples in new pile at 2:20 p.m.

Approximately 20 pages of paperwork received today.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 176

CONTRACTOR'S REP.: Greg Hillman **DATE:** 3-18-02, Monday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	10	Volvo Water Truck Case 580L Backhoe Kobelco SK200 Excavator Kobelco SK 160 Excavator 1 Long Stick Excavator 1 Volvo L120 Loader 1 Volvo L90 Loader D6M Dozer 1 Pickup Truck 1 Bobcat Excavator 1 Gator ATV 3" Pump
COMANCO (leaves @ 4:30 pm)	10	1 John Deere 544H Loader
SOUTH END DEVELOPMENT 1 Volvo Excavator still down 4 haul trucks idle	11	2 Volvo EC 36 Excavator 1 Volvo L90C Loader 2 Case Dozers 850 H 1 Case 1150 Dozer 1 Volvo 35 Off-Road Dump Truck 2 Volvo CAT 40 Off-Road Dump Trucks 1 small Volvo 4x4
FRASER MINING	2	1 Lull 644D Forklift 1 Carryall ATV
PENINSULA SURVEYING	3	1 Van
SMITH ELECTRIC	2	1 Truck

HOURS INSPECTOR ON JOB SITE: 9:30 a.m. – 5:00 p.m. (7 hrs. 30 min.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 177

CONTRACTOR'S REP.: Greg Hillman **DATE:** 3-19-02, Tuesday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Hazy p.m. P/Cldy.

TEMP. RANGE: 67°- 87°

RAINFALL: 0"

MAJOR DELIVERIES: _____

****

WORK PERFORMED:

Handex:

Screening yesterday's excavated sand.

Dozer shaping sides of pit when not stacking sand.

Pipe crew continues dressing insides of concrete manholes.

James and 2 laborers working in A-3, dragging perforated pipe across sand to place in fabric trench for leachate collection. (Another discussion with Greg about dragging perforated pipe in sand – he says he will blow it out before T-connections are made.)

Pipe crew installing temporary gate valves in A-2.

Comanco:

Completing CDN in A-3 and installing fabric boots around secondary cleanout pipe in A-3 and SW-2. Also doing fabric repairs in CDN.

Moving sandbags to cell tie-in in both cells, and doing cleanup.

South End Development:

Grading sand in A-3 w/2 dozers and in SW-2 w/1 dozer.

Longstick excavator and Volvo excavator digging in A-2 sump and berm top.

Pumping leachate into existing 4-inch line to existing lift station (at 4:30 p.m. Greg says it is his responsibility if leachate overflows lift station because he leaves pump running unattended).

Loader filling 2 off-road dumptrucks with sand from last week's pile to A-3.

Fraser Mining:

Continue welding SW-2 primary leachate header with 20-ft. stubs to the west.

At 10:30 a.m. moving to A-3.

Miscellaneous:

Universal on site for A-2 pipe backfill densities (not excavated yet).

Greg cancels Comanco for Wednesday (Thursday is the target date).

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 177

CONTRACTOR'S REP.: Greg Hillman **DATE:** 3-19-02, Tuesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	9	Volvo Water Truck (down in the a.m.) Case 580L Backhoe Kobelco SK200 Excavator Kobelco SK 160 Excavator (down or idle) 1 Long Stick Excavator 1 Volvo L120 Loader 1 Volvo L90 Loader D6M Dozer 1 Pickup Truck 1 Bobcat Excavator 1 Gator ATV 3" Pump
COMANCO	8	1 John Deere 544H Loader
SOUTH END DEVELOPMENT 1 Volvo Excavator down in a.m. 2 haul trucks idle 1 dozer idle in a.m. 1 dozer departs at 11:30 a.m.	11	2 Volvo EC 36 Excavator 1 Volvo L90C Loader 2 Case Dozers 850 H 1 Case 1150 Dozer 1 Volvo 35 Off-Road Dump Truck 2 Volvo CAT 40 Off-Road Dump Trucks 1 small Volvo 4x4
FRASER MINING	2	1 Lull 644D Forklift 1 Carryall ATV

HOURS INSPECTOR ON JOB SITE: 7:10 a.m. – 4:45 p.m. (9 hrs. 35 min.)

John C Mudgett III

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 178

CONTRACTOR'S REP.: Greg Hillman **DATE:** 3-20-02, Wednesday

****

VISITORS: Handex Safety Team

WEATHER: a.m. P/Cldy. p.m. P/Cldy.

TEMP. RANGE: 67°- 87°

RAINFALL: 0"

MAJOR DELIVERIES: 7 loads of river rock in the p.m.

****

WORK PERFORMED:

Handex:

Screening starts mid a.m. yesterday's excavated sand.

Loader bringing river rock to long stick ecxcavator at SW-2 primary header.

Dozer shaping daily cover stockpile.

Water trucks filling at metered reclaim hose – some watering at this site and the H.S. site.

Pipe crew dressing outsides of concrete manholes and cutting lifting cables off.

At 11:00 a.m. welding hose fitting to 4-inch pipe so A-2 manholes can be demolished.

James and 2 laborers uncover fabric and CDN, to grout and cover.

Pipe crew installing temporary gate valves in A-2.

Comanco: Not on site

South End Development:

Grading sand in A-3 with 2 dozers.

Volvo excavator digging in A-2 sump and berm.

Pumping leachate into existing 4-inch line to existing lift station. (In the a.m. County asks that Handex turn on the lift station before turning on the pump.)

Excavator loading 4 off-road trucks with sand from this week's pile to A-3 east end. In the p.m., loader loading trucks, and excavator is digging more sand.

Fraser Mining:

Continue welding A-3 primary leachate header with 20-ft. stubs to the west.

Peninsula Surveying:

Working in SW-2 on sand as-builts.

Universal Well Drilling:

Drill wells 4MW 19D and 2MW 20D. (Ron will confirm driveway location with Covanta.)

Miscellaneous:

Greg says tests passed – demolition of manholes in A-2.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex

CONTRACTOR'S REP.: Greg Hillman

REPORT NO.: 178

DATE: 3-20-02, Wednesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	9	Volvo Water Truck Case 580L Backhoe Kobelco SK200 Excavator Kobelco SK 160 Excavator 1 Long Stick Excavator 1 Volvo L120 Loader 1 Volvo L90 Loader D6M Dozer 1 Pickup Truck 1 Bobcat Excavator 1 Gator ATV 3" Pump
COMANCO	0	1 John Deere 544H Loader
SOUTH END DEVELOPMENT	8	2 Volvo EC 36 Excavator 1 Volvo L90C Loader 2 Case Dozers 850 H 1 Case 1150 Dozer 1 Volvo 35 Off-Road Dump Truck 2 Volvo CAT 40 Off-Road Dump Trucks 1 small Volvo 4x4
FRASER MINING	2	1 Lull 644D Forklift 1 Carryall ATV
PENINSULA SURVEYING	3	1 Van
UNIVERSAL WELL DRILLING	4	2 Trucks + Drilling Rig

HOURS INSPECTOR ON JOB SITE: 7:10 a.m. – 4:30 p.m. (9 hrs. 20 min.)

John C. Ellis, III

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 179

CONTRACTOR'S REP.: Don Montgomery **DATE:** 3-21-02, Thursday

****

VISITORS: _____

_____

_____

WEATHER: a.m. M/Cldy. p.m. Cldy.

TEMP. RANGE: 69°- 84°

RAINFALL: 0" - windy

MAJOR DELIVERIES: 3 loads of river rock

****

WORK PERFORMED:

Handex:

Screening sand excavated by Volvo excavator. Excavator loading trucks, loader feeding screen and dozer pushing pile. (Mid a.m., screen down)

James and day laborers placing stone at A-3 header pipe.

At 1:45 p.m. grout for bootless low spots in A03 first, then SW-2, pouring grout through standing water and backfilling with stone after CDN and fabric are in place (per Don Montgomery). Bootless void filled with 2 partial bags of Bentonite Powder. At 5:00 p.m. bootless area is closed up.

Comanco:

Not on site. (Clayton takes a look at the progress in A-2 in the p.m.)

South End Development:

Grading sand in A-3 with 2 dozers.

Volvo excavator digging in A-2 sump and berm.

Pumping leachate to 3-inch connection of existing pipe on slope to existing lift station.

Loader loading 1 off-road truck while excavator is digging sand. Later, excavator is loading trucks.

Fraser Mining:

Installing clean-outs west end of A-2.

Peninsula Surveying:

Off-setting stakes for A-2 sump and staking swales west and south of A-3.

Miscellaneous:

Universal performing densities in A-2, but still excavating, and taking sand sample.

Universal Well Drilling: 2MW/5 – auger needed for gas wells (not on site).

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 179

CONTRACTOR'S REP.: Greg Hillman **DATE:** 3-21-02, Thursday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX No pipe crew	7	Volvo Water Truck (down all day) Case 580L Backhoe Kobelco SK200 Excavator Kobelco SK 160 Excavator 1 Long Stick Excavator 1 Volvo L120 Loader 1 Volvo L90 Loader D6M Dozer 1 Pickup Truck 1 Bobcat Excavator 1 Gator ATV 3" Pump
COMANCO	0	1 John Deere 544H Loader
SOUTH END DEVELOPMENT	8	2 Volvo EC 36 Excavator 1 Volvo L90C Loader 1 Case Dozer 850 H 1 Case 1150 Dozer 1 Volvo 35 Off-Road Dump Truck 2 Volvo CAT 40 Off-Road Dump Trucks
FRASER MINING	2	1 Lull 644D Forklift 1 Carryall ATV
PENINSULA SURVEYING	3	1 Van
UNIVERSAL WELL DRILLING	3	2 Trucks + Drilling Rig

HOURS INSPECTOR ON JOB SITE: 7:05 a.m. – 5:00 p.m. (9 hrs. 55 min.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 180

CONTRACTOR'S REP.: Don Montgomery **DATE:** 3-22-02, Friday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Clear p.m. Clear

TEMP. RANGE: 60°- 76°

RAINFALL: 0" - breezy

MAJOR DELIVERIES: River rock loads

****

WORK PERFORMED:

Handex:

Screening sand excavated yesterday. Loader feeding screen, dozer pushing pile. Mid a.m., screen shuts down, and dozer operator uses loader to place stone.

James and day laborers placing stone in A-3 leachate collection trench west third. James splitting time between aligning holes in pipe and digging trench in middle third of A-3.

Water truck on the roads at 11:00 a.m.

Late a.m., screen running again, completing screening of excavated material at 4:00 p.m.

At 4:30 p.m., long stick excavator digging sand for loader.

Don Montgomery working intermittently with South End at A-2 sump area.

Comanco:

Not on site.

South End Development:

Grading sand in A-3 and SW-2 with one dozer in each cell.

Excavator loading 1 off-road dump truck hauling to either cell as needed. Mid a.m., long stick excavator to A-2 sump, and Volvo excavator is digging sand for sand screening.

Fraser Mining:

Waiting for trench to weld more pipe in place.

Don asks Fraser to cut and reweld pipe rather than twist it back in position. – At 4:30 p.m. south line was cut and rewelded, and at 5:00 p.m. same procedure further east.

Peninsula Surveying:

Off-setting stakes for A-2 sump and staking swales west and south of A-3.

Miscellaneous:

Universal taking sand sample at 3:45 p.m.

Universal Well Drilling moves to GMW5 in a.m., then to GMW6.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 180

CONTRACTOR'S REP.: Greg Hillman **DATE:** 3-22-02, Friday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX Original (idle) screen being attached to trucks to depart	7	Volvo Water Truck Case 580L Backhoe 1 Long Stick Excavator 1 Volvo L120 Loader 1 Volvo L90 Loader D6M Dozer 1 Pickup Truck 1 Bobcat Excavator 1 Gator ATV 3" Pump
COMANCO	0	
SOUTH END DEVELOPMENT	8	2 Volvo EC 36 Excavator (1 departs 9:30 am) 1 Volvo L90C Loader 1 Case Dozer 850 H 1 Case 1150 Dozer 1 Volvo 35 Off-Road Dump Truck 1 Volvo CAT 40 Off-Road Dump Trucks
FRASER MINING	2	1 Lull 644D Forklift 1 Carryall ATV
UNIVERSAL WELL DRILLING	3	2 Trucks + Drilling Rig

HOURS INSPECTOR ON JOB SITE: 7:20 a.m. – 4:55 p.m. (9 hrs. 35 min.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 181

CONTRACTOR'S REP.: Don Montgomery **DATE:** 3-23-02, Saturday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Clear p.m. P/Cldy.

TEMP. RANGE: 52°- 77°

RAINFALL: 0"

MAJOR DELIVERIES: _____

****

WORK PERFORMED:

Handex:

Sand screen is idle, and dozer is grading around screen area.
James continues to dig leachate collection trench in A-3.
Loader operator finishing stone placement in west third of A-3.
Don Montgomery has long stick excavator in A-2 trying to clean out sand and stone in sump area.
At 1:30 p.m., dragging perforated pipe through sand to middle third of A-3.
Using 65 oz. fabric in leachate collection trench per Friday conversation with Abdul.
In the p.m., long stick excavator in screen area (backfilling?).

Comanco:

Not on site.

South End Development:

Not on site.

Fraser Mining:

Waiting for Handex to place pipe in A-3.
At 1:45 pipe is being set in place.
(Waiting with fusion coupling).

Miscellaneous:

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 181

CONTRACTOR'S REP.: Don Montgomery **DATE:** 3-23-02, Saturday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	4	Volvo Water Truck Case 580L Backhoe 1 Long Stick Excavator 1 Volvo L120 Loader 1 Volvo L90 Loader D6M Dozer 1 Pickup Truck 1 Bobcat Excavator 1 Gator ATV 3" Pump
COMANCO	0	
SOUTH END DEVELOPMENT	0	2 Volvo EC 36 Excavator 1 Volvo L90C Loader 1 Case Dozer 850 H 1 Case 1150 Dozer 1 Volvo 35 Off-Road Dump Truck 1 Volvo CAT 40 Off-Road Dump Trucks
FRASER MINING	2	1 Lull 644D Forklift 1 Carryall ATV

HOURS INSPECTOR ON JOB SITE: 7:20 a.m. – 2:00 p.m. (6 hrs. 40 min.)

John C. McHugh III

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 183

CONTRACTOR'S REP.: Don Montgomery **DATE:** 3-25-02, Monday

****

VISITORS: _____

_____

_____

WEATHER: a.m. P/Cldy p.m. Cldy.

TEMP. RANGE: 66°- 80°

RAINFALL: 0.2" in the p.m.

MAJOR DELIVERIES: Saureisen Products (3-Part Mixture) arrives on semi-truck.

****

WORK PERFORMED:

Handex:

Dozer shaping topsoil stockpile.

Loader and backhoe placing stone in leachate collection wrap west third south run (a.m.).

Placing stone in middle third north run (late a.m.).

Bobcat excavator excavating east third north run.

I inform Don that A-2 pipes do not have design fall – surveyors to get inverts. Andy questions inverts MM A2 (less fall than drawing).

At 5:10 p.m. CDN fabric (east third north run) checked, and crew deploys textile.

Inducon Corp.:

Power-wash ash manholes and lift station and begin Sauereisen coating of ash lift station.

South End Development:

One dozer pushing screened excess sand out of southeast corner of SW-2.

One dozer shaping sand east third of A-3 and later digging swales south and west A-3.

Mid a.m., long stick excavator on A-2 slope, and Volvo excavator digging in sump A-2.

In the p.m. loader moving excess sand from SW-2 southeast corner back to stockpile.

Fraser Mining:

Cutting/twisting leachate pipe west third of A-3 south line and cutting/twisting pipe in 3 locations middle third north run (mid a.m.). Moving to south run middle third (p.m.).

Peninsula Surveying:

Lay-out swale south of A-3. Checking A-2 invert metering manholes to sump.

Universal Well Drilling:

Placing concrete around completed wells.

Miscellaneous:

Discussed temporary repairs of damaged secondary liner with Don.

Contractor placed and welded 2nd pipe middle third of A-3 on Sunday (no notice given)!

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 183

CONTRACTOR'S REP.: Don Montgomery **DATE:** 3-25-02, Monday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	7	Volvo Water Truck Case 580L Backhoe 1 Long Stick Excavator 1 Volvo L120 Loader 1 Volvo L90 Loader D6M Dozer 1 Pickup Truck 1 Bobcat Excavator 1 Gator ATV 3-in. Pump
COMANCO	0	
SOUTH END DEVELOPMENT	8	1 Volvo EC 36 Excavator 1 Volvo L90C Loader 1 Case Dozer 850 H 1 Case 1150 Dozer 1 Volvo 35 Off-Road Dump Truck 1 Volvo CAT 40 Off-Road Dump Trucks
FRASER MINING	2	1 Lull 644D Forklift 1 Carryall ATV
UNIVERSAL WELL DRILLING	0	Drill Rig (idle at 4 MW 19D)
PENINSULA	3	1 Van
INDUCON CORPORATION	4	2 Vans + Equipment

HOURS INSPECTOR ON JOB SITE: 7:00 a.m. – 5:20 p.m. (10 hrs. 20 min.)

John C. Mr. Ly III

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 184

CONTRACTOR'S REP.: Greg Hillman **DATE:** 3-26-02, Tuesday

****

VISITORS: _____

WEATHER: a.m. M/Cldy p.m. P/Cldy.

TEMP. RANGE: 68°- 82°

RAINFALL: 0" (fog in the a.m.)

MAJOR DELIVERIES: _____

****

WORK PERFORMED:

Handex:

Dozer finish grading stockpile/laydown yard area.

James and laborer placing pipe in east third north run of A-3.

Some pumping and cleaning of liner in A-2.

Bobcat excavator digging east third south run of A-3, and the north run (in the p.m.) after pipe has been placed, welded, and rocked.

In the p.m., trying to recover pipe used to blow out debris in today's pipe in A-3.

Disassembling 2nd screen and moving it to road for pickup.

Inducon Corp.:

Continuing and completing Sauereisen 210 coating in ash lift station and A-2 and A-3 manholes.

Comanco:

Doing repairs on CDN fabric in A-3 and on liner in A-2 sump area slopes.

South End Development:

Cleaning up and exposing liner in A2 sump.

Loader moving sand from SW-2 to stockpile, then to west slope.

Dozer grading sand to 24-in. on SW corner and west slope and (late a.m.) south slope. In the p.m., dozer grading sand in A-3 east end.

Fraser Mining:

Waiting for Handex to place pipe, and then cutting/twisting pipe in east third of A-3.

Universal Well Drilling:

On site mid a.m. – Greg brings water truck to drill rig at 4MW 19D.

Miscellaneous:

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 184

CONTRACTOR'S REP.: Greg Hillman **DATE:** 3-26-02, Tuesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	7	Volvo Water Truck Case 580L Backhoe 1 Long Stick Excavator 1 Volvo L120 Loader 1 Volvo L90 Loader D6M Dozer 1 Pickup Truck 1 Bobcat Excavator 1 Gator ATV 3-in. Pump
COMANCO	3	
SOUTH END DEVELOPMENT	9	1 Volvo EC 36 Excavator 1 Volvo L90C Loader 1 Case Dozer 850 H 1 Case 1150 Dozer 1 Volvo 35 Off-Road Dump Truck
FRASER MINING	2	1 Lull 644D Forklift 1 Carryall ATV
UNIVERSAL WELL DRILLING	2	Drill Rig (idle at 4 MW 19D)
INDUCON CORPORATION	4	2 Vans + Equipment

HOURS INSPECTOR ON JOB SITE: 7:15 a.m. – 4:45 p.m. (9 hrs. 30 min.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 185

CONTRACTOR'S REP.: Greg Hillman **DATE:** 3-27-02, Wednesday

****

VISITORS: _____

_____

_____

WEATHER: a.m. P/Cldy p.m. P/Cldy.

TEMP. RANGE: 68°- 84°

RAINFALL: 0"

MAJOR DELIVERIES: Threaded HDPE pipe fittings for interim flap tees

****

WORK PERFORMED:

Handex:

Dozer finish grading haul route and A-2 slope areas.
James and laborer using pipe and compressor to blow out perforated leachate pipe in A-3, starting with middle third north run. James "group" placing pipe in east third south run, blowing out line, and placing stone. At 11:30 a.m., James takes Bobcat Excavator to SW-2. Pipe blowouts and stone placement continues. All 6 pipe sections blown at in A-3.

Inducon Corp.:

Spark-testing Sauereisen coating in lift station and A-2 and A-3 manholes.
Repairing leaks and departing around noon.

Comanco:

Welding rain flap to primary liner around sump. Liner opening postponed until tomorrow.

South End Development:

Grading sand in east third of A-3.
Pumping leachate and opening liner in A-2 sump.
At 9:25 a.m. one off road dump truck returns from H.S. site to haul sand to A-3 east end.

Fraser Mining:

Welding east third of A-3 north run to header, cutting/twisting south run and welding south run to header.

Peninsula Surveying:

Surveying A-3 leachate pipe runs and stone thickness.
Tim questions how to as-built HDPE pipe now wrapped in stone and fabric and covered in some sand (referred to Greg).

Miscellaneous:

Teco Peoples Gas on site – saying the gas line by A-3 is not theirs.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 185

CONTRACTOR'S REP.: Greg Hillman **DATE:** 3-27-02, Wednesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (4 day laborers)	8	Volvo Water Truck Case 580L Backhoe 1 Long Stick Excavator 1 Volvo L120 Loader 1 Volvo L90 Loader D6M Dozer 1 Pickup Truck 1 Bobcat Excavator 1 Gator ATV 3-in. Pump
COMANCO	3	
SOUTH END DEVELOPMENT	7	1 Volvo EC 36 Excavator 1 Volvo L90C Loader 1 Case Dozer 850 H 1 Case 1150 Dozer 2 Volvo 35 Off-Road Dump Truck
FRASER MINING	2	1 Lull 644D Forklift 1 Carryall ATV
INDUCON CORPORATION	1	2 Vans + Equipment
PENINSULA	2	1 Van

HOURS INSPECTOR ON JOB SITE: 7:08 a.m. – 4:40 p.m. (9 hrs. 30 min.)

John C Mulloy III

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 186

CONTRACTOR'S REP.: Greg Hillman **DATE:** 3-28-02, Thursday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Clear p.m. Clear

TEMP. RANGE: 60°- 82°

RAINFALL: 0"

MAJOR DELIVERIES: _____

****

WORK PERFORMED:

Handex:

Dozer, rubber-tire hoe, and bobcat excavator in SW-2 trying to dig leachate trenches

Completed fabric, stone and sand placement around leachate collection pipe. (Discussion with Greg about the change in A-3 south swale shape – Jack to provide approved sketch).

After 11:30 a.m. discussion on clay liner A-2 berm, Jack provides note on drawing to use Bentomat ST in lieu of clay liner.

At 4:00 p.m., pouring concrete primary bootless pipe – completed at 6:00 p.m.

At 7:10 p.m., roller working on backfill.

Comanco:

Attaching bolts to flatstock bootless pipe penetrations (6% moisture, no water added).

Clayton orders Bentomat ST, and crew begins repairs of sump floor at 12:50 p.m.

South End Development:

Pumping down A-2 sump.

Hauling sand to A-3, and grading sand in east A-3.

Excavating for A-2 pipe placement after liner is folded back.

At 6:30 p.m., both pipes are in place in A-2. Checking grade on pipes and backfilling.

Fraser Mining:

Welding tee and threaded couplings to interim flap pipe and leachate collection pipe.

Cutting and welding south pipe for A-2 bootless.

Miscellaneous:

Universal taking densities on backfill in the a.m.

9:30-11:00 a.m. locating gas line elevations in A-3 south swale with Don from Florida Gas Transmission.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 186

CONTRACTOR'S REP.: Greg Hillman **DATE:** 3-28-02, Thursday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	9	Volvo Water Truck Case 580L Backhoe 1 Long Stick Excavator 1 Volvo L120 Loader 1 Volvo L90 Loader D6M Dozer 1 Pickup Truck 1 Bobcat Excavator 1 Gator ATV 3-in. Pump
COMANCO	3	
SOUTH END DEVELOPMENT	5	1 Volvo EC 36 Excavator 1 Volvo L90C Loader 1 Case Dozer 850 H 1 Case 1150 Dozer 2 Volvo 35 Off-Road Dump Truck
FRASER MINING	2	1 Lull 644D Forklift 1 Carryall ATV

HOURS INSPECTOR ON JOB SITE: 7:10 a.m. – 8:45 p.m. (12 hrs. 35 min.)

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 187

CONTRACTOR'S REP.: Greg Hillman **DATE:** 3-29-02, Friday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Clear p.m. Clear

TEMP. RANGE: 64°- 83°

RAINFALL: 0"

MAJOR DELIVERIES: _____

****

WORK PERFORMED:

Handex:

Part of crew working at A-2 sump and berm, and part of crew working in SW-2 north leachate run.

By 10:00 a.m., the entire crew is working in SW-2, except for dozer grading sand in A-3.

Comanco:

Cleaning concrete off flatstock and bolts.

As slope is shaped, crew pulls existing GCL back in place, then in lower liner section.

Batten secondary bootless liner in place and then primary.

South End Development:

Excavating to pipe under road and backfilling A-2 cell berm.

One loader filling one off-road dump truck at sand stockpile, hauling to A-3, and grading sand in A-3.

At 11:00 a.m. Jack and Kevin do thickness checks on A-3 slopes, and Kevin is grading to correct thickness.

Using Handex water truck for some spraying on A-3 side slope and at H.S. site.

Fraser Mining:

Setting up bootless test for A-2. Secondary passes at 9:15 a.m. Primary fails by 9:50 a.m.

Discussion with Abdul and then with Greg about doing a pipe boot and skirt over failed bootless.

In the p.m., crew is cutting and twisting SW-2 pipe in trench.

Miscellaneous:

Universal on site doing densities.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 187

CONTRACTOR'S REP.: Greg Hillman **DATE:** 3-29-02, Friday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	9	Volvo Water Truck Case 580L Backhoe 1 Long Stick Excavator 1 Volvo L120 Loader 1 Volvo L90 Loader D6M Dozer 1 Pickup Truck 1 Bobcat Excavator 1 Gator ATV 3-in. Pump
COMANCO	5	
SOUTH END DEVELOPMENT	5	1 Volvo EC 36 Excavator 1 Volvo L90C Loader 1 Case Dozer 850 H 1 Case 1150 Dozer 1 Volvo 35 Off-Road Dump Truck 1 Volvo 40 Off-Road Dump Truck
FRASER MINING	2	1 Lull 644D Forklift 1 Carryall ATV

HOURS INSPECTOR ON JOB SITE: 7:20 a.m. – 4:50 p.m. (9 hrs. 30 min.)

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 188

CONTRACTOR'S REP.: Greg Hillman **DATE:** 3-30-02, Saturday

****

VISITORS: _____

WEATHER: a.m. Clear p.m. _____

TEMP. RANGE: 70°- °

RAINFALL: 0"

MAJOR DELIVERIES: _____

****

WORK PERFORMED:

Handex:

Crew and equipment working west in SW-2 north leachate run middle third.
Bobcat excavator digging ditch in wet sand. Sides slumping in. 4 laborers digging out sluffing sand, and ditch gets wider.
Pump keeps sucking air and losing prime.
Discussion with Greg about maintaining the same volume of gravel around pipe.
Greg says they cannot blow out pipes with air – they will jet them (same contractor as camera).

Comanco:

Not on site.

South End Development:

Long stick excavator and laborers sifting through excavated material in A-2 sump area, loading into off-road dump truck and hauling to SW-1. (Greg says he talked to Ron yesterday.) I inform greg that clean sand needs to be placed in sump.
Handex water truck doing some watering on A-3 side slope and then at H.S. site.
Dozer grading outside slope.

Fraser Mining:

Cutting and twisting leachate line SW-2 east third north run.
Installing tees and electrofusion working west with pipe placement.

Miscellaneous:

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 188

CONTRACTOR'S REP.: Greg Hillman **DATE:** 3-30-02, Saturday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX	8	Volvo Water Truck Case 580L Backhoe 1 Long Stick Excavator 1 Volvo L120 Loader 1 Volvo L90 Loader D6M Dozer 1 Pickup Truck 1 Bobcat Excavator 1 Gator ATV 3-in. Pump
COMANCO	0	
SOUTH END DEVELOPMENT (only 2 on Handex Daily)	6 (?)	1 Volvo EC 36 Excavator 1 Volvo L90C Loader 1 Case Dozer 850 H 1 Case 1150 Dozer 1 Volvo 35 Off-Road Dump Truck 1 Volvo 40 Off-Road Dump Truck
FRASER MINING	2	1 Lull 644D Forklift 1 Carryall ATV

HOURS INSPECTOR ON JOB SITE: 7:45 a.m. – 10:15 a.m. (2 hrs. 30 min.)

John C. McGee III

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 191

CONTRACTOR'S REP.: Greg Hillman **DATE:** 4-02-02,Tuesday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Cldy. p.m. Cldy.

TEMP. RANGE: 67°- 85°

RAINFALL: .0"ovrnt 4:20 sprinkle

MAJOR DELIVERIES: Stone starts arriving again, 6 loads?

****

WORK PERFORMED:

Handex:

Handex digging in sand for leachate collection south run, working west in middle 1/3 SW2. Part of crew pulls primary liner back into place with Comanco, then placing double fabric in A2 sump. PM pipe crew opens valve to A2 and gravity drainage begins. PM setting SW2 manhole, excavated but not set. Stone placed in middle 1/3, place pipe west 1/3, remove pipe east 1/3 to correct path.

South End Development:

Grading sand in A3, loader hauling sand cut from sump end of A3 to west end. Late AM and PM dozer and grader shaping south swale, Florida Gas Transmission rep on site mid PM..

Comanco:

Welding cap strip on slope A2, after primary liner folded back. Handex places double fabric over sump stone. Comanco truck removes one roll of liner, spreader bar. CDN in box truck, 21 rolls?

Fraser Mining: SW2, cut and twist holes down south run, east end working west, installing tees at rain flaps.

Peninsula Survey: As-builts sand thickness A3

Miscellaneous: _____

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 191

CONTRACTOR'S REP.: Greg Hillman **DATE:** 4-02-02, Tuesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 4 day laborers)	11	Volvo Water Truck ,HS site for SouthEnd Cat D6 Dozer Case 580L Backhoe Long stick excavator 1 Volvo L120 Loader 1 Pickup Truck 1 Bobcat excavator 1 Gator ATV 3-in. Pump
FRASER	2	1 Lull 644D Forklift, 1 carryall ATV
COMANCO	3	
SOUTH END DEVELOPMENT	3	Volvo loader L90, LC 36 Excavator Case 850 H dozer , 1150 dozer Volvo 35 and 40 off road dump trucks
Peninsula	3	Van

HOURS INSPECTOR ON JOB SITE: 7:05 4:45

John C Mullen III
Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 192

CONTRACTOR'S REP.: Greg Hillman **DATE:** 4-03-02,Wednesday

****

VISITORS: Monthly Progress Meeting

WEATHER: a.m. M/Cldy. p.m. Cldy.

TEMP. RANGE: 68°- 85°

RAINFALL: .0"ovrnt 10:00 rain, .75" today

MAJOR DELIVERIES: Stone arriving, 8 loads?

****

WORK PERFORMED:

Handex:

Handex digging in sand for leachate collection south run, east 1/3 SW2, after backfilling crooked original cut. Pumping leachate A2 sump, and start placing fabric in sump. Rain stops fabric placement. Handex doing clean up of A2 sump area.

South End Development:

Loader and dozer cutting excess soil south swale, loading 1 off road truck, dumping at A2 metering manhole area, some to west of swale. Finish grading sand in A3, spot holes to check thickness.

Comanco:

Continues primary liner in A2 sump upper east and south, 0930 welding complete, vacuum box. Northeast corner of A3 replacement of CDN completed.

Fraser Mining: SW2, cut and twist holes down south run, working west, installing tees at rain flaps.

Peninsula Survey: Stake out east swale A3, then rained out.

Miscellaneous:

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 192

CONTRACTOR'S REP.: Greg Hillman **DATE:** 4-03-02, Wednesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 3 day laborers)	10	Volvo Water Truck ,HS site for SouthEnd Cat D6 Dozer Case 580L Backhoe Long stick excavator 1 Volvo L120 Loader 1 Pickup Truck 1 Bobcat excavator 1 Gator ATV 3-in. Pump
FRASER	2	1 Lull 644D Forklift, 1 carryall ATV
COMANCO	3	
SOUTH END DEVELOPMENT	3	Volvo loader L90, LC 36 Excavator Case 850 H dozer , 1150 dozer Volvo 35 and 40 off road dump trucks
Peninsula	3	Van

HOURS INSPECTOR ON JOB SITE: 7:05 5:10

John C Mc Ay III
Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 193

CONTRACTOR'S REP.: Greg Hillman **DATE:** 4-04-02,Thursday

****

VISITORS: _____

_____

_____

WEATHER: a.m. M/Cldy. p.m. M/ Cldy.

TEMP. RANGE: 60°- 80°

RAINFALL: .5" late and ovrnt

MAJOR DELIVERIES: Stone arriving, 1 load ?

****

WORK PERFORMED:

Handex:

Grading fill dumped at A2 top of berm by South End. Pumping A2 sump, and after clean up placing double layer of fabric on primary liner. River rock is placed on fabric, then another double layer of fabric on top, except where broken "T" needs to be replaced. Handex dozer dressing existing topsoil west of A3. Greg suggests replacing sand on A2 sump is an extra, I state I don't think so, and since I allowed some of the existing river rock to stay, I will not even consider it to be an extra. I inform Greg he can use some of the old sand around the outsides of the 30' x 30' sump, he says no he will put new sand on the whole thing. New sand is placed on the new fabric in A2 sump.

South End Development:

Loader cutting excess soil A3 east swale, loading 2 off road trucks, dumping at A2 berm, and common fill stockpile.

Fraser Mining: Paul gives out copies of linear footage of solid and perforated pipe, goes to the motel to pack, then picks up the trailer and departs site.

Peninsula Survey: Complet stake out east swale A3, then east swale SW2.

Miscellaneous: Late PM conversations with Don Montgomery concerning 5% retainage, and placing restraints on reclaim line, Lou to fax calculations on 10" reclaim line. AM 3" pump in SW2, PM 4" pump meter manhole to basin won't hold prime.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 193

CONTRACTOR'S REP.: Greg Hillman **DATE:** 4-04-02, Thursday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 3 day laborers)	8	Volvo Water Truck ,HS site for SouthEnd Cat D6 Dozer Case 580L Backhoe Long stick excavator 1 Volvo L120 Loader 1 Pickup Truck 1 Bobcat excavator 1 Gator ATV 3-in. Pump
FRASER depart site	2	1 Lull 644D Forklift, 1 carryall ATV
COMANCO		ATV departs
SOUTH END DEVELOPMENT	4	Volvo loader L90, LC 36 Excavator Case 850 H dozer , 1150 dozer Volvo 35 and 40 off road dump trucks
Peninsula	3	Van

HOURS INSPECTOR ON JOB SITE: 7:05 4:25

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 194

CONTRACTOR'S REP.: Greg Hillman **DATE:** 4-05-02,Friday

****

VISITORS: _____

_____

_____

WEATHER: a.m. P/Cldy. p.m. Clr.

TEMP. RANGE: 64°- 80°

RAINFALL: 0" ovrnt

MAJOR DELIVERIES: _____

****

WORK PERFORMED:

Handex:

Digging in sand for leachate collection south run east 1/3 after pumping water out of the cell, liner bucket protector replaced again. Approximately 10:00 pipe crew starts to install "T" in A2 sump north side, existing header. Dozer finish grades sand after stone wrap is complete in A2 sump area. PM pipe crew to SW2 manhole to open valves, pump out lift station, then fusion weld last weld of SW2 south run east 1/3. Late PM loader placing stone south run east 1/3. Brick in SW lift station.

South End Development:

Shaping soil A3 east swale: loader, grader, dozer, 1 off road truck on site today. Long stick excavator placing old sand on slopes around A2 sump, dozer grading A2 slope at 0800. Late AM and PM loader and off road dump excavating SW2 swale southeast corner and work east.

Fraser Mining: departs site at 11:30 for Texas.

Peninsula Survey: No work

Universal: Tech does berm and anchor trench densities until 09:50. Drilling tech on site 3:00 developing 3 monitoring wells.

Miscellaneous: Conversations with Don Montgomery concerning Peninsula letter stating 108,555 square yards of sand surface, and dates of service on invoice with reason survey is included in testing. Greg says crew will be placing restraints on reclaim line on Sunday and leaving it exposed to Monday for as-builting and inspection. Bituminous coating will also be done. 63 pages of Universal test results are received today.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 194

CONTRACTOR'S REP.: Greg Hillman **DATE:** 4-05-02, Friday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 3 day laborers)	10	Volvo Water Truck , getting exhaust repair. Cat D6 Dozer Case 580L Backhoe Long stick excavator 1 Volvo L120 Loader 1 Pickup Truck 1 Bobcat excavator 1 Gator ATV 3-in. Pump
FRASER depart site		1 Lull 644D Forklift, 1 carryall ATV
Universal	1	truck
SOUTH END DEVELOPMENT	3	Volvo loader L90, LC 36 Excavator Case 850 H dozer , 1150 dozer Volvo 35 off road dump
Peninsula		Van

HOURS INSPECTOR ON JOB SITE: 7:15 4:50

John C Mahaffey III
Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 195

CONTRACTOR'S REP.: Greg Hillman **DATE:** 4-06-02,Saturday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Clr. p.m. P/Cldy.

TEMP. RANGE: 56°- 78°

RAINFALL: 0" ovrnt

MAJOR DELIVERIES: _____

****

WORK PERFORMED:

Handex:

Crew in SW2 complete stone and fabric south run leachate collection trench. Dozer grading sand in west 1/3 of SW2, later east 1/3. 0830 James and rubber tire hoe with laborers start digging 2 ½" reclaim laterals first north of job trailer, then 0945 south of trailer, then at A1. Loader moving excess river rock to pavement northwest of SW1. Discuss with Greg that the east 1/3 of the south swale of A3 appears to be choked, Greg gets on the dozer to correct it.

South End Development:

Shaping soil A3 east swale: loader, grader, dozer, 1 off road truck on site today. Long stick excavator placing old sand on slopes around A2 sump, dozer grading A2 slope at 0800. Late AM and PM loader and off road dump excavating SW2 swale southeast corner and work east.

Peninsula Survey: No work

Miscellaneous: _____

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 195

CONTRACTOR'S REP.: Greg Hillman **DATE:** 4-06-02, Saturday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 3 day laborers)	7	Volvo Water Truck , running at HS site Cat D6 Dozer Case 580L Backhoe Long stick excavator 1 Volvo L120 Loader 1 Pickup Truck 1 Bobcat excavator 1 Gator ATV 3-in. Pump
FRASER		1 Lull 644D Forklift, 1 carryall ATV
Universal		
SOUTH END DEVELOPMENT	4	Volvo loader L90, LC 36 Excavator Case 850 H dozer , 1150 dozer Volvo 35 off road dump
Peninsula		Van

HOURS INSPECTOR ON JOB SITE: 7:05 1:20 no lunch

John Chr. Hyl III
Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 197

CONTRACTOR'S REP.: Greg Hillman **DATE:** 4-08-02,Monday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Hzy,windy . p.m. P/Cldy.

TEMP. RANGE: 58°- 85°

RAINFALL: 0" ovrnt

MAJOR DELIVERIES: _____

****

WORK PERFORMED:

Handex:

Crew continues adding restraints to reclaim line, started on Sunday. James and 2 laborers adding restraints from north end working south. Dozer finish grading east of A3 working south. David and one laborer placing tubes in SW2 for pipe and stone elevations.

South End Development:

Cutting east swale of SW2 and south swale with dozer. Loader and grader working south swale A3, grader cutting bottleneck, loader placing cut topsoil further west(raising grade?). Water truck at HS site but makes one pass of road crossings.

Peninsula Survey: SW2 surveying sand thickness, pipe elevations, and stone thickness.

Miscellaneous: _____

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 197

CONTRACTOR'S REP.: Greg Hillman **DATE:** 4-08-02, Monday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 3 day laborers)	8	Volvo Water Truck , running at HS site Cat D6 Dozer Case 580L Backhoe Long stick excavator 1 Volvo L120 Loader 1 Pickup Truck 1 Bobcat excavator depart site AM 1 Gator ATV 3-in. Pump
Universal		
SOUTH END DEVELOPMENT	3	Volvo loader L90 Case 850 H dozer Grader
Peninsula	3	Van

HOURS INSPECTOR ON JOB SITE: 7:15 3:55

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 198

CONTRACTOR'S REP.: Greg Hillman **DATE:** 4-09-02,Tuesday

****

VISITORS: _____

_____

_____

WEATHER: a.m. ovrcst . p.m. P/Cldy.

TEMP. RANGE: 62°- 85°

RAINFALL: 0" ovrnt

MAJOR DELIVERIES: concrete posts for hose bollards

****

WORK PERFORMED:

Handex:

Crew dresses road cuts, then continues adding restraints to reclaim line, starts bituminous coatings on restraints at 11:00. Dozer finish grading A3 swales

South End Development:

Water truck at HS site after it makes one pass of roads.

Peninsula Survey: No work.

Miscellaneous:

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 198

CONTRACTOR'S REP.: Greg Hillman **DATE:** 4-09-02, Tuesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 3 day laborers)	8	Volvo Water Truck , running at HS site Cat D6 Dozer Case 580L Backhoe Long stick excavator off rent today 1 Volvo L120 Loader 1 Pickup Truck 1 Bobcat post hole digger arrives 1 Gator ATV 3-in. Pump
Universal		
SOUTH END DEVELOPMENT	1	Volvo loader L90 Demob last night
Peninsula		Van

HOURS INSPECTOR ON JOB SITE: 7:05 3:35

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 199

CONTRACTOR'S REP.: Greg Hillman **DATE:** 4-10-02,Wednesday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Cldy . p.m. Cldy.

TEMP. RANGE: 68°- 86°

RAINFALL: 0" ovrnt

MAJOR DELIVERIES: _____

****

WORK PERFORMED:

Handex:

Crew installing bollards around wells. Installing 1" copper riser and 1" gate valves at wash down stations. Dozer is shaping swales east SW2 to SW1. Valve box extensions are being installed. 11:15 Greg asks that I not talk to Jet Clean crew, he says he is paying them by the hour, I inform him they have not stopped working. 11:25 I call Greg and ask why Hector is reshaping the SW2 south swale from the flat bottom that is in the drawing, he says it is not done yet don't get excited. PM loader is placing fill on slope near cleanout across from A1.

South End Development:

No work.

Florida Jet Clean: 0830 on site and video the west 350' of south run of A3, some sand is in the pipe. Greg says to jet out the sand so there is no question on the videotape. The crew spends the rest of the day jetting and videotaping A3.

Peninsula Survey: No work.

Miscellaneous: _____

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 199

CONTRACTOR'S REP.: Greg Hillman **DATE:** 4-10-02, Wednesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 2 day laborers)	6	Volvo Water Truck , running at HS site Cat D6 Dozer Case 580L Backhoe 1 Volvo L120 Loader 1 Pickup Truck 1 Bobcat post hole digger 1 Gator ATV 3-in. Pump
Florida Jet Clean	2	Pickup truck and van
Universal		
SOUTH END DEVELOPMENT		Volvo
Peninsula		Van

HOURS INSPECTOR ON JOB SITE: 7:15 3:45

John C Van Hyfte III
Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 200

CONTRACTOR'S REP.: Greg Hillman **DATE:** 4-11-02,Thursday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Cldy . p.m. Cldy.

TEMP. RANGE: 68°- 86°

RAINFALL: 0" ovrnt

MAJOR DELIVERIES: _____

****

WORK PERFORMED:

Handex:

Dozer grading swale west of SW2. Crew starts ERCP at A3 ramp, loader staging RCP. Late AM the dozer is in the cell SW2 with surveyors making sand corrections. PM removing brush and backfilling in the reclaim tap area. PM dozer cutting RCP area at SW2. 3:50 A3 ERCP complete, excavator walking to SW2, SW2 to be done tomorrow.

South End Development:

Excavator and operator with Handex ERCP crew.

Florida Jet Clean: No work.

Peninsula Survey: 0830 to finish as-built in SW2.

Miscellaneous: 0900 Ron, Jack, and Greg look at Grassing and flaps. Only Jack writing anything down.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 200

CONTRACTOR'S REP.: Greg Hillman **DATE:** 4-11-02, Thursday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 2 day laborers)	6	Volvo Water Truck , running at HS site Cat D6 Dozer Case 580L Backhoe 1 Volvo L120 Loader 1 Pickup Truck 1 Bobcat post hole digger 1 Gator ATV 3-in. Pump
Florida Jet Clean		Pickup truck and van
Universal		
SOUTH END DEVELOPMENT	1	Volvo EC 36 excavator
Peninsula	3	Van

HOURS INSPECTOR ON JOB SITE: 7:10 4:00

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 204

CONTRACTOR'S REP.: James Burson **DATE:** 4-15-02,Monday

****

VISITORS: _____

_____

_____

WEATHER: a.m. P/Cldy . p.m. M/Cldy.

TEMP. RANGE: 60°- 85°

RAINFALL: 2" Fri. night, 2:30 trace

MAJOR DELIVERIES: _____

****

WORK PERFORMED:

Handex:

Dozer grading swale south of A3. Part of crew cleaning up and placing rain diversion flap north edge of A3 sand layer. PM north edge of SW2 sand, adding sand under flap in low spots. Late AM exposed one sand infiltration into rock SW2 north pipe run. It is covered with fabric, Greg to look at it tomorrow. Pipe crew places stone for SW2 concrete manhole base after pumping water all morning. Base plus one section placed. Late PM Hector grading A3 east swale.

South End Development:

No work.

Florida Jet Clean: Video SW2 north run, blockage in west 1/3, middle OK. South run middle and west OK, then video east 1/3 from the west OK. Move to the east end and rain starts..

Peninsula Survey: Shoot some shots in SW2 for Handex, then move back to A3to as-built top of berm and ditch. 11:45 survey as-builting shows no fall from northwest corner to southwest corner area. 11:30 discussion with Hector, James, surveyors, and Jack in southwest corner of A3, contour 49/point 48.5, and gas line is closer than thought.

Miscellaneous: John Power asks if RCP ramp crossings can be lengthened SW2, maybe A3.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 204

CONTRACTOR'S REP.: James Burson **DATE:** 4-15-02, Monday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 3 day laborers)	8	Volvo Water Truck , Cat D6 Dozer Case 580L Backhoe 1 Volvo L120 Loader 1 Pickup Truck 1 Bobcat post hole digger 1 Gator ATV 3-in. Pump
Florida Jet Clean	2	Pickup truck and van
Universal		
SOUTH END DEVELOPMENT		Volvo
Peninsula	3	Van

HOURS INSPECTOR ON JOB SITE: 7:10 4:35

John Clay Hyle III
Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 205

CONTRACTOR'S REP.: Greg Hillman **DATE:** 4-16-02,Tuesday

****

VISITORS: Kirk from Handex on site

WEATHER: a.m. Clr . p.m. P/Cldy.

TEMP. RANGE: 66°- 86°

RAINFALL: 0"

MAJOR DELIVERIES:

****

WORK PERFORMED:

Handex:

Dozer grading swale east of A3, loader hauling excess cuttings to cleanout area just south of ash lift station. 0730 talk to Greg about ERCP extensions at ramps, he says he will have a price tomorrow. Ask Greg how will the A3 swale grades will be corrected, he says they are to grade, I inform him that is not what the surveyors shot yesterday, he says he is busy and departs. Bill Skipper is working on the SW2 manhole to Metering manhole pipes. 0835 Greg says sand in the pipe is not a problem with the pipe videoed yesterday, except for the west end of the north run in SW2, Jack wants to know how much sand is in the stone. PM loader and laborers dig up gaps in fabric. Greg says he will build the A3 swales to original survey stakes, and any changes will be a change order. Dan Strobridge suggests cut to grade on the north side of swale and taper out to the road. Hector begins to windrow soil back to the fence. 4:45 Greg says he will not the swale without direction. Hector asks about the ditch bottom width in A3 east, I show him the drawing C-1. Late PM dozer in SW2 swales.

South End Development:

No work.

Florida Jet Clean: 0830 waiting on Handex, open valves or cut the pipe. Late AM jet clean north run west end from a cut pipe.

Peninsula Survey: As-builting in SW2.

Miscellaneous: Watched the video from "T to T" both runs of A3. Looked for sand incursion into stone in A3, none noted.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 205

CONTRACTOR'S REP.: Greg Hillman **DATE:** 4-16-02, Tuesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 3 day laborers)	9	Volvo Water Truck , HS site, one PM pass Ash rd area Cat D6 Dozer Case 580L Backhoe 1 Volvo L120 Loader 1 Pickup Truck 1 Bobcat post hole digger 1 Gator ATV 3-in. Pump
Florida Jet Clean	2	Pickup truck and van
Universal		
SOUTH END DEVELOPMENT		Volvo
Peninsula	3	Van

HOURS INSPECTOR ON JOB SITE: 7:10 5:00 short lunch

John C McHugh
Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 206

CONTRACTOR'S REP.: Greg Hillman **DATE:** 4-17-02,Wednesday

****

VISITORS: Tommy Topp, Comanco, about cap.

WEATHER: a.m. Clr . p.m. M/Cldy.

TEMP. RANGE: 66°- 86°

RAINFALL: 0"

MAJOR DELIVERIES:

****

WORK PERFORMED:

Handex:

Dozer grading swale south of A3, west end, loader hauling excess cuttings to cleanout area just south of ash lift station. Greg sets up an instrument and has a laborer digging up the gas line to check elevation. Greg thinks the ditch can be built to original drawing. Crew dewatering SW2 manhole and SW lift station. Pipe crew fusion welds pipe cut yesterday in SW2 west 1/3 north run, to clean the sand out of the line. Laborers start the clean out of A2 ramp culvert. 10:00 Greg says the ditch can be built to design plus 1 foot elevation. SW2 north run east 1/3 exposing pipe to be cleaned out, also header south of bootless penetration. Bill Skipper placing relief valve at the end of the reclaim line.

South End Development:

South End loader joins Handex loader moving soil cut from A3 swale to clean out by ash lift station.

Florida Jet Clean: Jet cleaning north run SW2 east 1/3, sand in the line. Then jet the header pipe SW2.

Peninsula Survey: Staking swale to include fall, not contour line for SW2. PM As-builting in A3.

B.L. Smith Electricians: Replacing broke electrical lines from road crossing just south of the ash lift station , to temporary power box.

Miscellaneous: Greg asks if secondary pole can stay in original position at ash lift station.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 206

CONTRACTOR'S REP.: Greg Hillman **DATE:** 4-17-02, Wednesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 3 day laborers)	9	Volvo Water Truck , HS site, one PM pass Ash rd area Cat D6 Dozer Case 580L Backhoe 1 Volvo L120 Loader 1 Pickup Truck 1 Bobcat post hole digger 1 Gator ATV 3-in. Pump
Florida Jet Clean	2	Pickup truck and van
B.L. Smith Electric	2	Truck and trencher
SOUTH END DEVELOPMENT		Volvo
Peninsula	3	Van

HOURS INSPECTOR ON JOB SITE: 7:10 4:15

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 207

CONTRACTOR'S REP.: Greg Hillman **DATE:** 4-18-02,Thursday

****

VISITORS: _____

_____

_____

WEATHER: a.m. P/Cldy . p.m. M/Cldy.

TEMP. RANGE: 66°- 86°

RAINFALL: 2"ovrnt? County gauge .4"

MAJOR DELIVERIES: _____

****

WORK PERFORMED:

Handex:

Dozer grading swale south of A3, west end, loader hauling excess cuttings to basin corner just south of ash lift station. James and two laborers are setting bollards around the wells a second time, sides slumped in. Dewatering SW lift station, water from SW2. Noon Jack points out to Greg that the lift station lids don't match the drawings.(round vs rectangle)1:45 inform Greg the hose bibb valve on the south side of the concrete pole is acceptable to John Power, and he will have a decision on the RCP tomorrow. Hose bibbs are being installed on 1" riser and valves. Close up SW2 header temporarily until fusion coupling is installed.

South End Development:

South End loader joins Handex loader moving soil cut from A3 swale to basin corner by ash lift station, back to HS site at 11:30.

Florida Jet Clean: Jet cleaning/video the header pipe SW2. 1:30 Greg says jet clean is complete and to depart site, I ask him about the perforated pipe in A2? 1:40 set up to do A2, but camera won't go through the gate valve. To come back later after valves are replaced, or backfill around cleanouts.

Peninsula Survey: No work.

Miscellaneous: Greg gives a price of $1,800 per cell for 8' RCP extension, at noon.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 207

CONTRACTOR'S REP.: Greg Hillman **DATE:** 4-18-02, Thursday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 3 day laborers)	8	Volvo Water Truck , HS site, one PM pass Ash rd area Cat D6 Dozer Case 580L Backhoe 1 Volvo L120 Loader 1 Pickup Truck 1 Bobcat post hole digger 1 Gator ATV 3-in. Pump
Florida Jet Clean	2	Pickup truck and van
SOUTH END DEVELOPMENT	1	Volvo loader, PM back to HS site
Peninsula		Van

HOURS INSPECTOR ON JOB SITE: 10:00 from dentist 3:20

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 208

CONTRACTOR'S REP.: Greg Hillman **DATE:** 4-19-02,Friday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Clr. p.m. P/Cldy.

TEMP. RANGE: 66°- 86°

RAINFALL: .2"ovrnt

MAJOR DELIVERIES: 1:05 concrete truck arrives, second follows.

****

WORK PERFORMED:

Handex:

James and David setting concrete posts at washdown stations. Greg wants Jack to select bollard locations for cleanouts.0800 Bill Skipper asks about electric to storm water pump A2, and will look into lift station lids. Greg says no day laborers available locally, he may get some from Tampa. Bill Skipper to fusion weld header pipe at SW2. 10:30 three more day laborers arrive on site. Crew to correct storm water interceptor flap. Greg talks about cutting interim sand down to 24", I inform him no, if anything changes it will be the liner, not the sand, we should have 24" of sand with a 24"hump on top. The interceptor berm is to be shot with an instrument to 2.5' Pipe crew departing 12:45, no ball valves until Monday. Lids placed on A2, A3 manholes.

South End Development:

12:50 loader arrives to haul sand from stockpile.

Comanco:

No work

Miscellaneous: _____

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 208

CONTRACTOR'S REP.: Greg Hillman **DATE:** 4-19-02, Friday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 4 day laborers)	10	Volvo Water Truck ,idle Cat D6 Dozer Case 580L Backhoe 1 Volvo L120 Loader 1 Pickup Truck 1 Bobcat post hole digger 1 Gator ATV 3-in. Pump
LLSI		Van and equipment
COMANCO	0	Volvo water truck
SOUTH END DEVELOPMENT	1	Volvo loader PM
Peninsula	0	Van

HOURS INSPECTOR ON JOB SITE: 7:20 1:45

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 209

CONTRACTOR'S REP.: Greg Hillman **DATE:** 4-20-02,Saturday

****

VISITORS: _____ WEATHER: a.m. Clr. p.m. P/Cldy.

_____ TEMP. RANGE: 66°- 86°

_____ RAINFALL: 0"

MAJOR DELIVERIES: _____

****

WORK PERFORMED:

Handex:

Handex day laborers working on A-3 storm water diversion flap, Greg operating the dozer to wind row sand along flap. South End Loader bringing more sand from stockpile. Greg says they will work on flaps all day. A-3 west Interim cell berm flap will be next

South End Development:

Loader hauling sand to flap area from stockpile.

Comanco:

Water wagon is delivered to site.

Miscellaneous: _____

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 209

CONTRACTOR'S REP.: Greg Hillman **DATE:** 4-20-02, Saturday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 5 day laborers)	7	Volvo Water Truck ,idle Cat D6 Dozer Case 580L Backhoe 1 Volvo L120 Loader 1 Pickup Truck 1 Bobcat post hole digger 1 Gator ATV 3-in. Pump
LLSI		Van and equipment
COMANCO	0	Volvo water truck
SOUTH END DEVELOPMENT	1	Volvo loader
Peninsula	0	Van

HOURS INSPECTOR ON JOB SITE: 7:15 11:20

John C Mc Hyle III
Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 211

CONTRACTOR'S REP.: Greg Hillman **DATE:** 4-22-02,Monday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Clr. p.m. P/Cldy.

TEMP. RANGE: 65°- 86°

RAINFALL: 0"

MAJOR DELIVERIES: 8" HDPE ball valves, without flanges

****

WORK PERFORMED:

Handex:

Handex dozer and day laborers working on Storm water diversion berm flap in SW2,laborers pull flap up hill, Greg operating the dozer to wind row sand. Loader bringing more sand from stockpile. 09:30 inform Greg there are thin spots in the sand, 11:15 inform Greg the sand is choking the east end of SW-2 diversion flap, Greg says they will shovel it out. Inform Greg that during ball valve installation it is expected the pipe will be flanged toward the cell and furnco connected to metering manhole.11:00 South end operator replaces Greg on the dozer. Greg has his crew expose the north end of the Interim cell berm flap. The liner flap appears to be short of the 8' on the drawing, but actually the liner is just partially tucked under the composite. Crew cleans off one side of one flap.

South End Development:

Operating Handex dozer, PM loader hauling sand to NE SW-2, PM off road trucks.

Comanco:

Placing water between liners in SW-2 since it has a shut off valve. Filling starts after an adaptor is installed on the water truck. Mid AM county asks that water hydrant to only be half open. Lunch time sand cracking in SW-2, South End adds sand to low area, sump.

Miscellaneous: No power in the trailers first thing in the AM, Generator will not start, about 10:00 AM powered up. Approximatly 3:30 give Greg fax of direction to add RCP.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 211

CONTRACTOR'S REP.: Greg Hillman **DATE:** 4-22-02, Monday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 4 day laborers)	8	Volvo Water Truck ,idle Cat D6 Dozer Case 580L Backhoe Cat 330B Excavator 1 Volvo L120 Loader 2 Pickup Truck 1 Bobcat post hole digger 1 Gator ATV 3-in. Pump
LLSI		Van and equipment
COMANCO	2	Volvo water truck
SOUTH END DEVELOPMENT 0 first thing, 3 by mid PM	0-3	Operator with Bill Skipper Mechanic works on broke down excavator and loader
Peninsula	0	Van

HOURS INSPECTOR ON JOB SITE: 7:05-5:30

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 212

CONTRACTOR'S REP.: Greg Hillman **DATE:** 4-23-02,Tuesday

****

VISITORS: _____

_____

_____

WEATHER: a.m. M/Cldy. p.m. P/Cldy.

TEMP. RANGE: 68°- 86°

RAINFALL: 0"

MAJOR DELIVERIES: _____

****

WORK PERFORMED:

Handex:

Handex dozer and day laborers working on Interim cell berm flaps in SW2, Greg says they will dig out the wrinkles then backfill, excpt for the pipe area and the north end, they will be left open. Greg wants John Power to look at liner flap to see they have made a reasonable effort. 10:00 Jack informs Greg the west flap is still unacceptable, Greg says they will address it later. Laborers pull out thickness tubes in east and middle 1/3 SW-2.0750 Bill Skipper arrives on site and Jack informs him CDM would prefer installing the ball valves with the furnco to the metering manhole and a flange to the existing pipe, so future replacement is possible. Bill had suggested electro fusion couplings on both sides. Bill and the excavator, South End operator, and laborers to install A-3 ball valves. PM start bollards in A-3. Water truck makes one watering pass on roadway in ash cell area, street sweeper follows.Late PM Greg shooting grades in A-3 swale.

Comanco:

Filling water truck at 0600, yesterday 10,000 gal. water above liner, 20,000 between layers in SW-2. Noon wetting the surface of east 1/3 of SW-2.

LLSI:

0830 On site, 11:00 start testing to check data.5:20 packing up

Miscellaneous: Greg says sod crew to work Saturday and Sunday. Remind Greg to provide written notice of substantial completion, point out spec section700-38, 14.04. Surveyors to bring sand as-builts tomorrow,(it did not happen) Ask Bill Skipper about Damproofing Spec, and bituminous coating on boot bands.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 212

CONTRACTOR'S REP.: Greg Hillman **DATE:** 4-23-02, Tuesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 4 day laborers)	8	Volvo Water Truck ,idle Cat D6 Dozer Case 580L Backhoe Cat 330B Excavator 1 Volvo L120 Loader 1 Pickup Truck 1 Bobcat post hole digger, mechanic replaces digger 1 Gator ATV Street Sweeper on site 3-in. Pump
LLSI	2	Van and equipment
COMANCO 3rd in PM	2	Volvo water truck
SOUTH END DEVELOPMENT	1	Operator with Bill Skipper Mechanic works on broke down excavator and loader
Peninsula	0	Van

HOURS INSPECTOR ON JOB SITE: 7:10-5:27

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 213

CONTRACTOR'S REP.: Greg Hillman **DATE:** 4-24-02,Wednesday

****

VISITORS: _____

_____

_____

WEATHER: a.m. P/Cldy. p.m. M/Cldy.

TEMP. RANGE: 68°- 87°

RAINFALL: 0"

MAJOR DELIVERIES: _____

****

WORK PERFORMED:

Handex:

Handex dozer finish grading A-3area, and RCP being placed at A-3 ramp. Dewatering A-3 manhole area to place ball valve. Approximately 0930 all the day laborers depart. 10:00 discuss testing electrofusion couplings in transfer pipes to ball valve with Bill Skipper, he says a dye test will be done, Bill to see if he can get florizene or food color. Late AM Dozer grading by A-2 slope and swale. Excavator to A-2 manhole area, secondary valve replaced by ball valve, as volume of liquid builds, leak starts. Bill Skipper says he will depart site after plugging A-3 primary pipe.

Comanco:

Installing string lines for LLSI and provide water above and below liner in SW-2. Wetting the surface of SW-2.

LLSI:

0715 On site, continue testing east of east flap of SW2, Mid AM west of east flap, 5:00 stop 60' short of west flap

Peninsula:

0830-2:45 as-built A-3 swales, stake out ramp, 6" to mitre on one side, and 11' on the other. Greg not on site, 4:30 Greg returns, crew departs 4:45.

Miscellaneous: Today the second of the 2 gas pipe markers is moved. Ask Greg for sand as-builts, he says surveyors did not bring them, he will call Peggy. on site. Today Bill Collis provides dailies back to last week.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 213

CONTRACTOR'S REP.: Greg Hillman **DATE:** 4-24-02, Wednesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 0 day laborer, were on site early, then all departed)	5	Volvo Water Truck Cat D6 Dozer Case 580L Backhoe Cat 330B Excavator 1 Volvo L120 Loader 1 Pickup Truck 1 Bobcat post hole digger 1 Gator ATV 3-in. Pump
LLSI	2	Van and equipment
COMANCO	4	Volvo water truck
SOUTH END DEVELOPMENT	1	Operator with Bill Skipper
Peninsula	3	Van

HOURS INSPECTOR ON JOB SITE: 7:10-5:12

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex

REPORT NO.: 214

CONTRACTOR'S REP.: Greg Hillman

DATE: 4-25-02,Thursday

****

VISITORS: Dan Strobridge, Abdul Mullah Saleh

WEATHER: a.m. P/Cldy. p.m. M/Cldy.

TEMP. RANGE: 68°- 88°

RAINFALL: 0"

MAJOR DELIVERIES: Pallet of paint products. Concrete for bollards start at 3:00 PM, wash down bollards at 7 locations.

****

WORK PERFORMED:

Handex:

Handex dozer finish grading A-2 area with 1 laborer. Laborers placing bollard tubes at clean outs in A-3. Greg sweeping road with sweeper. Two day laborers digging up valve at A-2 primary.. 10:30 talk to Greg about Cell A-3 ramp survey stakes not aligning with RCP, Greg says it will be offset. Handex A-2 primary ball valve installation includes a plug in the pipe upstream from the electrofusion coupling, no leak. Crew cuts out leaking secondary and the same procedure with plug will be used. Dozer grading by ash lift station, ask Greg if we can push soil over for raising lift station, Greg says they will bring soil from stockpile later. A-3 secondary ball valve and coupling good this time, no leak. 4:00 Bill Skipper and day laborers to SW lift station. Late PM A-2, 3 manhole rings removed, temporary covers on.

Comanco:

Installing string lines for LLSI and provide water above and below liner in SW-2. Ran 1" hose overnight in A-3, after 0800 between layers, then alternate. PM wet west SW-2

LLSI:

0720 0n site, continue testing west end of SW2, some delay due to west electrode not operational. PM Move to middle SW2 to pinpoint readings of a potential leak, none found, consider an anomaly.

Miscellaneous: Call office 4:45 PM there are no Sod/Seed submittals. Greg not found on site.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 214

CONTRACTOR'S REP.: Greg Hillman **DATE:** 4-25-02, Thursday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 3 day laborer)	8	Volvo Water Truck Cat D6 Dozer Case 580L Backhoe Cat 330B Excavator 1 Volvo L120 Loader 1 Pickup Truck 1 Bobcat post hole digger 1 Gator ATV 3-in. Pump
COMANCO	4	Volvo water truck
SOUTH END DEVELOPMENT	1	Operator with Bill Skipper
LLSI	2	Van and equipment

HOURS INSPECTOR ON JOB SITE: 7:15-5:40

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 215

CONTRACTOR'S REP.: Greg Hillman **DATE:** 4-26-02,Friday

****

VISITORS: _____

_____

_____

WEATHER: a.m. P/Cldy. p.m. M/Cldy.

TEMP. RANGE: 68°- 86°

RAINFALL: 0" 1:00 sprinkle

MAJOR DELIVERIES: _____

****

WORK PERFORMED:

Handex:

Handex crew placing ERCP SW2 ramp area, dozer finish grading ash lift station and A-2 manhole area. west swaleof SW-2. Laborers remove sand thikness tubes in A-3. 0830 excavator digging up old ramp to SW-1.David and 3 laborers digging holes for clean out bollards. Bill Skipper opens secondary valve SW-2, then starts cement mixer to grout SW lift station bottom. 10:25 David starts pumping down SW-2 manhole. Bollards placed east of the road ash cells area, at clean outs. 10" reclaim line exposed near SW lift station to place saddle on Monday. South End operator with Handex crew ERCP

Comanco:

Installing string lines for LLSI and provide water above and below liner in A-3

LLSI:

0715 On site, drop off thread at A-3, continue testing west end of SW2.Move to east SW2 to pinpoint readings of potential leaks. Midday start East end in cell A-3, working West. 1 location for excavation found, testing stops short of East flap.

Miscellaneous: Greg to look into Sod/Seed submittals.07:15.

2:30 PM Greg says 4 bollards go around the transmission line cleanouts, instead of two.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 215

CONTRACTOR'S REP.: Greg Hillman **DATE:** 4-26-02, Friday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 5 day laborer)	10	Volvo Water Truck Cat D6 Dozer Case 580L Backhoe Cat 330B Excavator 1 Volvo L120 Loader 1 Pickup Truck 1 Bobcat post hole digger 1 Gator ATV 3-in. Pump
COMANCO	4	Volvo water truck
SOUTH END DEVELOPMENT	1	
LLSI	2	Van and equipment

HOURS INSPECTOR ON JOB SITE: 7:15-5:20

John C Mathy III
Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 216

CONTRACTOR'S REP.: Greg Hillman **DATE:** 4-27-02,Saturday

****

VISITORS: _____

_____

_____

WEATHER: a.m. P/Cldy. p.m. M/Cldy.
TEMP. RANGE: 65°- 89°
RAINFALL: 0"

MAJOR DELIVERIES: 12:45 truckload of sod arriving onsite and unloading at A-2. Mike Eberts says they are doing A-2 slope on Sunday and will do the paperwork Monday and Tuesday. PM 44 pallets of sod on site and 6-6-6 fertilizer. I inform George in control room that there will work on Sunday.

****

WORK PERFORMED:

Handex:

Part of Handex crew with dozer finish grading west swaleof SW-2. David and 3 laborers cleaning out culvert under ramp to A-2. PM david helping Hector shoot grade to stakes.Handex crew departs 5:00, David talks to Mike Eberts.

Comanco:

Digging up suspect hole SW-2 southeast sump area, four punctures through all layers including rock, bentonite oozing out of one puncture. Large hole needs to be cut to patch secondary liner, after GCL repair. Pinflag was directlyover holes. Second repair within 12" of pinflag, small puncture,1/8", repaired with a bead. Third location a 3'x3' area exposed and no damage is visible, adjacent to header at bootless penetration. Fourth lacation 9" off pinflag, another rod type puncture,primary liner only.5:35 depart site.

LLSI:

Flat tire enroute delays testing start, testing both sides of East flap in cell A-3, working West. 4:30 working both sides of West flap. 5:15 shutting down.

Miscellaneous:

Case 586 G forklift arrives on site for Plugmaster.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 216

CONTRACTOR'S REP.: Greg Hillman **DATE:** 4-27-02, Saturday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 4 day laborer)	6	Volvo Water Truck Cat D6 Dozer Case 580L Backhoe Cat 330B Excavator 1 Volvo L120 Loader 1 Pickup Truck 1 Bobcat post hole digger 1 Gator ATV 3-in. Pump
COMANCO	4	Volvo water truck
SOUTH END DEVELOPMENT	0	
LLSI	2	Van and equipment

HOURS INSPECTOR ON JOB SITE: 7:02-5:35

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 217

CONTRACTOR'S REP.: Greg Hillman **DATE:** 4-28-02,Sunday

****

VISITORS: _____

_____

_____

WEATHER: a.m. HZY,CLR. p.m. P/Cldy.

TEMP. RANGE: 67°- 87°

RAINFALL: 0"

MAJOR DELIVERIES: Sod crew no show, no answer to noon phone call. No electricity in the trailers, generator not running today.

****

WORK PERFORMED:

Handex:

Part of Handex dozer finish grading south swale of SW-2. David rough cutting swale ahead of dozer with the loader.. PM David helping Hector shoot grade to stakes .I asked Hector why the ditch is so wide, and showed him a note on DRWG C-2 saying ditch bottom is 9'. Hector says he has a sketch from the surveyors that showed the ditch bottom being 9' in the west and 16' wide in the east, and he was told to build it to the sketch. I inform him to hold onto that sketch to cover himself.

Comanco:

More digging and dewatering at suspect hole SW-2 third location a 3'x3' area exposed and no damage is visible, adjacent to header at bootless penetration. Crew gathers up strings and pinflags from SW-2. Water sand surface in west 1/3 of A3. Dig up third signal A-3, 1/8" cut by a patch, second signal no visible damage to liner. (paper towel dry and no wet spot)

LLSI:

A-3 West electrode not operational, crew runs a wire back to East electrode. 0815 before testing resumes, testing complete at 1215, downloading last data, locate last two significant signals. Three microsignals, smaller than nothing found second signal in A-3. We are not going to pursue them, but will place pinflags. Significant signals will have pinflags with an x on them. Comanco to dig them up tomorrow. Try to locate signal source west of west flag on north pipe run, source seems hard to pin down location. 1:30 stop digging and probing.

Miscellaneous:

_____

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 217

CONTRACTOR'S REP.: Greg Hillman **DATE:** 4-28-02, Sunday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 0 day laborer)	2	Volvo Water Truck Cat D6 Dozer Case 580L Backhoe Cat 330B Excavator 1 Volvo L120 Loader 1 Pickup Truck 1 Bobcat post hole digger 1 Gator ATV 3-in. Pump
COMANCO	4	Volvo water truck
SOUTH END DEVELOPMENT	0	
LLSI	2	Van and equipment

HOURS INSPECTOR ON JOB SITE: 7:15-2:08

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 218

CONTRACTOR'S REP.: Greg Hillman **DATE:** 4-28-02,Monday

****

VISITORS: _____

_____

_____

WEATHER: a.m. HZY,P/Cldy. p.m. P/Cldy.

TEMP. RANGE: 67°- 87°

RAINFALL: 0"

MAJOR DELIVERIES: Sod trucks start arriving 0840, 1030 unloading East of trailers.

****

WORK PERFORMED:

Handex:

Part of Handex dozer finish grading East swaleof SW-2. David and day laborer pulling up west flap in SW2, after setting pumps in A3 manhole location. 0800 sod crew on site, Greg says they are waiting for their boss. Greg has watered the A2 manhole area and the excavator is placing more fill. Loader is moving the excess soil from SW2 east swale cut to SW lift station area. Late AM david and laborers are digging soil away from pavement edge PM David and laborers pulling up flaps in A3, then dig more silt out of A2 culvert. Late PM placing bollards at SW1 washdown station. Roadbase ramp placed to daily cover stockpile.

Comanco:

Crew extendiing interim cellflaps in SW 2 while waiting to pump test water out of A3, currently there is no plug in the manhole to keep the test water out of the leachate system. 3:00 PM move to the west flap in SW2. 4:30 plug being placed by Handex and pumping down water begins by 5:00PM

Plugmaster:

0845 Crew spreading fertilizer A2 outside slope, Jack informs Mike the spec calls for 16# per 1,000 square feet; 9 bags for the outer slope, and 5 bags for the inner slope. Mike states he will have a mechanical spreader by this afternoon. Approx. 1:15 Ron Walker, Greg and Jack meet at the A2 outer slope to discuss Ron's dissatisfaction with the sod placement, it does not comply with the specs. Greg has a call into Mike. Sod deployment crew departs after some clean up

Peninsula Survey

Crew sets up a new benchmark by SW2, then as-built west swale and west half of south swale.

Miscellaneous: Jack asks Greg for sand as-builts, Greg has a call into Peggy.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 218

CONTRACTOR'S REP.: Greg Hillman **DATE:** 4-29-02, Monday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 5 day laborer)	9	Volvo Water Truck Cat D6 Dozer Case 580L Backhoe Cat 330B Excavator 1 Volvo L120 Loader 1 Pickup Truck 1 Bobcat post hole digger 1 Gator ATV 3-in. Pump
COMANCO	5	Volvo water truck
SOUTH END DEVELOPMENT	1	
Peninsula Survey	2	Van
Plugmasters	6	Forklift

HOURS INSPECTOR ON JOB SITE: 7:02-5:30

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 219

CONTRACTOR'S REP.: Greg Hillman **DATE:** 4-29-02,Tuesday

****

VISITORS: _____

_____

_____

WEATHER: a.m. HZY,P/Cldy. p.m. M/Cldy.

TEMP. RANGE: 68°- 88°

RAINFALL: 0"

MAJOR DELIVERIES: Sod trucks start arriving AM, PM unloading north of trailer.

****

WORK PERFORMED:

Handex:

Handex dozer finish grading west and south swale of SW-2. David and day laborers placing bollards at A3 cleanouts, pump running in A3 manhole location., then late AM dig more silt out of A2 culvert. Late AM dozer grading along road by daily cover stockpile. Bill Skipper and south end operator with two day laborers begin replacing the gate valves with ball valves at SW2, secondary is completed and primary is started. PM the dozer makes grade corrections for the surveyors. PM Greg watering the sod.

Comanco:

Crew extendiing interim cellflaps in SW 2 while waiting for pump to complete removal of test water out of A3, ATV dragging chain link fence on sand to remove ruts. SW2 flap completed by 10:00 and setting up at A3 west flap. 2:15 begin east flap, complete 4:45, then #3 LLSI A3 marker repaired

Plugmaster:

Crew continues to correct middle section of A2 slope and sod ditch and slope to road, 1030 they move to the inside slope of A2.until lunch. 1215 little roller on site, is unsafe on the slope according to Mike. Mike Ebert, Ron Walker, John Power, Greg and Jack have a meeting to discuss sod placement and personal behavior on site. Mike to provide sod tickets indicating when it was cut. Time and date etc.

Peninsula Survey

Crew as-built east swale SW2.

Miscellaneous:

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 219

CONTRACTOR'S REP.: Greg Hillman **DATE:** 4-30-02, Tuesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 5 day laborer)	9	Volvo Water Truck Cat D6 Dozer Case 580L Backhoe Cat 330B Excavator 1 Volvo L120 Loader 1 Pickup Truck 1 Bobcat post hole digger 1 Gator ATV 3-in. Pump
COMANCO	5	Volvo water truck J Deere loader ATV
SOUTH END DEVELOPMENT	1	
Peninsula Survey	3	Van
Plugmasters	9	Forklift and PM little roller

HOURS INSPECTOR ON JOB SITE: 7:15-5:15

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 220

CONTRACTOR'S REP.: Greg Hillman **DATE:** 5-01-02,Wednesday

****

VISITORS: _____

_____

_____

WEATHER: a.m. AM fog/Clr. p.m. P/Cldy.

TEMP. RANGE: 67°- 88°

RAINFALL: 0"

MAJOR DELIVERIES: Sod trucks start arriving AM east of trailer, PM also, noon unloading A2 SE corner. 2:00PM receive sand as-builts from Greg. Greg is concerned county truck broke curb by A1 @2:10. 3:10 concrete for A3 bollards. Jack and Ron discuss metering manhole protection.

****

WORK PERFORMED:

Handex:

Handex dozer finish grading outside south swale of SW-2, pump running in A3 manhole location., then dig more silt out of A2 culvert. Late AM begin SW2 bollards at cleanouts Bill Skipper and south end operator with two day laborers replacing the gate valves with ball valves at SW2, primary. PM to A3 primary. PM concrete placed around and in A3 bollards, then cleanouts on transmission line Greg watering the sod, 3:50 watering SE A2 sod with water truck..

Comanco:

Crew burying interim cell flaps edge in A3, and clean up. Place fabric over LLSI repairs on south floor of cell and backfill with sand Comanco brought from screen sand stockpile. #1 LLSI A3 marker , sheet defect, repaired. Uncover west toe of slope signal, nothing visible. Cleanup and flap edge burying.

Plugmaster:

Crew continues to sod A2 slope inside cell, Jack marks off limits of sod. Sod foreman asks for limits of sod along the road east of the trailers, Jack refers him to Greg. PM more sod on the SE corner of A2. Some sod placed along road.

Peninsula Survey

Crew as-built east swale SW2, all the same work as yesterday since the data logger went down..

Miscellaneous: B L Smith installs temporary power pole at SW1 lift stations.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex

REPORT NO.: 220

CONTRACTOR'S REP.: Greg Hillman

DATE: 5-01-02, Wednesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 4 day laborer)	9	Volvo Water Truck3:50 returns from HS site Cat D6 Dozer Case 580L Backhoe Cat 330B Excavator 1 Volvo L120 Loader 1 Pickup Truck 1 Bobcat post hole digger 1 Gator ATV 3-in. Pump
COMANCO	5	Job trailer departs before lunch J Deere loader ATV
SOUTH END DEVELOPMENT	1	
Peninsula Survey	3	Van
Plugmasters	6	Forklift and PM little roller
B L Smith Electric	2	Truck

HOURS INSPECTOR ON JOB SITE: 6:58-5:25

John C McGyl III
Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 221

CONTRACTOR'S REP.: Greg Hillman **DATE:** 5-02-02,Thursday

****

VISITORS: _____

_____

_____

WEATHER: a.m. AM fog/Clr. p.m. M/Cldy.

TEMP. RANGE: 67°- 89°

RAINFALL: 0"

MAJOR DELIVERIES: Empty Sod truck arrives at 2:00 PM, 16 pallets of sod depart. 4:45 PM Jack gives Greg the ramp information he asked for. Don Montgomery requests to get paid for the perforated pipe in the sump as perforarated pipe and as sump pipe.LOL.

****

WORK PERFORMED:

Handex:

Handex loader moving soil SW2 to stockpile area. Excavator and 2 laborers digging up A3 manhole to dampproof the outside, after A3 dampproofed, dig up A-2 and dampproof it, both get two coats. David and laborers placing cleanout pad forms in A3, to pour on Friday. Talk to Greg about getting densities on backfill of manhole areas, he wants survey information to be provided for the ramps into cells since the berm is higher than in the drawings and the ramps were moved over to match the center of the RCP He goes on to say if we need a large number of bollardsit will be a two week lead time. Mid AM wooden posts being placed at the edge of linerin A3, then SW2. .

Comanco:

Crew burying interim cellflaps edge in A3, and clean up. Place fabric over LLSI repairs on south floor of cell and backfill with sand Comanco brought from screen sand stockpile. #1 LLSI A3 marker , sheet defect, repaired. Uncover west toe of slope signal, nothing visible. Cleanup and flap edge burying.

Plugmaster:

Crew continues to sod A2 slope inside cell, Jack marks off limits of sod. Sod foreman asks for limits of sod along the road east of the trailers, Jack refers him to Greg. PM more sod on the SE corner of A2. Some sod placed along road.

Peninsula Survey

Crew as-built east swale SW2, all the same work as yesterday since the data logger went down..

Miscellaneous: B L Smith installs temporary power pole at SW1 lift stations.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex

REPORT NO.: 221

CONTRACTOR'S REP.: Greg Hillman

DATE: 5-02-02, Thursday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 4 day laborer) 3:30 PM 2 Handex Env. Arrive, drop off materials	8	Volvo Water Truck3:50 returns from HS site Cat D6 Dozer Case 580L Backhoe Fiat Allis FG 65C Grader, Street sweeper 1 Volvo L120 Loader 1 Pickup Truck 1 Bobcat post hole digger 1 Gator ATV 3-in. Pump
COMANCO	0	J Deere loader
SOUTH END DEVELOPMENT	1	Excavator
Peninsula Survey	3	Van
Plugmasters	7 8late	Forklift and PM little roller

HOURS INSPECTOR ON JOB SITE: 6:58-5:25

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 222

CONTRACTOR'S REP.: Greg Hillman **DATE:** 5-03-02,Friday

****

VISITORS: _____

_____

_____

WEATHER: a.m. AM fog/Ovrcst. p.m. P/Cldy.

TEMP. RANGE: 70°- 90°

RAINFALL: 0"

MAJOR DELIVERIES: 6 loads of rip rap arrive,2 trucks at 0845,1120, 2:15, concrete for bollards. Asked Greg if we are going to get densities on backfill, Greg says later. 10:15 gave Greg A3 ramp corrected drwg.

****

WORK PERFORMED:

Handex:

Handex extending A2 pipe cleanouts with camlock assemblies. 2 laborers clean off A3 manhole to dampproof the outside, after A3 dampproofed, A-2 dampproofed, both get two coats. SW2 placing bollard tubes at cleanout pipes. 0900 concrete arrives David and laborers pour bollards then cleanout pads in A3, some ball valve pads also. Discussion with Handex Env at A2 elboe 3/10 low, 3:45 corrected. 10:00 start SW lift station repair, 11:30 Vulcom installed. 11:00 Pasco county inspector approves temporary pole as long as wire buried 2' down. PM brick and grout flow line SW2 manhole. Set Ash lift station lid with ram neck, reconnect floats, wire and pump PVC pipe through the hatch. Water truck returns to site and waters sod in the AM, then in the PM Hector is watering with the truck..

Comanco:

No work

Plugmaster:

No work

Peninsula Survey

No work

Miscellaneous: .

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 222

CONTRACTOR'S REP.: Greg Hillman **DATE:** 5-03-02 Friday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 4 day laborer) 4 Handex Env.	12	Volvo Water Truck AM and PM returns from HS site Cat D6 Dozer Fiat Allis road grader Case 580L Backhoe street sweeper Cat 330B Excavator 1 Volvo L120 Loader 1 Pickup Truck 1 Bobcat post hole digger 1 Gator ATV 3-in. Pump
COMANCO	0	Loader idle
SOUTH END DEVELOPMENT	0	
Peninsula Survey	0	Van
Plugmasters	0	Forklift and little roller
B.L. Smith Electric	2	Truck,lunch time

HOURS INSPECTOR ON JOB SITE: 0715-4:07

John Clark III
Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 223

CONTRACTOR'S REP.: Greg Hillman **DATE:** 5-4-02,Saturday

****

VISITORS: Alpha Valve and Control Rep.
Withlahoochi Power, two reps

WEATHER: a.m. fog/CLR. p.m. P/ Cldy.
TEMP. RANGE: 68°- 90°
RAINFALL: 0"

MAJOR DELIVERIES:

****

WORK PERFORMED:

Handex:

Placing fabric on manhole joints and backfilling with excavator, and watering with water truck for compaction.Day laborers removing forms from yesterdays pad pours. Dozer grading backfilled areas. Ask Greg if we will place magnetic tape over pipes while backfilling, he says yes, but no tape is observed leachate force main.Laborers installing clean out pipe pad forms in SW-2. Approx. 0930 start backfill at A-2, excavator,dozer, water truck, backhoe, and laborers, setting valve boxes after backfill. SW-2 brick and grout inside of pipe penetrations in concrete manhole. Late AM placing 2 ½" PVC line toward Ash lift station. Extending sprinkler hoses on A-2 slope. Moving sod pallets away from Ash cell area and move to conex area. Grader finishing soil east of road. Sweeping road PM.

Comanco:

No work.

Peninsula Survey

No work

Miscellaneous:

Bill Skipper says Tracom rep will be on site Monday. He also says he does not need rebar in pads if he makes them 6"thick. Greg says densities will be done on Monday. Bill Skipper says they are waiting for CDM to provide direction on box and solar panel configuration.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 223

CONTRACTOR'S REP.: Greg Hillman **DATE:** 5-04-02, Saturday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 4 day laborer) (including 4 Handex Envir.)	11	Volvo Water Truck Cat D6 Dozer Case 580L Backhoe Cat 330B Excavator 1 Volvo L120 Loader 4 Pickup Trucks 1 Bobcat post hole digger 1 street sweeper 3-in. Pump
COMANCO	0	
SOUTH END DEVELOPMENT	0	

HOURS INSPECTOR ON JOB SITE: 7:05- 2:20

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 225

CONTRACTOR'S REP.: Greg Hillman **DATE:** 5-6-02,Monday

****

VISITORS: Alpha Valve and Control Rep.
Withlahoochi Power, two reps

WEATHER: a.m. P/Cldy. p.m. Cldy.
TEMP. RANGE: 70°- 91°
RAINFALL: 0"

MAJOR DELIVERIES:

****

WORK PERFORMED:

Handex:

Pipe crew working on SW lift station and manhole at SW2

Pipe crew starts installing gravity line from SW-2 to SW-1.Tracy pumping water out of MM, to concrete tomorrow.

Part of Handex crew with dozer finish grading topsoil placed by loader in areas to be grassed along reclaim water route, later AM grader in use on top soil.PM SW-2 area.

Water truck fills SW lift station,(lift station leaks) waters sod,(AM and PM) and one pass watering road. Cutting mitred pipe late PM.Laborers scraping splashed concrete off bollards, primer on bollards.

Saddle placed on reclaim line by SW lift station, not complete, to be moved.

Mention to Greg that all road work needs to be done by June 1 outage at the plant.

Greg says surveyors will lay out cell ramps tomorrow when Peggy has data set up. Ramps to be rocked by Thursday, with fabric overlapped underneath.

Comanco:

No work.

Peninsula Survey

As-builting leachate transmission lines and structures, start at ash cells area

Miscellaneous:

John Power has no problem with Withlahoochi Power leaving the second to last pole in place by SW-2. Ron Walker wants Greg and Bill reminded not to release test water into leachate system,done 0830. Also no County training until the system is on line.(Tracom)

John and Ron look at signage,PM, and are satisfied with them.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 225

CONTRACTOR'S REP.: Greg Hillman **DATE:** 5-06-02, Monday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 2 day laborer) (including 4 Handex Envir.)	10	Volvo Water Truck Cat D6 Dozer Case 580L Backhoe Cat 330B Excavator 1 Volvo L120 Loader 4 Pickup Trucks 1 Bobcat post hole digger 3-in. Pump
COMANCO	0	
SOUTH END DEVELOPMENT	0	
Peninsula Survey	3	Van

HOURS INSPECTOR ON JOB SITE: 7:07- 4:45

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 226

CONTRACTOR'S REP.: Greg Hillman **DATE:** 5-7-02,Tuesday

****

VISITORS: _____

WEATHER: a.m. Clr/Hzy. p.m. M/Cldy

TEMP. RANGE: 70°- 92°

_____ RAINFALL: 0"

MAJOR DELIVERIES: "leachate" manhole lids arrive 0915, old lids and old SW2 base section depart 0940. 10:20 concrete truck on site for metering manholes and cleanout pipe pads.Ron raises question of MM heights and grading at SW2, also fast driver on backhoe.

****

WORK PERFORMED:

Handex:

Dozer grading west of A3, then south and east. 1:10 starts shaping SW2 ramp, grades and RCP center do not match, field adjust and memo to Greg, A3 not aligning either, PM Jack does layout of A3 ramp with orange stakes centered on RCP. Laborers scraping splashed concrete off bollards. Cleaning off bollards and priming them continues, 1145 painting. Pipe crew continues installing gravity line from SW-2 to SW-1, breaking up asphalt with rubber tire hoe around existing lift station. Damp proof tops of manholes A-2, A-3. Pulled plug from A-3 manhole after valves are closed and water pumped down from manhole. Concrete MM bottoms of A3, A2, and SW2 secondary, ran out before primary. Sprinklers watering sod, A-2 outside slope and near A-3(AM and PM) A2/3 sod brown. 3:45 hit 12" HDPE pipe stub with cap at SW1, start pumping to secondary and close valves, watertight by 6:00PM .

Comanco: No work.

Peninsula Survey

Arrives with fax copies of the same drawing we had on site since Friday. As-builting by SW2 swales, then layout ramps into cells, Ramp SW2 5' off center of RCP by survey.

B L Smith Electric

Working on temporary electric to SW-1 lift station.1040 Withlahoochi on site, 1140 power is switched over. PM they return to site to look at wires hit by excavator.

Miscellaneous:

_____

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 226

CONTRACTOR'S REP.: Greg Hillman **DATE:** 5-07-02, Tuesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 4 day laborer) (including 4 Handex Envir.)	12	Volvo Water Truck Cat D6 Dozer Case 580L Backhoe Cat 330B Excavator 1 Volvo L120 Loader 4 Pickup Trucks 1 Bobcat post hole digger 3-in. Pump
COMANCO	0	
SOUTH END DEVELOPMENT	0	
Peninsula Survey	3	Van

HOURS INSPECTOR ON JOB SITE: 7:05-6:15

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 227

CONTRACTOR'S REP.: Greg Hillman **DATE:** 5-8-02,Wednesday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Clr/Hzy. p.m. P/Cldy.

TEMP. RANGE: 70°- 90°

RAINFALL: 0"

MAJOR DELIVERIES: 0745 base material begins arriving with 2 loads piled by stockpile ramp. Saureisen coating on Ash lift station lid and manhole throats. Concrete for SW2 primary MM floor.2:30 Universal tech on site taking densities, 98% A3, 99% SW2 ramp.

****

WORK PERFORMED:

Handex: Dozer and loader shaping subgrade for SW2 ramp,0900 move to A3 ramp and Greg waters SW2. 2:30 density taken, 3:00 fabric overlapped at SW2, 3:30 road base placement begins SW2, one truck load dumped directly in place. Fill SW lift station with water to test yesterdays repair, continues to leak, will try another repair method tomorrow. Pipe crew working around SW1 and excavating a trench from SW2 toward SW1, late AM excavator down, trench work stops. Greg to get well information from Peggy for CDM. Bollards being painted yellow, PM painted wells red. PM small water truck on roadways as is street sweeper.1:30 excavator repaired and fueled, trenching again. 3:30 pipe crew welding pipe piece longer with a cap on the end to place in SW1. 5:00 core driller on site for SW1 penetration.

Watering sod SW2 area

Comanco: No work.

Peninsula Survey

Meet at 0945 to go over rip rap locations until 1130, no instrument, scale and tape. Then As-builting

B L Smith Electric

Start poles and rack for MM solar panels etc. Jack asks Bill Skipper if the submittal is in, he will check with Kirk about a manufactures letter. Late PM Bill asks if installation is acceptable, inform him to submit ASAP and advancing at own risk. He says he has to be done by Friday.

Miscellaneous:

_____

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 227

CONTRACTOR'S REP.: Greg Hillman **DATE:** 5-08-02, Wednesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 4 day laborer) (including 5 Handex Envir.)	13	Volvo Water Truck Cat D6 Dozer Case 580L Backhoe Cat 330B Excavator 1 Volvo L120 Loader 4 Pickup Trucks 1 Bobcat post hole digger 3-in. Pump
Enducon	2	truck
B.L. Smith	2	2 trucks
Peninsula Survey	3	Van

HOURS INSPECTOR ON JOB SITE: 7:10-5:40

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 228

CONTRACTOR'S REP.: Greg Hillman **DATE:** 5-9-02,Thursday

****

VISITORS: Mike Scarigella, Handex Safety

Lou Sicona CDM on site PM

WEATHER: a.m. Clr. p.m. P/Cldy.

TEMP. RANGE: 70°- 91°

RAINFALL: 0"

MAJOR DELIVERIES:

****

WORK PERFORMED:

Handex:

Pipe crew continues installing gravity line from SW-2 to SW-1, pipe test this morning, 0850 to 1050 5 psi start, 5+ psi finish(pipe in the sun)later backfill with excavator,dozer,roller, and water truck . Densities to be done tomorrow. 2 ½ " reuse line spliced back together after cut in SW2 tie in.

Sprinklers watering sod, A-2 outside slope and near A-3(AM and PM).

Saddle placed on reclaim line by SW lift station, not complete, to be moved.

Road base material being graded and compacted, with watering at SW-2 ramp, some base material placed at A-3 after the fabric is in place. Waiting on more base material.Late AM grader shaping subgrade along roadway.

SW lift station has been excavated, cutting the leachate line in the process, hydraulic plug was used on the exterior of the bad joint, the leak continued. Mack will have a repair person on site tomorrow AM. 6: PM repairing leachate line with 2 electrofusion couplings.

Comanco:

No work.

Peninsula Survey

B L Smith Electric

Working on temporary control mounting as well as solar panels at metering manhole stations

Miscellaneous:

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 228

CONTRACTOR'S REP.: Greg Hillman **DATE:** 5-09-02, Thursday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 4 day laborer) (including 5 Handex Envir.)	13	Ford Water Truck Cat D6 Dozer Case 580L Backhoe Cat 330B Excavator 1 Volvo L120 Loader 4 Pickup Trucks 1 Bobcat post hole digger Street sweeper 3-in. Pump
COMANCO	0	
SOUTH END DEVELOPMENT	0	
B.L. Smith Electric	1	truck

HOURS INSPECTOR ON JOB SITE: 7:25-6:45

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 229

CONTRACTOR'S REP.: Greg Hillman **DATE:** 5-10-02,Friday

****

VISITORS: Monthly Progress Meeting

Jeff from Alpha controls programs 6 MM boxes

WEATHER: a.m. Clr. p.m. P/Cldy.

TEMP. RANGE: 67°- 91°

RAINFALL: 0"

MAJOR DELIVERIES:More rip rap arriving 0920, 2 trucks, 4 loads of base material late. Ramp in place A-3, Universal tech does densities on backfill and SW2 ramp base material, 0920. Gary Conaway says he thinks LDs should be dropped, I inform him the County has to pay CDM for additional time. SW2 manhole water level still near top until pumped.

****

WORK PERFORMED:

Handex:

Water truck and roller on road base for SW2 ramp. Dozer and roller grading and compacting SW1/SW2 pipe area.

Pipe crew pumps down SW2 preparing for SW2-lift station pipe air test.(tested during meeting, still holding 5 psi after) Dry out SW lift station in preparation for Mack repair crew. Excavator stepping side slopes back away from SW lift station. New location for installed saddle valve is 75' North of the lift station, pipe is stubbed up. Lift station being filled with water and still leaks, more repair ideas are discussed for this weekend. **No substantial completion today!** Lou Sicona to be on site tomorrow.

Comanco:

No work.

Peninsula Survey: On site to shooot monitoring wells again.

B L Smith Electric

Working on temporary control mounting as well as solar panels at metering manhole stations, also installs airtubes to bubbler in flumes.

Miscellaneous:

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 229

CONTRACTOR'S REP.: Greg Hillman **DATE:** 5-10-02, Friday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 4 day laborer) (including 5 Handex Envir.)	13	Ford Water Truck Cat D6 Dozer Roller Case 580L Backhoe Cat 330B Excavator 1 Volvo L120 Loader 4 Pickup Trucks 1 Bobcat post hole digger Street sweeper 3-in. Pump
Peninsula	2	van
SOUTH END DEVELOPMENT	0	
B.L. Smith Electric	1	truck

HOURS INSPECTOR ON JOB SITE: 7:02-5:30

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 230

CONTRACTOR'S REP.: Greg Hillman **DATE:** 5-11-02,saturday

****

VISITORS: None

WEATHER: a.m. Clr. p.m. Clr.

TEMP. RANGE: Hot

RAINFALL: 0"

MAJOR DELIVERIES: None

****

WORK PERFORMED:

Handex Construction:

Dug out the 8" for the rip-rap and layed down frabic, finished putting down frabic for all locations. I counted about five major pieces of equipment on site, and a water truck.Placed call to greg about 1:30 after coming back from lunch to see if they were going to lay rock, (never called back)

Haddex Environmental

Fixed bottom seam on lift station #2 from leaking, the problem was they found no ram-neck, fixed boot , installed pipe, filled up past second ring and watched for leak, I saw some seepage from the second rim and some leakage from boot, very small would not make it to the bottom of the lift station from drying, had a small cave-in from the dirt on lift station #2 no one was hurt but a few of the men refused to go back down the hole.

Comanco:

No work. Some stuff being staged

Peninsula Survey

No Work

Miscellaneous:

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 220 (3)

CONTRACTOR'S REP.: Greg Hillman **DATE:** 5-11-02, Saturday

****

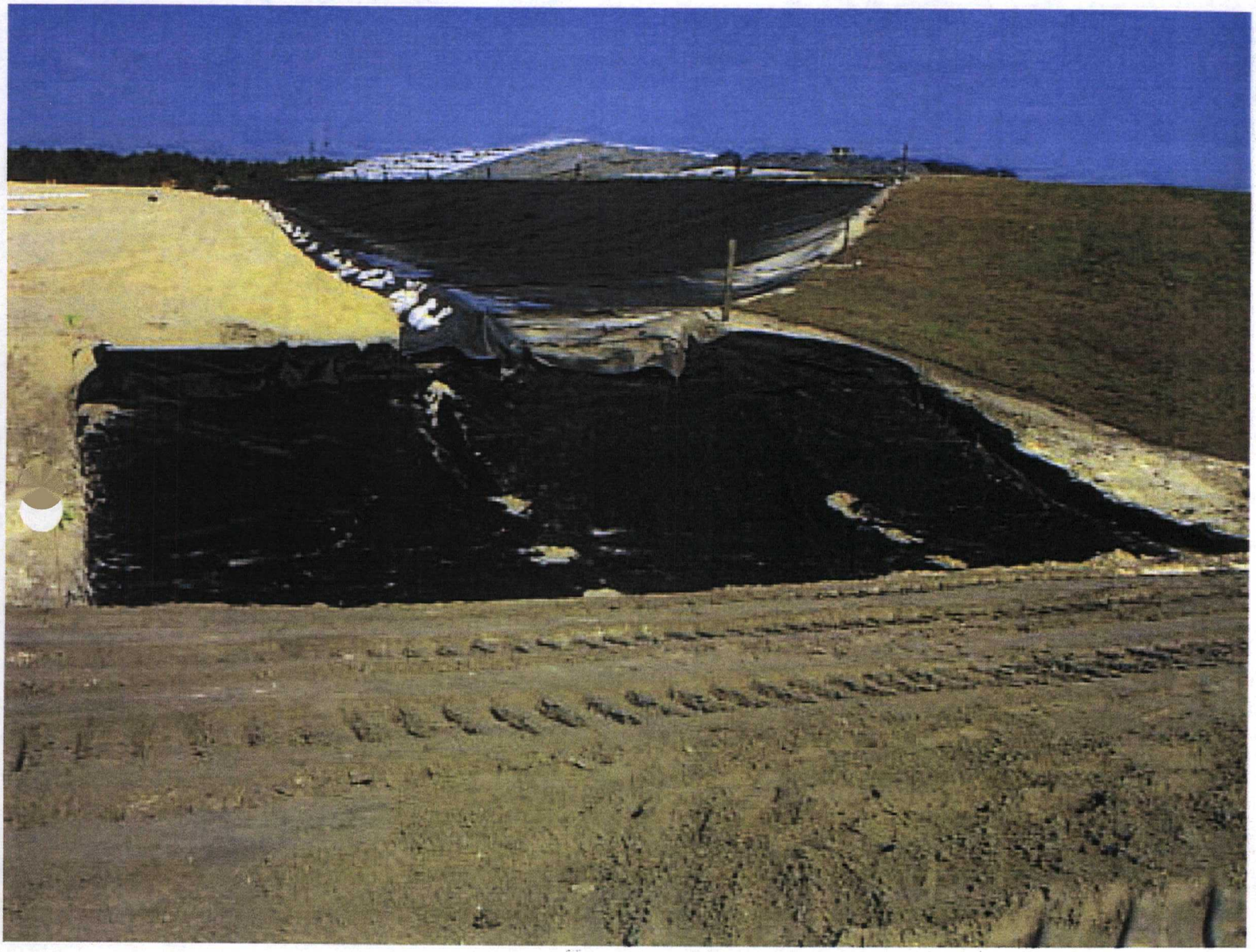
CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 5 Handex Constr) (including 4 Handex Envir.)	9	Ford Water Truck Cat D6 Dozer Case 580L Backhoe Cat 330B Excavator 1 Volvo L120 Loader 4 Pickup Trucks 1 Bobcat post hole digger Street sweeper 3-in. Pump
COMANCO	0	One trailer and one dozer
SOUTH END DEVELOPMENT	0	
B.L. Smith Electric	1	truck

HOURS INSPECTOR ON JOB SITE: 8:00-3:30

Resident Inspector

5-11-02.jpg

Saturday



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APR - 1 2003

SOUTHWEST DISTRICT
TAMPA

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 232

CONTRACTOR'S REP.: Greg Hillman **DATE:** 5-13-02, Monday

****

VISITORS: Hadex saftey Women

WEATHER: a.m. Clr. p.m. Clr.

TEMP. RANGE: Hot and Dry

RAINFALL: 0"

MAJOR DELIVERIES: base for road

****

WORK PERFORMED:

Handex Construction:

Came in about 9:00 and saw that the rip-rock had been placed, in A-3 east and west ditch, and east side of sw-2 they must of finished it up on Sunday, Greg said that they would be getting more in so that they could finish up the rip-rap. Started digging up the roads so that the 18" of base could be placed, Greg said asphalt wouldn't be out till Thursday or Friday. Main road being dug where pipes cross the road at sw-2 going into the manholes. They had a truck that needed to get by so Greg had to put a couple of buckets of dirt down so that the truck could cross, the truck wasn't a county truck, is was some kind of delivery truck. As the truck crossed the patch and made it to the other side it blew two tire and bent the wheels... I think Greg had to pay for it. Finished laying 18" of base on the by sw-2 leachate pipe crossing and starting working on the crossing where the waterlines cross the road, these all get 18" of base.

Haddex enviromental

I didn't see these guys till about 10:30, I guess they had one of the works complain about the cave in on Saturday, also a vist from the safety inspector on Thursday, because all of them are wearing hard hats, orange vest, and they even have caution tape and barricades up around the manholes that aren't covered. Skipper was looking for me to give him an ok to backfill; so I told him what ever you need to do to get it to pass and not leak. For safety reasons he was not aloud to access the manhole till it was backfilled and working conditions were better. Also he was not allowed down there till O2 reading were taken and OSHA standards were met. He told me that he would backfill and drain the water out of the manhole so that he could grout the second and top rings. Skipper feels this will repair all the

leaks, he's also thinking after this he'll be able to fill it and have it pass a ½ inch in 24hrs. I don't think they will even have it pumped down and fixed never mind filling it back up by tonight. If they are able to fix it and fill it by tonight then he is going to mark the water surface, and cover it with plastic. Saturday 5psi of pressure was put on the pipe going from the manhole on sw-2 to lift sation # 2.

Comanco:

Laying 20mm cover, had about 9ppl, talked with clay and he said that they would be done with sw-2 by the end of the week

Peninsula Survey

Two ppl finishing up as-built on the reclaim water line and the leachate lines for A-3

Miscellaneous:

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 232

CONTRACTOR'S REP.: Greg Hillman **DATE:** 5-13-02, Monday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 5 day laborer) (including 3 Handex Envir.)	8	Ford Water Truck Cat D6 Dozer Case 580L Backhoe Cat 330B Excavator 1 Volvo L120 Loader 4 Pickup Trucks 1 Bobcat post hole digger Street sweeper 3-in. Pump
COMANCO	9	A couple of dozers
SOUTH END DEVELOPMENT	0	
B.L. Smith Electric	0	

HOURS INSPECTOR ON JOB SITE: 9-4:00

Louis Sicona
Resident Inspector

5-13-021.jpg

Monday 9:03

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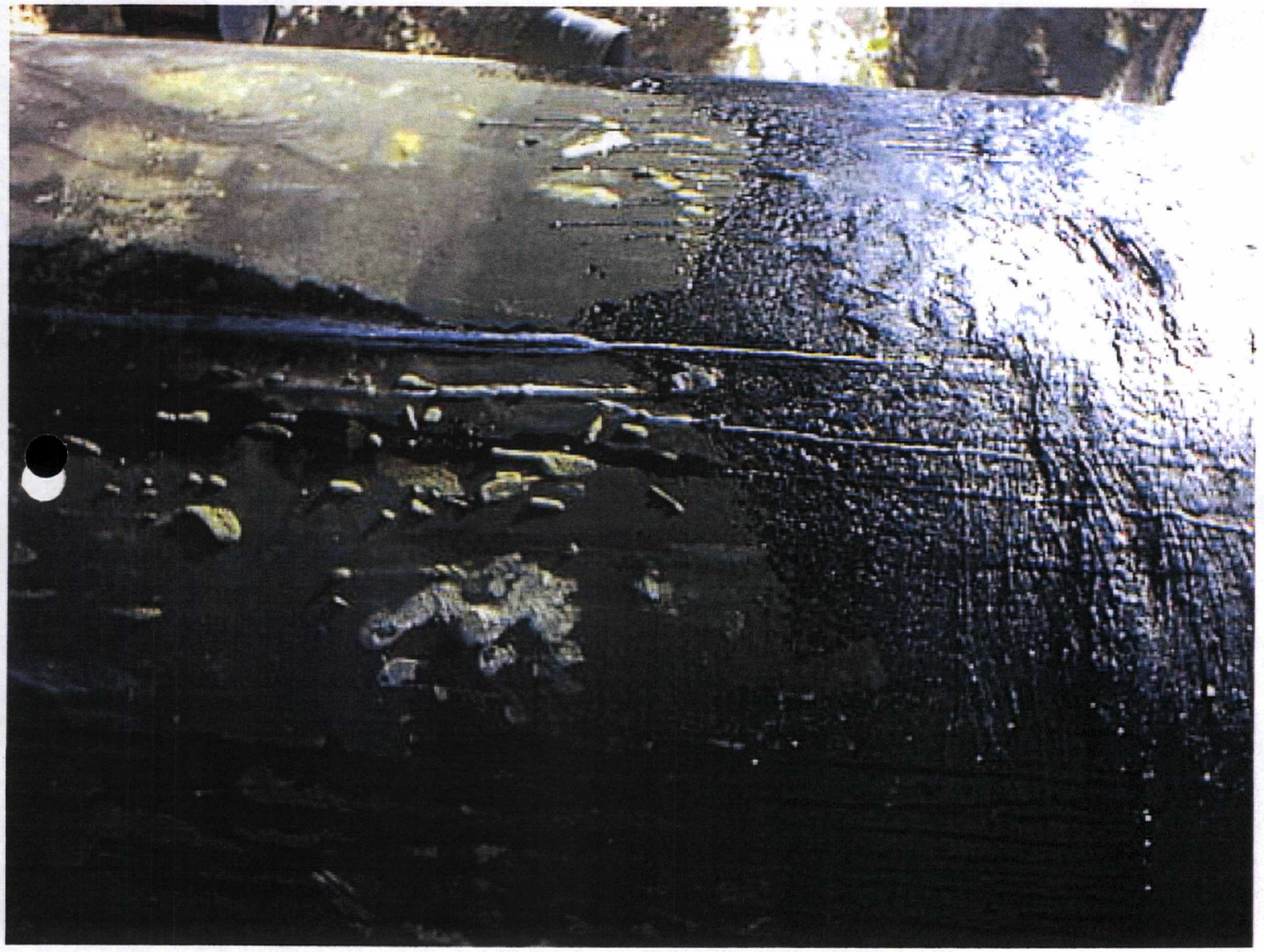
SOUTHWEST DISTRICT
TAMPA

Monday



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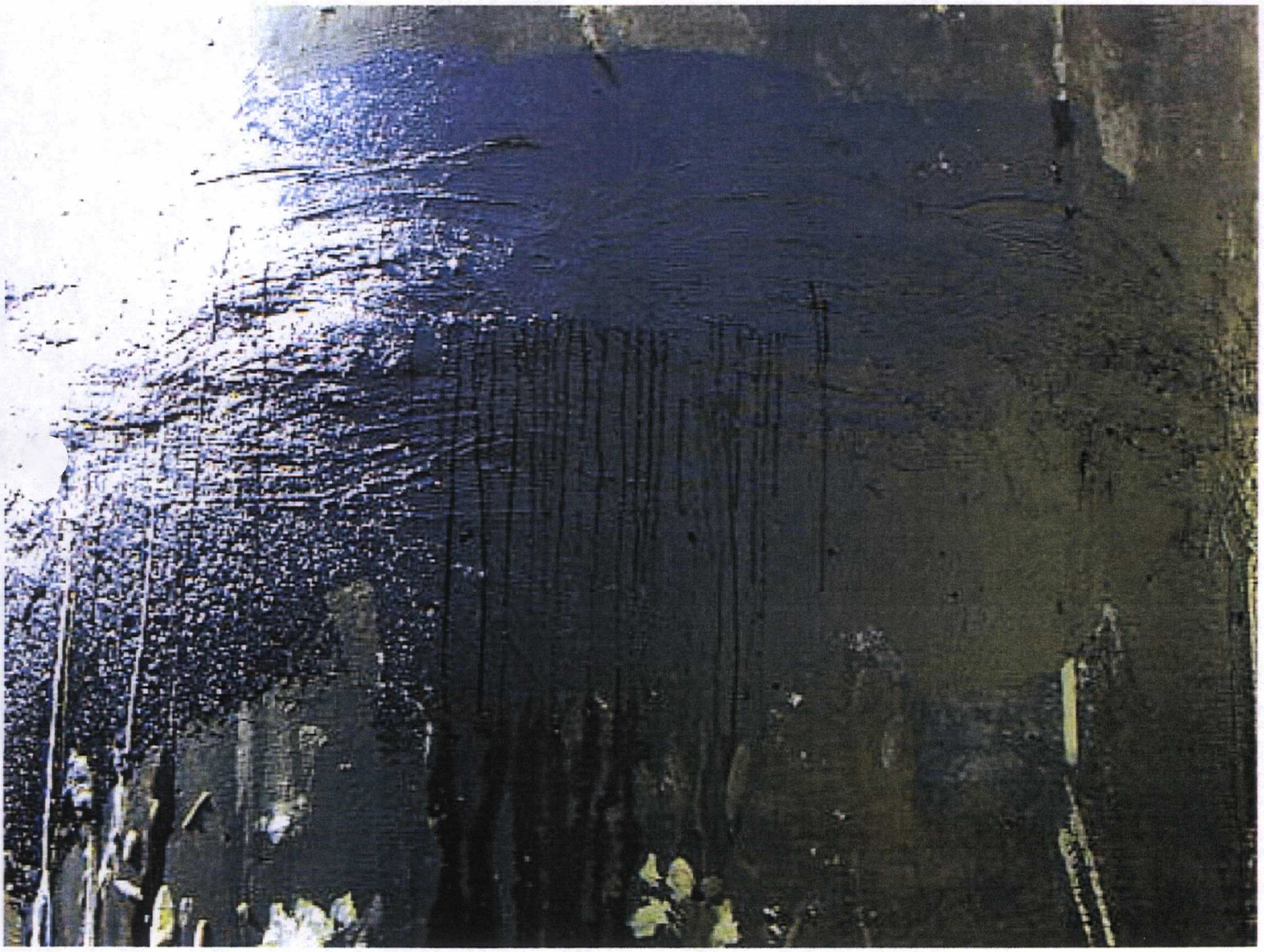
9:09

Monday



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9:09

Monday

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SOUTHWEST DISTRICT
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9:30

5-13-024.jpg

Monday

FLORIDA DEPARTMENT OF
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SOUTHWEST DISTRICT
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Monday

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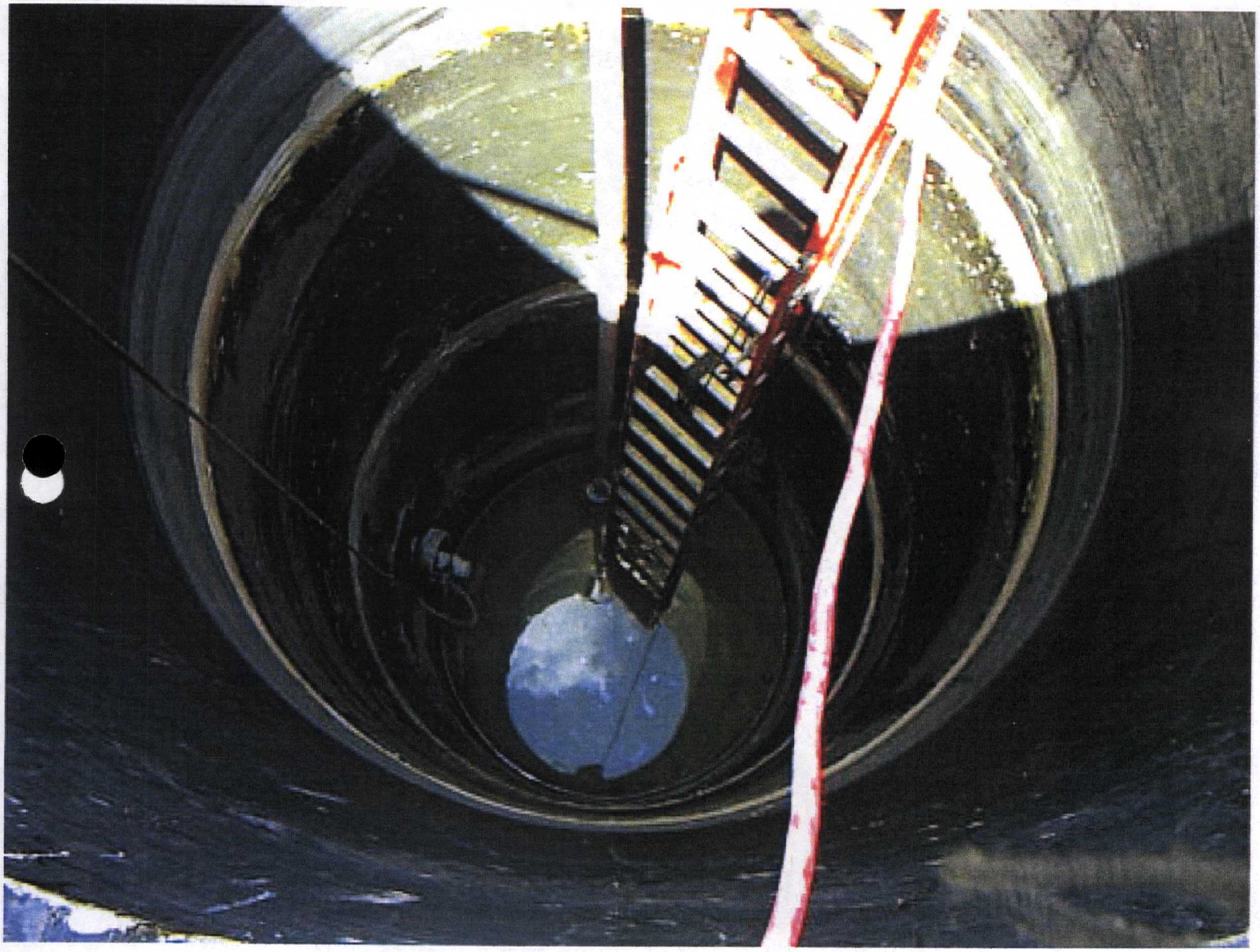
Monday



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5-13-028.jpg

2:22

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 233

CONTRACTOR'S REP.: Greg Hillman **DATE:** 5-14-02, Tuesday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Clr. p.m. Clr.

TEMP. RANGE: Dam Hot

RAINFALL: .1"

MAJOR DELIVERIES: Base for road and Rip-Rap

****

WORK PERFORMED:

Handex Construction:

Got more rip-rap in today and started to finish putting down the rip-rap around sw-2. Also finishing up putting the rest of the base down for the roads, I was told that the pumps may be delivered on Friday. See Photographs.

Haddex Environmental

Some light rain. Skipper arrived about 9:00 so that he also could verify that that Lift station # 2 passed the 24hr ½" test. The Lift station was covered when I got here so that the rain didn't effect that water level, there was some drop in water level but not more then ½". I finally got a reading on the pressure in the pipe going from sw-2 manhole to lift station # 2; it was down to 4psi from a starting pressure of 5psi on Saturday.

Comanco:

Sill Laying 20mm cover, on sw-2 south side

Peninsula Survey

Three ppl finishing up as-built on the reclaim water line and the leachate lines for A-3

Miscellaneous:

DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 233

CONTRACTOR'S REP.: Greg Hillman **DATE:** 5-14-02, Tuesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 3 day laborer) (including 1 Handex Envir.)	26	Ford Water Truck Cat D6 Dozer Case 580L Backhoe Cat 330B Excavator 1 Volvo L120 Loader 4 Pickup Trucks 1 Bobcat post hole digger Street sweeper 3-in. Pump
COMANCO	9	A couple of dozers
SOUTH END DEVELOPMENT	0	
B.L. Smith Electric	0	

HOURS INSPECTOR ON JOB SITE: 8:30-1:30

Louis Sicona
Resident Inspector

Tuesday

FLORIDA DEPARTMENT OF
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TAMPA

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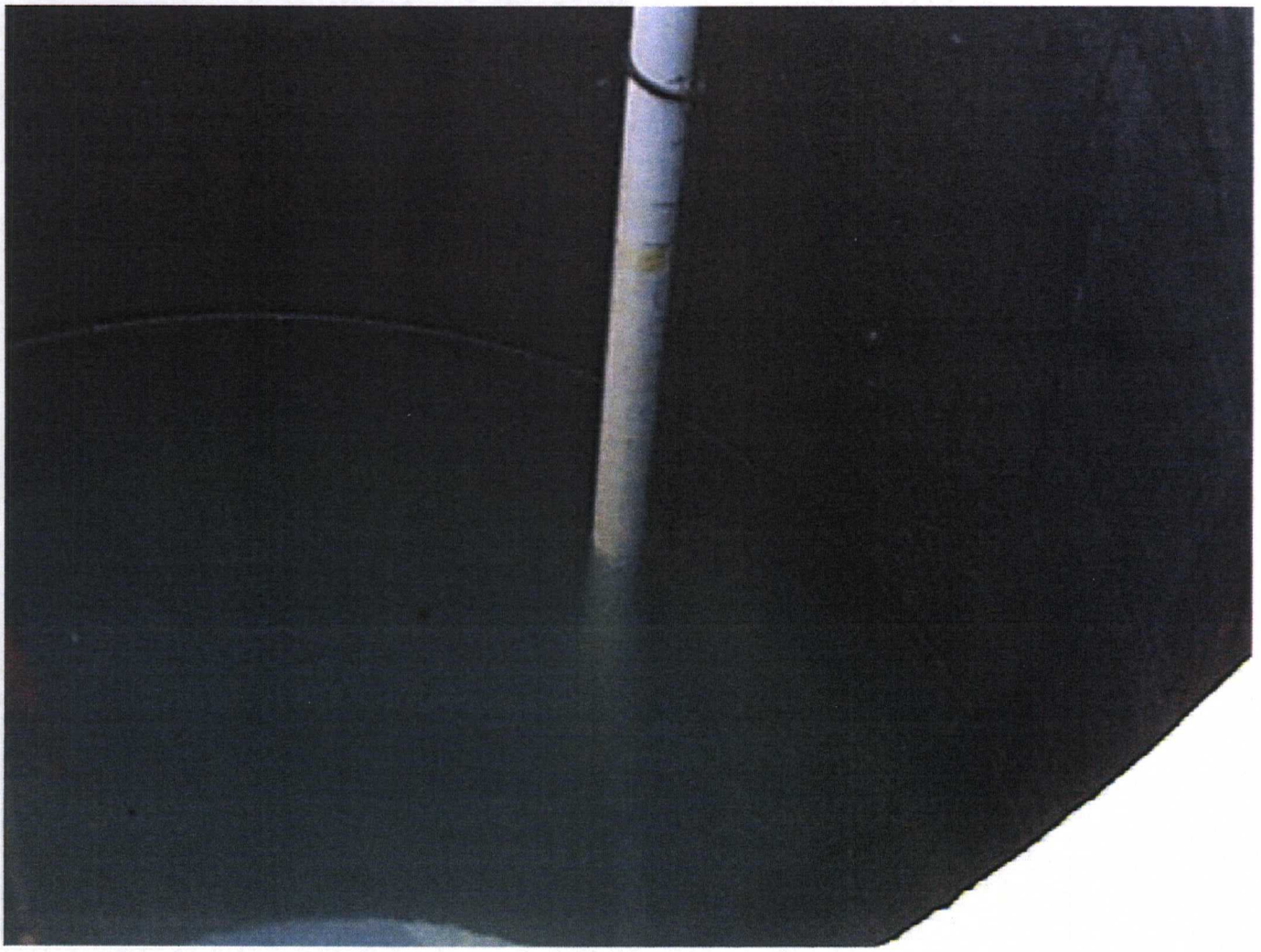
5-14-02

9:38

Tuesday



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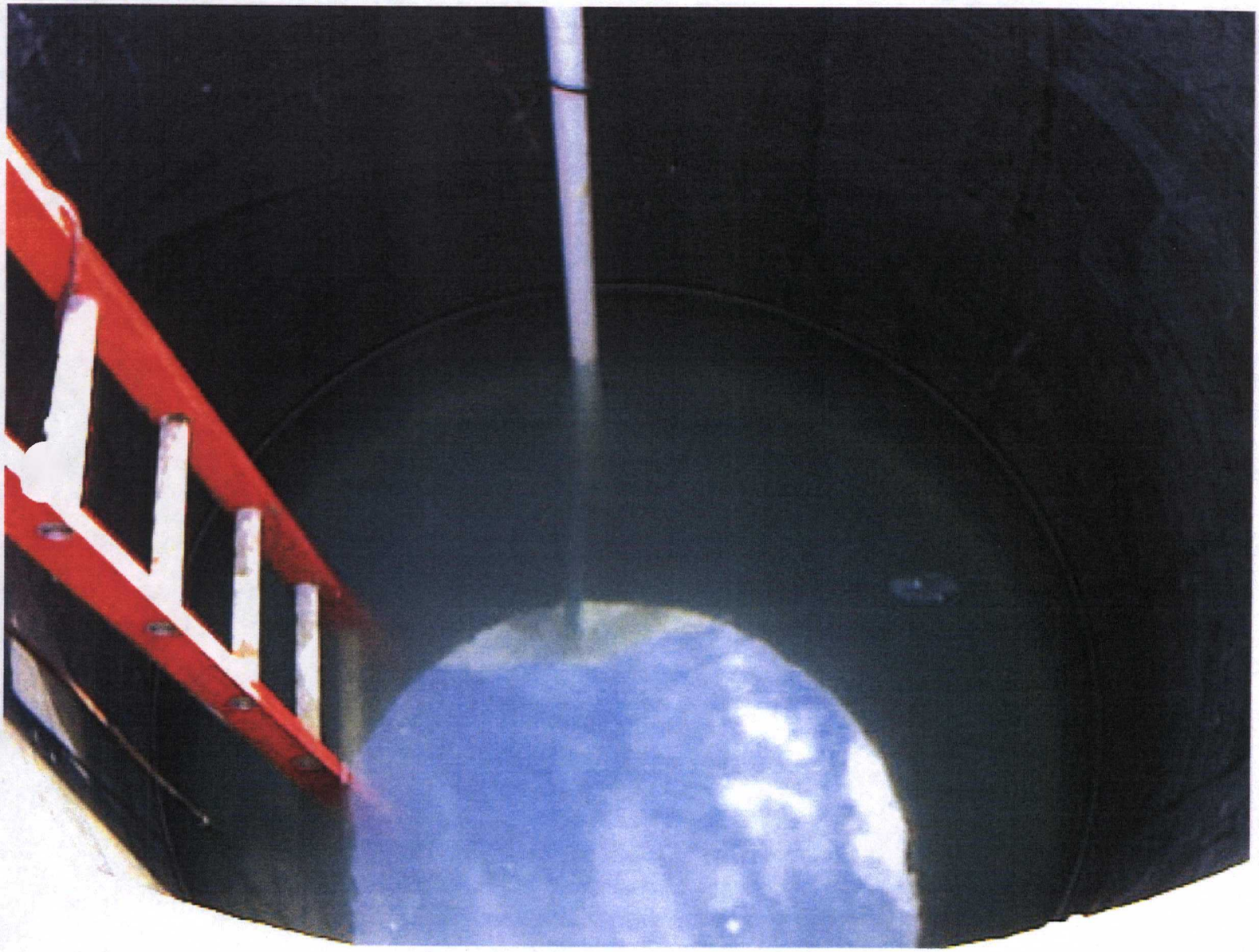
5-14-02

9:39

Tuesday



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APR - 1 2003
SOUTHWEST DISTRICT TAMPA

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5-14-02

9:38

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 234

CONTRACTOR'S REP.: Greg Hillman **DATE:** 5-15-02, Wednesday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Clr. p.m. Cldy.

TEMP. RANGE: Hot – Very Hot

RAINFALL: 0"

MAJOR DELIVERIES: Sod

****

WORK PERFORMED:

Handex Construction:

Finished all roads I verified that 18" of base was compacted. I started to the verifying of the coordinates that Peninsulas design has been working from. Jack had mentioned that they could stated out the middle of the RCP and they had some kind of bust in the N and E. I used a hand held GPS to make sure they were some what close, and they were. Handex also started on the form work for the mitered end sections, the Sod guys started to deploy there stuff today,

Comanco:

North side of SW-2 with the 20mil

Plug Masters

Delopyed Sod.

Miscellaneous:

DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 234

CONTRACTOR'S REP.: Greg Hillman **DATE:** 5-15-02, Wednesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 3 day laborer)	2	Ford Water Truck Cat D6 Dozer Case 580L Backhoe Cat 330B Excavator 1 Volvo L120 Loader 4 Pickup Trucks 1 Bobcat post hole digger Street sweeper 3-in. Pump
COMANCO	9	A couple of dozers

HOURS INSPECTOR ON JOB SITE: 8:00-3:30

Louis Sicona
Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 235

CONTRACTOR'S REP.: Greg Hillman **DATE:** 5-16-02, Thursday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Clr. p.m. Cldy.

TEMP. RANGE: Hot and Breezy

RAINFALL: 3.5"

MAJOR DELIVERIES: Concrete & Sod

****

WORK PERFORMED:

Handex Construction:

Handex finished up the forms for the mitered end sections. They also finished up the rip-rap. The concrete truck showed up about 3:00 and started to pour the mitered end sections, slabs for the valve boxes, and poured the rest of the bollards. Talked with Ron and he told me about putting sod down around on SW-1 south side slope. He and Greg worked out some kind of deal, for the sod.

Comanco:

Finished up with the installation of tires for SW-2.

Plug Masters

Laying sod on the A-3 Perimeter ditch west side.

Miscellaneous:

!

DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 235

CONTRACTOR'S REP.: Greg Hillman **DATE:** 5-16-02, Thursday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 3 day laborer)	2	Ford Water Truck Cat D6 Dozer Case 580L Backhoe Cat 330B Excavator 1 Volvo L120 Loader 4 Pickup Trucks 1 Bobcat post hole digger Street sweeper 3-in. Pump
COMANCO	9	A couple of dozers
Plug masters	10	One Forklift
B.L. Smith Electric	0	

HOURS INSPECTOR ON JOB SITE: 1:00-4:00

Louis Sicona
Resident Inspector

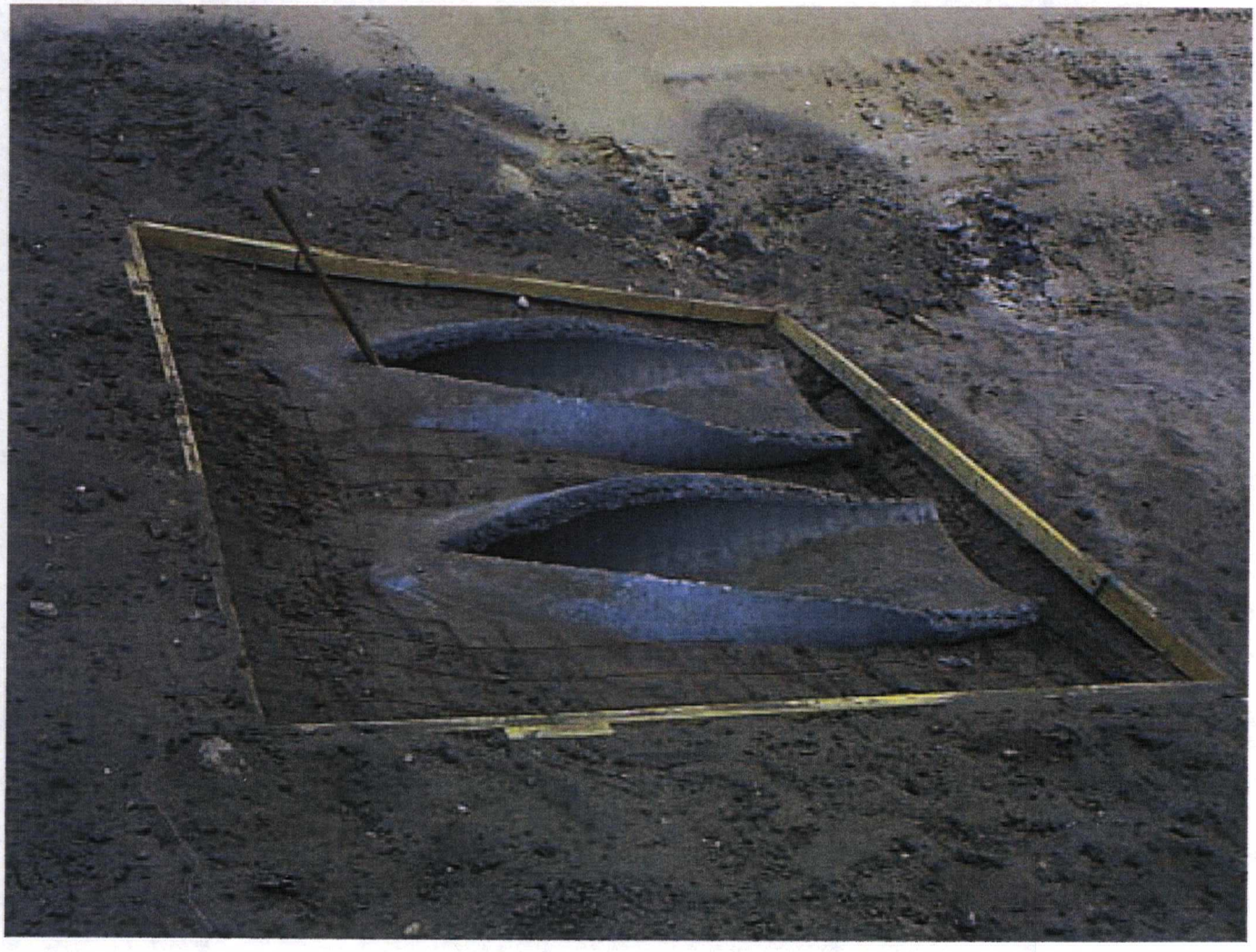
Wednesday

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
APR - 1 2003
SOUTHWEST DISTRICT
TAMPA

Aut_1976.jpg

5-16-02 2:11

Wednesday



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FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
APR - 1 2003
SOUTHWEST DISTRICT
TAMPA

5-16-02 2:11

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 236

CONTRACTOR'S REP.: Greg Hillman **DATE:** 5-17-02, Friday

****

VISITORS: Universal Engineering

WEATHER: a.m. Cldy. p.m. Cldy.

TEMP. RANGE: Hot and Humid

RAINFALL: Fell Thursday night 3.5"

MAJOR DELIVERIES: Sod and More Sod

****

WORK PERFORMED:

Handex Construction:

Start out with the sod guys not being able to lay sod because of the damage done by Thursday nights storm, they were laying sod on the south-west side of A-3 inside the perimeter swale but there was to much erosion from the storm, Greg had to get a Dozer on site so that the regrading could take place they used a scraper(the orange piece of equipment that has a blade on the middle section) to regrade so that plug masters could continue to laying sod. They could only do so much on A-3 because of the damage, so they moved to SW-1 south side slope. I talked with Clayton and he informed me that there was a 1.5' of standing water on the stomwater interceptor swale for A-3 and that he had to pump it into the cell. Finishing up the rip-rap, in front of the mitered end sections. They were on SW-2 mitered end sections. Pumps were to be delivered today, didn't see them. Over herd Universal engineering that the SW-2 road crossing failed the density testing. The top density was 84% and the bottom density was like in the fifties. Could not find greg all day he was out getting equipment and when I did catch up with him he told me he was having lunch with Ron and John. See Photographs for the Damage done by Thursday night's storm.

Comanco:

North side of A-3 with the 20mil

Plug Masters

Putting Down Sod on the South Side of SW-1

Miscellaneous:

!

DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 236

CONTRACTOR'S REP.: Greg Hillman **DATE:** 5-17-02, Friday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 3 day laborer)	2	Ford Water Truck Cat D6 Dozer Case 580L Backhoe Cat 330B Excavator 1 Volvo L120 Loader 4 Pickup Trucks 1 Bobcat post hole digger Street sweeper 3-in. Pump
COMANCO	9	A couple of dozers
Plug Masters	10	One forklift
B.L. Smith Electric	0	

HOURS INSPECTOR ON JOB SITE: 8:00-3:30

Louis Sicona
Resident Inspector

Friday

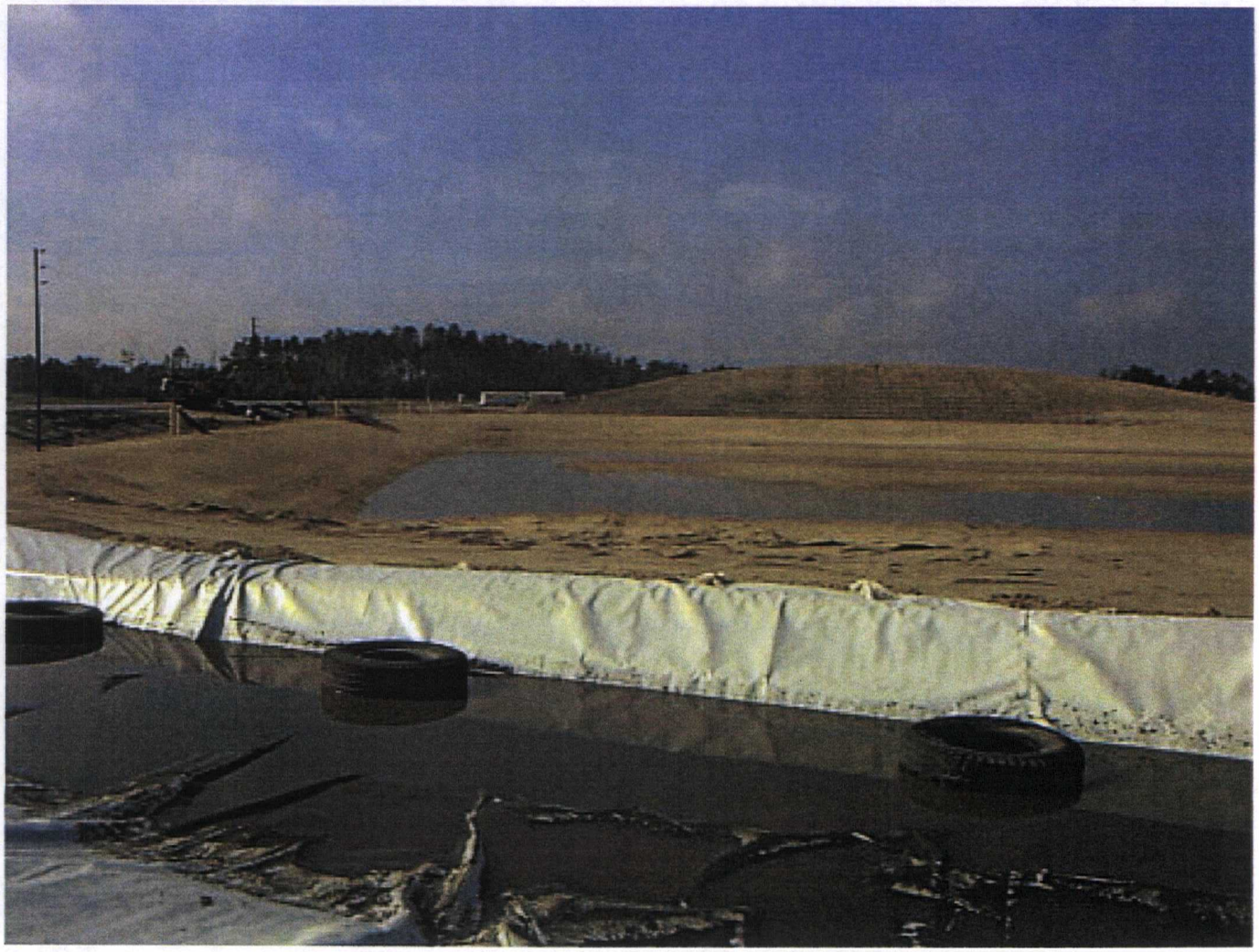
Aut 1978.jpg

5-17-02

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
APR - 1 2003
SOUTHWEST DISTRICT TAMPA

834

Friday



FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION

APR - 1 2003

SOUTHWEST DISTRICT
TAMPA

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5-17-02 · 8:36AM

Friday

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
APR - 1 2003
SOUTHWEST DISTRICT
TAMPA

8:36 AM

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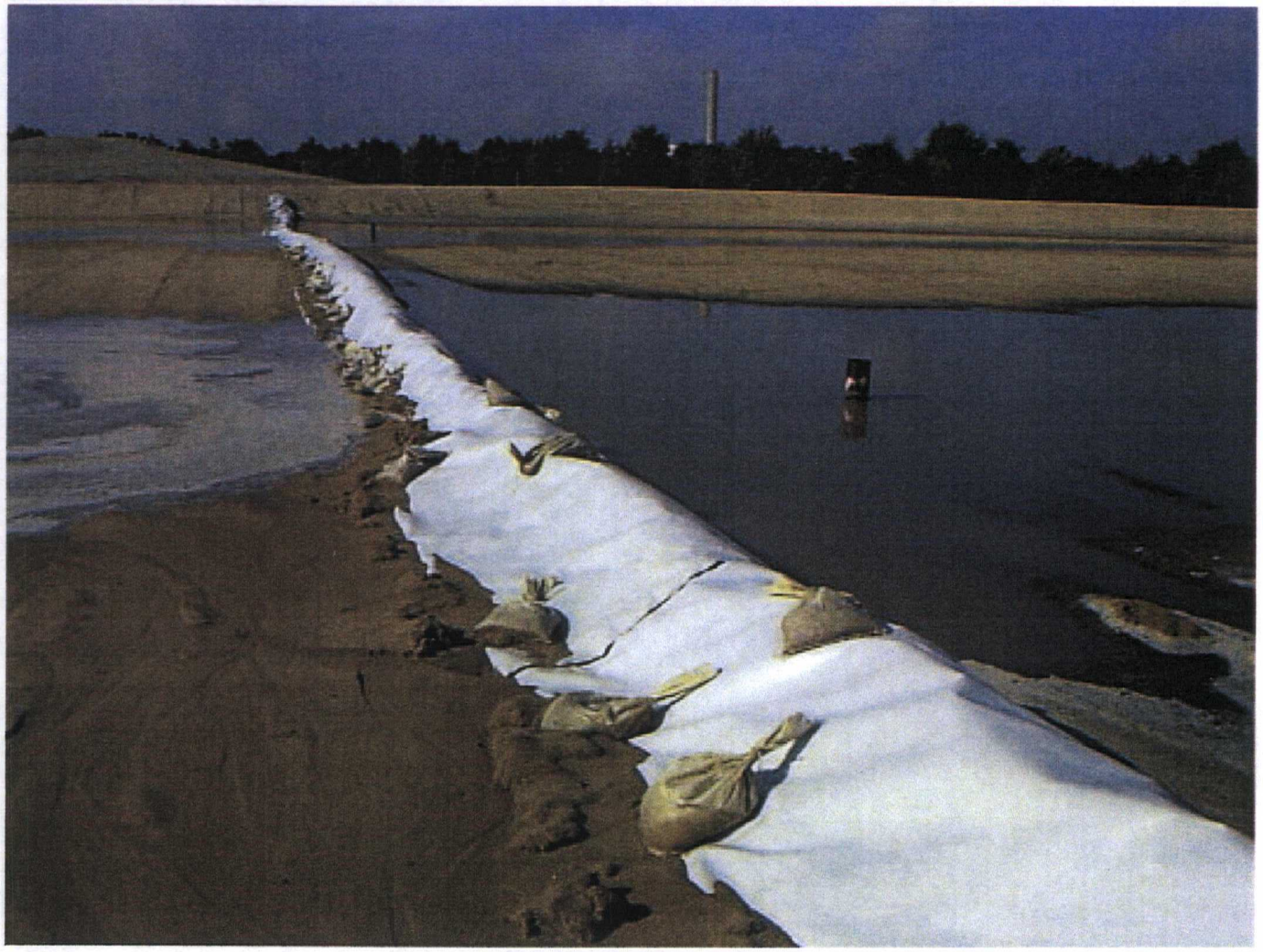
5-17-02

Friday



FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
APR - 1 2003
SOUTHWEST DISTRICT
TAMPA

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5-17-02

4:38

Friday

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
APR - 1 2003
SOUTHWEST DISTRICT
TAMPA

8:45 AM

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5-17-02

Friday

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ENVIRONMENTAL PROTECTION

APR - 1 2003

SOUTHWEST DISTRICT
TAMPA

Aut_1984.jpg

5-17-02 · 8:44

Friday

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
APR - 1 2003
SOUTHWEST DISTRICT
TAMPA

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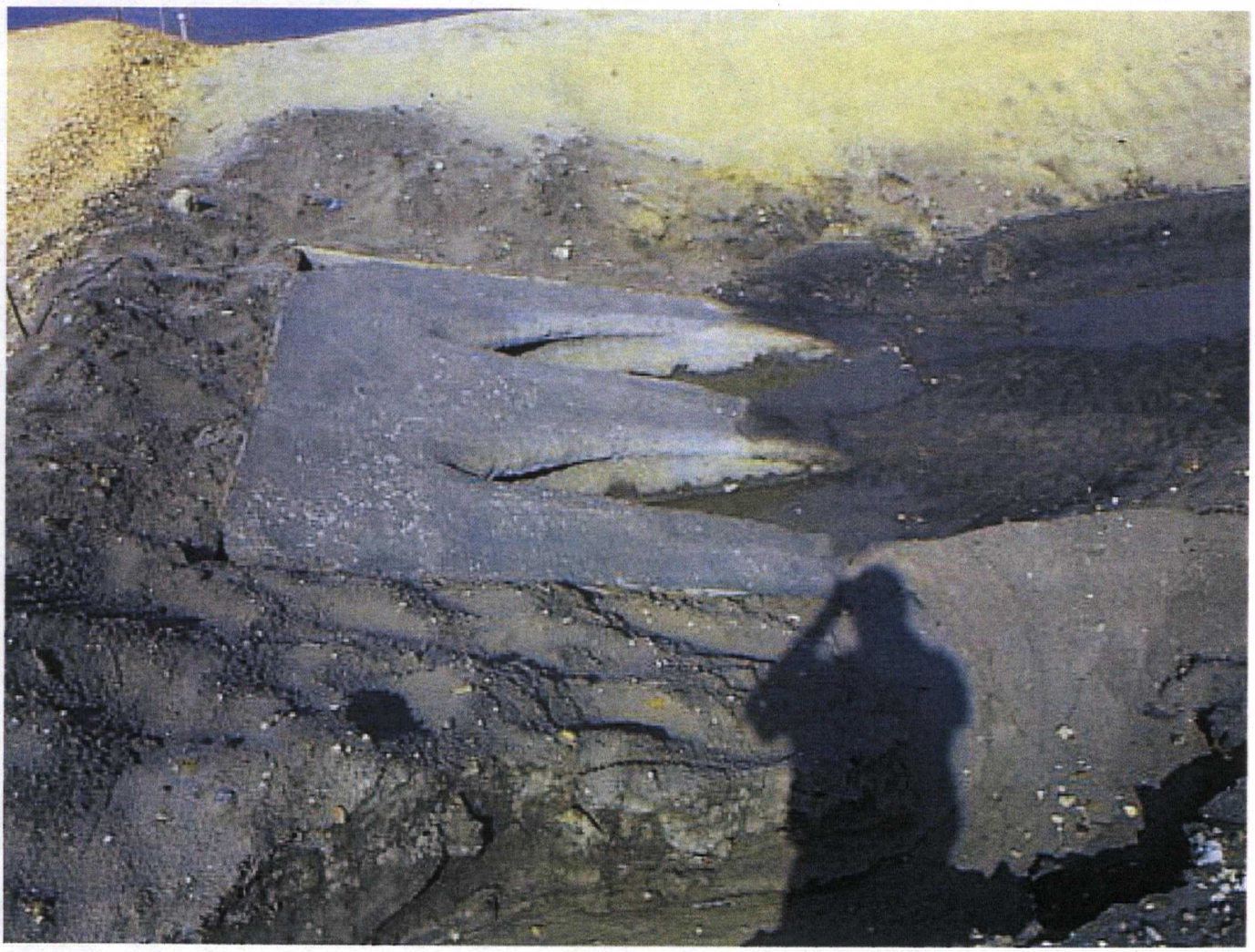
5-17-02 4:47

Friday



FLORIDA DEPARTMENT OF
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APR - 1 2003

SOUTHWEST DISTRICT
TAMPA

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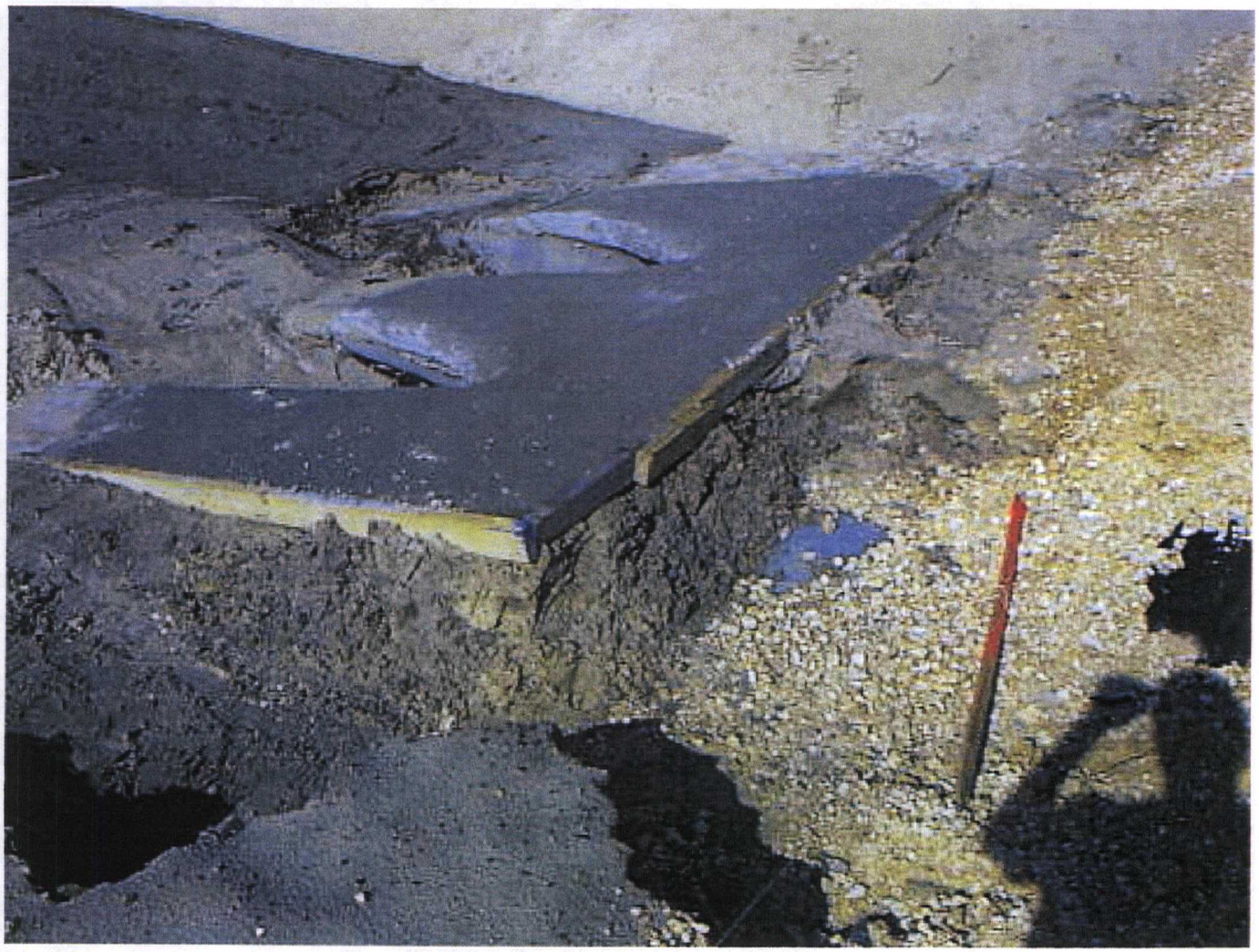
Friday



FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
APR - 1 2003
SOUTHWEST DISTRICT
TAMPA

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5-17-02

9:06

Friday

FLORIDA DEPARTMENT OF
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APR - 1 2003

SOUTHWEST DISTRICT
TAMPA

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5-17-02 9:06

Friday

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION

APR - 1 2003

SOUTHWEST DISTRICT
TAMPA

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5-17-02 9:07

Friday

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION

APR - 1 2003

SOUTHWEST DISTRICT
TAMPA

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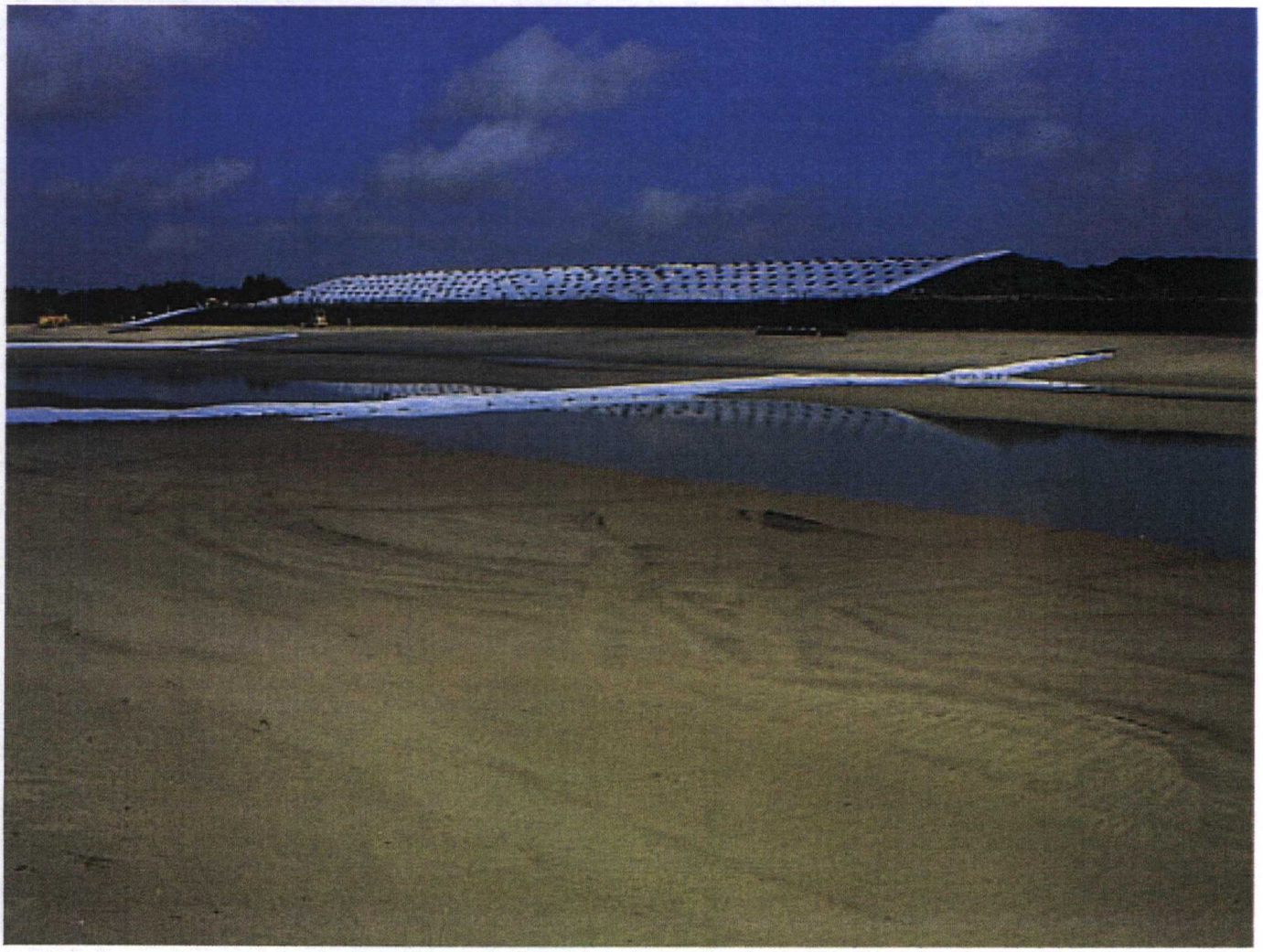
5-17-02 9:02

Friday



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APR - 1 2003

SOUTHWEST DISTRICT
TAMPA

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5-17-02 9:08

Friday

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APR - 1 2003

SOUTHWEST DISTRICT
TAMPA

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5-17-02 9:13

Friday

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APR - 1 2003

SOUTHWEST DISTRICT
TAMPA

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9:15

Friday

FLORIDA DEPARTMENT OF
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APR - 1 2003

SOUTHWEST DISTRICT
TAMPA

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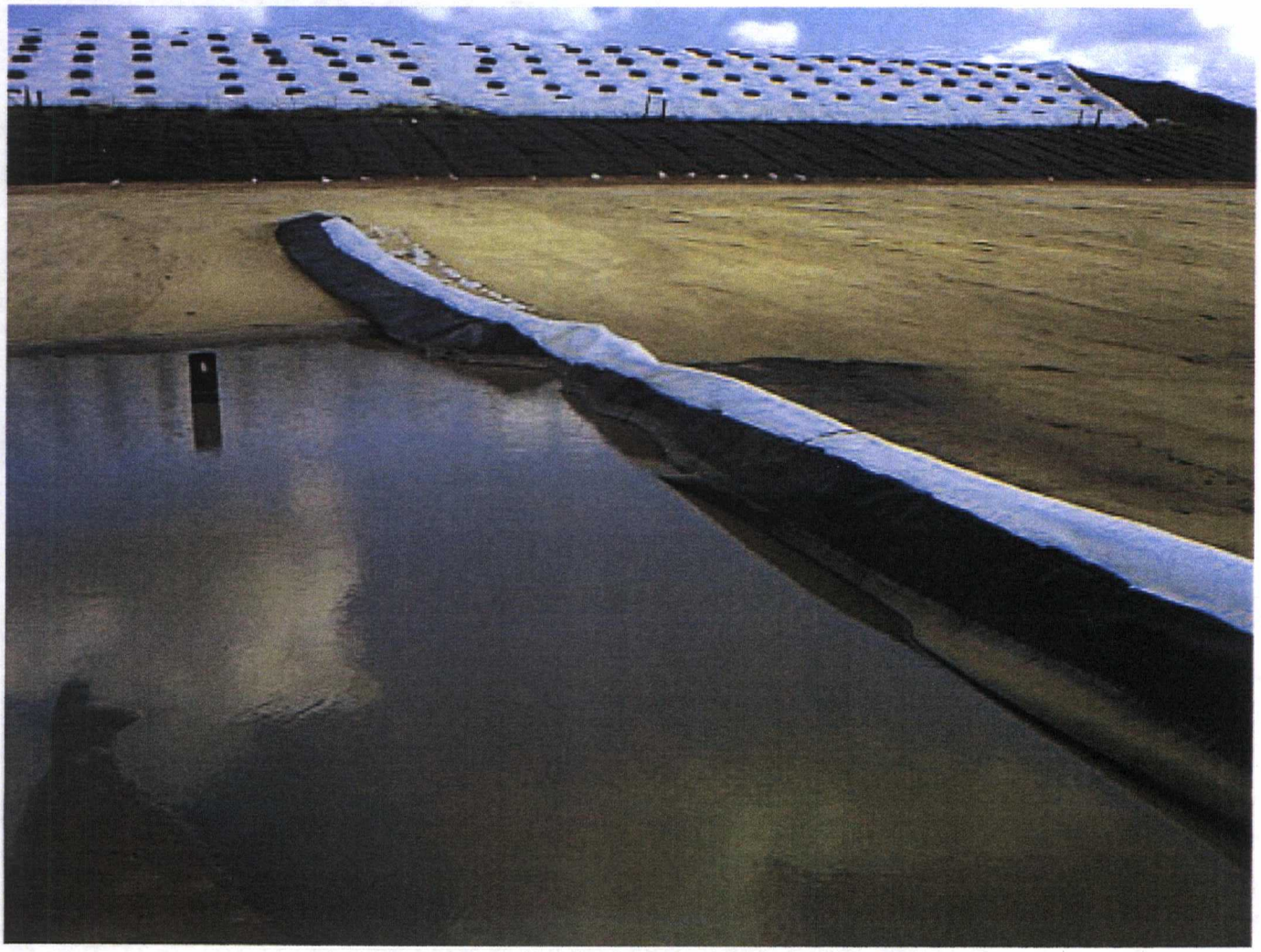
Friday



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APR - 1 2003

SOUTHWEST DISTRICT
TAMPA

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5-17-02

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Friday

FLORIDA DEPARTMENT OF
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APR - 1 2003

SOUTHWEST DISTRICT
TAMPA

Aut_2003.jpg

5-17-02 10:25

Friday

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION

APR - 1 2003

SOUTHWEST DISTRICT
TAMPA

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Friday

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION

APR - 1 2003

SOUTHWEST DISTRICT
TAMPA

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11:12

Friday

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION

APR - 1 2003

SOUTHWEST DISTRICT
TAMPA

Aut_2007.jpg

1:05

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 237

CONTRACTOR'S REP.: Greg Hillman **DATE:** 5-18-02, Saturday

****

VISITORS: None

WEATHER: a.m. Clr. p.m. Prt Cldy.

TEMP. RANGE: Cool

RAINFALL: 0"

MAJOR DELIVERIES: None

****

WORK PERFORMED:

Handex Construction:

Saw Greg and was packing up trailer, he told me that David would be in charge till Tuesday Then someone else from Handex would be in charge. They continued to regrade, lay sod, put down rip-rap, and fix things that were screwed up from Thursday nights storm..

Comanco:

Plug Masters

Finished putting sod down around A-3 South, and East side.

Miscellaneous:

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 237

CONTRACTOR'S REP.: Greg Hillman **DATE:** 5-18-02, Saturday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 4 day laborer)	5	Ford Water Truck Cat D6 Dozer Case 580L Backhoe Cat 330B Excavator 1 Volvo L120 Loader 4 Pickup Trucks 1 Bobcat post hole digger Street sweeper 3-in. Pump
COMANCO	9	A couple of dozers
Plug Masters	10	One fork lift
B.L. Smith Electric	0	

HOURS INSPECTOR ON JOB SITE: 9:00-3:00

Louis Sicona
Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 240

CONTRACTOR'S REP.: Richard Gray **DATE:** 5-21-02,Tuesday

****

VISITORS: _____

_____

_____

WEATHER: a.m.M/cldy. p.m. P/Cldy.

TEMP. RANGE: 66°- 83°

RAINFALL: 0"

MAJOR DELIVERIES: Sod Four lift station pumps

****

WORK PERFORMED:

Handex:

Day laborers saw cutting pavement and removing cut outs at all road crossings. Dozer grading ahead of sod crew, then east of A3, slope wash out. Late PM use Comanco loader to move rip rap from A3 area to northwest of SW1. Handex Environmental spends most of the morning asking questions and setting up, then in the PM place fill at the SW lift station, and form up for slab after placing the lid on the structure.

Plug Masters sod: Crew sodding swales around SW2, shut down 4:00 PM.

B.L. Smith Electric: On site early then depart.

Comanco:

Detail A3 slope and start tires.

Peninsula Survey

No work

Miscellaneous:

County wants Handex to give a price for 6' fence 42'x 42', with mangate, at five solar panel locations. No sod watering was done today.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 240

CONTRACTOR'S REP.: Richard Gray **DATE:** 5-21-02, Tuesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 2 day laborer) (including 3 Handex Envir.)	9	Ford Water Truck J D 650G Dozer Case 580L Backhoe Cat 330B Excavator ,idle 4 Pickup Trucks Gator ATV Fiat Allis Grader Ing/Rand Roller pavement cutter
COMANCO	0	
PLUG MASTERS	9	Forklift
PENINSULA SURVEY	0	Van
B.L. SMITH ELECTRIC	1	Truck
MABEY SHORING	0	

HOURS INSPECTOR ON JOB SITE: 7:20-4:35

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 241

CONTRACTOR'S REP.: Richard Gray **DATE:** 5-22-02,Wednesday

****

VISITORS: _____

_____

_____

WEATHER: a.m.Clr. p.m. P/Cldy.

TEMP. RANGE: 63°- 85°

RAINFALL: 0"

MAJOR DELIVERIES: Sod Control panels for lift stations

Plant bypass begins at 1:10 PM, to SW1.

****

WORK PERFORMED:

Handex:

Day laborers removing broken curb east of SW1, then mounting signs at manholes. Approximately 10:00 rubber tire backhoe and grader back filling pavement cuts. After lunch clean off the road with the street sweeper, rubber tire hoe placing fill at SW lift station. 1:30 inform Richard that John Power did not give all those fence posts to Handex to put up signs, they were for marking limits of liner. Richard says Greg and Ron aggreed to use wooden posts. Don Montgomery says if the County wants metal posts, they can buy them and Handex will mount them. Ron says he only agreed to let Handex use the wooden posts at wash down stations for non-potable sign. Pipe crew working on ash lift station temporary electric, then back to solid waste lift station, pumping water out. Bill says sheet piling will begin tomorrow at SW1 structures. Crew mounts hose racks and grading around SW lift station. Hairline crack on SW lift station second section to be bituminous coated. Sprinklers water sod on A2 slope.

Plug Masters sod: Crew continues sodding swales around SW2, some gap filling in the AM. PM stuck haul truck west of SW1, watering sod with water truck until 4:30.

B.L. Smith Electric: On site with Handex moving electric away from ash lift station, then doing conduits at ash lift station.

Comanco:

A3 tires.

Peninsula Survey

No work

Miscellaneous:

08:15 Ron says they will have to start bypassing to SW1 because the floor is full in the plant. Bypassing will start this afternoon. 09:45 inform Richard when he returns to site that bypass will start after lunch, and road cuts will have to be filled in by then. Several phone calls are made concerning the paving reschedule, and who is responsible for what.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 241

CONTRACTOR'S REP.: Richard Gray **DATE:** 5-22-02, Wednesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 1 day laborer) (including 3 Handex Envir.)	8	Ford Water Truck J D 650G Dozer Case 580L Backhoe Cat 330B Excavator ,idle 4 Pickup Trucks Gator ATV Fiat Allis Grader Ing/Rand Roller streetsweeper pavement cutter
COMANCO	0	
PLUG MASTERS	9	Forklift
PENINSULA SURVEY	0	Van
B.L. SMITH ELECTRIC	1	Truck
MABEY SHORING	0	

HOURS INSPECTOR ON JOB SITE: 7:05-4:45

John C Mayhew III
Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 242

CONTRACTOR'S REP.: Richard Gray **DATE:** 5-23-02,Thursday

****

VISITORS: Kirk Roncone on site PM

WEATHER: a.m.Clr. p.m. M/Cldy.

TEMP. RANGE: 66°- 86°

RAINFALL: 0"

MAJOR DELIVERIES: Sod

Plant bypass day 2.

****

WORK PERFORMED:

Handex:

Rubber tire backhoe placing fill at SW lift station, dozer finishing. Continue installing hose racks. Saw cut pavement at A3 ramp. Replace wood posts with metal posts. Bituminous coating application to SW concrete, blower set up as inside is done. Kirk is on site in the PM to get a game plan and equipment lined up for a final push next week. Some excavation at the ash lift station.

Plug Masters sod: Crew continues sodding west swale around SW2, and slope to SW1. Trucks continue to unload, folding tarps in the road? Before lunch 3 more sod personnel on site watering and filling in gaps in the sod. PM placing sod East of the road, across from the stockpile, working north.

B.L. Smith Electric: No work.

MABEY Bridge & Shoring: PM unloading sheet piling and beams, stacked at ash lift station area.

Comanco: Demobed equipment.

Peninsula Survey: No work

Miscellaneous: Bill Skipper says they will be working Saturday and Sunday. PM Jack and Richard look at the A2/A3 tie in area, Richard suggests grading it flat. Jack says we need to keep the liquid in A2 from flowing into A3. Area to be left alone according to Comanco. Richard says CDM trailer won't depart until the project is complete, Richard asks for a list of punch list stuff for his crew to work on. Jack gives Richard a handwritten list of 8 itams.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 242

CONTRACTOR'S REP.: Richard Gray **DATE:** 5-23-02, Thursday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX 2nd laborer 11:30 (including 1 day laborer) (including 3 Handex Envir.)	8.5	Ford Water Truck J D 650G Dozer Case 580L Backhoe Cat 330B Excavator 4 Pickup Trucks Gator ATV Fiat Allis Grader Ing/Rand Roller streetsweeper pavement cutter
COMANCO	0	
PLUG MASTERS 3 more PM	9	Forklift
PENINSULA SURVEY	0	Van
B.L. SMITH ELECTRIC		Truck
MABEY SHORING	0	

HOURS INSPECTOR ON JOB SITE: 7:10-5:35

Resident Inspector

CDM
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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 243

CONTRACTOR'S REP.: Richard Gray **DATE:** 5-24-02,Friday

****

VISITORS: Ms Davis Handex Safety

WEATHER: a.m.Clr. p.m. M/Cldy.

TEMP. RANGE: 64°- 86°

RAINFALL: 0"

MAJOR DELIVERIES:

Plant bypass day 3.

****

WORK PERFORMED:

Handex:

Grader finish grading along the edge of pavement. Replace PVC bollards southeast of A3, reinstalled gas line markers, street sweep windrow of soil left on pavement. Grader working at stockpile and around site. Holes are drilled in concrete for valve markers. Excavating around ash lift station towards existing manholes, assemble beams for shoring, PM start driving sheeting. Leachate ejection pipe gets broken, late PM it is repaired. Shoring work until 8:30 PM. SW lift station deck slab poured at 3:20 PM, trowel finish with rounded edge. PM removed silt fence from stockpile and haul route. Magnetic tape is placed along leachate force main at road crossings.

Plug Masters sod: Crew continues placing sod East of the road, including a strip along the pavement, across from the stockpile, working north. Sod crew departs 09:30, except 2 running water truck and some gap filling with machetes.

B.L. Smith Electric: No work.

MABEY Bridge & Shoring: Set up beams in excavation, PM sheet piling ash lift station area.

Peninsula Survey: No work

Miscellaneous: Richard questions if the curbs have to be concrete or asphalt, existing were concrete.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 243

CONTRACTOR'S REP.: Richard Gray **DATE:** 5-24-02, Friday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 2 day laborer) (including 5 Handex Envir.)	9	Ford Water Truck J D 650G Dozer Case 580L Backhoe Cat 330B Excavator 4 Pickup Trucks Gator ATV Fiat Allis Grader Ing/Rand Roller streetsweeper JD 690 E excavator arrives pavement cutter departs
COMANCO	0	
PLUG MASTERS	10	Forklift
PENINSULA SURVEY	0	Van
B.L. SMITH ELECTRIC mid AM depart	1	Truck
MABEY SHORING	2	2 trucks and equipment

HOURS INSPECTOR ON JOB SITE: 7:00-5:05

John C Mabey III
Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 244

CONTRACTOR'S REP.: Richard Gray **DATE:** 5-25-02,Saturday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Hzy. p.m. M/Cldy.

TEMP. RANGE: 67°- 88°

RAINFALL: 0"

MAJOR DELIVERIES: _____

Plant bypass day 4

****

WORK PERFORMED:

Handex:

Day laborers doing site clean up. Inform Richard that Clayton of Comanco says no finish grading needed along the A2/A3 tie in area. Day laborers join the crew at Ash lift station. Handex Env has crews at Ash and SW lift stations. SW1 Excavating and placing manhole box to convert existing lift stations to metering manholes. Jack asks County to unlock existing lift stations for Handex, later have Handex open the valve to SW1 hose bibb. Ash sheething support beams are lowered as hole is excavated. 3:15 ash lift station is exposed for dampproofing, but no heads for rollers. 4:25 rollers arrive, 4:45 start painting after brooming lower structure. Bottom 1/3 is double coated, the remainder to be second coat touch as backfilled. Bottom 1/3 is approved for backfilled to pipe stub to existing structure at 6:30. SW1 pipe placed to consolidate flow to one point. Did not core for structure to structure pipe because drill bit did not fit drill. Second penetration bricked with hydraulic cemented from the outside.

Comanco:

No work.

Peninsula Survey

No work

Miscellaneous:

County pumping storm water out of SW2, discharge onto rip rap next to ramp

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex

REPORT NO.: 244

CONTRACTOR'S REP.: Richard Gray

DATE: 5-25-02, Saturday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 2 day laborer) (including 5 Handex Envir.)	9	Ford Water Truck J D 650G Dozer Case 580L Backhoe Cat 330B Excavator 4 Pickup Trucks Gator ATV
COMANCO	0	
PLUG MASTERS	0	
PENINSULA SURVEY	0	Van
B.L. SMITH ELECTRIC	0	Truck
MABEY SHORING	0	

HOURS INSPECTOR ON JOB SITE: 7:00-6:40

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 245

CONTRACTOR'S REP.: Richard Gray **DATE:** 5-26-02,Sunday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Clr. p.m. M/Cldy.

TEMP. RANGE: 67°- 88°

RAINFALL: 0"

MAJOR DELIVERIES: _____

Landfill closed

****

WORK PERFORMED:

Handex:

Day laborers doing site clean up. Inform Richard that County has pointed out sand/silt in RCP under ramps to cells. Day laborers take water truck and clean out RCP. Handex Env has crews at Ash and SW lift stations. SW1 preparing to core for pipe, and install flume to convert existing lift stations to metering manholes. Ash sheething support beams are raised as hole is backfilled. Modify drill to fit drill bit for coring. Drill modified by lunch. Bill questions what the elevations should should be for the cores. I inform him to aim for the design inverts, if the vault bottom is a problem we will adjust, after he shoots some inverts. Second penetration bricked with hydraulic cemented from the outside.

Comanco:

No work.

Peninsula Survey

No work

Miscellaneous:

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 245

CONTRACTOR'S REP.: Richard Gray **DATE:** 5-26-02, Sunday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 2 day laborer) (including 5 Handex Envir.)	9	Ford Water Truck J D 650G Dozer Case 580L Backhoe Cat 330B Excavator 4 Pickup Trucks Gator ATV
COMANCO	0	
PLUG MASTERS	0	
PENINSULA SURVEY	0	Van
B.L. SMITH ELECTRIC	0	Truck
MABEY SHORING	0	

HOURS INSPECTOR ON JOB SITE: 7:30-3:20

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 247

CONTRACTOR'S REP.: Richard Gray **DATE:** 5-28-02,Tuesday

****

VISITORS: Kirk on site,PM buys $3,800 pump, temporary bypass.

WEATHER: a.m. Clr. p.m. MCldy.

TEMP. RANGE: 68°- 89 °

RAINFALL: .3" yesterday, no impact

MAJOR DELIVERIES: 0930 sod truckload unloaded at A3. Bypass to SW1 continues

****

WORK PERFORMED:

Handex: Pumping down leachate in Ash lift station structures, Excavator removing sheathing material at ash lift station, two support beams removed in AM, two in PM. Manhole box and trffic plates protect pipe from old to new. Back hoe continues to bring soil from stockpile to ash lift station area. Laborers switch signs "detection" – "collection" 45 minutes. 0915 SW1 stainless steel bands have bituminous coating, no visual leaks in boots, several feet of liquid in the manholes. Hand backfill under pipes and fittings before equipment backfills and waters, compaction with excavator bucket. Coring SW lift station top for pump installation. Existing ash lift station pipe connection shows no leaks with approximatly 12'head pressure. 11:35 pipe stainless bands coated. A modification of the leachate bypass pumping is done, and the bypass pump cannot push leachate to Crom tank. Some general clean up,stack sheathing by the road. Late PM crew installs new bypass pump.

Plugmaster: Sod double strip along road, sod slope southeast of ash lift station.
PM Fortner seed and mulch arriving on site, but no submittal has been turned in, Richard says subcontractor is advancing at his own risk. Crew begins west of SW1/ 2.

B. L. Smith Electric: working on ash lift station, secondary power pole to be installed, stub up conduit in place, but not install the pole..

E & R Mechanical: Begin doing SW lift station pipe and pumps. Install reclaim hose bibb.

Peninsula Survey: No work

Miscellaneous:

Bill Skipper stated yesterday that he needed an early inspection so he could backfill, I was onsite at 0640, and did not see Bill until 0815. 0845 inform Richard the sod and the rip rap have to meet, no gaps. No rod is to be placed in the lift stations, only weighted float switches per Victor of Pasco County. 11:00 ask Richard for grading as-built and cut and fill quantities. 5:00 suggest to Richard that he call for densities. Fence Price?

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 247

CONTRACTOR'S REP.: Richard Gray **DATE:** 5-28-02, Tuesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 2 day laborer) (including 6 Handex Envir.)	10	Ford Water Truck J D 650G Dozer Case 580L Backhoe Cat 330B Excavator, J Deere 690 ELC exc. 5 Pickup Trucks Gator ATV
E & R MECHANICAL	5	1 pickups, 2 box trucks
PLUG MASTERS	5	Forklift
FORTNER TRACTOR	6	TRUCKS, TRAILERS, TRACTOR
B.L. SMITH ELECTRIC	2	1 Truck
MABEY SHORING	0	

HOURS INSPECTOR ON JOB SITE: 6:40-5:45

John C. Hall III
Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 248

CONTRACTOR'S REP.: Richard Gray **DATE:** 5-29-02,Wednesday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Cldy. p.m. MCldy.

TEMP. RANGE: 70°- 91 °

RAINFALL: 0"

MAJOR DELIVERIES: 2 sod truckloads unloaded at A3, 3:10 PM

Bypass to SW1 continues

****

WORK PERFORMED:

Handex:

Pumping down leachate in Ash lift station structures, Excavator continues to move sheathing material to along the road.Some general clean up, then demo the existing Ash lift station pumps etc. Bill asks that the county go through the materials and pick out what they plan to keep.(10:45 inform Bill that the County wants all the mechanical materials stockpiled along the tree line with the rest from A-2. Laborers fix fence snags and dress up rip rap areas. Ash lift station HDPE pipe modifications begin mid AM.Pipe work stops for a while when the chain saw broke, new one is bought. Skipper bought a new generator at 8:00PM and welding went to 11:00PM.

Plugmaster: No Work.

Fortner seed and mulch stockpile area, both sides of road by the trailer,the haul route behind the cells to A-3. 3:30 he says he will bring 3 tons bulk fertilizer tomorrow.

B. L. Smith Electric: working on SW lift secondary power pole, ground 3 10' rods 20' apart in a triangle.

E & R Mechanical: Doing SW lift station..

Peninsula Survey:

No work

Miscellaneous:

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 248

CONTRACTOR'S REP.: Richard Gray **DATE:** 5-29-02, Wednesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 2 day laborer) (including 6 Handex Envir.)	10	Ford Water Truck J D 650G Dozer Case 580L Backhoe Cat 330B Excavator, J Deere 690 ELC exc. 5 Pickup Trucks Gator ATV
E & R MECHANICAL	5	1 pickups, 2 box trucks
PLUG MASTERS	0	Forklift
FORTNER TRACTOR	6	TRUCKS, TRAILERS, TRACTOR
B.L. SMITH ELECTRIC	2	1 Truck
MABEY SHORING	0	

HOURS INSPECTOR ON JOB SITE: 7:15-3:40 to Office

John C. Hall III
Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 249

CONTRACTOR'S REP.: Richard Gray **DATE:** 5-30-02,Thursday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Clr. p.m. MCldy.

TEMP. RANGE: 74°- 92°

RAINFALL: 0"ovrnt, 2:00 sprinkle, 3:00 rain

MAJOR DELIVERIES: 2 suare power poles. 1:45 sod truckload unloaded at A3 Universal tech on site to do densities at SW1, I suggest SW lift station, and Ash lift station, he will return tomorrow. Receive ditch as-built at 10:40 AM.

Bypass to SW1 continues

****

WORK PERFORMED:

Handex:

Pumping down leachate in Ash lift station structures, coring secondary, digging around electrofusion couplings looking for leaks. Leak found in coupling that welds north half to south half, crooked. Section cut out and replaced with new pipe and one compression fitting. Pipe booted between structures by lunch.12:30 Truck on site from MABEY Shoring, being loaded by Handex excavator, second truck at 2:30. A1 manholes core drilled for pipe that drains from one to the other Also 2:30 the pipe leak is repaired, bituminous coating applied to metal and concrete, backfilling begins. 3:00 light rain while backfilling, 3:15 lightning, crew stops and sits in trucks.. Jack, Richard and seed installer discuss pay quantity, 15 acres is agreed to. At some point crew goes back to work.

Plugmaster: continues sod on slope east of the road working south.

Fortner fertilizing seeded areas, provide tickets, PM more straw and cut in seed.

B. L. Smith Electric: working on SW1 meter rack ,SW control panel, 2:00 ash lift conduit.

(John Power wants plywood removed from stormwater poles, CDX, done PM)

E & R Mechanical: Doing SW lift station, stop for 3:00 rain, then start again later..

Peninsula Survey:

No work

Miscellaneous:

_____

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 249

CONTRACTOR'S REP.: Richard Gray **DATE:** 5-30-02, Thursday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 2 day laborer) (including 6 Handex Envir.)	10	Ford Water Truck J D 650G Dozer Case 580L Backhoe Cat 330B Excavator, J Deere 690 ELC exc. 5 Pickup Trucks Gator ATV
E & R MECHANICAL	5	1 pickup, 2 box trucks
PLUG MASTERS	5	Forklift
FORTNER TRACTOR	5	TRUCK, TRAILER, TRACTOR
B.L. SMITH ELECTRIC	3	2 Trucks
MABEY SHORING	0	

HOURS INSPECTOR ON JOB SITE: 7:20-4:05

John Chu III
Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 250

CONTRACTOR'S REP.: Richard Gray **DATE:** 5-31-02,Friday

****

VISITORS: Handex Env. Proj Mgr.

WEATHER: a.m. Clr/hzy. p.m. MCldy.

TEMP. RANGE: 68°- 92°

RAINFALL: 0"

MAJOR DELIVERIES: Concrete fro ash lift station pad. Universal tech on sit at 11:00 to do densities at ash lift station. I talk to Ron then Richard about trying to pave on a Saturday, Richard suggests Friday PM and Saturday, Richard to check on Paver availability.

Bypass to SW1 continues

****

WORK PERFORMED:

Handex:

Truck on site from MABEY Shoring, being loaded with manhole boxes and traffic plates by Handex excavator.Soil placed around lift station last night, they had a safety incident, crew having a meeting this morning. Jack reminds Skipper of safety switch change order, Bill to coordinate electrical and mechanical work. Hydrualic grout placed in A1 secondary pipe penetrations. Ash lid core drilled for pump pipes, forming for top slab, rebar placed, 2:00 poured. Clean up and grading around the lift station. Laborers repair washouts at A2 mitres and sod crew fills gaps. Laborers dig out sand from under liner at A3 east edge, about 3" fall. Conference Call dictates we will video pipes not air tested. Curb style also agreed to.

Plugmaster: continues sod on slope east of the road working south.
Fortner fertilizing seeded area across from A2/3.

B. L. Smith Electric: working on ash lift station conduit, SW control panel

E & R Mechanical: Doing SW lift station, 2 part coating on pipes inside structure Laying PVC pipe to Ash lift station and painting pipes for ash lift also..

Peninsula Survey:

As-builting leachate pipes to structures

Miscellaneous:

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 250

CONTRACTOR'S REP.: Richard Gray **DATE:** 5-31-02, Friday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 2 day laborer) (including 6 Handex Envir.)	10	Ford Water Truck J D 650G Dozer Case 580L Backhoe Cat 330B Excavator, J Deere 690 ELC exc. 5 Pickup Trucks Gator ATV
E & R MECHANICAL	5	2 pickups, 2 box trucks
PLUG MASTERS	5	Forklift
PENINSULA SURVEY	3	Van
B.L. SMITH ELECTRIC	3	2 Trucks
MABEY SHORING	0	

HOURS INSPECTOR ON JOB SITE: 7:10-4:25

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 251

CONTRACTOR'S REP.: Richard Gray **DATE:** 6-01-02,Saturday

****

VISITORS: _____

_____

_____

WEATHER: a.m. Clr. p.m. MCldy.

TEMP. RANGE: 70°- 92°

RAINFALL: 0"

MAJOR DELIVERIES: 0830, one truckload sod unloaded across from A-3.1130 second truck unloaded. Mid AM generator out of fuel, no power in trailer.

Bypass to SW1 continues

****

WORK PERFORMED:

Handex:

Env crew closing Ash cell valves and pnuamatic plugging lines into Ash lift station structure, rinse it out with the water truck, pump it down, and E & R starts at 0845. Cleaning out valve stem boxes and grading around SW1 area. Valve box pads are poured, and crew sets up to do flume and some demo, but change direction. 1:00 setting up drill to core for vent pipe on SW lift station, the rest of crew loading excess mateial etc. into trucks and trailer. Bill Skipper and Mike to be the only Handex Environmental on site next week.
A3 storm water run off flap drained 3"to the East and 4" to the west, 6-8" remain ponded.

Plugmaster: No work

B. L. Smith Electric: No work

E & R Mechanical: Doing Ash lift station, after Handex washes down structure.

Peninsula Survey:

No work

Miscellaneous:

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 251

CONTRACTOR'S REP.: Richard Gray **DATE:** 6-01-02, Saturday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 0 day laborer) (including 6 Handex Envir.)	8	Ford Water Truck J D 650G Dozer Case 580L Backhoe Cat 330B Excavator J Deere exc. Off rent. 3 Pickup Trucks Gator ATV
E & R ELECTRIC	5	2 pickups, 2 box trucks
PLUG MASTERS	0	forklift
PENINSULA SURVEY	0	Van
B.L. SMITH ELECTRIC	0	Trucks
MABEY SHORING	0	

HOURS INSPECTOR ON JOB SITE: 7:35-1:35

John C Van H CIII
Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 253

CONTRACTOR'S REP.: Richard Gray **DATE:** 6-03-02,Monday

****

VISITORS: _____

_____

_____

WEATHER: a.m. hzy/Clr. p.m. hzy/PCldy.

TEMP. RANGE: 72°- 92°

RAINFALL: 0"

MAJOR DELIVERIES: Noonish, one truckload sod unloaded across from A-3. PM generator delivered to SW lift station. 0930 Richard says the paving contractor wants to pave on Friday if possible: County says a second boiler is down, bypassing will increase.

****

WORK PERFORMED:

Handex:

Day laborers doing site clean up in areas to be curbed, also place more common fill in road cuts.. Suggest to Richard that the sod crew is deploying over lumps at manholes, day laborers may want to rake it out ahead of sod. Crew places some base material at ramps to cells. . Handex Env does some clean up and prepares to test pipes from metering manholes to collection manhole, start at A-3 secondary, fails twice, Bill says improperly placed pnuematic plugs.

Plugmaster: filling in sod gaps, continue slope East of road with sod delivered on Saturday

B. L. Smith Electric: Doing electric at Ash lift station, and some at SW lift station. Set pole at Ash lift station. Electrician questions where stormwater pump poles go, refer to Handex.

E & R Mechanical: Doing Ash lift station, including hose bibb, pressure and vacuum gauges both stations,

Peninsula Survey:

No work

Miscellaneous:

Question arrises, where does pump safety switch get placed? Also where are the lightning arrestors in the lift station control panels? (on drawing, but not on schematic) Abdul to address switch, Kirk to address lightning arrestor.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 253

CONTRACTOR'S REP.: Richard Gray **DATE:** 6-03-02, Monday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 2 day laborer) (including 2 Handex Envir.)	6	Ford Water Truck J D 650G Dozer Case 580L Backhoe Cat 330B Excavator J Deere exc. Off rent. 3 Pickup Trucks Gator ATV
E & R ELECTRIC	5	2 pickups, 2 box trucks
PLUG MASTERS	4	forklift
PENINSULA SURVEY	0	Van
B.L. SMITH ELECTRIC	4	2 Trucks
MABEY SHORING	0	

HOURS INSPECTOR ON JOB SITE: 7:15-4:00

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 254

CONTRACTOR'S REP.: Richard Gray **DATE:** 6-04-02,Tuesday

****

VISITORS: _____

_____

_____

WEATHER: a.m. /Cldy. p.m. Cldy.

TEMP. RANGE: 74°- 92°

RAINFALL: 0"

MAJOR DELIVERIES: Concrete for bollards, both lift stations.

Bypass continues. Portolets gone from site, all of them.

****

WORK PERFORMED:

Handex:

Day laborers doing site clean up, and grading by ash lift station area. Suggest to Richard that the surveyors as-built lift station piping before finish grading over pipes. Handex Env does some clean up and prepares to test pipes from metering manholes to collection manhole, start at A-3 secondary, fails, sand and or mud in the pipe, and the guage shows a leak when soaped. Gary says the system start up will be this Friday, he had already talked to John Power. Jack asks John Power, John Power says he had a message, but had not agreed to anything, supposed to have a weeks notice, system to be operational, and right now his people are all working on the bypass. Start bollards at ash lift station, started SW lift late yesterday, pour inside and out on all four. Paint reuse valve boxes lavender.

Plugmaster: filling in sod gaps, continue slope East of road ,PM some grass watering with truck. Sod and water ash lift station.

B. L. Smith Electric: Doing electric at Ash lift station, and start rack for flow meters at A1.

E & R Mechanical: No work

Peninsula Survey:

No work

Miscellaneous:

Tony from Barney's pumps says all punps need safety switchs, according to Abdul. Tony will wire them in to the box, but the mechanical needs to be done. Bill Skipper says he will get 4 saddles 4"to 1"

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 254

CONTRACTOR'S REP.: Richard Gray **DATE:** 6-04-02, Tuesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 2 day laborer) (including 2 Handex Envir.)	6	Ford Water Truck J D 650G Dozer Case 580L Backhoe Cat 330B Excavator J Deere exc. Off rent. 3 Pickup Trucks Gator ATV
E & R Mechanical	0	0 pickups, 0 box trucks
PLUG MASTERS	6	forklift
PENINSULA SURVEY	0	Van
B.L. SMITH ELECTRIC	1	1 Trucks
MABEY SHORING	0	

HOURS INSPECTOR ON JOB SITE: 7:15-3:55

John C. Hyatt III
Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 255

CONTRACTOR'S REP.: Richard Gray **DATE:** 6-05-02,Wednesday

****

VISITORS: _____

_____

_____

WEATHER: a.m.M /Cldy. p.m.M/ Cldy.

TEMP. RANGE: 75°- 92°

RAINFALL: 0"

MAJOR DELIVERIES: Concrete for curbs, 3:00 PM Valve stems arrive

Bypass continues. 1 Portolet back on site.

Electrical inspection did not pass, reshceduled for Friday. (needed seal offs)

****

WORK PERFORMED:

Handex:

Day laborers and operator doing site grading , filling in ruts etc. Bill Skipper was unable to do pipe tests this morning because Mike his helper had to go to the doctor, sand in his eyes. Two people are needed for confined space entry. Bill says they will just clean out the pipes and video them. Bill goes on to ask if they can use paint as primer, after I look at the cans, I recommend using primer as primer. Laborers prime two bollards and SW lift station piping. Some base material placed near SW1 valve box. Crew installs valve stem extensions on ball valves

Curb crew.Chalk line curb area, petroleum product placed, pour with a machine, curb follows highs and lows of poorly graded edge.

Plugmaster: Sodding around ash lift station and A1structures.

B. L. Smith Electric: Doing electric at Ash lift station, and A3

E & R Mechanical: No work

Peninsula Survey:

No work

Miscellaneous:

Truck removing conex bloked traffic for 30 minutes

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 255

CONTRACTOR'S REP.: Richard Gray **DATE:** 6-05-02, Wednesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 2 day laborer) (including 1 Handex Envir.)	5	Ford Water Truck J D 650G Dozer departsPM Case 580L Backhoe Cat 330B Excavator J Deere exc. Both depart today 2 Pickup Trucks Gator ATV Conex removed, Comanco's also
E & R Mechanical	0	0 pickups, 0 box trucks
PLUG MASTERS	4	Forklift
PENINSULA SURVEY	0	Van
B.L. SMITH ELECTRIC	1	1 Trucks
CURB CONTRACTOR	5	

HOURS INSPECTOR ON JOB SITE: 11:00-4:50 AM office

John C. Hyatt III
Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 256

CONTRACTOR'S REP.: Richard Gray **DATE:** 6-06-02,Thursday

****

VISITORS: _____

_____

_____

WEATHER: a.m.Cldy. p.m.Cldy.

TEMP. RANGE: 74°- 92°

RAINFALL: 0"trace

MAJOR DELIVERIES: Bypass continues.

****

WORK PERFORMED:

Handex:

Continuing clean up and painting. 0830 Load extra pipe on to a flatbed to be taken back to Mt Dora, concrete pipe is given to Road and Bridge dept. ** 7:00 PM,Late in the day Bill Skipper and Mike connect leachate pipe from SW lift station to the existing line.

Florida Jet Clean: On site to video pipes, camera gets stuck in fitting 9' into A2 primary, eventually cut the cable and depart, to return tomorrow to retreive the camera

Plugmaster: Sodding gaps, use up last 5 pallets of sod from Monday.

B. L. Smith Electric: Doing electric at Ash lift station and seal offs at both cotrol panels

E & R Mechanical: No work

Peninsula Survey:

No work

Miscellaneous:

About 1:15 PM Richard says Gary told him to get thetrailers and everthing gone by Monday, I inform him to look at Spec sections 1590 1.01B, and to C, he will have Handex trailer removed, and will move remaining materials into east end of my trailer.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 256

CONTRACTOR'S REP.: Richard Gray **DATE:** 6-06-02, Thursday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 1 day laborer) (including 2 Handex Envir.)	5	Ford Water Truck J D 650G Dozer departsPM Case 580L Backhoe Cat 330B Excavator J Deere exc. Both depart today 2 Pickup Trucks Gator ATV Conex removed, Comanco's also
E & R Mechanical	0	0 pickups, 0 box trucks
PLUG MASTERS	5	Forklift Couple hours
PENINSULA SURVEY	0	Van
B.L. SMITH ELECTRIC	1	1 Trucks
FLORIDA JET CLEAN	2	Truck, trailer, van

HOURS INSPECTOR ON JOB SITE: 7:10-4:05

John C Van Ness III
Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 257

CONTRACTOR'S REP.: Richard Gray **DATE:** 6-07-02,Friday

****

VISITORS: Kim Ford DEP

WEATHER: a.m.Cldr. p.m.M/Cldy.

TEMP. RANGE: 72°- 90°

RAINFALL: 0"

MAJOR DELIVERIES: Bypass continues.

****

WORK PERFORMED:

Handex:

Continuing clean up and some grading. Bill Skipper says this is start up day, Jack gives copy of start up spec to Bill, and informs him to comply with specs, the system needs to be operational and coordination with the county for training needs to be set up. Some discussions between Handex and FJC.(see below) 11:00 Richard departs for home, Bill Skipper is now incharge. Also at 11:00 SW lift station passes electrical inspection. ** 1:00 PM, Bill Skipper and Mike connect leachate pipe from Ash lift station to existing force main, after tightening connections a couple times, leaks stop and fittings are coated wuth bituminous coating.

Florida Jet Clean: On site to retreive the camera, ask Handex to dig it up, Handex wants a change order, FJC says bad piping. Borrows Handex equipment for confined space entry, Billy from Comanco trying to extract camera, no luck.

Plugmaster: Mike says Handex wants final seed and mulch on Monday, I mention to him some electric needs to be run. He says he will hand seed after trencher. I inform him it is up to the contractor.

B. L. Smith Electric: Doing temporary electric at ash cotrol panel. Setting up for generator at SW lift station.

E & R Mechanical: No work

Barney's Pumps: AM runs pumps at SW lift station,PM working on Ash lift station, some pump problems at Ash. First pump has problems keeping up with leachate, 2nd keeps up. Abdul talking with Barney's office.

Peninsula Survey: 11:00 Some as-built work coordinated by Bill Skipper, Tim asks Jack about sod survey, inform him it is a Handex decision.**Miscellaneous:** .

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 257

CONTRACTOR'S REP.: Richard Gray **DATE:** 6-07-02, Friday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 1 day laborer) (including 2 Handex Envir.)	5	Ford Water Truck Case 580L Backhoe 3 Pickup Trucks
Comanco	1	1 pickup
PLUG MASTERS	1	Forklift
PENINSULA SURVEY	2	Van
B.L. SMITH ELECTRIC	1	1 Trucks
FLORIDA JET CLEAN	2	Truck, trailer, van

HOURS INSPECTOR ON JOB SITE: 7:10-4:05

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 258

CONTRACTOR'S REP.: Bill Skipper **DATE:** 6-08-02,Saturday

****

VISITORS: _____

_____

_____

WEATHER: a.m.Cldy. p.m.M/Cldy.

TEMP. RANGE: 73°- 89°

RAINFALL: 0"

MAJOR DELIVERIES: Bypass continues.

****

WORK PERFORMED:

Handex:

Pump 2 at the ash lift station is maintaining leachate. SW lift station generator is not running in the morning Bill Skipper says he turned it off to save on fuel last night, after turning it back on pumps are running on auto. Pump 2 has been keeping up with ash leachate overnight, pump running on auto.More Handex Env. crew show up and the crew is doing the demo of SW1 primary, flume to be installed today also. Cut off pipe from old pumps has grout pushed into them, the end by the new lift station tie in was DI capped. Laborer digs a trench between structures at A1and SW1, holes to be drilled for bubbler tubes. Laborer paints bollards at SW lift and A3 road curve. Leachate pipe from SW lift station to existing force main, bolts are tightened, fittings are coated with bituminous coating.

Florida Jet Clean: No work

Plugmaster: No work

B. L. Smith Electric: No work

E & R Mechanical: No work

Barney's Pumps: No work

Peninsula Survey: No work

Miscellaneous: .

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 258

CONTRACTOR'S REP.: Bill Skipper **DATE:** 6-08-02, Saturday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 1 day laborer) (including 4 Handex Envir.)	6	Ford Water Truck Case 580L Backhoe 3 Pickup Trucks
Comanco	0	1 pickup
PLUG MASTERS	0	Forklift
PENINSULA SURVEY	0	Van
B.L. SMITH ELECTRIC	0	Trucks
FLORIDA JET CLEAN	0	Truck, trailer, van

HOURS INSPECTOR ON JOB SITE: 7:15-

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 260

CONTRACTOR'S REP.: Bill Skipper **DATE:** 6-10-02,Monday

****

VISITORS: _____

_____

_____

WEATHER: a.mP/.Cldy. p.m.M/Cldy.

TEMP. RANGE: 70°- 90°

RAINFALL: 0"

MAJOR DELIVERIES: Bypass continues. Paint arrives late.

****

WORK PERFORMED:

Handex:

Pump 2 at the ash lift station is maintaining leachate. SW lift station generator is not running in the morning Bill Skipper says he turned it off to save on fuel, after turning it back on pumps are running on auto. Handex Env. crew shows up at 0830 and the crew is doing the demo of SW1 primary, flume to be installed today also, demo did not happen, so no flume today either. A1and SW1, holes to be drilled for bubbler tubes, drill bit stopped at rebar, to try another drill tomorrow.Crew does site cleanup, especilly where trailer was removed. Crew waits on site for paint to arrive, couple hours.

Florida Jet Clean: No work

Plugmaster: No work, Mike promises to start watering, maybe this afternoon.

B. L. Smith Electric: No work

E & R Mechanical: No work

Barney's Pumps: No work

Peninsula Survey: No show.

Miscellaneous: .Inform Bill Skipper that all the invert information is needed at the ash lift station for pump calculations, he will have the surveyors shoot that today when they come out for as-builting, and sod take off. Don Montgomery wants all the sod surveyed. Inform Bill Skipper, Don Montgomery and Plugmaster no sod will be paid for at this time, will pay for half of the seeded area. Paperwork still outstanding on sod and brown sod still prevalent. Ron Walker watering the road this morning. CDM to provide drawings for stormwater poles. Bill Skipper informs Jack, Handex intends to have liner crew repair existing structure penetrations and plugs

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 260

CONTRACTOR'S REP.: Bill Skipper **DATE:** 6-10-02, Monday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 1 day laborer) (including 3 Handex Envir.)	4	Ford Water Truck Case 580L Backhoe 3 Pickup Trucks Handex trailer removed today
Comanco	0	Pickup
PLUG MASTERS	1	Forklift
PENINSULA SURVEY	0	Van
B.L. SMITH ELECTRIC	0	Trucks
FLORIDA JET CLEAN	0	Truck, trailer, van

HOURS INSPECTOR ON JOB SITE: 7:10-3:45

John C McGlothlin III
Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 261

CONTRACTOR'S REP.: Bill Skipper **DATE:** 6-11-02,Tuesday

****

VISITORS: Kirk on site PM

WEATHER: a.m.P/Cldy. p.m.M/Cldy.
TEMP. RANGE: 73°- 90°
RAINFALL: 0" 2:20 PM sprinkle

MAJOR DELIVERIES: Bypass continues.

****

WORK PERFORMED:

Handex:

Pump 2 at the ash lift station is maintaining leachate. SW lift station generator is running this morning. Handex Env. crew and day laborers priming lift station piping. A1and SW1, holes to be drilled for bubbler tubes, new drill being used today. Bill Skipper says surveyors are pushed back to Friday, I inform him that will delay the CDM/ Barney Pump resolution of the ash lift pump one problem. Crew paints lift station piping grey. Look at valves on leachate lines, to do pressure tests tomorrow.

Florida Jet Clean: No work

Plugmaster: No work,

B. L. Smith Electric: Install conduits for flow switches, and bubbler tubes.

E & R Mechanical: No work

Barney's Pumps: No work

Peninsula Survey: No show,rescheduled for Friday

Miscellaneous: .John Power offers to avert bypass for Friday PM / Saturday Paving, Bill Skipper says Don Montgomery wants a weekday to do paving.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 261

CONTRACTOR'S REP.: Bill Skipper **DATE:** 6-11-02, Tuesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 2 day laborer) (including 2 Handex Envir.)	4	Ford Water Truck Case 580L Backhoe 2 Pickup Trucks Handex fuel tank gone
Comanco	0	Pickup
PLUG MASTERS	0	Forklift
PENINSULA SURVEY	0	Van
B.L. SMITH ELECTRIC	1	Trucks
FLORIDA JET CLEAN	0	Truck, trailer, van

HOURS INSPECTOR ON JOB SITE: 7:10-3 :40

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 262

CONTRACTOR'S REP.: Bill Skipper **DATE:** 6-12-02,Wednesday

****

VISITORS: Kirk on site PM

WEATHER: a.m.fog p.m.P/Cldy.

TEMP. RANGE: 72°- 90°

RAINFALL: .2" ovrnt

MAJOR DELIVERIES: Bypass continues. 1:30 Storm water pumps arrive, cords need extension.

Friday gas company to have surveyors on site to locate line and easement.

****

WORK PERFORMED:

Handex:

Pump 2 at the ash lift station is maintaining leachate. SW lift station generator is running this morning. After a little clean up, crew sets up for Ash lift station pipe test, a blind flange is placed by the meter at A-3.(County cleans out meter)Test start at 1010 and 75 psi, complete at 1212 and still 75 psi. 2:00 setting up for SW pipe test to valve by the meter, across the road from the trailer. Shut valve does not appear to be stopping flow, blind flange or plug tomorrow. Some touch up painting of lift station piping.

Florida Jet Clean: No work

Plugmaster: About 2:30 two employees arrive and start watering sod.

B. L. Smith Electric: Install storm water power poles and flow switches at SW lift station.

E & R Mechanical: No work

Barney's Pumps: No work

Peninsula Survey: No show,rescheduled for Friday

Miscellaneous: . John Power had set up a Friday afternoon until Tuesday AM window for Paving, Handex said it ia hard to get asphalt on Saturday, so John Power set up all day Friday, and the paving could cure all weekend. Don Montgomery comes back with paving starting Monday AM and no curing time. Don says we need to pave Monday through Thursday because Friday is overtime, he suggests the county pay for the overtime. Don says they won't pave on the weekend. John Power says wait until bypass is over because it costs the County money to work around the contractor.They had people working overtime to get ahead to give Handex a window to pave.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 262

CONTRACTOR'S REP.: Bill Skipper **DATE:** 6-12-02, Wednesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 2 day laborer) (including 2 Handex Envir.)	4	Ford Water Truck Case 580L Backhoe 2 Pickup Trucks Handex fuel tank removed today
Comanco	0	Pickup
PLUG MASTERS 2:30 to water	2	Forklift
PENINSULA SURVEY	0	Van
B.L. SMITH ELECTRIC	1	Trucks
FLORIDA JET CLEAN	0	Truck, trailer, van

HOURS INSPECTOR ON JOB SITE: 7:05 -3 :15 print dailies at home

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 263

CONTRACTOR'S REP.: Bill Skipper **DATE:** 6-13-02,Thursday

****

VISITORS: _____

_____

Withlahoochi Jeep driving on site

WEATHER: a.m.P/cldy p.m.P/Cldy.

TEMP. RANGE: 74°- 90°

RAINFALL: 0"

MAJOR DELIVERIES: Bypass continues.

****

WORK PERFORMED:

Handex:

Pump 2 at the ash lift station is maintaining leachate. SW lift station generator is not running this morning. After a little clean up, crew sets up for structure cleaning. When generator turned on at SW lift station, pumps don't draw, pumps won't prime, foot valves won't hold. Bill states the pumps had been left on manuel yesterday and sucked air, not sure how long, he will call Barney's.10:50 Bill says MWM liner crew will do repairs in manholes. 3:00 demo of SW1 primary starts again. 5:30 remind Bill the valve in front of Ash lift station is closed, it would be bad for the pumps if they kicked on.

MWM South: 10:00 on site to look at liner repairs in the manholes.

Barney's Pumps: 11:30 on site, Tech says the seals appear damaged, and the port on top of the pump is blocked by the spool pipe on a close nipple.

Florida Jet Clean: No work

Plugmaster: About 1:20 on site to water grass. 3:30 Mike Eberts says seed and mulch contractor to visit the site Friday or Monday.

SWS: 0945 on site to decontaminate existing structures, SW1 primary done about 1:30, SW1 secondary done about 2:45, A1 primary done at 5:15, A1 secondary is last.

B. L. Smith Electric: No work

E & R Mechanical: No work

Barney's Pumps: No work

Peninsula Survey: No work

Miscellaneous: .Bill Skipper says liner crew will batten HDPE liner over holes, and batten boots to wall, weld to pipe."silo flex" sealant will be used around and under liner. Ron Walker questions if correct conduit used at lift stations.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 263

CONTRACTOR'S REP.: Bill Skipper **DATE:** 6-13-02, Thursday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 2 day laborer)2nd 10:30 (including 2 Handex Envir.)	4	Ford Water Truck Case 580L Backhoe 2 Pickup Trucks Handex fuel tank removed today
SWS	4	Two trucks with trailers and a suction truck
PLUG MASTERS to water 1:20 to 4:45	2	Forklift Operate water truck
PENINSULA SURVEY	0	Van
B.L. SMITH ELECTRIC	0	Trucks
FLORIDA JET CLEAN	0	Truck, trailer, van
BARNEY'S PUMPS	1	Truck

HOURS INSPECTOR ON JOB SITE: 7:00 -5:40

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 264

CONTRACTOR'S REP.: Bill Skipper **DATE:** 6-14-02,Friday

****

VISITORS: Jeff Smith with Alpha Controls
Monthly Progress Meeting, no Gary.

WEATHER: a.m.P/cldy p.m.P/Cldy.
TEMP. RANGE: 76°- 91°
RAINFALL: 0"

MAJOR DELIVERIES: Bypass continues.

****

WORK PERFORMED:

Handex:

Handex crew continues demo of SW1 primary structure. Laborers later remove the hose racks and non potable signs from wash down stations. PM Jack, Kirk, and Bill Skipper walk some of the sod areas and mark some of the completely dead sod, but much debate follows on the resolution of brown sod with some green sprouts. Kirk says the burden needs to be put back on the sod guy to green it up or replace it.

MWM South: Repair liner in SW1 secondary, then begin SW1 primary structure.

Barney's Pumps: No work

Florida Jet Clean: No work

Plugmaster: About 0930on site to water grass, depart at 2:15, then return.

B. L. Smith Electric: No work

Barney's Pumps: No work

Peninsula Survey: As-builting, including information needed at ash lift station, PM survey sod?

Miscellaneous: Attempt to resolve sod issue, but brown sod has some roots and green sprouts undefined, burden to return to sod installer, green it up or replace it. Washdown station concrete contacting copper to be replaced, but Handex reconsiders, verbally, on hold.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 264

CONTRACTOR'S REP.: Bill Skipper **DATE:** 6-14-02, Friday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 2 day laborer) (including 2 Handex Envir.)	4	Ford Water Truck Case 580L Backhoe 2 Pickup Trucks
MWM South liner	3	Truck with trailer
PLUG MASTERS to water 0930 to 4:45 approx.	2	Forklift Operate water truck
PENINSULA SURVEY	3	Van 0845
B.L. SMITH ELECTRIC	0	Trucks
FLORIDA JET CLEAN	0	Truck, trailer, van
BARNEY'S PUMPS		Truck

HOURS INSPECTOR ON JOB SITE: 7:05 -4:40

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 267

CONTRACTOR'S REP.: Bill Skipper **DATE:** 6-17-02,Monday

****

VISITORS: _____

_____

_____

WEATHER: a.m.P/cldy p.m.rain.

TEMP. RANGE: 75°- 86°

RAINFALL: 2.7"ovrwknd 11:45 rain starts 1:45 stop work, ½ day impact

MAJOR DELIVERIES: Bypass continues.

Outside survey crew setting points by A-3 and leachate plant, to locate gas line.

****

WORK PERFORMED:

Handex:

SW2 rain diversion flap west end, berm intact, not blown out.SW 1 manholes are dry, Ash 1 manholes standing leachate, one plug blew out of pipe. Crew sets up pump to pump back into lift station. 10:00 set up to do lateral pressure tests on reclaim line, to attempt to test 4 at a time. Backhoe places soil in asphalt cuts, clayey material used in some! Bill Skipper says lateral pressure test does not preclude 1" riser replacement, currently on hold .

MWM South: Repair liner in SW1 primary structure.

Barney's Pumps: No work

Florida Jet Clean: Three man crew on site with second camera, to look at the stuck camera, unable to remove stuck camera.

Plugmaster: About 0810 seed and mulch sub on site, asked if Handex is done yet, he wants to seed one more time when Handex is done .

B. L. Smith Electric: No work

Barney's Pumps: No work

Peninsula Survey: As-builting, including MES and rip rap A3, mostly survey sod and mulch.

Miscellaneous: Jack and Ron lay out fence around structures. Low spot in SW2 interim berm, water passing over it.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 267

CONTRACTOR'S REP.: Bill Skipper **DATE:** 6-17-02, Monday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 2 day laborer) (including 2 Handex Envir.)	5	Ford Water Truck Case 580L Backhoe 2 Pickup Trucks
MWM South liner	3	Truck with trailer
Fortner Tractor	2	Visit site, to return next week
PENINSULA SURVEY	0	Van
B.L. SMITH ELECTRIC	0	Trucks
FLORIDA JET CLEAN	3	Truck, trailer, van
BARNEY'S PUMPS		Truck

HOURS INSPECTOR ON JOB SITE: 7:10 -2:45

John C Mr II III
Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 268

CONTRACTOR'S REP.: Bill Skipper **DATE:** 6-18-02,Tuesday

****

VISITORS: _____

_____

_____

WEATHER: a.m.rain p.m.cldy.

TEMP. RANGE: 69°- 86°

RAINFALL: 1.5"ovrnt .5" by lunch shut down

No additional rain by Wed. AM

MAJOR DELIVERIES: Kobelco SK 200 arrives on site No Bypass, muddy site

_____

****

WORK PERFORMED:

Handex:

Crew sets up pump to pump back into lift station. Crew set up 4 lateral pressure tests on reclaim line, two pass two leak at this time. Crew begins removing pipe spool over SW lift pump 1. Due to pnuematic plugs in manholes, no movement of leachate in SW1 or A1

MWM South: Repair liner in SW1 primary structure.

Barney's Pumps: No work

Florida Jet Clean: No work

Plugmaster: No work

B. L. Smith Electric: No work

Barney's Pumps: No work

Peninsula Survey: No work

Miscellaneous: received 6-17-02 daily

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 268

CONTRACTOR'S REP.: Bill Skipper **DATE:** 6-18-02, Tuesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 2 day laborer) (including 2 Handex Envir.)	5	Ford Water Truck Kobelco SK 200 excavator Case 580L Backhoe 2 Pickup Trucks
MWM South liner	0	Truck with trailer
Fortner Tractor	0	Visit site, to return next week
PENINSULA SURVEY	0	Van
B.L. SMITH ELECTRIC	0	Trucks
FLORIDA JET CLEAN	0	Truck, trailer, van
BARNEY'S PUMPS		Truck

HOURS INSPECTOR ON JOB SITE: 7:15 -12:10

John C Mr G I III
Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 269

CONTRACTOR'S REP.: Bill Skipper **DATE:** 6-19-02,Wednesday

****

VISITORS: PM Gary Conaway on site

WEATHER: a.m.cldy p.m.p/cldy.

TEMP. RANGE: 72°- 86°

RAINFALL: .5"ovrnt from yesterday noon

10:00 rain begins , no accumulation

MAJOR DELIVERIES: Prefab thrust blocks arrive PM.(2) No Bypass, muddy site, only cover hauled.

****

WORK PERFORMED:

Handex:

Crew continues to work on SW lift station piping(spool). Excavator moves to A3 east edge of flap, and pushes liner down with a tire. Crew from SW lift sets up pump, to pump back into Ash lift station from A1 primary. Mike sets up for flume installation SW1 primary. 1:00 excavator begins digging at A2, Excavator digs up 2 ½" pipe, no magnetic tape past force main. 4:30 getting ready to cut open pipe. 4:45 camera in 24" from west cut, camera wedged between lumps inside pipe, between first and second set of tires.

MWM South: No work

Barney's Pumps: No work

Florida Jet Clean: No work

Plugmaster: No work

B. L. Smith Electric: No work

Barney's Pumps: No work

Peninsula Survey: 0845 on site, continue as-builting, approx. 2:30 depart

Miscellaneous: All reuse valve boxes have "reuse" lids, all wells appear to open.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 269

CONTRACTOR'S REP.: Bill Skipper **DATE:** 6-19-02, Wednesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 2 day laborer) (including 2 Handex Envir.)	5	Ford Water Truck Kobelco SK 200 excavator Case 580L Backhoe 2 Pickup Trucks
MWM South liner	0	Truck with trailer
Fortner Tractor	0	Visit site, to return next week
PENINSULA SURVEY	3	Van
B.L. SMITH ELECTRIC	0	Trucks
FLORIDA JET CLEAN	0	Truck, trailer, van
BARNEY'S PUMPS		Truck

HOURS INSPECTOR ON JOB SITE: 7:05 -5:35

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 270

CONTRACTOR'S REP.: Bill Skipper **DATE:** 6-20-02,Thursday

****

VISITORS: Gary Conaway on site, PM discuss
Pay request 8 and 9

WEATHER: a.m.cldy p.m.p/cldy.
TEMP. RANGE: 72°- 86°
RAINFALL: 0"

MAJOR DELIVERIES: Noon ISCO on site with replacement "Y" and fusion welding machine. No Bypass, muddy site, only cover hauled.
Generator running at trailer in the AM

****

WORK PERFORMED:

Handex:
Crew continues reuse lateral testing, two more pass, modifications to be done. Crew continues to work on SW lift station piping(spool).. Two pumps pump back into Ash lift station from A1 primary. Back hoe and day laborers digging next to hose bibb concrete to run new riser.Noonish ISCO rep working with Handex to reinstall "Y" assembly, electrofusion west end and flange east.2:40 pull pnuematic plug, bituminous coating on flange, 3:15backfill and water.*****4:40 last flume in place SW1 primary!

MWM South: Continues repairs to liner inside structures, SW1 primary, 1:00 move to A1 secondary, one patch remains in SW1 primary.

Barney's Pumps: No work

Florida Jet Clean: No work

Plugmaster: No work

B. L. Smith Electric: No work

Barney's Pumps: No work

Peninsula Survey: No work

Miscellaneous: Gary says Mike Ebert with plugmasters will start removing dead sod tomorrow. Ron Walker tells Jack dead sod can go to Class III.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 270

CONTRACTOR'S REP.: Bill Skipper **DATE:** 6-20-02, Thursday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 2 day laborer) (including 2 Handex Envir.)	5	Ford Water Truck mechanic on site, fix clutch, not hose Kobelco SK 200 excavator Case 580L Backhoe 2 Pickup Trucks
MWM South liner	4	Truck with trailer
Fortner Tractor	0	Visit site, to return next week
PENINSULA SURVEY	0	Van
B.L. SMITH ELECTRIC	0	Trucks
FLORIDA JET CLEAN	0	Truck, trailer, van
BARNEY'S PUMPS		Truck

HOURS INSPECTOR ON JOB SITE: 7:05 -5:00 worked through lunch

John C Hayes III
Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 271

CONTRACTOR'S REP.: Bill Skipper **DATE:** 6-21-02,Friday

****

VISITORS: _____

_____

_____

WEATHER: a.m.p/cldy p.m.m/cldy.

TEMP. RANGE: 73°- 86°

RAINFALL: 0"

MAJOR DELIVERIES: 1 truckload sod 0945. No Bypass, muddy site, only cover hauled.

Ash lift station caught up with leachate overnight, A2 unplugged overwhelmed operational pump.

****

WORK PERFORMED:

Handex:

Crew continues digging around wash down stations for new risers with backhoe and day laborers, they also reinstall signs and hose racks. Mike placing brass valve markers in concrete with two part epoxy. Approximately 11:00 set up a pump at A3manhole to pump down muddy storm water, Jet Clean does video of primary and secondary. PM discuss pumping leachate out of SW lift station into water truck and driving it up to SW1, can't get generator to run, they go back to work.2:00 2 ½" PVC line rerun at A2.

MWM South: 0845 on site questioning sludge in the bottom of A1 primary. Continues repairs to liner inside structures, SW1 primary, late AM move to A1 primary.

Barney's Pumps: No work

Florida Jet Clean: 0830 video A2 with push cable camera, primary and secondary. 1020 set up at A3, do short pipes, then open valve, 1140 to lunch while water pumps down trying to clear. After A3 primary and secondary, move to SW2, but it is full of leachate because the pumps are down. Contractor to return at a later date.

Plugmaster: 0945 on site removing dead sod southeast of Ash lift station, then install new sod, watering existing sod, and some sod placement along the road. PM replace sod by SW2 rip rap.

B. L. Smith Electric: 0900 trench low voltage line, and conduit to splice box.

Barney's Pumps: No work

Peninsula Survey: Other 2 person crew on site to as-built A3, Jack suggests they contact their office, Tim had already done A3,not SW2. Late AM they are shooting SW2 area.

Miscellaneous: 1015 County Electrical Inspector with B.L. Smith, 1115 did not pass, box needs leads. AM generator at trailer would not start, PM running.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 271

CONTRACTOR'S REP.: Bill Skipper **DATE:** 6-21-02, Friday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 2 day laborer) (including 2 Handex Envir.)	5	Ford Water Truck mechanic on site, fix clutch, not hose Kobelco SK 200 excavator Case 580L Backhoe 2 Pickup Trucks
MWM South liner	4	Truck with trailer
Plugmasters	4	Bobcat Forklift, broke down roller by leachate plant
PENINSULA SURVEY	2	Van
B.L. SMITH ELECTRIC	1	Truck
FLORIDA JET CLEAN	2	Truck, trailer, van
BARNEY'S PUMPS		Truck

HOURS INSPECTOR ON JOB SITE: 7:15 -4:15 worked through lunch

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 274

CONTRACTOR'S REP.: Bill Skipper **DATE:** 6-24-02,Monday

****

VISITORS: Kirk on site 10:10

WEATHER: a.m.cldy p.m.cldy.

TEMP. RANGE: 73°- 86°

RAINFALL: .4"ovrwknd

MAJOR DELIVERIES: Mid AM truckload sod Fire in the Pit, only one boiler running, Bypass continues, cover and ash hauled. County pumping SW2 storm water.

Ash lift station keeping up with leachate, SW lift not keeping up with leachate, Inform Bill and Kirk.

****

WORK PERFORMED:

Handex:

Bill Skipper to replace the generator for SW lift pumps, RSC sends a mechanic out towork on the generator. 11:00 leachate is moving again. 11:25 SW1 open flow again. Joe and 2 day laborers working on hose bibb piping, A2 north repair pipe, then repair leak again at 4:30. Bill Skipper installing bubbler tubes at A1, primary then secondary. 2:30 A1 primary unplugged, leachate flowing.

Florida Jet Clean: No work.

Barney's Pumps: No work

Fortnor Tractor: No work

Plugmaster: Crew loading several pallets back on the truck, then work on trailer until truckload of sod arrives. Replacing sod by A3 retention slope east of the road, bobcat appears to be taking old sod into woods by Crom tank Replace sod A3/2 east slope at liner edge. PM watering today's sod deployment.

B. L. Smith Electric: No work

Peninsula Survey: As-builting SW2 area..

Miscellaneous: Gas line easement stake 28'8" off pavement, 25' off fence line. Job trailer generator not operational until mid AM.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 274

CONTRACTOR'S REP.: Bill Skipper **DATE:** 6-24-02, Monday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 2 day laborer) (including 2 Handex Envir.)	5	Ford Water Truck Kobelco SK 200 excavator Case 580L Backhoe 2 Pickup Trucks
Fortnor Tractor		Trucks, trailers, tractor, hay blower
Plugmasters	5	Bobcat, broke down roller
PENINSULA SURVEY	2	Van 0845
B.L. SMITH ELECTRIC		Truck
FLORIDA JET CLEAN		Truck, trailer, van
BARNEY'S PUMPS		Truck

HOURS INSPECTOR ON JOB SITE: 7:10-4:40,

John C. Mullen III
Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 275

CONTRACTOR'S REP.: Bill Skipper **DATE:** 6-25-02,Tuesday

****

VISITORS: Kirk PM

WEATHER: a.m.cldy p.m.cldy.

TEMP. RANGE: 73°- 86°

RAINFALL: 1.3"ovrnt PM light rain .

MAJOR DELIVERIES: Bypass continues, cover and ash hauled .

Ash lift station keeping up with leachate, SW lift keeping up with leachate.

****

WORK PERFORMED:

Handex:

Backhoe and day laborers continue working on lateral repairs and testing, also clean up materials at Ash lift station.Bill Skipper installing bubbler tubes at SW1, demo float secondary, trim excess liner SW2 east flap end. 2:30 backhoe to dig up valve end of leaking laterals, duct tape caught in threads of PVC to Metal valve connection. Late PM A1 lateral washing up sand at leak as excavator begins a hole near the road..

Florida Jet Clean: No work.

Barney's Pumps: No work

Fortnor Tractor: Seeding areas that did not take the first time, also new areas like near the trailer,and the ash lift area. Spread hay and cut it in, complete after lunch.

Plugmaster: Replacing sod by A3 gas marker near gate, bobcat appears to be taking old sod into woods by Crom tank Sod on slopes in retention basin east of trailer where equipment crossed berm.

B. L. Smith Electric: working on low voltage and 220 volt line to A2 part of the day, then to the County shop to work on the cords of the storm water pumps.

Peninsula Survey: No work.

Miscellaneous:

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 275

CONTRACTOR'S REP.: Bill Skipper **DATE:** 6-25-02, Tuesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 2 day laborer) (including 2 Handex Envir.)	5	Ford Water Truck Kobelco SK 200 excavator Case 580L Backhoe 2 Pickup Trucks
Fortnor Tractor		Trucks, trailers, tractor, hay blower
Plugmasters	3	Bobcat, broke down roller
PENINSULA SURVEY		Van 0845
B.L. SMITH ELECTRIC	1	Truck
FLORIDA JET CLEAN	0	Truck, trailer, van
BARNEY'S PUMPS	0	Truck

HOURS INSPECTOR ON JOB SITE: 7:00-4:40,

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 276

CONTRACTOR'S REP.: Bill Skipper **DATE:** 6-26-02,Wednesday

****

VISITORS: _____

_____

_____

WEATHER: a.m.cldy p.m.m/cldy.

TEMP. RANGE: 73°- 86°

RAINFALL: 1.0"ovrnt <.1 shower .

MAJOR DELIVERIES: Ron says Bypass over, only cover and ash hauled today.

Ash lift station keeping up with leachate, SW lift keeping up with leachate.

****

WORK PERFORMED:

Handex:

Mike and day laborers continue working on lateral repairs and testing, A1/A2 in the AM. Crew moves equipment from the aera to be seeded to the trailer gravel area. Bill Skipper fueling generators, later thrust block placed at 90 degree bend at SW lift. 5:00Crew preparing base material for paving. Last pipe under roadway test complete at 5:45.

Florida Jet Clean: 1:30 on site, video SW2, 3:00 complete. Were originally scheduled for Thursday AM.

Barney's Pumps: No work

Fortnor Tractor: Seeding areas that did not take the first time, also new areas like near the trailer,and the ash lift area. Spread hay and cut it in, complete after lunch.

Plugmaster: No work,.

B. L. Smith Electric: No work

Peninsula Survey: As-builting continues, 0845 start.

Miscellaneous: _____

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 276

CONTRACTOR'S REP.: Bill Skipper **DATE:** 6-26-02, Wednesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 2 day laborer) (including 2 Handex Envir.)	5	Ford Water Truck Kobelco SK 200 excavator Case 580L Backhoe 2 Pickup Trucks 1:30 Power broom on site.
Fortnor Tractor	5	Trucks, trailers, tractor, hay blower
Plugmasters	0	broke down roller
PENINSULA SURVEY	2	Van 0845
B.L. SMITH ELECTRIC	0	~~Truck~~
FLORIDA JET CLEAN	2?	Truck, trailer, van
BARNEY'S PUMPS	0	~~Truck~~

HOURS INSPECTOR ON JOB SITE: 7:15 -5:45,

John Chaffee III
Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 277

CONTRACTOR'S REP.: Bill Skipper **DATE:** 6-27-02,Thursday

****

VISITORS: Kirk

WEATHER: a.m.p/cldy p.m.m/cldy.

TEMP. RANGE: 73°- 88°

RAINFALL: 0" 2:15 sprinkle .

MAJOR DELIVERIES: Asphalt loads. No Bypass, only cover hauled behind cell, off road.

Ash lift station keeping up with leachate, SW lift keeping up with leachate.

****

WORK PERFORMED:

Handex:

Crew preparing base material for paving, start at SW2 ramp. Compacting base material at road cut east of stockpile, fall back to clean off dirt by SW1 structures curb, while paver is waiting. Crew backfilling wash down stations, bituminous coating on pipe done late yesterday. After paving prep complete, running sweeper on road and placing hose spigots where test gauges were.

.**Cheyenne's Paving:** Paver, roller, sweeper, and wobble wheel roller unloaded and setting up. Powerbroom already running 0710. 0830 tack coating SW2 ramp. 0840 asphalt arriving paving starts. 1045 first truck back again. 1120 east of stockpile. Approx 2:30 to 3:30 waiting for the last asphalt truck.

Barney's Pumps: No work

Plugmaster: No work,.

B. L. Smith Electric: No work

Peninsula Survey: As-builting continues, 0830 start.

Miscellaneous: County to run ash on Saturday, asks that road crossing at A3 be done for sure today.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 277

CONTRACTOR'S REP.: Bill Skipper **DATE:** 6-27-02, Thursday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 2 day laborer) (including 2 Handex Envir.)	5	Ford Water Truck Kobelco SK 200 excavator Case 580L Backhoe 2 Pickup Trucks
Cheyenne's Paving	6	
Plugmasters		broke down roller
PENINSULA SURVEY	3	Van 0830
B.L. SMITH ELECTRIC		Truck
FLORIDA JET CLEAN		Truck, trailer, van
BARNEY'S PUMPS		Truck

HOURS INSPECTOR ON JOB SITE: 7:10 -5:20,

John C Mc Hugh III
Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 278

CONTRACTOR'S REP.: Bill Skipper **DATE:** 6-28-02,Friday

****

VISITORS: Kirk PM

WEATHER: a.m.p/cldy p.m.m/cldy.

TEMP. RANGE: 74°- 90°

RAINFALL: 0"

MAJOR DELIVERIES: No Bypass, only cover hauled behind cell, off road.

Ash lift station keeping up with leachate, SW lift not keeping up with leachate.

****

WORK PERFORMED:

Handex:

Crew back filling lateral excavations, water truck is filled to water down backfill.10:00 filling reuse line for final pressure test. Test starts at noon with a pressure of 150#, at 2:00 still 150# (photo).Late PM crew places sod pallets under the trees. Crew finish grading/ clean up/ closing manholes. Kirk and Bill discuss next weeks work schedule. Joe and two laborers to clean out culvert and continue to finish grade on Saturday.

Barney's Pumps: No work

Plugmaster: No work,.

B. L. Smith Electric: No work

Peninsula Survey: As-builting includes thrust blocks at lift station tie-ins, pavement, seeded areas.

Miscellaneous:

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 278

CONTRACTOR'S REP.: Bill Skipper **DATE:** 6-28-02, Friday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 2 day laborer) (including 2 Handex Envir.)	5	Ford Water Truck Kobelco SK 200 excavator Case 580L Backhoe 2 Pickup Trucks
Plugmasters		broke down roller
PENINSULA SURVEY	3	Van 0800
B.L. SMITH ELECTRIC		Truck
FLORIDA JET CLEAN		Truck, trailer, van
BARNEY'S PUMPS		Truck

HOURS INSPECTOR ON JOB SITE: 7:00 -2:40,

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 281

CONTRACTOR'S REP.: Bill Skipper **DATE:** 7-01-02,Monday

****

VISITORS: _____

_____

_____

WEATHER: a.m.cldy p.m.m/cldy.

TEMP. RANGE: 73°- 88°

RAINFALL: 3.5"ovrwknd,2.5"Friday night

MAJOR DELIVERIES: No Bypass, only cover hauled, pumping storm water both cells.

Ash lift station keeping up with leachate, SW lift not keeping up with leachate.

****

WORK PERFORMED:

Handex:

Crew did finish grading and cleaning of SW2 culvert Saturday. Monday AM chip out splashed concrete SW2. Alarm on SW lift Monday AM, generator and pump running, County was pumping off SW1 top area over the weekend. Mid AM Bill Skipper to replace seal at SW lift station, crew to form for concrete pads around hose stations. Talk to Gary Conaway about schedule and pay requests, also seed over sod being bahia only. 3:00 pump #2 is running, #1 with new seal won't catch prime. Bill moves concrete pour to tomorrow.

Barney's Pumps: No work

Plugmaster: No work, Mike on site, discuss bahia seed over only, fertilize, and roll sod. Mike says he probably can't get seed until after the 4th weekend.

B. L. Smith Electric: No work

Peninsula Survey: As-builting still.

Miscellaneous: _____

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex

REPORT NO.: 281

CONTRACTOR'S REP.: Bill Skipper

DATE: 7-02-02, Tuesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 2 day laborer) (including 2 Handex Envir.)	5	Ford Water Truck Kobelco SK 200 excavator Case 580L Backhoe 2 Pickup Trucks
Plugmasters		broke down roller
PENINSULA SURVEY	2	Van
B.L. SMITH ELECTRIC		Truck
FLORIDA JET CLEAN		Truck, trailer, van
BARNEY'S PUMPS		Truck

HOURS INSPECTOR ON JOB SITE: 7:10 -4:55

John C Mc Hugh III
Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex

REPORT NO.: 282

CONTRACTOR'S REP.: Bill Skipper

DATE: 7-02-02,Tuesday

****

VISITORS: _____

WEATHER: a.m.fog/cldy p.m.m/cldy.

TEMP. RANGE: 71°- 86°

RAINFALL: 2.8"ovrnt,

MAJOR DELIVERIES: concrete for wash down stations, 7 of 9. No Bypass, only cover hauled, pumping storm water both cells.

Ash lift station leachate build up , SW lift keeping up with leachate.

****

WORK PERFORMED:

Handex:

Joe and Jerry cleaning up washed in sand from last night's rain. Remind them the bituminous coating must extend above the concrete. Pour pads mid to late AM. West end of SW2 storm water swale blew out last night. PM place old steps against SW1.

Barney's Pumps: No work

Plugmaster: No work

B. L. Smith Electric: No work

Peninsula Survey: As-builting.

Miscellaneous: 10:45 Withlahoochi power on site, to SW lift station, 11:10 2nd truck, install cans on pole and drop line to SW lift station pole.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 282

CONTRACTOR'S REP.: Bill Skipper **DATE:** 7-02-02, Tuesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 0 day laborer) (including 2 Handex Envir.)	2	Ford Water Truck Kobelco SK 200 excavator Case 580L Backhoe 2 Pickup Trucks
Plugmasters		broke down roller
PENINSULA SURVEY	2	Van
B.L. SMITH ELECTRIC		Truck
FLORIDA JET CLEAN		Truck, trailer, van
BARNEY'S PUMPS		Truck

HOURS INSPECTOR ON JOB SITE: 7:15 -4:50 , last hour pay requests

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 283

CONTRACTOR'S REP.: Bill Skipper **DATE:** 7-03-02,Wednesday

****

VISITORS: _____

_____

_____

WEATHER: a.m.p/cldy p.m.m/cldy.

TEMP. RANGE: 71°- 87°

RAINFALL: 0"ovrnt,

MAJOR DELIVERIES: . No Bypass, only cover hauled,

Ash lift station caught up with leachate , SW lift to switch to comercial power

****

WORK PERFORMED:

Handex:

Bill Skipper trying to switch SW lift over to commercial power, but control panel wiring is incomplete, he calls B.L. Smith. Jerry is stripping forms of of yesterdays pad pour, then dispose of sod from A2 camera dig. Crew to repair SW2 blow out on Friday, nothing else, crew was scheduled to be off for 4 days.

Barney's Pumps: No work

Plugmaster: PM, Mike stops by the site and says his crew will overseed marginal sod today, and fertilize as time is available. Crew using all bahai seed, starting east of the road, then west by SW2 some hand spreading on berm slope, then around cell. Bags and tags to be left in storage end of trailer.(Monday Mike had said this work would happen after the 4th weekend)

B. L. Smith Electric: 0850 on site to wire commercial power side of control panel at SW lift, also corrects wiring of flow switches. Now operational, one pump running.

Peninsula Survey: No work.

Miscellaneous: _____

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 283

CONTRACTOR'S REP.: Bill Skipper **DATE:** 7-03-02, Wednesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 0 day laborer) (including 2 Handex Envir.)	2	Ford Water Truck Kobelco SK 200 excavator Case 580L Backhoe 2 Pickup Trucks
Plugmasters 1:30 PM approx.	2	1 pallet fertilizer,50 bags, 1 pallet Bahai seed, 50# @ ? bags, broke down roller by job trailer
PENINSULA SURVEY		Van
B.L. SMITH ELECTRIC	1	Truck 1 hour on site.
FLORIDA JET CLEAN		Truck, trailer, van
BARNEY'S PUMPS		Truck

HOURS INSPECTOR ON JOB SITE: office first 0645, 7:30 -2:50 worked through lunch

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 288

CONTRACTOR'S REP.: Bill Skipper **DATE:** 7-08-02,Monday

****

VISITORS: Withlahoochi Power PM

WEATHER: a.m.p/cldy p.m.m/cldy.

TEMP. RANGE: 74°- 86°

RAINFALL: 1.7"ovrwknd, .Saturday storm

MAJOR DELIVERIES: Comanco on site for A2 raincap. No Bypass, only cover hauled,County pumping storm water from both cells.

Ash lift station full, SW lift station full.

****

WORK PERFORMED:

Handex:

Reclaim valve box gushing water, Jerry shuts off main, then excavates. Broken adapter from valve to PVC replaced. Jerry tries to jump trailer generator, will not start, Bill gets it started later.Bill checks ash lift station and says the breaker was off to the controls, he believes the transformer is bad in SW control panel, and calls Barney's pumps. 3:00 Withlahoochi Power confirms bad leg from transformer, may have been hit by lightning. A repair crew will be out tonight if the transformer is in stock. Bill and Jerry work spool replacement on Ash lift INOP pump,

Barney's Pumps: Service tech visits site and says the power drop from the pole is bad not the transformer.

Plugmaster: No work, drop off bags and tags.

B. L. Smith Electric: No work

Peninsula Survey: No work.

Miscellaneous: No tags or bags in trailer from Plugmaster on Wednesday. PM Mike on site with bags and tags. Jack informs him unhappy with those having left site. The deal was his crew would place them in the job trailer at the end of the day, whatever they used.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 288

CONTRACTOR'S REP.: Bill Skipper **DATE:** 7-08-02, Monday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 0day laborer) (including 2 Handex Envir.)	2	Ford Water Truck Kobelco SK 200 excavator Case 580L Backhoe 2 Pickup Trucks
Plugmasters	1	broke down roller by job trailer drop off tags and bags
PENINSULA SURVEY		Van
B.L. SMITH ELECTRIC		Truck
FLORIDA JET CLEAN		Truck, trailer, van
BARNEY'S PUMPS	1	Truck, service call

HOURS INSPECTOR ON JOB SITE: 7:10 -4:15

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 289

CONTRACTOR'S REP.: Bill Skipper **DATE:** 7-09-02,Tuesday

****

VISITORS: _____

_____

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WEATHER: a.m.m/cldy p.m.cldy.

TEMP. RANGE: 74°- 86°

RAINFALL: 0"ovrnt, .8"1245-1:15

MAJOR DELIVERIES: . No Bypass, only cover hauled,County pumping storm water from both cells.

Ash lift station pumped 76,700 gallons leachate overnight, SW lift has power, but not prime.

****

WORK PERFORMED:

Handex:

Crew continues to work on priming pumps, by 0800 one pump is running at each lift station. Bill and Jerry continue spool replacement on Ash lift #2 pump. 10:15 primed through the top of pump, and runs. Pump currently on has about an 8'draw. Try priming through the top of pump at SW lift, flow switch cut off time lengthened,10:45 both SW pumps running.(Jack asks Bill to look into how long the delay time can be lengthened to.) Leachate caught up with at SW lift by late AM.12:30 crew shuts down ash lift to install flow switches. 2:30 Install second flow switch in ash lift station.

Barney's Pumps: No work

Plugmaster: Mike stops by the site and says he will have a crew out tomorrow to replace more sod and do the little areas at wash down stations and road crossings.

B. L. Smith Electric: No work

Peninsula Survey: No work.

Miscellaneous: Comanco stacked tires in seeded area across from A3. Around lunch time Gary calls in reply to Dan's calls about problems with pay requests 8 and 9.Several calls back and forth, Gary to call Dan tomorrow AM if he has more questions. Jack asks Bill Skipper if the fence installation is scheduled yet.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 289

CONTRACTOR'S REP.: Bill Skipper **DATE:** 7-09-02, Tuesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 0 day laborer) (including 2 Handex Envir.)	2	Ford Water Truck Kobelco SK 200 excavator Case 580L Backhoe 2 Pickup Trucks
Plugmasters		, broke down roller by job trailer
PENINSULA SURVEY		Van
B.L. SMITH ELECTRIC		Truck
FLORIDA JET CLEAN		Truck, trailer, van
BARNEY'S PUMPS		Truck

HOURS INSPECTOR ON JOB SITE: 7:10 -3:35 worked through lunch

John C Mabry III
Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 290

CONTRACTOR'S REP.: Bill Skipper **DATE:** 7-10-02,Wednesday

****

VISITORS: _____

_____

_____

WEATHER: a.m.p/cldy p.m.cldy.

TEMP. RANGE: 73°- 87°

RAINFALL: 0"ovrnt, .8"from yesterday

MAJOR DELIVERIES: Truckload sod on site 1010, waiting for forklift. No Bypass, only cover hauled,County pumping storm water from both cells.

Ash lift station pumped 78,000 gallons leachate overnight, and has caught up, SW lift maitained leachate.

****

WORK PERFORMED:

Handex:

Crew painting lift stations piping, day laborers digging along the edge of pavement in preparation for sod placement. Bill and Jerry work spool replacement on Ash lift #1 pump, and remove temporary backup pump.

Barney's Pumps: No work

Plugmaster: 10:00 on site removing dead sod southeast of SW1, then 3:00 unload and install new sod, and some sod placement along the road. PM replace sod by SW2 east swale. Crew dumped dead sod in the trees east of SW1, rutted the grass slopes driving over them. Crew is informed the dead sod had been agreed to go to Class III, the ruts should be fixed and grassed. 4:30 PM Mike Ebert is informed, and will seed the disturbed area by ash lift station, was going to fertilize and mulch, but it did not happen.

B. L. Smith Electric: No work

Peninsula Survey: No work.

Miscellaneous: Comanco stacked tires and 3 rolls liner in seeded area across from A3.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 290

CONTRACTOR'S REP.: Bill Skipper **DATE:** 7-10-02, Wednesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 2 day laborer) (including 2 Handex Envir.)	4	Ford Water Truck Kobelco SK 200 excavator Case 580L Backhoe 2 Pickup Trucks
Plugmasters	5	Bobcat Forklift, broke down roller by leachate plant PM Forklift
PENINSULA SURVEY		Van
B.L. SMITH ELECTRIC		Truck
FLORIDA JET CLEAN		Truck, trailer, van
BARNEY'S PUMPS		Truck

HOURS INSPECTOR ON JOB SITE: 7:10 -4:30 worked through lunch

John C McKay III
Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 291

CONTRACTOR'S REP.: Bill Skipper **DATE:** 7-11-02,Thursday

****

VISITORS: _____

_____

_____

WEATHER: a.m.p/cldy p.m.cldy.

TEMP. RANGE: 73°- 87°

RAINFALL: .2"ovrnt,

MAJOR DELIVERIES: No Bypass, only cover hauled,County pumping storm water from both cells.

Ash lift station pumped 42,000 gallons leachate overnight, and has maintained, hose was running into lift station over night, SW lift maitained leachate.

****

WORK PERFORMED:

Handex:

Jerry and Bill place steps back at SW1 primary, and repair concrete holes in the lid. They water down the sand for compaction., fill out letter of comencement for John Power

.

Barney's Pumps: No work

Plugmaster: 10:00 on site removing dead sod southeast of SW1, then 3:00 unload and install new sod, and some sod placement along the road. PM replace sod by SW2 east swale. Crew dumped dead sod in the trees east of SW1, rutted the grass slopes driving over them. Crew is informed the dead sod had been agreed to go to Class III, the ruts should be fixed and grassed. 4:30 PM Mike Ebert is informed, and will seed the disturbed area by ash lift station, was going to fertilize and mulch, but it did not happen.

B. L. Smith Electric: No work

Peninsula Survey: No work.

Miscellaneous: John Power signs letter of Comencement so Handex can get Electrical permit action done.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 291

CONTRACTOR'S REP.: Bill Skipper **DATE:** 7-11-02, Thursday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 0 day laborer) (including 2 Handex Envir.)	2	Ford Water Truck Kobelco SK 200 excavator Case 580L Backhoe 2 Pickup Trucks
Plugmasters 1:45 on site	5	Bobcat Forklift, broke down roller by job trailer PM Forklift
PENINSULA SURVEY		Van
B.L. SMITH ELECTRIC		Truck
FLORIDA JET CLEAN		Truck, trailer, van
BARNEY'S PUMPS		Truck

HOURS INSPECTOR ON JOB SITE: 7:05 – 4:00

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 292

CONTRACTOR'S REP.: Bill Skipper **DATE:** 7-12-02,Friday

****

VISITORS: Walk Through, Kirk, Gary, Carl of Handex on site. Dan Strobridge on site.

WEATHER: a.m.m/cldy p.m.cldy.

TEMP. RANGE: 73°- 85°

RAINFALL: .8"ovrnt,

MAJOR DELIVERIES: No Bypass, only cover hauled,County pumping storm water from both cells.

Ash lift station maintained leachate overnight, SW lift maitained leachate.

****

WORK PERFORMED:

Handex:

Jerry replacing brass valve markers in repoured concrete @A2. Bill installs second lightning arrestor. Install post in the southwest corner edge of liner of cell A3. Remove temporary control panel at Ash lift station. Clean up on some of the road areas. Place some fill around valve box concrete pads at A2 reuse, and SW lift reuse.

Barney's Pumps: No work

Plugmaster: Mike on site for walk through, crew not on site.

B. L. Smith Electric: No work

Peninsula Survey: No work.

Miscellaneous:

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 292

CONTRACTOR'S REP.: Bill Skipper **DATE:** 7-12-02, Friday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 0 day laborer) (including 2 Handex Envir.)	2	Ford Water Truck Kobelco SK 200 excavator Case 580L Backhoe 2 Pickup Trucks
Plugmasters		broke down roller by job trailer
PENINSULA SURVEY		Van
B.L. SMITH ELECTRIC		Truck
FLORIDA JET CLEAN		Truck, trailer, van
BARNEY'S PUMPS		Truck

HOURS INSPECTOR ON JOB SITE: 7:00 – 2:45

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 295

CONTRACTOR'S REP.: Bill Skipper **DATE:** 7-15-02,Monday

****

VISITORS: _____

_____

_____

WEATHER: a.m.p/cldy p.m p/cldy.

TEMP. RANGE: 76°- 92°

RAINFALL: 2.0"ovrwknd

MAJOR DELIVERIES: No Bypass, only cover hauled, County pumping storm water from SW2.

Ash lift station maintained leachate overnight, SW lift did maintain leachate, alarm on since Saturday.

****

WORK PERFORMED:

Handex:

Sod crew worked over the weekend, SW2 west ditch blow out repair, sod the washout over the culvert crossing the road by A2, SW lift thrust block area, and the SW1 manhole area.General clean up is done around the job site, including the road. Some sod touch up is done SW2 clean out northeast, and between A1 primary and secondary. 1:30 watering new sod, then cement hole in the A1 primary lid, and cut off excess bolts. Bill Skipper switches the lead and lag pump sequence at SW lift, no more alarm, delay time in question again, to check with manufacturer.

Barney's Pumps: No work.

Plugmaster: 3:20 PM 4 man crew on site to replace sod east of A2/A3, marked in orange paint.

B. L. Smith Electric: No work

Peninsula Survey: No work.

Miscellaneous:

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 295

CONTRACTOR'S REP.: Bill Skipper **DATE:** 7-15-02, Monday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 0 day laborer) (including 2 Handex Envir.)	2	Ford Water Truck mechanic works on AM Kobelco SK 200 excavator(still on site) Case 580L Backhoe 2 Pickup Trucks
Plugmasters	4	broke down roller by job trailer forklift on site from weekend
PENINSULA SURVEY		Van
B.L. SMITH ELECTRIC		Truck
FLORIDA JET CLEAN		Truck, trailer, van
BARNEY'S PUMPS		Truck

HOURS INSPECTOR ON JOB SITE: 7:15 – 3 :45

John Charles Hyle III
Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 296

CONTRACTOR'S REP.: Bill Skipper **DATE:** 7-16-02,Tuesday

****

VISITORS: _____

_____

_____

WEATHER: a.m.p/cldy p.m p/cldy.

TEMP. RANGE: 76°- 92°

RAINFALL: .0"ovrnt _____,

MAJOR DELIVERIES: No Bypass, only cover hauled, County pumping storm water from SW2.

Ash lift station maintained leachate overnight, SW lift station did maintain leachate,

****

WORK PERFORMED:

Handex:

Dressing up SW1 structures and stairs, including paint, then move to A1 structures. Discuss tomorrows training session, Bill Skipper to bring an 8" tee for the plug demonstration. Numerous phone calls are made tracking down the O&M manuels, they appear to be lost in Texas or Atlanta Handex offices. Jack departs to the office to pick up submitted manuels in the CDM office.

Barney's Pumps: No work.

Plugmaster: After lunch 4 man crew on site to continue to replace sod east of A2/A3, marked in orange paint. Four partial pallets of sod were left on site. Crew hand spreads fertilizer in areas previously missed, weed wack and seed the southwest corner of A3, and spread hay over seed south of ash lift station.

B. L. Smith Electric: No work

Peninsula Survey: No work.

Miscellaneous:

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 296

CONTRACTOR'S REP.: Bill Skipper **DATE:** 7-16-02, Tuesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 0 day laborer) (including 2 Handex Envir.)	2	Ford Water Truck Kobelco SK 200 excavator(still on site) Case 580L Backhoe 2 Pickup Trucks
Plugmasters	4	broke down roller by job trailer forklift on site from weekend
PENINSULA SURVEY		Van
B.L. SMITH ELECTRIC		Truck
FLORIDA JET CLEAN		Truck, trailer, van
BARNEY'S PUMPS		Truck

HOURS INSPECTOR ON JOB SITE: 7:00 – 4 :00 to office

John C. McHugh III
Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 297

CONTRACTOR'S REP.: Bill Skipper **DATE:** 7-17-02,Thursday

****

VISITORS Jeff Smith and Ed Green of Alpha Control
Kirk from Handex, Troy and Randy from
Barney's Pumps for start up training

WEATHER: a.m.p/cldy p.m p/cldy.
TEMP. RANGE: 80°- 93°
RAINFALL: .0"ovrnt

MAJOR DELIVERIES: No Bypass, only cover hauled, County pumping storm water from SW2and A3

Ash lift station maintained leachate overnight, SW lift station did not maintain leachate, AM alarm on,

****

WORK PERFORMED:

Handex:

Using water truck to wash down flumes, then grind down bolt stubs and more painting at old lift stations, clean off valve boxes covered by soil.

Start up training done without O&M manuels, believed to be in the Handex Atlanta office. After start up training Bill tries to prime the 2nd pump at the SW lift station. Bill says he wants the job trailer emptied this week. Kirk gives the County the Appleton plug that connects from a generator to the control panel.

Barney's Pumps: 0920 on site and replace ash lift station impellers, then do some of the pump and control panel training.

Plugmaster: No work.

B. L. Smith Electric: Electrician on site and begins the switch out of conduits at the lift stations, from steel to aluminum.

Peninsula Survey: No work.

Miscellaneous: During the start up training more items to be addressed are brought up. The low voltage wire is still not connected to the panel, Bill Skipper says he is waiting for direction from the County. I remind him I had given him a parts list and a sketch from the old panel. Also the County's lift station guy was on site and he did not ask him. Can't the Barney's guys look at the old panel? He says he will take care of it. Bill is to look into where the threaded 8" HDPE plugs went for the tees at the interim flaps.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 297

CONTRACTOR'S REP.: Bill Skipper **DATE:** 7-17-02, Wednesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 0 day laborer) (including 2 Handex Envir.)	2	Ford Water Truck Kobelco SK 200 excavator(still on site) Case 580L Backhoe 2 Pickup Trucks
Plugmasters		broke down roller by job trailer
PENINSULA SURVEY		Van
B.L. SMITH ELECTRIC		Truck
FLORIDA JET CLEAN		Truck, trailer, van
BARNEY'S PUMPS	2	Truck

HOURS INSPECTOR ON JOB SITE: 7:30 – 5:15

John C McGlothlin III
Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 298

CONTRACTOR'S REP.: Bill Skipper **DATE:** 7-18-02,Thursday

****

VISITORS: _____

_____

_____

WEATHER: a.m.p/cldy p.m p/cldy.

TEMP. RANGE: 82°- 92°

RAINFALL: .0"ovrnt ,

MAJOR DELIVERIES: No Bypass, only cover hauled, County pumping storm water from SW2and A3

Ash lift station maintained leachate overnight, SW lift station did maintain leachate,

****

WORK PERFORMED:

Handex:

Loading up tool trailer, clean up trailer area. 0900 water cooler removed by Culligan, port-o-let to follow. Bill Skipper to look at hose connectors for nozzle and BL Smith pump wire splices.

Barney's Pumps: No work.

Plugmaster: No work.

B. L. Smith Electric: Electrician on site and begins the switch out of conduits at the lift stations, from steel to aluminum.

Peninsula Survey: No work.

Miscellaneous: Give John Power copies of the training sign in sheets, PM

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 298

CONTRACTOR'S REP.: Bill Skipper **DATE:** 7-18-02, Thursday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 0 day laborer) (including 2 Handex Envir.)	2	Ford Water Truck Kobelco SK 200 excavator(still on site) Case 580L Backhoe 2 Pickup Trucks
Plugmasters		broke down roller by job trailer
PENINSULA SURVEY		Van
B.L. SMITH ELECTRIC	1	Truck
FLORIDA JET CLEAN		Truck, trailer, van
BARNEY'S PUMPS		Truck

HOURS INSPECTOR ON JOB SITE: 7:30 – :00 to office

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 302

CONTRACTOR'S REP.: Bill Skipper **DATE:** 7-22-02,Monday

****

VISITORS: _____

_____

_____

WEATHER: a.m.p/cldy p.m.cldy.

TEMP. RANGE: 72°- 89°

RAINFALL: 2.0"ovrwknd,1:15 rain starts.

MAJOR DELIVERIES: No Bypass, only cover hauled, County pumping storm water from SW2.

Ash lift station maintained leachate overnight, SW lift did not maintain leachate. Wired wrong in conduit switch out Saturday.

****

WORK PERFORMED:

Handex:

Jerry doing clean up and tries to prime SW lift pumps, with no success. Jerry had the hose needed to prime pump #1 in his truck over the weekend. Bill says the new 15' hose is to arrive soon. Numbers are installed on the lift station pumps.

Barney's Pumps: Wires in Crom Tank valve to Ash control panel, then corrects wiring to SW lift station flow switch.

Plugmaster: No work.

B. L. Smith Electric: No work today, but worked on Saturday. Conduit switch out was completed,(but wired incorrectly) and one storm water pump was wired into each pole at SW2 and A3.

Peninsula Survey: No work.

Miscellaneous: SW lift holding excessive leachate. Ron turns off alarm. Pump #1 is running hot to the touch but not moving leachate. Pump #1 showing –5 PSI, #2 showing –10 PSI, #2 no flow yellow light on. Mechanic working on water truck early AM.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 302

CONTRACTOR'S REP.: Bill Skipper **DATE:** 7-22-02, Monday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 0 day laborer) (including 2 Handex Envir.)	2	Ford Water Truck mechanic works on AM Kobelco SK 200 excavator(still on site) Case 580L Backhoe 2 Pickup Trucks
Plugmasters		broke down roller by job trailer
PENINSULA SURVEY		Van
B.L. SMITH ELECTRIC		Truck
FLORIDA JET CLEAN		Truck, trailer, van
BARNEY'S PUMPS	1	Truck

HOURS INSPECTOR ON JOB SITE: 7:15 – 2:00 to office

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 303

CONTRACTOR'S REP.: Bill Skipper **DATE:** 7-23-02,Tuesday

****

VISITORS: _____

_____

_____

WEATHER: a.m.p/cldy p.m.cldy.

TEMP. RANGE: 73°- 86°

RAINFALL: 1.3"ovrnt ,

MAJOR DELIVERIES: No Bypass, only cover hauled, County pumping storm water from A3.

Ash lift station maintained leachate overnight, SW lift did not maintain leachate. Wired wrong in conduit switch out Saturday.

****

WORK PERFORMED:

Handex:

Only Bill on site for Handex, he pulls out the float from A1 secondary structure. He disconnects generator from job trailer and moves it to next to Excavator awaiting pick up. Tool trailer is already off site, job trailer to follow next week, possibly after Barney's pumps switches out SW impellers. General clean up is done around the job trailer area, and the conduit stub is cut at SW1. The air vent on the SW lift piping is extended down, and the valves are reopened at the SW1 structures.

Barney's Pumps: 10:00 on site, 11:10 pump #2 new seals installed, then start #1. 12:25 #2 running, #1 wired in reverse, running backwards. 1:15 #1 running, then check wiring to SW lift station flow switches and floats. 2:35 checkout of SW lift station control panel complete.

Plugmaster: No work. Inform Mike still have scattered brown spots, and no visible seed or fertilizer on the west slope of SW1/SW2 area. He says he will address it right away.

B. L. Smith Electric: No work

Peninsula Survey: No work.

Miscellaneous: SW lift holding excessive leachate. Barney's Pumps crew worked on SW lift and leachate caught up with by 3:00. 3:30 PM Pump #1 showing –3 PSI, #2 showing –19 PSI. Bubbler tube on SW1 primary is clogged. Voice messages are left for Bill Skipper Wednesday morning concerning loss of vacuum on SW lift #1 pump and clogged tube. Ash lift pump moving 100 gallons per minute, SW lift single pump moving 200 gallons per minute, 350 gallons per minute with two pumps, but only about a 10' lift. 11 PSI output.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 303

CONTRACTOR'S REP.: Bill Skipper **DATE:** 7-23-02, Tuesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 0 day laborer) (including 1 Handex Envir.)	1	Ford Water Truck mechanic works on AM Kobelco SK 200 excavator(still on site) Case 580L Backhoe 1 Pickup Trucks
Plugmasters		broke down roller by job trailer
PENINSULA SURVEY		Van
B.L. SMITH ELECTRIC		Truck
FLORIDA JET CLEAN		Truck, trailer, van
BARNEY'S PUMPS	2	Truck

HOURS INSPECTOR ON JOB SITE: 7:30 – 4 :00

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 310

CONTRACTOR'S REP.: Bill Skipper **DATE:** 7-30-02,Tuesday

****

VISITORS: DEP full media inspection

WEATHER: a.m. clr p.m.p/cldy.

TEMP. RANGE: 76°- 93°

RAINFALL: 3"in gauge, Friday had rain

MAJOR DELIVERIES: No Bypass, only cover hauled, County pumping storm water from SW2 and A3.

Ash lift station full of leachate ,

****

WORK PERFORMED:

Handex:

No one from Handex is on site this morning, yesterday PM they painted bolts on the Ash lift station, the phone line is taken down by the trailer. The Ash lift station is not operating, pumps turn on when lag float is lifted out of the manhole, but pumps continue to run past fourth float. Pump 1 loses prime. One hose is brought over from SW lift station. 2:25 PM Bill Skipper is on site. Bill says duplex controller is bad, he replaces it with one from the old control panel, it cycles OK. 3:00 PM pump reprimed, move to SW2 concrete manhole, and remove plugs from secondary then primary. .

Barney's Pumps: Nowork.

Plugmaster: No work.

B. L. Smith Electric: Works on Ash lift station , then doing shrink splices on meter cords, late PM picking up excess power poles.

Peninsula Survey: No work.

Miscellaneous: Ash forcemain meter shows 250 gallons per minute. A2 new meters read 37 gallons per minute, A1 shows 14 gallons per minute, for a total of 51 gal/min., 3,060 gal/hr., 73,440 gal/day. Two pumps appear to be able to handle that flow in 5 hours of run time.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 310

CONTRACTOR'S REP.: Bill Skipper **DATE:** 7-30-02, Tuesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 0 day laborer) (including 1 Handex Envir.)	1	Ford Water Truck mechanic works on AM Case 580L Backhoe 1 Pickup Truck
Plugmasters		broke down roller by job trailer
PENINSULA SURVEY		Van
B.L. SMITH ELECTRIC	1	Truck
FLORIDA JET CLEAN		Truck, trailer, van
BARNEY'S PUMPS		Truck

HOURS INSPECTOR ON JOB SITE: 7:25 – 4 :15 to office

John C Mr II

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 313

CONTRACTOR'S REP.: Bill Skipper **DATE:** 8-02-02,Friday

****

VISITORS: _____

_____

_____

WEATHER: a.m.cldy p.m.cldy.

TEMP. RANGE: 75°- 86°

RAINFALL: .3"in gauge 0810 rain starts ,

MAJOR DELIVERIES: No Bypass, County pumping storm water from A3,SW2.

Ash lift station did not maintain leachate, SW lift station did maintain leachate.

****

WORK PERFORMED:

Handex:

No work

Barney's Pumps: No work.

Plugmaster: No work.

B. L. Smith Electric: No work

Peninsula Survey: No work.

Miscellaneous: Jack on site to look at Ash lift station, full of leachate

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 313

CONTRACTOR'S REP.: Bill Skipper **DATE:** 8-02-02, Friday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 0 day laborer) (including 0 Handex Envir.)		
Plugmasters		
PENINSULA SURVEY		Van
B.L. SMITH ELECTRIC		Truck
FLORIDA JET CLEAN		Truck, trailer, van
BARNEY'S PUMPS		Truck

HOURS INSPECTOR ON JOB SITE: 7:20 – 9:00? to office

John C Mackey III
Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 318

CONTRACTOR'S REP.: Bill Skipper **DATE:** 8-07-02,Wednesday

****

VISITORS: _____

_____

_____

WEATHER: a.m.cldy p.m.cldy.

TEMP. RANGE: 75°- 86°

RAINFALL: 0900 rain starts _____,

MAJOR DELIVERIES: No Bypass, County pumping storm water from A3,SW2.

Ash lift station maintained leachate overnight only running pump 2, SW lift did maintain leachate.

****

WORK PERFORMED:

Handex:

No work

Barney's Pumps: No work.

Plugmaster: No work.

B. L. Smith Electric: No work

Peninsula Survey: No work.

Miscellaneous: Jack on site to zero totalized flow, and check the punch list items Bill Skipper stated were done. Bill stated on 7-31-02 the plugs had been pulled from the concrete manholes, the second half of that item was rinse metering manholes A3 and SW2. Sediment remained, including around bubbler tubes, indicating false flow. After I rinse the bubbler area, it is apparent that the tubes are not set to the proper zero.(voice mail Bill) Borrowed County "T"bar to flush flumes, County says Handex still has their big "T" bar. Solid Waste lift station is running on auto, alternating pumps, both vacuum gauges show –19 psi. The Ash lift station is maintaining leachate flow only running pump 2, pump 2 shows –23 ½ psi, while pump 1 only shows –10 psi. The storm water pump cord splices were not done with the same model number as was submitted, same manufacturer. There are still significant areas that have been seeded that have not greened up.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 318

CONTRACTOR'S REP.: Bill Skipper **DATE:** 8-07-02, Wednesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 0 day laborer) (including 0 Handex Envir.)		
Plugmasters		
PENINSULA SURVEY		Van
B.L. SMITH ELECTRIC		Truck
FLORIDA JET CLEAN		Truck, trailer, van
BARNEY'S PUMPS		Truck

HOURS INSPECTOR ON JOB SITE: 7:20 – 11:00 to office

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 324

CONTRACTOR'S REP.: Bill Skipper **DATE:** 8-13-02,Tuesday

****

VISITORS: Bruce, Handex VP

WEATHER: a.m.p/cldy p.m.cldy.

TEMP. RANGE: 73°- 85°

RAINFALL:1.8" in gag,1:55-2:30 rain

MAJOR DELIVERIES: Job Trailer and Port-o-let still on site. No Bypass, County pumping storm water from SW2 and A3.

Ash lift station maintained leachate over week, also, SW lift did maintain leachate.

****

WORK PERFORMED:

Handex:

0920 on site, SW1 rinse sediment off H flumes. Primary meter reading drops from 3.4" to 1.19",or 5.4 gallons per minute. Secondary meter still plugged, with bolts and bracket on the flume. Move to Solid Waste lift station when Barney's arrives. Replace vitalic seal and tighten handle to check valve, to stop leaks. PM move to Ash lift station., touch up painting at both lift stations. 3:30 attempt to close Crom tank valve, but it will not override close..

Alpha Valve and Controls No work

Barney's Pumps: 10:10 Barney's on site at SW lift station, begin to switch out impellers. Prime and run both pumps, they turn off automatically at the bottom float. 12:40 move to Ash lift station, and change out some off the wiring in the control panel. Change the vacuum gauge on pump #1, still reads –10 PSI. Further changes are done to wiring when high alarm float still turns off pumps. 3:30 testing Crom tank valve at control panel, valve won't close, can't land wires. 4:30 Barney's departs, schematic needs to be updated.

Plugmaster: No work.

B. L. Smith Electric: No work

Peninsula Survey: No work.

Miscellaneous: Jack resets A3 secondary meter and zero's totalizer, SW2 primary 0 already, adjust secondary to zero. 0915 Call Dan, to call Handex, no one from Handex on site yet. 0920 Skipper arrives. PM Dan suggests finding Crom tank valve O&M manual for wiring diagram. There are still significant areas that have been seeded that have not greened up.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 324

CONTRACTOR'S REP.: Bill Skipper **DATE:** 8-13-02, Tuesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 0 day laborer) (including 3 Handex Envir.)	3	3Trucks
Alpha Valve and Control		Van and tools
Plugmasters		
PENINSULA SURVEY		Van
B.L. SMITH ELECTRIC		Truck
FLORIDA JET CLEAN		Truck, trailer, van
BARNEY'S PUMPS	2	1 Truck

HOURS INSPECTOR ON JOB SITE: 7:15 – 5:35

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 325

CONTRACTOR'S REP.: Bill Skipper **DATE:** 8-14-02,Wednesday

****

VISITORS: _____

_____

_____

WEATHER: a.m.p/cldy p.m.cldy.

TEMP. RANGE: 72°- 85°

RAINFALL: _____,

MAJOR DELIVERIES: Job Trailer and Port-o-let still on site. No Bypass, County pumping storm water from A3.

Ash lift station maintained leachate overnight, also, SW lift did maintain leachate.

****

WORK PERFORMED:

Handex:

0845 Kirk on site, meets with Withlahoochi Power, and calls BL Smith. BL crew to be on site around 11:00. Kirk says the HDPE threaded plugs will be sent out, and will be delivered at a later date.

Alpha Valve and Controls No work

Barney's Pumps: No work.

Plugmaster: No work.

B. L. Smith Electric: Hooking up permanent power to the breakers in the panel, to test pump rotation.

Peninsula Survey: No work.

Withlahoochi Power: 0915 on site, 10:40 power is switched over at Ash lift station, but the permanent power is not wired into the control panel. (BL Smith to wire it)

Miscellaneous: . There are still significant areas that have been seeded that have not greened up.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 325

CONTRACTOR'S REP.: Bill Skipper **DATE:** 8-14-02, Wednesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 0 day laborer) (including 3 Handex Envir.)	1	1Truck
Alpha Valve and Control		Van and tools
Plugmasters		
PENINSULA SURVEY		Van
B.L. SMITH ELECTRIC	1	1Truck
WITHLAHOOCHI POWER	3	2Trucks
BARNEY'S PUMPS		1 Truck

HOURS INSPECTOR ON JOB SITE: 7:15 –

Resident Inspector

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RESIDENT INSPECTOR'S DAILY REPORT

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 332

CONTRACTOR'S REP.: Bill Skipper **DATE:** 8-21-02,Wednesday

****

VISITORS: Ms. Davis, Safety person, Handex

WEATHER: a.m.p/cldy p.m.p/cldy.
TEMP. RANGE: 75°- 88°
RAINFALL: rain gauge gone

MAJOR DELIVERIES: Job Trailer is gone, Port-o-let still on site. No Bypass, County pumping storm water from SW2.
Ash lift station maintained leachate over week, also, SW lift did maintain leachate.

****

WORK PERFORMED:

Handex:
Working with Alpha control, after watching confined space entry video. Rinse metering manholes from above, some flushing by opening and closing ball valves. Entry is done to make corrections in SW1 secondary.

Alpha Valve and Controls 0905 Ed and Ed arrive on site, begin resetting zero on bubbler tubes and setting the totalizer to hundreds of gallons, from thousands. Also the bubbler purge frequency increased from once every 15 minutes, to every 5. Work is done from above ground, starting with A3, then A2, SW2, A1, SW1. Alpha to generate a report stating the meters are set and operational.

Barney's Pumps: No work.

Plugmaster: No work.

B. L. Smith Electric: No work

Peninsula Survey: No work.

Miscellaneous: Bill Borrowed County "T"bar to flush flumes, County says Bill returned their big "T" bar. There are still significant areas that have been seeded that have not greened up.

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DAILY PROGRESS REPORT Continuation Sheet

PROJECT: Pasco County, Florida
West Pasco County Landfill Expansion
Cells A-3 and SW-2

CONTRACTOR: Handex **REPORT NO.:** 332

CONTRACTOR'S REP.: Bill Skipper **DATE:** 8-21-02, Wednesday

****

CONTRACTOR	No. Men	EQUIPMENT
HANDEX (including 0 day laborer) (including 1 Handex Envir.)	1	Truck/trailer/equipment
Alpha Valve and Control	2	Van and tools
Plugmasters		
PENINSULA SURVEY		Van
B.L. SMITH ELECTRIC		Truck
FLORIDA JET CLEAN		Truck, trailer, van
BARNEY'S PUMPS		Truck

HOURS INSPECTOR ON JOB SITE: 8:00 – 11:30 to office, return PM

Resident Inspector

2 Section Two

COMANCO

ENVIRONMENTAL CORPORATION

CERTIFICATE OF ACCEPTANCE OF SUBGRADE SURFACE BY INSTALLER

INSTALLER: COMANCO Environmental Corporation

PROJECT: West Pasco Landfill A3

LOCATION: _____

AREA ACCEPTED: _____

PANEL NUMBERS: 6280 - 350 Grade Acceptance: Inspector: _____

_____ General Contractor: Greg Williams

OWNER: _____

AUTHORIZED REPRESENTATIVE: _____

The undersigned, Robert LUNG, certifies that he/she is a representative of COMANCO Environmental Corporation duly authorized to execute this certificate, he/she has visually inspected the subgrade surface described above on 1-19-02 and found the surface to be acceptable for installation of the membrane.

This certification is based on observations of the surface of the subgrade only. No subsurface inspections or tests have been performed and COMANCO Environmental Corporation makes no representations or warranties regarding conditions which may exist below the surface of the subgrade.

Date: 1-19-02 Signature: Robert M Lung

Name: Robert M. LUNG

Title: QA/QC

CERTIFICATE ACCEPTED BY INSPECTOR:

Date: 1-19-02 Signature: John C. McHugh III

Name: John C. McHugh III

Title: RPR

Company: COM

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COMANCO

ENVIRONMENTAL CORPORATION

CERTIFICATE OF ACCEPTANCE OF SUBGRADE SURFACE BY INSTALLER

INSTALLER: COMANCO Environmental Corporation

PROJECT: West Pasco Landfill A-3

LOCATION:

AREA ACCEPTED: Surface Below

PANEL NUMBERS: 6-234-279 Grade Acceptance: Inspector:

General Contractor:

OWNER:

AUTHORIZED REPRESENTATIVE:

The undersigned, Robert LUNG, certifies that he/she is a representative of COMANCO Environmental Corporation duly authorized to execute this certificate, he/she has visually inspected the subgrade surface described above on 1-18-02 and found the surface to be acceptable for installation of the membrane.

This certification is based on observations of the surface of the subgrade only. No subsurface inspections or tests have been performed and COMANCO Environmental Corporation makes no representations or warranties regarding conditions which may exist below the surface of the subgrade.

Date: 1-18-02 Signature:

Name: Robert M. LUNG

Title: QA/QC

CERTIFICATE ACCEPTED BY INSPECTOR:

Date: 1-18-02 Signature:

Name: John C. McHugh III

Title: RPR

Company: CDM

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COMANCO

ENVIRONMENTAL CORPORATION

CERTIFICATE OF ACCEPTANCE OF SUBGRADE SURFACE BY INSTALLER

INSTALLER: COMANCO Environmental Corporation

PROJECT: West Pasco Landfill A-3

LOCATION: _____

AREA ACCEPTED: Surface Below

PANEL NUMBERS: 6200-233 Grade Acceptance: _____ Inspector: _____

_____ General Contractor: _____

OWNER: _____

AUTHORIZED REPRESENTATIVE: _____

The undersigned, Robert M. LUNG, certifies that he/she is a representative of COMANCO Environmental Corporation duly authorized to execute this certificate, he/she has visually inspected the subgrade surface described above on 1-17-02 and found the surface to be acceptable for installation of the membrane.

This certification is based on observations of the surface of the subgrade only. No subsurface inspections or tests have been performed and COMANCO Environmental Corporation makes no representations or warranties regarding conditions which may exist below the surface of the subgrade.

Date: 1-17-02 Signature: Robert M. Lung

Name: Robert M. LUNG

Title: QA/QC

CERTIFICATE ACCEPTED BY INSPECTOR:

Date: 1-17-02 Signature: John C McHugh III

Name: John C. McHugh III

Title: RPR

Company: CDM

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COMANCO

ENVIRONMENTAL CORPORATION

CERTIFICATE OF ACCEPTANCE OF SUBGRADE SURFACE BY INSTALLER

INSTALLER: COMANCO Environmental Corporation

PROJECT: West Pasco Landfill A-3

LOCATION: _____

AREA ACCEPTED: Surface Below

PANEL NUMBERS: G200-233 Grade Acceptance: Inspector: _____

_____ General Contractor: _____

OWNER: _____

AUTHORIZED REPRESENTATIVE: _____

The undersigned, Robert M. LUNG, certifies that he/she is a representative of COMANCO Environmental Corporation duly authorized to execute this certificate, he/she has visually inspected the subgrade surface described above on 1-17-02 and found the surface to be acceptable for installation of the membrane.

This certification is based on observations of the surface of the subgrade only. No subsurface inspections or tests have been performed and COMANCO Environmental Corporation makes no representations or warranties regarding conditions which may exist below the surface of the subgrade.

Date: 1-17-02 Signature: Robert M. Lung

Name: Robert M. LUNG

Title: QA/QC

CERTIFICATE ACCEPTED BY INSPECTOR:

Date: 1-17-02 Signature: John C McHugh III

Name: John C. McHugh III

Title: RPR

Company: COM

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COMANCO

ENVIRONMENTAL CORPORATION

CERTIFICATE OF ACCEPTANCE OF SUBGRADE SURFACE BY INSTALLER

INSTALLER: COMANCO Environmental Corporation

PROJECT: West Pasco Landfill A-3

LOCATION: _____

AREA ACCEPTED: Surface UNDER.

PANEL NUMBERS: 6169.-199 Grade Acceptance: Inspector: _____

_____ General Contractor: Graf Nielsen

OWNER: _____

AUTHORIZED REPRESENTATIVE: _____

The undersigned, Robert LUNG, certifies that he/she is a representative of COMANCO Environmental Corporation duly authorized to execute this certificate, he/she has visually inspected the subgrade surface described above on 1-16-02 and found the surface to be acceptable for installation of the membrane.

This certification is based on observations of the surface of the subgrade only. No subsurface inspections or tests have been performed and COMANCO Environmental Corporation makes no representations or warranties regarding conditions which may exist below the surface of the subgrade.

Date: 1-16-02 Signature: Robert M. Lung

Name: Robert M. LUNG

Title: QA-QC

CERTIFICATE ACCEPTED BY INSPECTOR:

Date: 1-16-02 Signature: John C McHugh III

Name: John C. McHugh III

Title: RPR

Company: CDM

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COMANCO

ENVIRONMENTAL CORPORATION

CERTIFICATE OF ACCEPTANCE OF SUBGRADE SURFACE BY INSTALLER

INSTALLER: COMANCO Environmental Corporation

PROJECT: West Pasco Landfill A3.

LOCATION: _____

AREA ACCEPTED: Surface Under

PANEL NUMBERS: G-142-168 Grade Acceptance: Inspector: _____

General Contractor: [signature]

OWNER: _____

AUTHORIZED REPRESENTATIVE: _____

The undersigned, Robert M. LUNG, certifies that he/she is a representative of COMANCO Environmental Corporation duly authorized to execute this certificate, he/she has visually inspected the subgrade surface described above on 1-15-02 and found the surface to be acceptable for installation of the membrane.

This certification is based on observations of the surface of the subgrade only. No subsurface inspections or tests have been performed and COMANCO Environmental Corporation makes no representations or warranties regarding conditions which may exist below the surface of the subgrade.

Date: 1-15-02 Signature: Robert M. Lung

Name: Robert M. LUNG

Title: QA-QC

CERTIFICATE ACCEPTED BY INSPECTOR:

Date: 1-15-02 Signature: John C McHugh III

Name: John C. McHugh III

Title: RPR

Company: CDM

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COMANCO

ENVIRONMENTAL CORPORATION

CERTIFICATE OF ACCEPTANCE OF SUBGRADE SURFACE BY INSTALLER

INSTALLER: COMANCO Environmental Corporation

PROJECT: West Pasco Landfill Ash Cell #3

LOCATION: _____

AREA ACCEPTED: Surface Under.

PANEL NUMBERS: G-128 to 6141 Grade Acceptance: Inspector: _____

_____ General Contractor: _____

OWNER: _____

AUTHORIZED REPRESENTATIVE: _____

The undersigned, Robert M. LUNG., certifies that he/she is a representative of COMANCO Environmental Corporation duly authorized to execute this certificate, he/she has visually inspected the subgrade surface described above on 1-12-02. and found the surface to be acceptable for installation of the membrane.

This certification is based on observations of the surface of the subgrade only. No subsurface inspections or tests have been performed and COMANCO Environmental Corporation makes no representations or warranties regarding conditions which may exist below the surface of the subgrade.

Date: 1-12-02 Signature: Robert M. Lung.

Name: Robert M. LUNG.

Title: QA-QC

CERTIFICATE ACCEPTED BY INSPECTOR:

Date: 1-12-02 Signature: John C. McHugh III

Name: John C. McHugh III

Title: RPR

Company: Camp Dresser & McKee

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COMANCO

ENVIRONMENTAL CORPORATION

CERTIFICATE OF ACCEPTANCE OF SUBGRADE SURFACE BY INSTALLER

INSTALLER: COMANCO Environmental Corporation

PROJECT: West Pasco Landfill ASH Cell #3.

LOCATION: _____

AREA ACCEPTED: Surface Under.

PANEL NUMBERS: 698 - 6127 Grade Acceptance: _____ Inspector: _____

General Contractor: _____

OWNER: _____

AUTHORIZED REPRESENTATIVE: _____

The undersigned, Robert M. LUNG., certifies that he/she is a representative of COMANCO Environmental Corporation duly authorized to execute this certificate, he/she has visually inspected the subgrade surface described above on 1-11-02 and found the surface to be acceptable for installation of the membrane.

This certification is based on observations of the surface of the subgrade only. No subsurface inspections or tests have been performed and COMANCO Environmental Corporation makes no representations or warranties regarding conditions which may exist below the surface of the subgrade.

Date: 1-11-02 Signature: Robert M Lung.

Name: Robert M. LUNG

Title: QA-QC

CERTIFICATE ACCEPTED BY INSPECTOR:

Date: 1-11-02 Signature: John C. McHugh III

Name: John C. McHugh III

Title: RPR

Company: Camp Dresser & McKee

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COMANCO

ENVIRONMENTAL CORPORATION

CERTIFICATE OF ACCEPTANCE OF SUBGRADE SURFACE BY INSTALLER

INSTALLER: COMANCO Environmental Corporation

PROJECT: West Pasco Landfill ASH Cell #3.

LOCATION: _____

AREA ACCEPTED: Surface under

PANEL NUMBERS: G 64 to G 97 Grade Acceptance: _____ Inspector: _____

OWNER: _____ General Contractor: _____

AUTHORIZED REPRESENTATIVE: _____

The undersigned, _____, certifies that he/she is a representative of COMANCO Environmental Corporation duly authorized to execute this certificate, he/she has visually inspected the subgrade surface described above on 1-10-02 and found the surface to be acceptable for installation of the membrane.

This certification is based on observations of the surface of the subgrade only. No subsurface inspections or tests have been performed and COMANCO Environmental Corporation makes no representations or warranties regarding conditions which may exist below the surface of the subgrade.

Date: 1-10-02 Signature: Robert M. Lung.

Name: Robert M Lung.

Title: QA-QC

CERTIFICATE ACCEPTED BY INSPECTOR:

Date: 1-10-02 Signature: John C McHugh III

Name: John C. McHugh III

Title: RPR

Company: Camp Dresser & McKee

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COMANCO

ENVIRONMENTAL CORPORATION

CERTIFICATE OF ACCEPTANCE OF SUBGRADE SURFACE BY INSTALLER

INSTALLER: COMANCO Environmental Corporation

PROJECT: West Pasco Landfill Ash Cell #3

LOCATION: _____

AREA ACCEPTED: Surface UNDER.

PANEL NUMBERS: G37 to G63 Grade Acceptance: _____ Inspector: _____

General Contractor: Greg Mann

OWNER: _____

AUTHORIZED REPRESENTATIVE: _____

The undersigned, Robert M. LUNG, certifies that he/she is a representative of COMANCO Environmental Corporation duly authorized to execute this certificate, he/she has visually inspected the subgrade surface described above on 1-9-02 and found the surface to be acceptable for installation of the membrane.

This certification is based on observations of the surface of the subgrade only. No subsurface inspections or tests have been performed and COMANCO Environmental Corporation makes no representations or warranties regarding conditions which may exist below the surface of the subgrade.

Date: 1-9-02. Signature: Robt M. Lung.

Name: Robert M. LUNG

Title: QA/QC

CERTIFICATE ACCEPTED BY INSPECTOR:

Date: 1-9-02 Signature: John C McHugh III

Name: John C. McHugh III

Title: RPR

Company: Camp Dresser & McKee

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COMANCO

ENVIRONMENTAL CORPORATION

CERTIFICATE OF ACCEPTANCE OF SUBGRADE SURFACE BY INSTALLER

INSTALLER: COMANCO Environmental Corporation

PROJECT: West Pasco Landfill Ash Cell #3.

LOCATION: _____

AREA ACCEPTED: Surface under. West Berm

PANEL NUMBERS: 61 – 36 Grade Acceptance: Inspector: _____

General Contractor: _____

OWNER: _____

AUTHORIZED REPRESENTATIVE: _____

The undersigned, Robert MLUNG., certifies that he/she is a representative of COMANCO Environmental Corporation duly authorized to execute this certificate, he/she has visually inspected the subgrade surface described above on 1-8-02. and found the surface to be acceptable for installation of the membrane.

This certification is based on observations of the surface of the subgrade only. No subsurface inspections or tests have been performed and COMANCO Environmental Corporation makes no representations or warranties regarding conditions which may exist below the surface of the subgrade.

Date: 1-8-02. Signature: Robt M. Lung

Name: Robert LUNG.

Title: QA/QC

CERTIFICATE ACCEPTED BY INSPECTOR:

Date: 1-8-02 Signature: John C McHugh III

Name: John C. McHugh III

Title: RPR

Company: Camp Dresser & McKee

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COMANCO

ENVIRONMENTAL CORPORATION

CERTIFICATE OF ACCEPTANCE OF SUBGRADE SURFACE BY INSTALLER

INSTALLER: COMANCO Environmental Corporation

PROJECT: West Pasco Landfill - SW2.

LOCATION: _____

AREA ACCEPTED: Surface Below

PANEL NUMBERS: G-555 to G609. Grade Acceptance: _____ Inspector: _____

General Contractor: [signature]

OWNER: _____

AUTHORIZED REPRESENTATIVE: _____

The undersigned, Robert M. LUNG, certifies that he/she is a representative of COMANCO Environmental Corporation duly authorized to execute this certificate, he/she has visually inspected the subgrade surface described above on 12-21-01 and found the surface to be acceptable for installation of the membrane.

This certification is based on observations of the surface of the subgrade only. No subsurface inspections or tests have been performed and COMANCO Environmental Corporation makes no representations or warranties regarding conditions which may exist below the surface of the subgrade.

Date: 12-21-01 Signature: Robert M. Lung

Name: Robert M. LUNG

Title: QA/QC

CERTIFICATE ACCEPTED BY INSPECTOR:

Date: 12-21-01 Signature: John C McHugh III

Name: John C. McHugh III

Title: RPR

Company: Camp Dresser & McKee

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COMANCO

ENVIRONMENTAL CORPORATION

CERTIFICATE OF ACCEPTANCE OF SUBGRADE SURFACE BY INSTALLER

INSTALLER: COMANCO Environmental Corporation

PROJECT: West Pasco Landfill SW-2

LOCATION: _____

AREA ACCEPTED: Surface Below

PANEL NUMBERS: G487-G554 Grade Acceptance: Inspector: _____

_____ General Contractor: Guy Wier

OWNER: _____

AUTHORIZED REPRESENTATIVE: _____

The undersigned, Robert M. LUNG, certifies that he/she is a representative of COMANCO Environmental Corporation duly authorized to execute this certificate, he/she has visually inspected the subgrade surface described above on 12-20-01 and found the surface to be acceptable for installation of the membrane.

This certification is based on observations of the surface of the subgrade only. No subsurface inspections or tests have been performed and COMANCO Environmental Corporation makes no representations or warranties regarding conditions which may exist below the surface of the subgrade.

Date: 12-20-01 Signature: Robert M Lung.

Name: Robert M. LUNG

Title: QA-QC

CERTIFICATE ACCEPTED BY INSPECTOR:

Date: 12-20-01 Signature: John C. McHugh III

Name: John C. McHugh III

Title: RPR

Company: Camp Dresser & McKee

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COMANCO

ENVIRONMENTAL CORPORATION

CERTIFICATE OF ACCEPTANCE OF SUBGRADE SURFACE BY INSTALLER

INSTALLER: COMANCO Environmental Corporation

PROJECT: West Pasco Land Fill SW-Cell 2.

LOCATION: _____

AREA ACCEPTED: Surface Below

PANEL NUMBER: 6420 - 6486 Grade Acceptance: Inspector: _____

_____ General Contractor: Greg Williams

OWNER: _____

AUTHORIZED REPRESENTATIVE: _____

The undersigned, Robert M LUNG, certifies that he/she is a representative of COMANCO Environmental Corporation duly authorized to execute this certificate, he/she has visually inspected the subgrade surface described above on 12-19-01 and found the surface to be acceptable for installation of the membrane.

This certification is based on observations of the surface of the subgrade only. No subsurface inspections or tests have been performed and COMANCO Environmental Corporation makes no representations or warranties regarding conditions which may exist below the surface of the subgrade.

Date: 12-19-01 Signature: Robt M Lung

Name: Robert M. LUNG

Title: QA/QC

CERTIFICATE ACCEPTED BY INSPECTOR:

Date: 12-19-01 Signature: John C McHugh III

Name: John C McHugh III

Title: RPR

Company: Camp Dresser & McKee

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COMANCO

ENVIRONMENTAL CORPORATION

CERTIFICATE OF ACCEPTANCE OF SUBGRADE SURFACE BY INSTALLER

INSTALLER: COMANCO Environmental Corporation

PROJECT: West Pasco Landfill SW 2

LOCATION: _____

AREA ACCEPTED: Surface Under

PANEL NUMBERS: G-320 to G449 Grade Acceptance: _____ Inspector: _____

General Contractor: Hugg Wilson

OWNER: _____

AUTHORIZED REPRESENTATIVE: _____

The undersigned, Robert LUNG, certifies that he/she is a representative of COMANCO Environmental Corporation duly authorized to execute this certificate, he/she has visually inspected the subgrade surface described above on 12-18-01 and found the surface to be acceptable for installation of the membrane.

This certification is based on observations of the surface of the subgrade only. No subsurface inspections or tests have been performed and COMANCO Environmental Corporation makes no representations or warranties regarding conditions which may exist below the surface of the subgrade.

Date: 12-18-01 Signature: Robert M. Lung

Name: Robert M. LUNG

Title: QA-QC

CERTIFICATE ACCEPTED BY INSPECTOR:

Date: 12-18-01 Signature: John C McHugh III

Name: John C. McHugh

Title: RPR

Company: Camp Dresser & McKee

COMANCO

ENVIRONMENTAL CORPORATION

CERTIFICATE OF ACCEPTANCE OF SUBGRADE SURFACE BY INSTALLER

INSTALLER: COMANCO Environmental Corporation

PROJECT: West Pasco County Landfill Cell SW-2.

LOCATION: _____

AREA ACCEPTED: Surface Below

PANEL NUMBERS: G322-G369 Grade Acceptance: _____ Inspector: _____

General Contractor: _____

OWNER: _____

AUTHORIZED REPRESENTATIVE: _____

The undersigned, Robert M. Lung, certifies that he/she is a representative of COMANCO Environmental Corporation duly authorized to execute this certificate, he/she has visually inspected the subgrade surface described above on 12-17-01 and found the surface to be acceptable for installation of the membrane.

This certification is based on observations of the surface of the subgrade only. No subsurface inspections or tests have been performed and COMANCO Environmental Corporation makes no representations or warranties regarding conditions which may exist below the surface of the subgrade.

Date: 12-17-01 Signature: Robert M. Lung

Name: Robert M. LUNG

Title: QA/QC

CERTIFICATE ACCEPTED BY INSPECTOR:

Date: 12-17-01 Signature: John C McHugh III

Name: John C. McHugh

Title: RPR

Company: Camp Dresser & McKee

7911 PROFESSIONAL PLACE • TAMPA, FLORIDA 33637 • (813) 988-8829 • FAX (813) 988-8779

COMANCO

ENVIRONMENTAL CORPORATION

CERTIFICATE OF ACCEPTANCE OF SUBGRADE SURFACE BY INSTALLER

INSTALLER: COMANCO Environmental Corporation

PROJECT: West Pasco County Landfill Cell SW-2

LOCATION: _____

AREA ACCEPTED: Bellow Surface.

PANEL NUMBERS: G-269-6321 Grade Acceptance: Inspector: _____

General Contractor: _____

OWNER: _____

AUTHORIZED REPRESENTATIVE: _____

The undersigned, Robert M Lung, certifies that he/she is a representative of COMANCO Environmental Corporation duly authorized to execute this certificate, he/she has visually inspected the subgrade surface described above on 12-15-01 and found the surface to be acceptable for installation of the membrane.

This certification is based on observations of the surface of the subgrade only. No subsurface inspections or tests have been performed and COMANCO Environmental Corporation makes no representations or warranties regarding conditions which may exist below the surface of the subgrade.

Date: 12-15-01 Signature: Robert M Lung

Name: Robert M. LUNG

Title: QA-QC

CERTIFICATE ACCEPTED BY INSPECTOR:

Date: 12-15-01 Signature: John C McHugh III

Name: John C. McHugh III

Title: RPR

Company: Camp Dresser & McKee

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COMANCO

ENVIRONMENTAL CORPORATION

CERTIFICATE OF ACCEPTANCE OF SUBGRADE SURFACE BY INSTALLER

INSTALLER: COMANCO Environmental Corporation

PROJECT: West Pasco County Landfill Cell SW-2.

LOCATION: _____

AREA ACCEPTED: Surface Below

PANEL NUMBERS: G-214 thru G-268 Grade Acceptance: Inspector: _____

_____ General Contractor: _____

OWNER: _____

AUTHORIZED REPRESENTATIVE: _____

The undersigned, Robert M. LUNG, certifies that he/she is a representative of COMANCO Environmental Corporation duly authorized to execute this certificate, he/she has visually inspected the subgrade surface described above on 12-14-01 and found the surface to be acceptable for installation of the membrane.

This certification is based on observations of the surface of the subgrade only. No subsurface inspections or tests have been performed and COMANCO Environmental Corporation makes no representations or warranties regarding conditions which may exist below the surface of the subgrade.

Date: 12-14-01 Signature: Robert M. Lung

Name: Robert M LUNG

Title: QA-QC

CERTIFICATE ACCEPTED BY INSPECTOR:

Date: 12-14-01 Signature: John C. McHugh III

Name: John C. McHugh III

Title: RPR

Company: Camp Dresser & McKee

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COMANCO

ENVIRONMENTAL CORPORATION

CERTIFICATE OF ACCEPTANCE OF SUBGRADE SURFACE BY INSTALLER

INSTALLER: COMANCO Environmental Corporation

PROJECT: West Pasco County Landfill Cell SW-2.

LOCATION: _____

AREA ACCEPTED: Surface Below Panels G-163 — G-213

PANEL NUMBERS: G-163 thru 213 Grade Acceptance: _____ Inspector: _____

General Contractor: Gary Weir

OWNER: _____

AUTHORIZED REPRESENTATIVE: _____

The undersigned, _____, certifies that he/she is a representative of COMANCO Environmental Corporation duly authorized to execute this certificate, he/she has visually inspected the subgrade surface described above on 12-13-01 and found the surface to be acceptable for installation of the membrane.

This certification is based on observations of the surface of the subgrade only. No subsurface inspections or tests have been performed and COMANCO Environmental Corporation makes no representations or warranties regarding conditions which may exist below the surface of the subgrade.

Date: 12-13-01 Signature: Robert M. Lung

Name: Robert M. LUNG

Title: QA-QC

CERTIFICATE ACCEPTED BY INSPECTOR:

Date: 12-13-01 Signature: John C. McHugh III

Name: John C. McHugh III

Title: RPR

Company: Camp Dresser & McKee

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COMANCO

ENVIRONMENTAL CORPORATION

CERTIFICATE OF ACCEPTANCE OF SUBGRADE SURFACE BY INSTALLER

INSTALLER: COMANCO Environmental Corporation

PROJECT: West Pasco County Landfill Cell 5W-2

LOCATION: _____

AREA ACCEPTED: Surface Below panels G128-G162

PANEL NUMBERS: G-128 Thru G-162 Grade Acceptance: Inspector: _____

General Contractor: _____

OWNER: _____

AUTHORIZED REPRESENTATIVE: _____

The undersigned, Robert M. Lung, certifies that he/she is a representative of COMANCO Environmental Corporation duly authorized to execute this certificate, he/she has visually inspected the subgrade surface described above on 12-12-01 and found the surface to be acceptable for installation of the membrane.

This certification is based on observations of the surface of the subgrade only. No subsurface inspections or tests have been performed and COMANCO Environmental Corporation makes no representations or warranties regarding conditions which may exist below the surface of the subgrade.

Date: 12-12-01 Signature: Robert M. Lung

Name: Robert M. LUNG.

Title: QA/QC

CERTIFICATE ACCEPTED BY INSPECTOR:

Date: 12-12-01 Signature: John C McHugh III

Name: John C. McHugh III

Title: RPR

Company: Camp Dresser & McKee

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COMANCO

ENVIRONMENTAL CORPORATION

CERTIFICATE OF ACCEPTANCE OF SUBGRADE SURFACE BY INSTALLER

INSTALLER: COMANCO Environmental Corporation

PROJECT: West Pasco County Landfill Cell SW-2.

LOCATION: _____

AREA ACCEPTED: Surface Below GCL Panels G-113 to G-127

PANEL NUMBERS: _____ Grade Acceptance: Inspector: _____

_____ General Contractor: _____

OWNER: _____

AUTHORIZED REPRESENTATIVE: _____

The undersigned, Robert M. LUNG, certifies that he/she is a representative of COMANCO Environmental Corporation duly authorized to execute this certificate, he/she has visually inspected the subgrade surface described above on 12-11-01 and found the surface to be acceptable for installation of the membrane.

This certification is based on observations of the surface of the subgrade only. No subsurface inspections or tests have been performed and COMANCO Environmental Corporation makes no representations or warranties regarding conditions which may exist below the surface of the subgrade.

Date: 12-11-01 Signature: Robt M. Lung

Name: Robert M. LUNG

Title: QA-QC

CERTIFICATE ACCEPTED BY INSPECTOR:

Date: _____ Signature: John C McHugh III

Name: John C. McHugh III

Title: RPR

Company: Camp Dresser & McKee

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COMANCO

ENVIRONMENTAL CORPORATION

CERTIFICATE OF ACCEPTANCE OF SUBGRADE SURFACE BY INSTALLER

INSTALLER: COMANCO Environmental Corporation

PROJECT: West Pasco County Landfill SW-2

LOCATION: _____

AREA ACCEPTED: Surface Below G84 thru G112.

PANEL NUMBERS: _____ Grade Acceptance: Inspector: _____

_____ General Contractor: _____

OWNER: _____

AUTHORIZED REPRESENTATIVE: _____

The undersigned, Robert M. Lung, certifies that he/she is a representative of COMANCO Environmental Corporation duly authorized to execute this certificate, he/she has visually inspected the subgrade surface described above on 12-10-01 and found the surface to be acceptable for installation of the membrane.

This certification is based on observations of the surface of the subgrade only. No subsurface inspections or tests have been performed and COMANCO Environmental Corporation makes no representations or warranties regarding conditions which may exist below the surface of the subgrade.

Date: 12-10-01 Signature: Robert M. Lung

Name: Robert LUNG

Title: QA-QC

CERTIFICATE ACCEPTED BY INSPECTOR:

Date: 12-10-01 Signature: John C McHugh III

Name: John C. McHugh III

Title: RPR

Company: Camp Dresser & McKee

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COMANCO

ENVIRONMENTAL CORPORATION

CERTIFICATE OF ACCEPTANCE OF SUBGRADE SURFACE BY INSTALLER

INSTALLER: COMANCO Environmental Corporation

PROJECT: West Pasco County Landfill SW-2.

LOCATION: _____

AREA ACCEPTED: Surface Below Panels G66 thru G83.

PANEL NUMBERS: _____ Grade Acceptance: Inspector: _____

_____ General Contractor: _____

OWNER: _____

AUTHORIZED REPRESENTATIVE: _____

The undersigned, Robert LUNG, certifies that he/she is a representative of COMANCO Environmental Corporation duly authorized to execute this certificate, he/she has visually inspected the subgrade surface described above on 12-8-01 and found the surface to be acceptable for installation of the membrane.

This certification is based on observations of the surface of the subgrade only. No subsurface inspections or tests have been performed and COMANCO Environmental Corporation makes no representations or warranties regarding conditions which may exist below the surface of the subgrade.

Date: 12-8-01 Signature: Robert M. Lung

Name: Robert M. LUNG

Title: QA-QC

CERTIFICATE ACCEPTED BY INSPECTOR:

Date: 12-8-01 Signature: John C. McHugh II

Name: John C. McHugh II

Title: RPR

Company: Camp Dresser & McKee

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COMANCO

ENVIRONMENTAL CORPORATION

CERTIFICATE OF ACCEPTANCE OF SUBGRADE SURFACE BY INSTALLER

INSTALLER: COMANCO Environmental Corporation

PROJECT: West Pasco County Landfill Cell SW-2

LOCATION: _____

AREA ACCEPTED: Surface Below Panels G38 to G65

PANEL NUMBERS: _____ Grade Acceptance: _____ Inspector: _____

_____ General Contractor: _____

OWNER: _____

AUTHORIZED REPRESENTATIVE: _____

The undersigned, Robert LUNG, certifies that he/she is a representative of COMANCO Environmental Corporation duly authorized to execute this certificate, he/she has visually inspected the subgrade surface described above on 12-6-01 and found the surface to be acceptable for installation of the membrane.

This certification is based on observations of the surface of the subgrade only. No subsurface inspections or tests have been performed and COMANCO Environmental Corporation makes no representations or warranties regarding conditions which may exist below the surface of the subgrade.

Date: 12-6-01 Signature: Robt M. Lung

Name: Robert M. LUNG

Title: QA-QC

CERTIFICATE ACCEPTED BY INSPECTOR:

Date: _____ Signature: John C McHugh III

Name: John C. McHugh III

Title: RPR

Company: Camp Dresser & McKee

COMANCO

ENVIRONMENTAL CORPORATION

CERTIFICATE OF ACCEPTANCE OF SUBGRADE SURFACE BY INSTALLER

INSTALLER: COMANCO Environmental Corporation

PROJECT: West Pasco County Landfill Cell SW2.

LOCATION: _____

AREA ACCEPTED: Surface Below Panels 61 to 637

PANEL NUMBERS: 61 to 637 Grade Acceptance: Inspector: _____

General Contractor: _____

OWNER: _____

AUTHORIZED REPRESENTATIVE: _____

The undersigned, Robert LUNG, certifies that he/she is a representative of COMANCO Environmental Corporation duly authorized to execute this certificate, he/she has visually inspected the subgrade surface described above on 12-5-01 and found the surface to be acceptable for installation of the membrane.

This certification is based on observations of the surface of the subgrade only. No subsurface inspections or tests have been performed and COMANCO Environmental Corporation makes no representations or warranties regarding conditions which may exist below the surface of the subgrade.

Date: 12-5-01 Signature: Robert M. Lung

Name: Robert M LUNG.

Title: QA-QC

CERTIFICATE ACCEPTED BY INSPECTOR:

Date: 12-5-01 Signature: John C McHugh III

Name: John C. McHugh III

Title: RPR

Company: Camp Dresser & McKee

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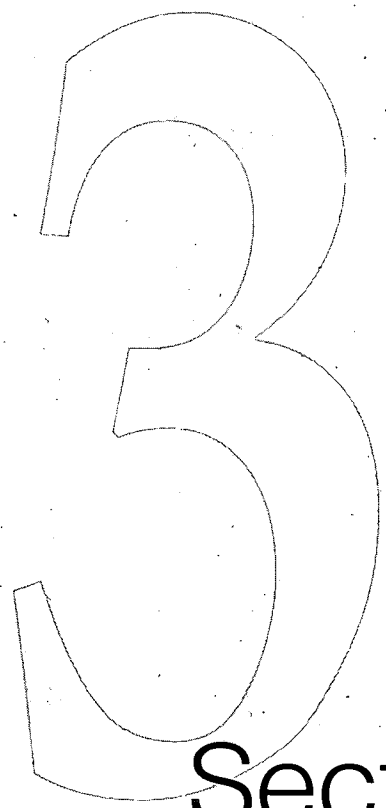


Section Three

COMANCO ENVIRONMENTAL CORPORATION
7911 Professional Place, Tampa, Florida 33527
Phone (813)988-8829 Fax (813)988-3720

SUBMITTAL CONTROL FORM

Project: **WEST PASCO COUNTY LANDFILL EXPANSION - CELLS A-3 AND SW-2**

Owner:	Pasco County B.O.C.C.	Project No.	01-063	Project Manager:	John Power
Engineer:	Camp Dresser & McKee	Project No.	6104-28936	Project Manager:	Daniel Strobridge, Q.E.P.
Contractor:	Handex of Florida, Inc.	Project No.	123477	Project Manager:	Gary L. Conaway, P.E.
Subcontractor:	COMANCO Environmental Corp.	Project No.	010-848	Project Manager:	Pablo J. Rivera

COMPLETED BY CONTRACTOR:

Certification Statement: By this submittal, I hereby represent that I have determined and verified all field measurements, field construction criteria, materials, dimensions, catalog numbers and similar data and I have checked and coordinated each item with other applicable approved shop drawings and all Contract requirements.

Signature: [signature] Date: 02-14-02

Submittal Identifier: **D-02275-022-B**
Submitted: February 14, 2002
No. of Copies: 8

- [ ] Original Submittal
- [ ] Supplement
- [x] Resubmittal
- [ ] Information Only

Submittal Description: Conformance Test Results: CETCO GCL Bentomat ST CRC
Specification Identifier: 01300, 02275 Section 2.03C
Manufacturer: CETCO Lining Technologies, Inc.
Installer: COMANCO Environmental Corporation

COMPLETED BY ENGINEER:

No. of Copies Received: _____ No. of Copies Returned: _____

Status:

- [ ] Code 1 - Approved
- [ ] Code 2 - Approved As Noted
- [ ] Code 3 - Approved As Noted, Confirm
- [ ] Code 4 - Approved As Noted, Resubmit
- [ ] Code 5 - Not Approved
- [ ] Code 6 - Comments Attached

Engineer Stamp or Remarks Area:

GCL INDEX FLUX / PERMEABILITY TEST [1]

ASTM D5887 *

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	00000054
Sample Number:	5930B
Material Type:	BENTOMAT ST GCL
Expected/Specified Value:	<5.0E-8 m3/m2/s
Date Received:	11/15/2001

Specimen	Specimen Initial Conditions [2]		Test Conditions					Flux	Hydraulic
Number	Spec. Thickness (cm)	Spec. Diameter (cm)	Cell Press. (psi)	Back Press. (psi)	Consolid. Press. (psi)	Influent Press. (psi)	Permeant Liquid [3] (-)	$(m^3/m^2)/s$	Conductivity (cm/s)
1	0.49	10.48	80.0	75.0	5.0	77.0	DDI	5.2E-9	1.7E-9

Notes:

1. Method C, "Falling-Head, Increasing-Tailwater" test procedures were followed during the testing.
2. Values presented are the initial dimensions of GCL.
3. Type of permeant liquid: DTW = Deaired Tap Water, DDI = Deaired Deionized Water

* Deviations:
Laboratory temperature at 22±3 °C.

JT 1-4-02

JW 1/4/02

West Pasco County Landfill Expansion
Cells SW-2 and A-3 Geosynthetics
CDM Project No. 6104-28936

Spec. Section No. 02275
CDM Submittal No. 22B

Resubmittal Information:

1. Engineer's review of the original submittal is attached.

2. Hydraulic conductivity retest information is now provided for sample #5930A site ID #00000054.

- End of Page -

TRANSMITTAL SHEET

FILE COPY

West Shore Center, Suite 875, 1715 N. West Shore Center Blvd.
Tampa, FL 33607

consulting, engineering, construction, operations

CDM

Date: 1/2/02

To: Comanco Environmental Corp.
7911 Professional Place

Tampa, FL 33637-

Attn: Pablo Rivera

Job: 06104-28936-
W. Pasco County Landfill Expansion
Cells A-3 and SW-2

7 print(s) each of the following Submittal: D-02275-022-A (Conformance Test Results for Bentomat ST CRC)

which are:

1.	APPROVED	☐
2.	APPROVED AS NOTED	☐
3.	APPROVED AS NOTED/CONFIRM	☑
4.	APPROVED AS NOTED/RESUBMIT	☐
5.	NOT APPROVED	☐
6.	COMMENTS ATTACHED	☑
7.	FOR YOUR INFORMATION	☐
8.	FOR YOUR REVIEW	☐

Comments:

CC: 1 - Jack McHugh/CDM
1 - Construction File

By
Abdul Mulla-Saleh

CS08.55

1/2/02

SHOP DRAWING REVIEW - ENGINEER'S COMMENTS

Pasco County
W. Pasco County Landfill Expansion
Cells A-3 and SW-2
CDM Project No. 6104-28936

Spec. Section No. 02275

CDM Submittal No. 22A

1. The hydraulic conductivity value of 3.2×10^{-7} cm/s for sample #5930A, Site ID# 00000054, did not meet the specifications requirement of 5×10^{-8} cm/s. Must be retested before final decision is made.

APPROVED AS NOTED/CONFIRM

COMANCO ENVIRONMENTAL CORPORATION
7911 Professional Place, Tampa, Florida 33527
Phone (813)988-8829 Fax (813)988-3720

SUBMITTAL CONTROL FORM

Project: **WEST PASCO COUNTY LANDFILL EXPANSION - CELLS A-3 AND SW-2**

Owner:	Pasco County B.O.C.C.	Project No.	01-063	Project Manager:	John Power
Engineer:	Camp Dresser & McKee	Project No.	6104-28936	Project Manager:	Daniel Strobridge, Q.E.P.
Contractor:	Handex of Florida, Inc.	Project No.	123477	Project Manager:	Gary L. Conaway, P.E.
Subcontractor:	COMANCO Environmental Corp.	Project No.	010-848	Project Manager:	Pablo J. Rivera

COMPLETED BY CONTRACTOR:

Certification Statement: By this submittal, I hereby represent that I have determined and verified all field measurements, field construction criteria, materials, dimensions, catalog numbers and similar data and I have checked and coordinated each item with other applicable approved shop drawings and all Contract requirements.

Signature: _____ Date: 12-19-01

Submittal Identifier:	D-02275-022-A	[X]	Original Submittal	[ ] Supplement
Submitted:	December 19, 2001			
No. of Copies:	8	[ ]	Resubmittal	[ ] Information Only

Submittal Description: Conformance Test Results: CETCO GCL Bentomat ST CRC
Specification Identifier: 01300, 02275 Section 2.03C
Manufacturer: CETCO Lining Technologies, Inc.
Installer: COMANCO Environmental Corporation

COMPLETED BY ENGINEER:

No. of Copies Received: _____ No. of Copies Returned: _____

Status:

[ ]	Code 1 - Approved	[ ]	Code 4 - Approved As Noted, Resubmit
[ ]	Code 2 - Approved As Noted	[ ]	Code 5 - Not Approved
[ ]	Code 3 - Approved As Noted, Confirm	[ ]	Code 6 - Comments Attached

Engineer Stamp or Remarks Area:

SHOP DRAWING REVIEW

ENGINEER'S REVIEW	RESPONSE REQUIRED OF CONTRACTOR
Approved ☐ Not Approved ☐ Approved as Noted ☒ Comments Attached ☒	Confirm ☒ Resubmit ☐

The Engineer's review of this shop drawing is limited to the review of dimensions, equipment and materials as presented in the Contract plans, specifications and for design concept. This review does not relieve the Contractor from errors or omissions in the submittal or from the Contractor's responsibility of addressing any deviations from the Contract Documents. The Contractor is responsible for the details and dimensions of fabrication and manufacture, the means, methods, techniques, sequences or procedures of construction and performing his work in a safe manner.
CAMP DRESSER & McKEE INC.

By _____ Date 12/20/01

West Pasco County Landfill Expansion Cells SW-2 and A-3
Installation of Geosynthetics
Materials Conformance Test Results Register

CETCO GCL: Bentomat ST CRC

Bentomat ST CRC	No. of Rolls	Type of Test	Swell Index	Fluid Loss	Sieve Analysis	GCL Index Flux/ Permeability	GCL Grab Peel Strength	GCL Mass Per Unit Area	Geotextile Grab Break/ Elongation	Peel Strength/ Ply Adhesion	MPUA Non-Woven	MPUA Woven
0009	1	Full	X	X	X	X	X	X	X	X	X	X
0054	1	Full	X	X	X	X	X	X	X	X	X	X
0099	1	Full	X	X	X	X	X	X	X	X	X	X
0144	2	Full	X	X	X	X	X	X	X	X	X	X
0189	3	Full	X	X	X	X	X	X	X	X	X	X
0215	1	Full	X	X	X	X	X	X	X	X	X	X

SWELL INDEX

ASTM D5890 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00000009
Sample Number:	5929
Material Type:	BENTOMAT ST GCL
Expected/Specified Value:	24 ml /2g
Date Received:	11/15/2001

Specimen Number	Swell Index (ml/2g)
1	23.0

Notes:

(1) Deviations:
Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

Tested By: SD
Reviewed By: JW

Test Date: 11,21,01
Review Date: 11/26/01

SWELL INDEX

ASTM D5890 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00000054
Sample Number:	5930
Material Type:	BENTOMAT ST GCL
Expected/Specified Value:	24 ml /2g
Date Received:	11/15/2001

Specimen Number	Swell Index (ml/2g)
1	20.5

Notes:

(1) Deviations:
Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

Tested By: SD
Reviewed By: Jes

Test Date: 11/21
Review Date: 11/26/01

SWELL INDEX

ASTM D5890 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00000099
Sample Number:	5931
Material Type:	BENTOMAT ST GCL
Expected/Specified Value:	24 ml /2g
Date Received:	11/15/2001

Specimen Number	Swell Index (ml/2g)
1	19.0

Notes:

(1) Deviations:
Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

Tested By: SD

Reviewed By: JE

Test Date: 11/21/01

Review Date: 11/26/01

SWELL INDEX

ASTM D5890 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00000144
Sample Number:	5932
Material Type:	BENTOMAT ST GCL
Expected/Specified Value:	24 ml /2g
Date Received:	11/15/2001

Specimen Number	Swell Index (ml/2g)
1	19.0

Notes:

(1) Deviations:
Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

Tested By: JD
Reviewed By: JW

Test Date: 11,21,01
Review Date: 11/26/01

SWELL INDEX

ASTM D5890 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00000189
Sample Number:	5933
Material Type:	BENTOMAT ST GCL
Expected/Specified Value:	24 ml /2g
Date Received:	11/15/2001

Specimen Number	Swell Index (ml/2g)
1	21.0 V

Notes:

(1) Deviations:
Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

Tested By: SO
Reviewed By: TW

Test Date: 11,21,01
Review Date: 11/26/01

SWELL INDEX

ASTM D5890 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00000215
Sample Number:	5934
Material Type:	BENTOMAT ST GCL
Expected/Specified Value:	24 ml /2g
Date Received:	11/15/2001

Specimen Number	Swell Index (ml/2g)
1	21.0

Notes:

(1) Deviations:
Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

Tested By: JD
Reviewed By: JW

Test Date: 11,21,01
Review Date: 11/26/01

FLUID LOSS

ASTM D5891 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00000009
Sample Number:	5929
Material Type:	BENTOMAT ST GCL
Expected/Specified Value:	18 ml (max.)
Date Received:	11/15/2001

Specimen Number	Fluid Loss (ml)
1	11.0 ✓

Notes:

(1) Deviations:
Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

Tested By: SD
Reviewed By: JW

Test Date: 11/26/01
Review Date: 11/26/01

FLUID LOSS

ASTM D5891 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00000054
Sample Number:	5930
Material Type:	BENTOMAT ST GCL
Expected/Specified Value:	18 ml (max.)
Date Received:	11/15/2001

Specimen Number	Fluid Loss (ml)
1	10.0 J

Notes:

(1) Deviations:
Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

Tested By: JD
Reviewed By: Joel

Test Date: 11,26,01
Review Date: 11/26/01

FLUID LOSS

ASTM D5891 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00000099
Sample Number:	5931
Material Type:	BENTOMAT ST GCL
Expected/Specified Value:	18 ml (max.)
Date Received:	11/15/2001

Specimen Number	Fluid Loss (ml)
1	9.0

Notes:

(1) Deviations:
Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

Tested By: JD
Reviewed By: JW

Test Date: 11,23,01
Review Date: 11/26/01

FLUID LOSS

ASTM D5891 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00000144
Sample Number:	5932
Material Type:	BENTOMAT ST GCL
Expected/Specified Value:	18 ml (max.)
Date Received:	11/15/2001

Specimen Number	Fluid Loss (ml)
1	9.0 J

Notes:

(1) Deviations:
Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

Tested By: SO
Reviewed By: JW

Test Date: 11/23/01
Review Date: 11/26/01

FLUID LOSS

ASTM D5891 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00000189
Sample Number:	5933
Material Type:	BENTOMAT ST GCL
Expected/Specified Value:	18 ml (max.)
Date Received:	11/15/2001

Specimen Number	Fluid Loss (ml)
1	10.0

Notes:

(1) Deviations:
Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

Tested By: SD
Reviewed By: SD

Test Date: 11,23,01
Review Date: 11/26/01

FLUID LOSS

ASTM D5891 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00000215
Sample Number:	5934
Material Type:	BENTOMAT ST GCL
Expected/Specified Value:	18 ml (max.)
Date Received:	11/15/2001

Specimen Number	Fluid Loss (ml)
1	9.0

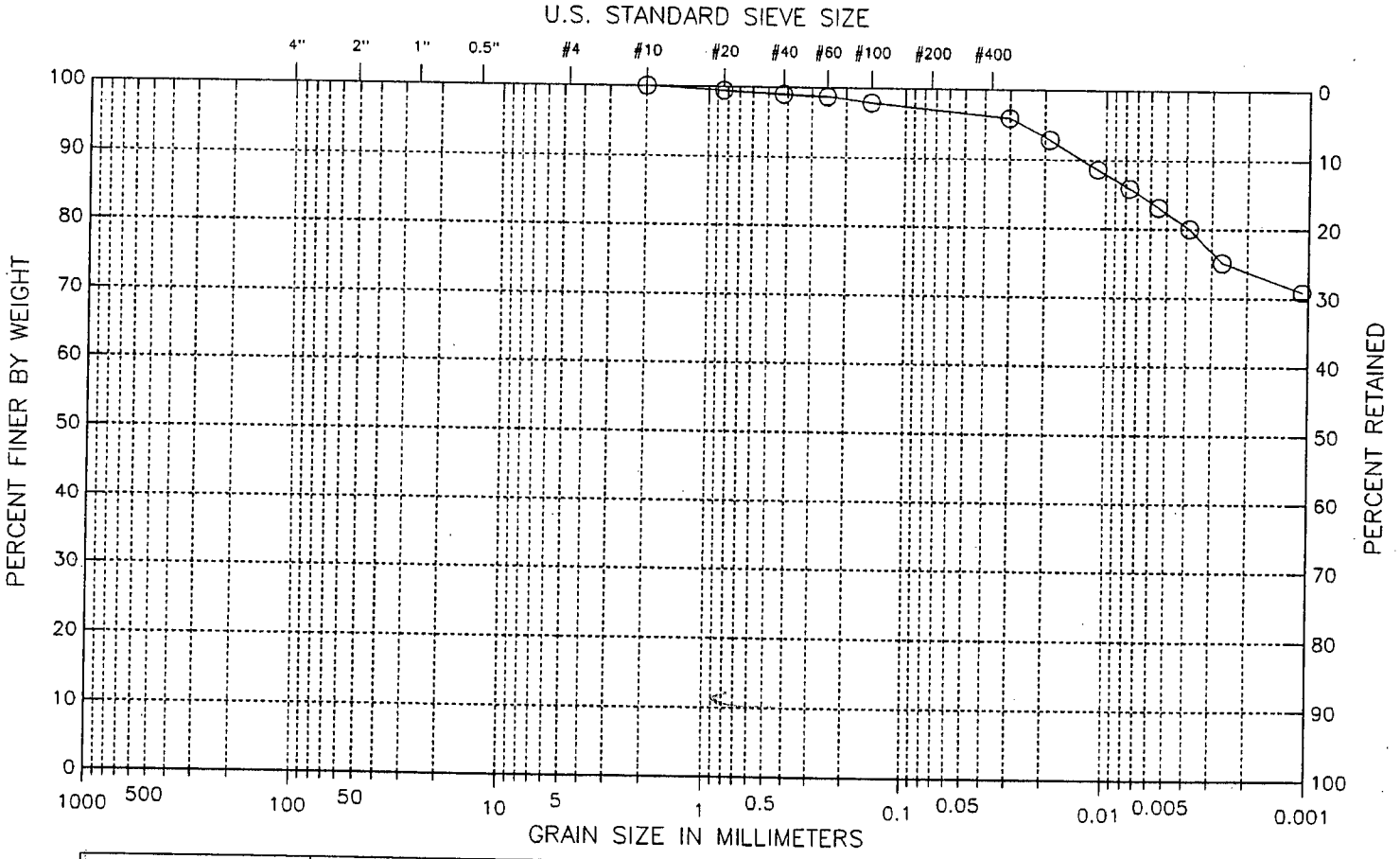
Notes:

(1) Deviations:
Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

Tested By: JD
Reviewed By: JW

Test Date: 11,23,01
Review Date: 4/26/02

	Boring No. : ROLL#:00000009 Sample No.: 5929 Test Method ASTM D 422 Filename : 5929	Project : WEST PASCO LANDFILL Project No.: GTX-G0281 Location: Date : Tue Nov 27 2001



Classification :

Visual Description :
BENTOMAT ST GCL

Remarks :
S.G. assumed at 2.75.

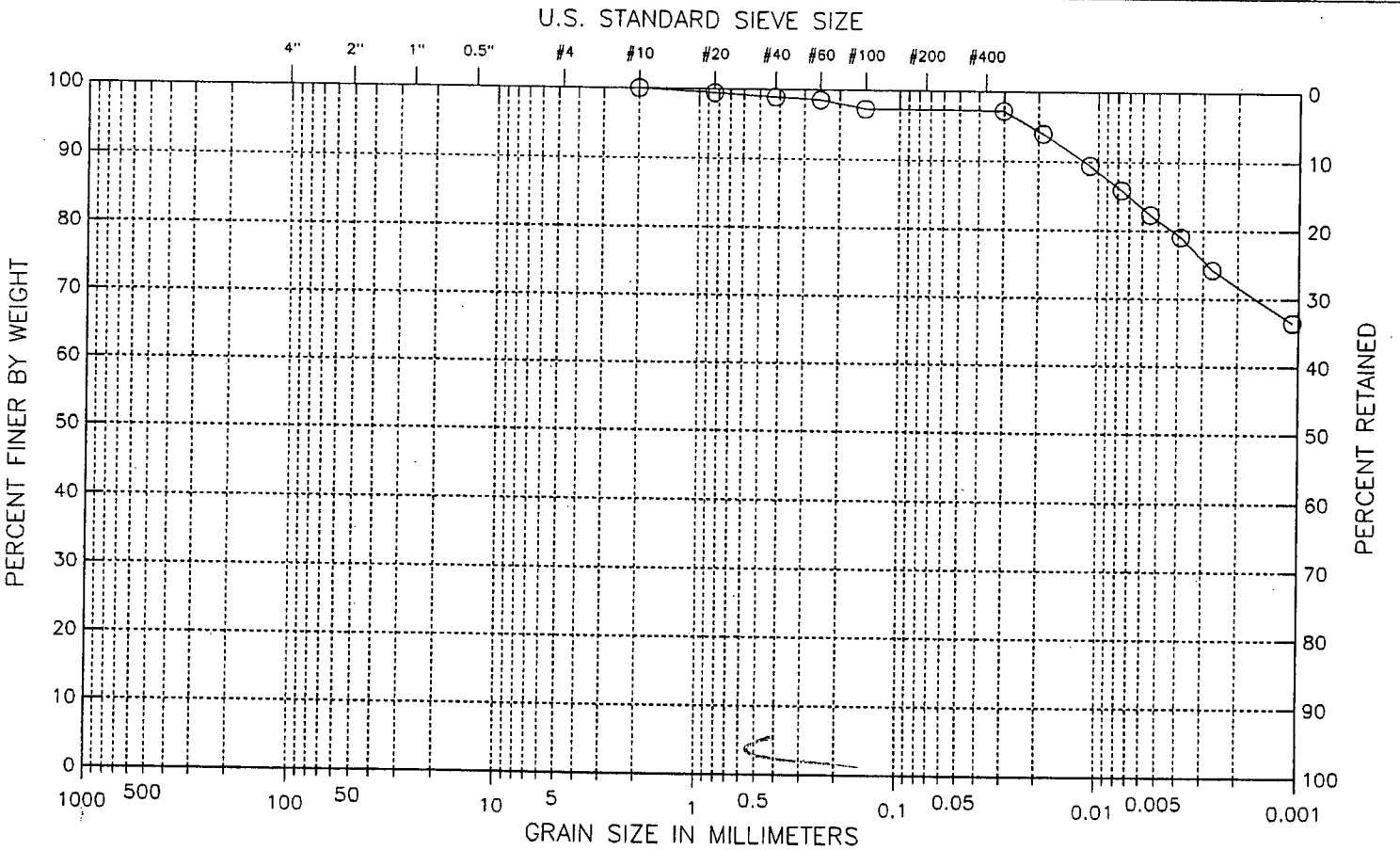
SD 11/27/01

JW 11/27/01

Figure 1

GeoTesting Express, Inc. • Alpharetta, GA • (770) 645-6575 • www.geotest.com

	Boring No. : ROLL#:00000054 Sample No: 5930 Test Method ASTM D 422 Filename : 5930	Project : WEST PASCO LANDFILL Project No.: GTX-G0281 Location: Date : Tue Nov 27 2001



Classification :

Visual Description :
BENTOMAT ST GCL

JO 11/27/01

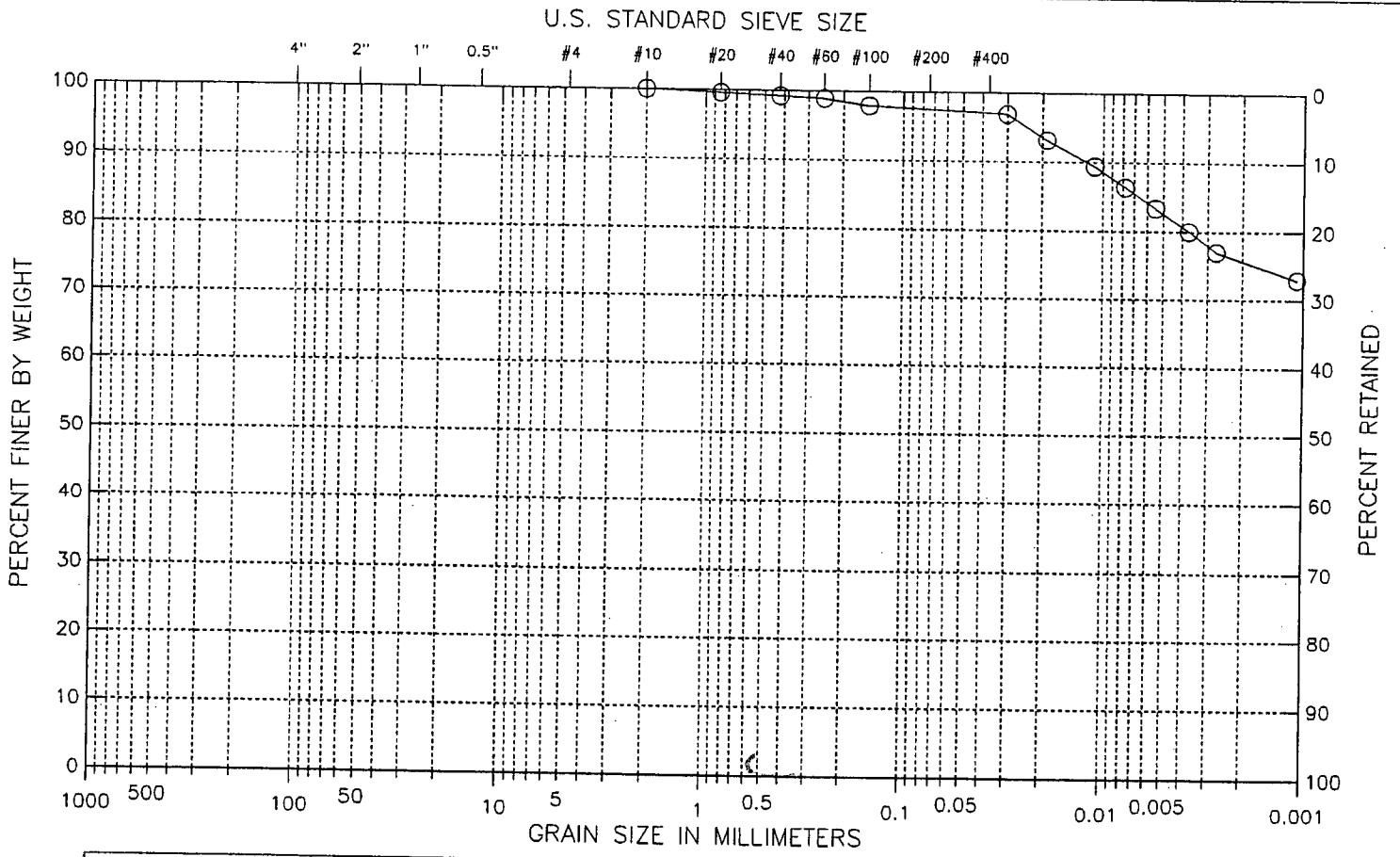
Remarks :
S.G. assumed at 2.75

JW 11/27/01

Figure 1

GeoTesting Express, Inc. • Alpharetta, GA • (770) 645-6575 • www.geotest.com

	Boring No. : ROLL#:00000099 Sample No: 5931 Test Method ASTM D 422 Filename : 5931	Project : WEST PASCO LANDFILL Project No.: GTX-G0281 Location: Date : Tue Nov 27 2001



Classification :

Visual Description :
BENTOMAT ST GCL

Remarks :
S.G. assumed at 2.75

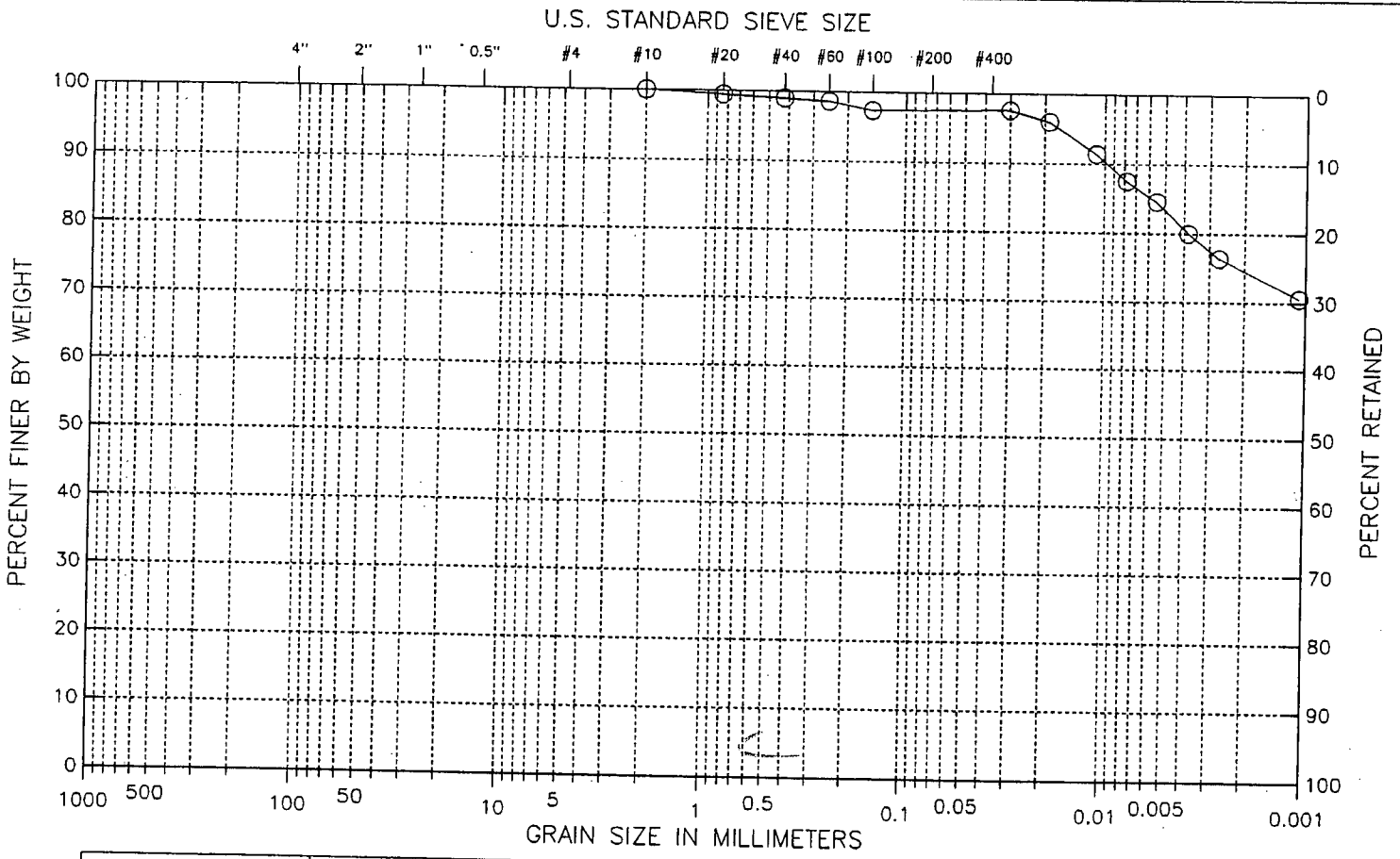
SO 11,22,01

JW 11/27/01

Figure 1

GeoTesting Express, Inc. • Alpharetta, GA • (770) 645-6575 • www.geotest.com

	Boring No. : ROLL#:00000144 Sample No.: 5932 Test Method ASTM D 422 Filename : 5932	Project : WEST PASCO LANDFILL Project No.: GTX-G0281 Location: Date : Tue Nov 27 2001



Classification :

Visual Description :
BENTOMAT ST GCL

SO 11/27/01

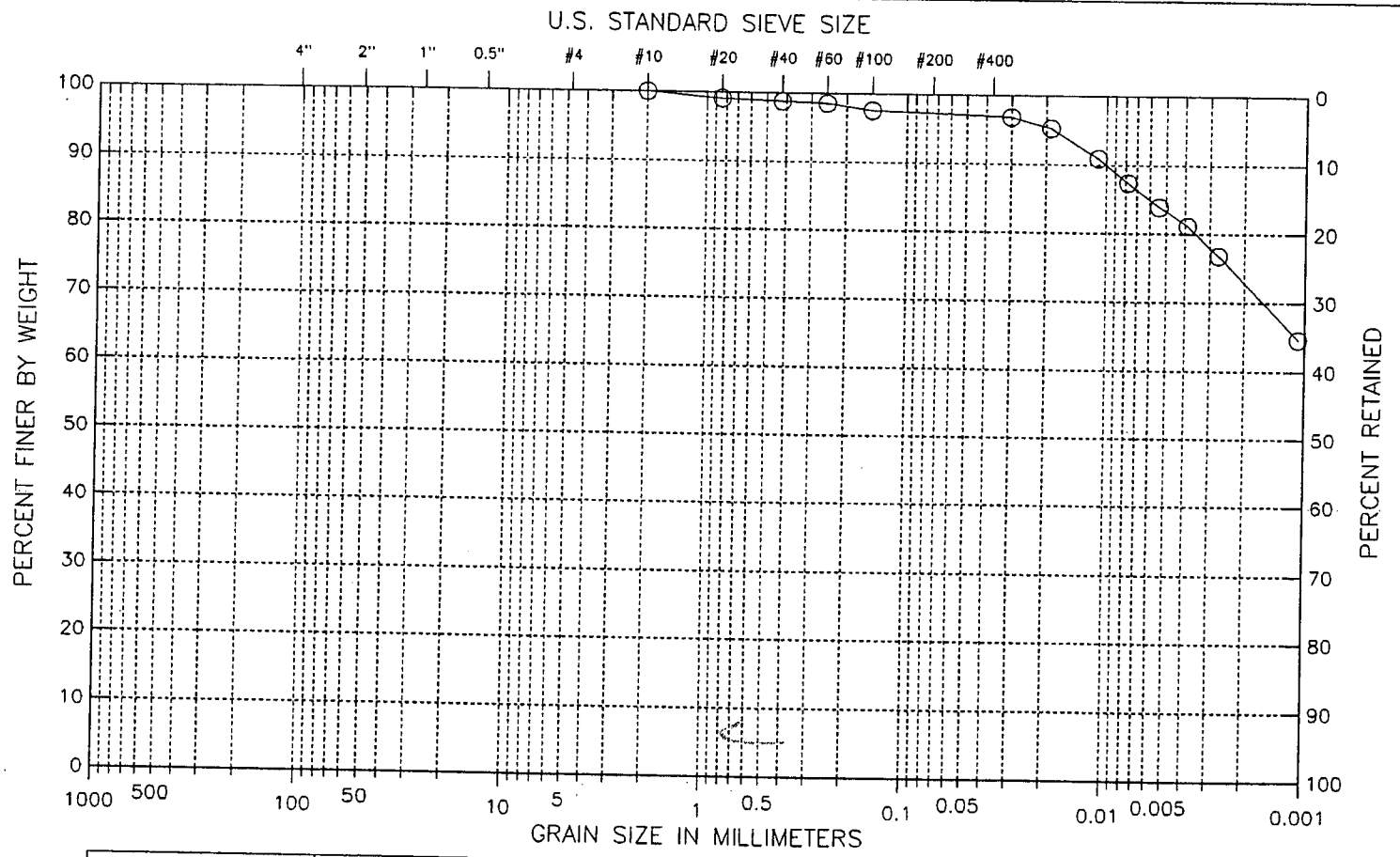
Remarks :
S.G. assumed at 2.75.

JW 11/27/01

Figure 1

GeoTesting Express, Inc. • Alpharetta, GA • (770) 645-6575 • www.geotest.com

	Boring No. : ROLL#:00000189 Sample No.: 5933 Test Method ASTM D 422 Filename : 5933	Project : WEST PASCO LANDFILL Project No.: GTX-G0281 Location: Date : Tue Nov 27 2001



Classification :

Visual Description :
BENTOMAT ST GCL

SD 11/27/01

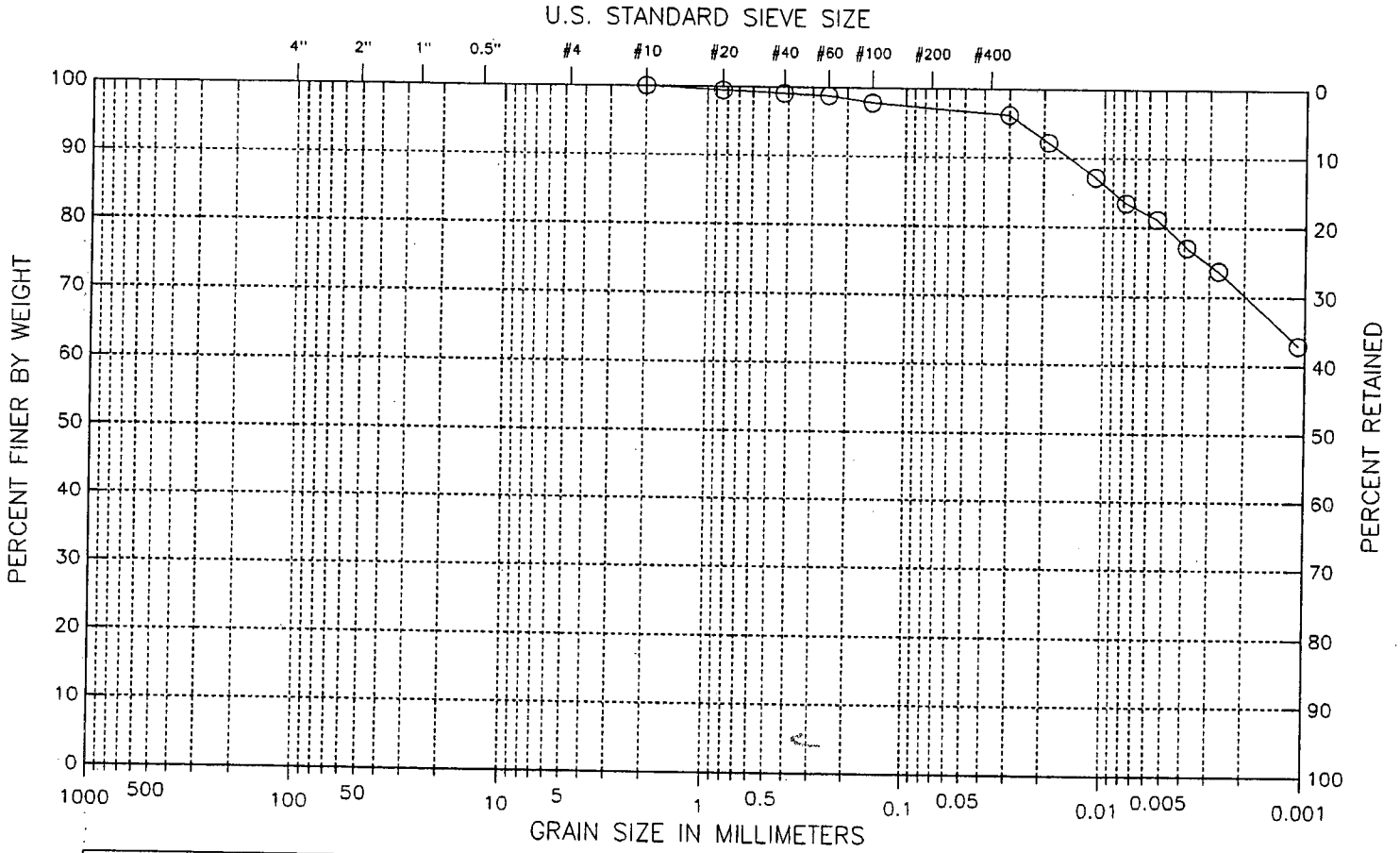
Remarks :
S.G. assumed at 2.75

JW 11/27/01

Figure 1

GeoTesting Express, Inc. • Alpharetta, GA • (770) 645-6575 • www.geotest.com

	Boring No. : ROLL#:00000215 Sample No.: 5934 Test Method ASTM D 422 Filename : 5934	Project : WEST PASCO LANDFILL Project No.: GTX-G0281 Location: Date : Tue Nov 27 2001



Classification :

Visual Description :
BENTOMAT ST GCL

SD 11/27/01

Remarks :
S.G. assumed at 2.75.

JW 11/27/01

Figure 1

GeoTesting Express, Inc. • Alpharetta, GA • (770) 645-6575 • www.geotest.com

GCL INDEX FLUX / PERMEABILITY TEST [1]

ASTM D5887 *

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	00000009
Sample Number:	5929A
Material Type:	BENTOMAT ST GCL
Expected/Specified Value:	<1.0E-8 $m^3/m^2/s$ 5X10-8
Date Received:	11/15/2001

Specimen Number	Specimen Final Conditions [2]		Test Conditions					Flux	Hydraulic Conductivity
	Spec. Thickness (cm)	Spec. Diameter (cm)	Cell Press. (psi)	Back Press. (psi)	Consolid. Press. (psi)	Influent Press. (psi)	Permeant Liquid [3] (-)	$(m^3/m^2)/s$	(cm/s)
1	0.60	10.30	80.0	75.0	5.0	77.0	DDI	5.2E-9	2.1E-9

Notes:

1. Method C, "Falling-Head, Increasing-Tailwater" test procedures were followed during the testing.
2. Values presented are the final dimensions of the clay component of GCL.
3. Type of permeant liquid: DTW = Deaired Tap Water, DDI = Deaired Deionized Water

* Deviations:
Laboratory temperature at 22±3 °C.

BT 11-30-01

JW 11/30/01

GCL INDEX FLUX / PERMEABILITY TEST [1]

ASTM D5887 *

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	00000054
Sample Number:	5930A
Material Type:	BENTOMAT ST GCL
Expected/Specified Value:	<1.0E-8 $m^3/m^2/s$
Date Received:	11/15/2001

Specimen Number	Specimen Final Conditions [2]		Test Conditions					Flux	Hydraulic Conductivity
	Spec. Thickness (cm)	Spec. Diameter (cm)	Cell Press. (psi)	Back Press. (psi)	Consolid. Press. (psi)	Influent Press. (psi)	Permeant Liquid [3] (-)	$(m^3/m^2)/s$	(cm/s)
1	0.60	10.32	80.0	75.0	5.0	77.0	DDI	7.6E-7	3.2E-7

Notes:

1. Method C, "Falling-Head, Increasing-Tailwater" test procedures were followed during the testing.
2. Values presented are the final dimensions of the clay component of GCL.
3. Type of permeant liquid: DTW = Deaired Tap Water, DDI = Deaired Deionized Water

* Deviations:
Laboratory temperature at 22±3 °C.

RT 11-30-01

JW 11/30/01

GCL INDEX FLUX / PERMEABILITY TEST [1]

ASTM D5887 *

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	00000099
Sample Number:	5931
Material Type:	BENTOMAT ST GCL
Expected/Specified Value:	≤1.0E-8 $m^3/m^2/s$ 5X10^-8
Date Received:	11/15/2001

Specimen Number	Specimen Final Conditions [2]		Test Conditions					Flux	Hydraulic Conductivity
	Spec. Thickness (cm)	Spec. Diameter (cm)	Cell Press. (psi)	Back Press. (psi)	Consolid. Press. (psi)	Influent Press. (psi)	Permeant Liquid [3] (-)	$(m^3/m^2)/s$	(cm/s)
1	0.55	10.47	80.0	75.0	5.0	77.0	DDI	4.9E-8	1.8E-8 L

Notes:

1. Method C, "Falling-Head, Increasing-Tailwater" test procedures were followed during the testing.
2. Values presented are the final dimensions of the clay component of GCL.
3. Type of permeant liquid: DTW = Deaired Tap Water, DDI = Deaired Deionized Water

* Deviations:
Laboratory temperature at 22±3 °C.

PT 11-26-01 JW 11/26/01

GCL INDEX FLUX / PERMEABILITY TEST [1]

ASTM D5887 *

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	00000144
Sample Number:	5932
Material Type:	BENTOMAT ST GCL
Expected/Specified Value:	<1.0E-8 $m^3/m^2/s$
Date Received:	11/15/2001

Specimen	Specimen Final Conditions [2]		Test Conditions					Flux	Hydraulic
Number	Spec. Thickness (cm)	Spec. Diameter (cm)	Cell Press. (psi)	Back Press. (psi)	Consolid. Press. (psi)	Influent Press. (psi)	Permeant Liquid [3] (-)	$(m^3/m^2)/s$	Conductivity (cm/s)
1	0.48	10.34	80.0	75.0	5.0	77.0	DDI	3.4E-9	1.1E-9

Notes:

1. Method C, "Falling-Head, Increasing-Tailwater" test procedures were followed during the testing.
2. Values presented are the final dimensions of the clay component of GCL.
3. Type of permeant liquid: DTW = Deaired Tap Water, DDI = Deaired Deionized Water

* Deviations:
Laboratory temperature at 22±3 °C.

JT 11-26-01

JWS 11/26/01

GCL INDEX FLUX / PERMEABILITY TEST [1]

ASTM D5887 *

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	00000189
Sample Number:	5933
Material Type:	BENTOMAT ST GCL
Expected/Specified Value:	<1.0E-8 $m^3/m^2/s$
Date Received:	11/15/2001

Specimen	Specimen Final Conditions [2]		Test Conditions					Flux	Hydraulic
Number	Spec. Thickness (cm)	Spec. Diameter (cm)	Cell Press. (psi)	Back Press. (psi)	Consolid. Press. (psi)	Influent Press. (psi)	Permeant Liquid [3] (-)	(m^3/m^2)/s	Conductivity (cm/s)
1	0.53	10.42	80.0	75.0	5.0	77.0	DDI	4.9E-9	1.8E-9

Notes:

1. Method C, "Falling-Head, Increasing-Tailwater" test procedures were followed during the testing.
2. Values presented are the final dimensions of the clay component of GCL.
3. Type of permeant liquid: DTW = Deaired Tap Water, DDI = Deaired Deionized Water

* Deviations:
Laboratory temperature at 22±3 °C.

BT 11-26-01

JW 11/26/01

GCL INDEX FLUX / PERMEABILITY TEST [1]

ASTM D5887 *

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	00000215
Sample Number:	5934
Material Type:	BENTOMAT ST GCL
Expected/Specified Value:	<1.0E-8 $m^3/m^2/s$
Date Received:	11/15/2001

Specimen	Specimen Final Conditions [2]		Test Conditions					Flux	Hydraulic
Number	Spec. Thickness (cm)	Spec. Diameter (cm)	Cell Press. (psi)	Back Press. (psi)	Consolid. Press. (psi)	Influent Press. (psi)	Permeant Liquid [3] (-)	$(m^3/m^2)/s$	Conductivity (cm/s)
1	0.59	10.43	80.0	75.0	5.0	77.0	DDI	8.2E-8	3.3E-8

Notes:

1. Method C, "Falling-Head, Increasing-Tailwater" test procedures were followed during the testing.
2. Values presented are the final dimensions of the clay component of GCL.
3. Type of permeant liquid: DTW = Deaired Tap Water, DDI = Deaired Deionized Water

* Deviations:
Laboratory temperature at 22±3 °C.

DT 11-26-01 JW 11/26/01

GCL GRAB PEEL STRENGTH

ASTM D4632 Modified [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00000009
Sample Number:	5929
Material Type:	BENTOMAT ST GCL
Expected/Specified Value:	15 lbs
Date Received:	11/15/01

Specimen Number	Grab Peel Strength			
	Roll Direction		Cross-Roll Direction	
	(lb)	(N)	(lb)	(N)
1	35.8	159.1	27.8	123.7
2	20.7	92.2	32.1	142.8
3	22.8	101.4	27.4	121.9
4	23.1	102.8	28.9	128.6
5	23.6	105.1	38.4	170.9
Avg.	25.2	112.1	30.9	137.6
S.D.	6.0	26.7	4.6	20.4

Notes:

Initial Grip Separation: 2 in.

Test Speed : 12 in./min.

Tests are continued for a minimum of 3 in. peel; and maximum recorded grab peel strength values are reported.

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

JW 11/26/01

11.20.01

GCL GRAB PEEL STRENGTH

ASTM D4632 Modified [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00000054
Sample Number:	5930
Material Type:	BENTOMAT ST GCL
Expected/Specified Value:	15 lbs
Date Received:	11/15/01

Specimen Number	Grab Peel Strength			
	Roll Direction		Cross-Roll Direction	
	(lb)	(N)	(lb)	(N)
1	42.8	190.5	43.8	194.8
2	40.3	179.4	51.2	227.7
3	32.5	144.4	56.7	252.1
4	42.6	189.5	49.2	218.9
5	49.9	222.1	47.0	208.8
Avg.	41.6	185.2	49.6	220.5
S.D.	6.3	27.8	4.8	21.5

Notes:

Initial Grip Separation: 2 in.

Test Speed : 12 in./min.

Tests are continued for a minimum of 3 in. peel; and maximum recorded grab peel strength values are reported.

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

11.20.01

JW 11/26/01

GCL GRAB PEEL STRENGTH

ASTM D4632 Modified [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00000099
Sample Number:	5931
Material Type:	BENTOMAT ST GCL
Expected/Specified Value:	15 lbs
Date Received:	11/15/01

Specimen Number	Grab Peel Strength			
	Roll Direction		Cross-Roll Direction	
	(lb)	(N)	(lb)	(N)
1	43.8	194.8	43.3	192.7
2	39.5	175.7	35.0	155.5
3	53.4	237.5	38.7	172.0
4	42.4	188.4	37.8	168.1
5	34.4	152.9	35.4	157.5
Avg.	42.7	189.9	38.0	169.1
S.D.	7.0	31.1	3.3	14.9

Notes:

Initial Grip Separation: 2 in.

Test Speed : 12 in./min.

Tests are continued for a minimum of 3 in. peel; and maximum recorded grab peel strength values are reported.

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

11-20-01

JW 11/26/01

GCL GRAB PEEL STRENGTH

ASTM D4632 Modified [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00000144
Sample Number:	5932
Material Type:	BENTOMAT ST GCL
Expected/Specified Value:	15 lbs
Date Received:	11/15/01

Specimen Number	Grab Peel Strength			
	Roll Direction		Cross-Roll Direction	
	(lb)	(N)	(lb)	(N)
1	40.2	178.9	39.6	175.9
2	37.9	168.6	38.1	169.3
3	36.5	162.4	42.6	189.6
4	35.1	156.2	44.3	197.0
5	43.2	192.3	40.0	178.0
Avg.	38.6	171.7	40.9	182.0
S.D.	3.2	14.2	2.5	11.1

Notes:

Initial Grip Separation: 2 in.

Test Speed : 12 in./min.

Tests are continued for a minimum of 3 in. peel; and maximum recorded grab peel strength values are reported.

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

11.20.01

JW 11/26/01

GCL GRAB PEEL STRENGTH

ASTM D4632 Modified [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00000189
Sample Number:	5933
Material Type:	BENTOMAT ST GCL
Expected/Specified Value:	15 lbs
Date Received:	11/15/01

Specimen Number	Grab Peel Strength			
	Roll Direction		Cross-Roll Direction	
	(lb)	(N)	(lb)	(N)
1	16.2	72.2	34.1	151.5
2	20.9	92.8	31.1	138.3
3	17.8	79.2	29.8	132.4
4	16.9	75.3	28.6	127.2
5	22.5	99.9	18.1	80.4
Avg.	18.9	83.9	28.3	126.0
S.D.	2.7	11.9	6.1	27.1

Notes:

Initial Grip Separation: 2 in.

Test Speed : 12 in./min.

Tests are continued for a minimum of 3 in. peel; and maximum recorded grab peel strength values are reported.

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

11-20-01

JW 11/26/01

GCL GRAB PEEL STRENGTH

ASTM D4632 Modified [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00000215
Sample Number:	5934
Material Type:	BENTOMAT ST GCL
Expected/Specified Value:	15 lbs
Date Received:	11/15/01

Specimen Number	Grab Peel Strength			
	Roll Direction		Cross-Roll Direction	
	(lb)	(N)	(lb)	(N)
1	28.4	126.2	32.4	144.0
2	32.6	144.8	35.6	158.1
3	32.2	143.1	33.3	148.0
4	26.2	116.4	44.7	198.7
5	26.8	119.0	39.6	176.0
Avg.	29.2	129.9	37.1	165.0
S.D.	3.0	13.3	5.1	22.6

Notes:

Initial Grip Separation: 2 in.

Test Speed : 12 in./min.

Tests are continued for a minimum of 3 in. peel; and maximum recorded grab peel strength values are reported.

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

11.20.01

JW 11/26/01

GCL MASS PER UNIT AREA

ASTM D5993 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00000009
Sample Number:	5929
Material Type:	BENTOMAT ST GCL
Expected/Specified Value:	0.75 lb/sf
Date Received:	11/15/01

Spec. #	Mass Per Unit Area								Moisture Content of Clay Component
	As Received GCL		Dried GCL		Assumed Synthetic Components		Dried Clay Component		
	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(%)
1	6580	1.35	5217	1.07	156	0.03	5061	1.04	26.9
2	7278	1.49	5866	1.20			5710	1.17	24.7
3	6274	1.29	5044	1.03			4889	1.00	25.2
4	6566	1.34	5272	1.08			5116	1.05	25.3
5	6525	1.34	5202	1.07			5046	1.03	26.2
Avg.	6645	1.36	5320	1.09			5165	1.06	25.7
S.D.	375	0.08	317	0.06			317	0.06	0.9

Notes:

Test specimens are obtained utilizing a die of 3"x 6".

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

JW 11/26/01

11-20-01

GCL MASS PER UNIT AREA

ASTM D5993 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00000054
Sample Number:	5930
Material Type:	BENTOMAT ST GCL
Expected/Specified Value:	0.75 lb/sf
Date Received:	11/15/01

Spec. #	Mass Per Unit Area								Moisture Content of Clay Component
	As Received GCL		Dried GCL		Assumed Synthetic Components		Dried Clay Component		
	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(%)
1	5312	1.09	4160	0.85	156	0.03	4004	0.82	28.8
2	5158	1.06	4018	0.82			3862	0.79	29.5
3	5255	1.08	4169	0.85			4014	0.82	27.1
4	5440	1.11	4307	0.88			4152	0.85	27.3
5	5326	1.09	4168	0.85			4012	0.82	28.9
Avg.	5298	1.09	4164	0.85			4009	0.82	28.3
S.D.	103	0.02	102	0.02			102	0.02	1.1

Notes:

Test specimens are obtained utilizing a die of 3"x 6".

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

JLW 11/20/01

JLW 11/26/01

GCL MASS PER UNIT AREA

ASTM D5993 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00000099
Sample Number:	5931
Material Type:	BENTOMAT ST GCL
Expected/Specified Value:	0.75 lb/sf
Date Received:	11/15/01

Spec. #	Mass Per Unit Area								Moisture Content of Clay Component
	As Received GCL		Dried GCL		Assumed Synthetic Components		Dried Clay Component		
	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(%)
1	5899	1.21	4585	0.94	156	0.03	4429	0.91	29.7
2	6086	1.25	4717	0.97			4562	0.93	30.0
3	5525	1.13	4343	0.89			4188	0.86	28.2
4	5607	1.15	4399	0.90			4243	0.87	28.5
5	6201	1.27	4930	1.01			4774	0.98	26.6
Avg.	5864	1.20	4595	0.94			4439	0.91	28.6
S.D.	294	0.06	239	0.05			239	0.05	1.3

Notes:

Test specimens are obtained utilizing a die of 3"x 6".

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

11.20.01

JW 11/26/01

GCL MASS PER UNIT AREA

ASTM D5993 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00000144
Sample Number:	5932
Material Type:	BENTOMAT ST GCL
Expected/Specified Value:	0.75 lb/sf
Date Received:	11/15/01

Spec. #	Mass Per Unit Area								Moisture Content of Clay Component
	As Received GCL		Dried GCL		Assumed Synthetic Components		Dried Clay Component		
	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(%)
1	5999	1.23	4802	0.98	156	0.03	4646	0.95	25.8
2	6392	1.31	5096	1.04			4941	1.01	26.2
3	6384	1.31	5119	1.05			4964	1.02	25.5
4	4675	0.96	3663	0.75			3508	0.72	28.8
5	4980	1.02	3948	0.81			3793	0.78	27.2
Avg.	5686	1.16	4526	0.93			4370	0.90	26.7
S.D.	807	0.17	677	0.14			677	0.14	1.4

Notes:

Test specimens are obtained utilizing a die of 3"x 6".

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

11.20.01

Jul 11/26/01

GCL MASS PER UNIT AREA

ASTM D5993 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00000189
Sample Number:	5933
Material Type:	BENTOMAT ST GCL
Expected/Specified Value:	0.75 lb/sf
Date Received:	11/15/01

Spec. #	Mass Per Unit Area								Moisture Content of Clay Component
	As Received GCL		Dried GCL		Assumed Synthetic Components		Dried Clay Component		
	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(%)
1	5583	1.14	4361	0.89	156	0.03	4206	0.86	29.0
2	5480	1.12	4253	0.87			4097	0.84	29.9
3	5204	1.07	4104	0.84			3949	0.81	27.8
4	5973	1.22	4606	0.94			4451	0.91	30.7
5	5894	1.21	4632	0.95			4476	0.92	28.2
Avg.	5627	1.15	4391	0.90			4236	0.87	29.2
S.D.	314	0.06	227	0.05			227	0.05	1.2

Notes:

Test specimens are obtained utilizing a die of 3"x 6".

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

11.20.01

JCW 11/26/01

GCL MASS PER UNIT AREA

ASTM D5993 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00000215
Sample Number:	5934
Material Type:	BENTOMAT ST GCL
Expected/Specified Value:	0.75 lb/sf
Date Received:	11/15/01

Spec. #	Mass Per Unit Area								Moisture Content of Clay Component
	As Received GCL		Dried GCL		Assumed Synthetic Components		Dried Clay Component		
	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(%)
1	5260	1.08	4207	0.86	156	0.03	4052	0.83	26.0
2	8011	1.64	6343	1.30			6187	1.27	27.0
3	5486	1.12	4223	0.86			4067	0.83	31.1
4	5882	1.20	4487	0.92			4332	0.89	32.2
5	6944	1.42	5503	1.13			5348	1.10	26.9
Avg.	6317	1.29	4953	1.01			4797	0.98	28.6
S.D.	1147	0.23	941	0.19			941	0.19	2.8

Notes:

Test specimens are obtained utilizing a die of 3"x 6".

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

11-20-01

JW 11/26/01

GRAB BREAKING LOAD AND ELONGATION OF GEOTEXTILES

ASTM D4632 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00000009
Sample Number:	5929
Material Type:	BENTOMAT ST GCL
Expected/Specified Value:	90 lbs
Date Received:	11/15/01

Specimen	Grab Breaking Load				Apparent Breaking Elongation	
	RD		XD		RD	XD
Number	(lb)	(N)	(lb)	(N)	(%)	(%)
1	164.7	732.6	235.5	1047.6	106.3	112.3
2	158.7	705.9	224.7	999.5	94.7	112.3
3	172.0	765.1	226.5	1007.5	99.7	110.0
4	146.5	651.7	202.0	898.5	16.0	120.0
5	158.5	705.0	231.2	1028.4	16.7	111.7
6	145.2	645.9	198.5	883.0	15.3	116.3
7	147.7	657.0	197.2	877.2	93.0	113.0
8	141.7	630.3	202.0	898.5	15.3	116.3
9	145.0	645.0	204.2	908.3	86.0	139.7
10	154.7	688.1	236.5	1052.0	98.7	114.7
Avg.	153.5	682.7	215.8	960.1	64.2	116.6
S.D.	9.9	44.1	16.4	72.8	41.9	8.6

Notes:

RD Roll Direction
XD Cross - Roll Direction

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

11-20-01

JW 11/26/01

GRAB BREAKING LOAD AND ELONGATION OF GEOTEXTILES

ASTM D4632 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00000054
Sample Number:	5930
Material Type:	BENTOMAT ST GCL
Expected/Specified Value:	90 lbs
Date Received:	11/15/01

Specimen Number	Grab Breaking Load				Apparent Breaking Elongation	
	RD		XD		RD	XD
	(lb)	(N)	(lb)	(N)	(%)	(%)
1	152.5	678.4	209.7	932.8	59.0	96.0
2	158.6	705.5	255.2	1135.2	87.7	101.0
3	148.1	658.8	195.3	868.7	53.0	86.0
4	155.0	689.5	202.2	899.4	64.3	101.3
5	154.1	685.5	195.7	870.5	78.7	87.7
6	130.6	580.9	204.8	911.0	42.7	88.3
7	136.2	605.8	186.8	830.9	64.3	79.3
8	124.6	554.2	197.0	876.3	66.3	91.3
9	127.2	565.8	217.0	965.3	69.7	101.3
10	160.0	711.7	209.7	932.8	78.0	92.0
Avg.	144.7	643.6	207.3	922.3	66.4	92.4
S.D.	13.6	60.7	19.0	84.4	13.1	7.4

Notes:

RD Roll Direction
XD Cross - Roll Direction

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

JW 11/26/01

GRAB BREAKING LOAD AND ELONGATION OF GEOTEXTILES

ASTM D4632 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00000099
Sample Number:	5931
Material Type:	BENTOMAT ST GCL
Expected/Specified Value:	90 lbs
Date Received:	11/15/01

Specimen Number	Grab Breaking Load				Apparent Breaking Elongation	
	RD		XD		RD	XD
	(lb)	(N)	(lb)	(N)	(%)	(%)
1	165.7	737.1	217.0	965.3	70.3	123.0
2	187.5	834.0	207.1	921.2	68.7	122.7
3	182.5	811.8	225.5	1003.1	68.3	110.7
4	189.2	841.6	218.8	973.3	70.3	120.0
5	170.1	756.6	222.5	989.7	69.0	118.3
6	149.3	664.1	232.3	1033.3	70.3	124.0
7	159.5	709.5	234.2	1041.8	21.7	125.0
8	179.3	797.6	218.2	970.6	65.3	112.0
9	161.6	718.8	227.1	1010.2	16.7	118.7
10	168.1	747.7	206.6	919.0	66.3	126.7
Avg.	171.3	761.9	220.9	982.7	58.7	120.1
S.D.	13.0	58.0	9.4	41.7	20.9	5.3

Notes:

RD Roll Direction
XD Cross - Roll Direction

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

11-20-01

JW 11/26/01

GRAB BREAKING LOAD AND ELONGATION OF GEOTEXTILES

ASTM D4632 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00000144
Sample Number:	5932
Material Type:	BENTOMAT ST GCL
Expected/Specified Value:	90 lbs
Date Received:	11/15/01

Specimen Number	Grab Breaking Load				Apparent Breaking Elongation	
	RD		XD		RD	XD
	(lb)	(N)	(lb)	(N)	(%)	(%)
1	150.7	670.3	253.1	1125.8	57.0	115.7
2	183.0	814.0	225.6	1003.5	90.3	108.0
3	149.1	663.2	200.3	891.0	83.0	94.0
4	163.2	725.9	190.7	848.3	86.3	104.7
5	151.3	673.0	225.6	1003.5	79.0	105.0
6	143.3	637.4	208.2	926.1	82.0	96.7
7	132.8	590.7	228.6	1016.9	72.3	121.0
8	166.7	741.5	203.2	903.9	88.3	105.7
9	164.6	732.2	199.2	886.1	81.3	121.7
10	186.2	828.3	194.6	865.6	85.0	109.7
Avg.	159.1	707.7	212.9	947.1	80.5	108.2
S.D.	16.9	75.4	19.7	87.4	9.7	9.2

Notes:

RD Roll Direction
XD Cross - Roll Direction

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

11.20.01

JW 11/26/01

GRAB BREAKING LOAD AND ELONGATION OF GEOTEXTILES

ASTM D4632 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00000189
Sample Number:	5933
Material Type:	BENTOMAT ST GCL
Expected/Specified Value:	90 lbs
Date Received:	11/15/01

Specimen	Grab Breaking Load				Apparent Breaking Elongation	
	RD		XD		RD	XD
Number	(lb)	(N)	(lb)	(N)	(%)	(%)
1	169.5	754.0	203.2	903.9	59.0	114.7
2	163.3	726.4	204.3	908.8	103.0	137.7
3	168.5	749.5	219.5	976.4	74.3	128.7
4	172.5	767.3	199.1	885.6	19.7	122.3
5	183.5	816.2	208.8	928.8	76.3	128.7
6	181.1	805.6	214.1	952.4	75.7	120.0
7	187.7	834.9	188.7	839.4	68.7	76.7
8	191.1	850.1	191.3	850.9	69.3	128.3
9	186.3	828.7	195.5	869.6	75.7	145.0
10	205.3	913.2	212.7	946.1	72.3	151.3
Avg.	180.9	804.6	203.7	906.2	69.4	125.3
S.D.	12.7	56.4	10.2	45.3	20.7	20.5

Notes:

RD Roll Direction
XD Cross - Roll Direction

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

JW 11-20-01

JW 11/26/01

GRAB BREAKING LOAD AND ELONGATION OF GEOTEXTILES

ASTM D4632 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00000215
Sample Number:	5934
Material Type:	BENTOMAT ST GCL
Expected/Specified Value:	90 lbs
Date Received:	11/15/01

Specimen	Grab Breaking Load				Apparent Breaking Elongation	
	RD		XD		RD	XD
Number	(lb)	(N)	(lb)	(N)	(%)	(%)
1	184.1	818.9	224.2	997.3	66.3	89.7
2	182.0	809.6	245.6	1092.5	64.7	107.0
3	180.5	802.9	269.8	1200.1	73.7	120.0
4	163.3	726.4	255.6	1137.0	106.0	117.3
5	162.1	721.1	239.0	1063.1	66.3	110.0
6	204.2	908.3	235.0	1045.3	71.7	108.7
7	180.7	803.8	213.8	951.0	60.3	105.7
8	164.0	729.5	208.8	928.8	69.7	102.0
9	177.7	790.4	205.6	914.6	66.7	102.3
10	179.6	798.9	250.0	1112.1	68.7	96.0
Avg.	177.8	791.0	234.7	1044.2	71.4	105.9
S.D.	12.6	55.9	21.4	95.0	12.7	9.1

Notes:

RD Roll Direction
XD Cross - Roll Direction

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

11-20-01

JW 11/26/01

PEEL STRENGTH / PLY ADHESION

ASTM D413 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00000009
Sample Number:	5929
Material Type:	BENTOMAT ST GCL
Expected/Specified Value:	
Date Received:	11/15/01

Specimen No.	Bond Strength / Ply Adhesion							
	Roll Direction				Cross-Roll Direction			
	Top / Single Layer		Bottom Layer		Top / Single Layer		Bottom Layer	
	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)
1	1295	7.3			1875	10.5		
5	1024	5.7			1777	10.0		
3	1165	6.5			1881	10.5		
4	1524	8.5			1375	7.7		
5	1304	7.3			1167	6.5		
Avg.	1262	7.1			1615	9.0		
S.D.	185	1.0			325	1.8		

Notes:

Initial Grip Separation: 2 in.

Test Speed: 2 in./min.

Tests are continued for a minimum of 3 in. of peel; and maximum recorded peel strength values are reported.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

Test specimens are 2 in. in width and 8 in. in length. The grip width is 3 in.

11/20/01

JW 11/26/01

PEEL STRENGTH / PLY ADHESION

ASTM D413 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00000054
Sample Number:	5930
Material Type:	BENTOMAT ST GCL
Expected/Specified Value:	
Date Received:	11/15/01

Specimen No.	Bond Strength / Ply Adhesion							
	Roll Direction				Cross-Roll Direction			
	Top / Single Layer		Bottom Layer		Top / Single Layer		Bottom Layer	
	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)
1	2417	13.5			1984	11.1		
5	2015	11.3			1596	8.9		
3	2006	11.2			1830	10.3		
4	2625	14.7			1866	10.5		
5	1797	10.1			2256	12.6		
Avg.	2172	12.2			1907	10.7		
S.D.	339	1.9			241	1.3		

Notes:

Initial Grip Separation: 2 in.

Test Speed: 2 in./min.

Tests are continued for a minimum of 3 in. of peel; and maximum recorded peel strength values are reported.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

Test specimens are 2 in. in width and 8 in. in length. The grip width is 3 in.

11-26-01

JW 11/26/01

PEEL STRENGTH / PLY ADHESION

ASTM D413 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00000099
Sample Number:	5931
Material Type:	BENTOMAT ST GCL
Expected/Specified Value:	
Date Received:	11/15/01

Specimen No.	Bond Strength / Ply Adhesion							
	Roll Direction				Cross-Roll Direction			
	Top / Single Layer		Bottom Layer		Top / Single Layer		Bottom Layer	
	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)
1	1332	7.5			1746	9.8		
5	1246	7.0			1156	6.5		
3	1321	7.4			2010	11.3		
4	1661	9.3			1855	10.4		
5	1234	6.9			1598	9.0		
Avg.	1359	7.6			1673	9.4		
S.D.	174	1.0			326	1.8		

Notes:

Initial Grip Separation: 2 in.

Test Speed: 2 in./min.

Tests are continued for a minimum of 3 in. of peel; and maximum recorded peel strength values are reported.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

Test specimens are 2 in. in width and 8 in. in length. The grip width is 3 in.

11-20-01

JW 11/26/01

PEEL STRENGTH / PLY ADHESION

ASTM D413 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00000144
Sample Number:	5932
Material Type:	BENTOMAT ST GCL
Expected/Specified Value:	
Date Received:	11/15/01

Specimen No.	Bond Strength / Ply Adhesion							
	Roll Direction				Cross-Roll Direction			
	Top / Single Layer		Bottom Layer		Top / Single Layer		Bottom Layer	
	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)
1	2069	11.6			2064	11.6		
5	2000	11.2			1555	8.7		
3	1850	10.4			1426	8.0		
4	1572	8.8			1680	9.4		
5	1890	10.6			1462	8.2		
Avg.	1876	10.5			1638	9.2		
S.D.	191	1.1			258	1.4		

Notes:

Initial Grip Separation: 2 in.

Test Speed: 2 in./min.

Tests are continued for a minimum of 3 in. of peel; and maximum recorded peel strength values are reported.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

Test specimens are 2 in. in width and 8 in. in length. The grip width is 3 in.

11.20.01

JW 11/26/01

PEEL STRENGTH / PLY ADHESION

ASTM D413 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00000189
Sample Number:	5933
Material Type:	BENTOMAT ST GCL
Expected/Specified Value:	
Date Received:	11/15/01

Specimen No.	Bond Strength / Ply Adhesion							
	Roll Direction				Cross-Roll Direction			
	Top / Single Layer		Bottom Layer		Top / Single Layer		Bottom Layer	
	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)
1	1554	8.7			1377	7.7		
5	1429	8.0			1194	6.7		
3	1179	6.6			821	4.6		
4	1085	6.1			1219	6.8		
5	1292	7.2			1246	7.0		
Avg.	1308	7.3			1171	6.6		
S.D.	188	1.1			208	1.2		

Notes:

Initial Grip Separation: 2 in.

Test Speed: 2 in./min.

Tests are continued for a minimum of 3 in. of peel; and maximum recorded peel strength values are reported.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

Test specimens are 2 in. in width and 8 in. in length. The grip width is 3 in.

11.20.01

JW 11/26/01

PEEL STRENGTH / PLY ADHESION

ASTM D413 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00000215
Sample Number:	5934
Material Type:	BENTOMAT ST GCL
Expected/Specified Value:	
Date Received:	11/15/01

Specimen No.	Bond Strength / Ply Adhesion							
	Roll Direction				Cross-Roll Direction			
	Top / Single Layer		Bottom Layer		Top / Single Layer		Bottom Layer	
	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)
1	1045	5.9			1679	9.4		
5	1241	7.0			1518	8.5		
3	1185	6.6			1386	7.8		
4	1130	6.3			2415	13.5		
5	1073	6.0			1978	11.1		
Avg.	1135	6.4			1795	10.1		
S.D.	80	0.4			411	2.3		

Notes:

Initial Grip Separation: 2 in.

Test Speed: 2 in./min.

Tests are continued for a minimum of 3 in. of peel; and maximum recorded peel strength values are reported.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

Test specimens are 2 in. in width and 8 in. in length. The grip width is 3 in.

11.20.01

JW 11/26/01

MASS PER UNIT AREA

ASTM D3776 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00000009
Sample Number:	5929
Material Type:	NONWOVEN GEOTEXTILE OF BENTOMAT ST GCL
Expected/Specified Value:	6.0 oz/sy
Date Received:	11/15/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m^2)	(oz/yd^2)	(lb/ft^2)
1	1.57	344	10.2	0.071
2	1.92	421	12.4	0.086
Avg.	1.75	383	11.3	0.078
S.D.	0.25	54	1.6	0.011

Notes:

Test specimens are prepared in accordance with "Option C" utilizing a die of 3 in. in diameter.

The GCL specimen were separated and the nonwoven geotextile was tested.

(1) Deviations:
Laboratory temperature at 22±3 C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

11.20.01

JW 11/26/01

MASS PER UNIT AREA

ASTM D3776[1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00000054
Sample Number:	5930
Material Type:	NONWOVEN GEOTEXTILE OF BENTOMAT ST GCL
Expected/Specified Value:	6.0 oz/sy
Date Received:	11/15/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m^2)	(oz/yd^2)	(lb/ft^2)
1	2.11	463	13.6	0.095
2	2.16	474	14.0	0.097
Avg.	2.14	468	13.8	0.096
S.D.	0.04	8	0.2	0.002

Notes:

Test specimens are prepared in accordance with "Option C" utilizing a die of 3 in. in diameter.

The GCL specimen were separated and the nonwoven geotextile was tested.

(1) Deviations:
Laboratory temperature at 22±3 C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

11.20.01

JW 11/26/01

MASS PER UNIT AREA

ASTM D3776[1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00000099
Sample Number:	5931
Material Type:	NONWOVEN GEOTEXTILE OF BENTOMAT ST GCL
Expected/Specified Value:	6.0 oz/sy
Date Received:	11/15/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m^2)	(oz/yd^2)	(lb/ft^2)
1	1.46	320	9.4	0.066
2	1.56	342	10.1	0.070
Avg.	1.51	331	9.8	0.068
S.D.	0.07	16	0.5	0.003

Notes:

Test specimens are prepared in accordance with "Option C" utilizing a die of 3 in. in diameter.

The GCL specimen were separated and the nonwoven geotextile was tested.

(1) Deviations:
Laboratory temperature at 22±3 C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

11.20.01

JW 11/26/01

MASS PER UNIT AREA

ASTM D3776[1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 000000144
Sample Number:	5932
Material Type:	NONWOVEN GEOTEXTILE OF BENTOMAT ST GCL
Expected/Specified Value:	6.0 oz/sy
Date Received:	11/15/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m^2)	(oz/yd^2)	(lb/ft^2)
1	1.69	371	10.9	0.076
2	1.57	344	10.2	0.071
Avg.	1.63	357	10.5	0.073
S.D.	0.08	19	0.5	0.004

Notes:

Test specimens are prepared in accordance with "Option C" utilizing a die of 3 in. in diameter.

The GCL specimen were separated and the nonwoven geotextile was tested.

(1) Deviations:
Laboratory temperature at 22±3 C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

11.20.01

JW 11/26/01

MASS PER UNIT AREA

ASTM D3776 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 000000189
Sample Number:	5933
Material Type:	NONWOVEN GEOTEXTILE OF BENTOMAT ST GCL
Expected/Specified Value:	6.0 oz/sy
Date Received:	11/15/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m^2)	(oz/yd^2)	(lb/ft^2)
1	1.52	333	9.8	0.068
2	1.69	371	10.9	0.076
Avg.	1.61	352	10.4	0.072
S.D.	0.12	26	0.8	0.005

Notes:

Test specimens are prepared in accordance with "Option C" utilizing a die of 3 in. in diameter.

The GCL specimen were separated and the nonwoven geotextile was tested.

(1) Deviations:
Laboratory temperature at 22±3 C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

11.20.01

JW 11/26/01

MASS PER UNIT AREA

ASTM D3776[1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00000215
Sample Number:	5934
Material Type:	NONWOVEN GEOTEXTILE OF BENTOMAT ST GCL
Expected/Specified Value:	6.0 oz/sy
Date Received:	11/15/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m^2)	(oz/yd^2)	(lb/ft^2)
1	1.48	325	9.6	0.066
2	1.29	283	8.3	0.058
Avg.	1.39	304	9.0	0.062
S.D.	0.13	29	0.9	0.006

Notes:

Test specimens are prepared in accordance with "Option C" utilizing a die of 3 in. in diameter.

The GCL specimen were separated and the nonwoven geotextile was tested.

(1) Deviations:
Laboratory temperature at 22±3 C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

11.20.01

JW 11/26/01

MASS PER UNIT AREA

ASTM D5261 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00000009
Sample Number:	5929
Material Type:	WOVEN GEOTEXTILE OF BENTOMAT ST GCL
Expected/Specified Value:	3.2 oz/sy
Date Received:	11/15/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m^2)	(oz/yd^2)	(lb/ft^2)
1	3.13	152	4.5	0.031
2	3.34	162	4.8	0.033
Avg.	3.24	157	4.6	0.032
S.D.	0.15	7	0.2	0.001

Notes:

Each specimen is prepared utilizing a die of 4 in. by 8 in.

The GCL specimen were separated and the woven geotextile was tested.

(1) Deviations:
Laboratory temperature at 22±3 C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

11-20-01

JW 11/26/01

MASS PER UNIT AREA

ASTM D5261 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00000054
Sample Number:	5930
Material Type:	WOVEN GEOTEXTILE OF BENTOMAT ST GCL
Expected/Specified Value:	3.2 oz/sy
Date Received:	11/15/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m^2)	(oz/yd^2)	(lb/ft^2)
1	2.89	140	4.1	0.029
2	2.89	140	4.1	0.029
Avg.	2.89	140	4.1	0.029
S.D.	0.00	0	0.0	0.000

Notes:

Each specimen is prepared utilizing a die of 4 in. by 8 in.

The GCL specimen were separated and the woven geotextile was tested.

(1) Deviations:
Laboratory temperature at 22±3 C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

11.20.01

JW 11/26/01

MASS PER UNIT AREA

ASTM D5261 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00000099
Sample Number:	5931
Material Type:	WOVEN GEOTEXTILE OF BENTOMAT ST GCL
Expected/Specified Value:	3.2 oz/sy
Date Received:	11/15/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m^2)	(oz/yd^2)	(lb/ft^2)
1	3.93	190	5.6	0.039
2	3.81	185	5.4	0.038
Avg.	3.87	187	5.5	0.038
S.D.	0.08	4	0.1	0.001

Notes:

Each specimen is prepared utilizing a die of 4 in. by 8 in.

The GCL specimen were separated and the woven geotextile was tested.

(1) Deviations:
Laboratory temperature at 22±3 C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

11.20.01

JW 11/26/01

MASS PER UNIT AREA

ASTM D5261 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00000144
Sample Number:	5932
Material Type:	WOVEN GEOTEXTILE OF BENTOMAT ST GCL
Expected/Specified Value:	3.2 oz/sy
Date Received:	11/15/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m^2)	(oz/yd^2)	(lb/ft^2)
1	3.25	157	4.6	0.032
2	3.51	170	5.0	0.035
Avg.	3.38	164	4.8	0.034
S.D.	0.18	9	0.3	0.002

Notes:

Each specimen is prepared utilizing a die of 4 in. by 8 in.

The GCL specimen were separated and the woven geotextile was tested.

(1) Deviations:
Laboratory temperature at 22±3 C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

11.20.01

JW 11/26/01

MASS PER UNIT AREA

ASTM D5261 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00000189
Sample Number:	5933
Material Type:	WOVEN GEOTEXTILE OF BENTOMAT ST GCL
Expected/Specified Value:	3.2 oz/sy
Date Received:	11/15/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m^2)	(oz/yd^2)	(lb/ft^2)
1	3.89	188	5.6	0.039
2	3.99	193	5.7	0.040
Avg.	3.94	191	5.6	0.039
S.D.	0.07	3	0.1	0.001

Notes:

Each specimen is prepared utilizing a die of 4 in. by 8 in.

The GCL specimen were separated and the woven geotextile was tested.

(1) Deviations:
Laboratory temperature at 22±3 C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

11.20.01

JW 11/26/01

MASS PER UNIT AREA

ASTM D5261 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00000215
Sample Number:	5934
Material Type:	WOVEN GEOTEXTILE OF BENTOMAT ST GCL
Expected/Specified Value:	3.2 oz/sy
Date Received:	11/15/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m^2)	(oz/yd^2)	(lb/ft^2)
1	3.81	185	5.4	0.038
2	3.89	188	5.6	0.039
Avg.	3.85	186	5.5	0.038
S.D.	0.06	3	0.1	0.001

Notes:

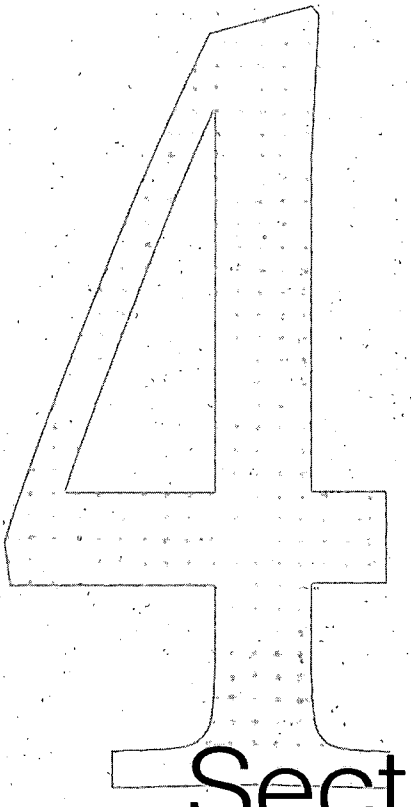
Each specimen is prepared utilizing a die of 4 in. by 8 in.

The GCL specimen were separated and the woven geotextile was tested.

(1) Deviations:
Laboratory temperature at 22±3 C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

11.20.01

JW 11/26/01



Section Four

COMANCO ENVIRONMENTAL CORPORATION
7911 Professional Place, Tampa, Florida 33527
Phone (813)988-8829 Fax (813)988-3720

SUBMITTAL CONTROL FORM

Project: **WEST PASCO COUNTY LANDFILL EXPANSION - CELLS A-3 AND SW-2**

Owner:	Pasco County B.O.C.C.	Project No.	01-063	Project Manager:	John Power
Engineer:	Camp Dresser & McKee	Project No.	6104-28936	Project Manager:	Daniel Strobridge, Q.E.P.
Contractor:	Handex of Florida, Inc.	Project No.	123477	Project Manager:	Gary L. Conaway, P.E.
Subcontractor:	COMANCO Environmental Corp.	Project No.	010-848	Project Manager:	Pablo J. Rivera

COMPLETED BY CONTRACTOR:

Certification Statement: By this submittal, I hereby represent that I have determined and verified all field measurements, field construction criteria, materials, dimensions, catalog numbers and similar data and I have checked and coordinated each item with other applicable approved shop drawings and all Contract requirements.

Signature: [signature] Date: 12-19-01

Submittal Identifier:	D-02275-023-A	[X] Original Submittal	[ ] Supplement
Submitted:	December 19, 2001		
No. of Copies:	8	[ ] Resubmittal	[ ] Information Only

Submittal Description: Conformance Test Results: CETCO GCL Bentomat ST
Specification Identifier: 01300, 02275 Section 2.03C
Manufacturer: CETCO Lining Technologies, Inc.
Installer: COMANCO Environmental Corporation

COMPLETED BY ENGINEER:

No. of Copies Received: _____ No. of Copies Returned: _____

Status:

[ ] Code 1 - Approved	[ ] Code 4 - Approved As Noted, Resubmit
[ ] Code 2 - Approved As Noted	[ ] Code 5 - Not Approved
[ ] Code 3 - Approved As Noted, Confirm	[ ] Code 6 - Comments Attached

Engineer Stamp or Remarks Area:

SHOP DRAWING REVIEW

ENGINEER'S REVIEW	RESPONSE REQUIRED OF CONTRACTOR
Approved [X] Not Approved [ ] Approved as Noted [ ] Comments Attached [ ]	Confirm [ ] Resubmit [ ]

The Engineer's review of this shop drawing is limited to the review of dimensions, equipment and materials as presented in the Contract plans, specifications and for design concept. This review does not relieve the Contractor from errors or omissions in this submittal or from the Contractor's responsibility of addressing any deviations from the Contract Documents. The Contractor is responsible for the details and dimensions of fabrication and manufacture, the means, methods, techniques, sequencee or procedures of construction and performing his work in a safe manner.
CAMP DRESSER & McKEE INC.
By [signature] Date 12/31/01

West Pasco County Landfill Expansion Cells SW-2 and A-3
Installation of Geosynthetics
Materials Conformance Test Results Register

CETCO GCL: Bentomat ST

Bentomat ST	No. of Rolls	Type of Test	Swell Index	Fluid Loss	Sieve Analysis	GCL Index Flux/ Permeability	GCL Grab Peel Strength	GCL Mass Per Unit Area	Geotextile Grab Break/ Elongation	Peel Strength/ Ply Adhesion
0141	1	Index				X		X		
0566	1	Index				X		X		
1427	1	Index				X		X		
1886	2	Index				X		X		
2238	3	Index				X		X		
2577	1	Index				X		X		
2931	1	Index				X		X		
4238	11	**Full**	X	X	X	X	X	X	X	X
4466	25	**Full**	X	X	X	X	X	X	X	X
4570	10	Index				X		X		
5263	2	Index				X		X		
5837	1	Index				X		X		

SWELL INDEX

ASTM D5890 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00004238/33FA
Sample Number:	5951
Material Type:	BENTOMAT ST GCL
Expected/Specified Value:	24 ml /2g
Date Received:	11/16/2001

Specimen Number	Swell Index (ml/2g)
1	20.0

Notes:

(1) Deviations:
Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

Tested By: SO
Reviewed By: JW

Test Date: 11,29,01
Review Date: 11/30/01

SWELL INDEX

ASTM D5890 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00004466/34FA
Sample Number:	5952
Material Type:	BENTOMAT ST GCL
Expected/Specified Value:	24 ml /2g
Date Received:	11/16/2001

Specimen Number	Swell Index (ml/2g)
1	20.0

Notes:

(1) Deviations:
Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

Tested By: SD
Reviewed By: JW

Test Date: 11,29,01
Review Date: 11/30/01

FLUID LOSS

ASTM D5891 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00004238/33FA
Sample Number:	5951
Material Type:	BENTOMAT ST GCL
Expected/Specified Value:	18 ml (max.)
Date Received:	11/16/2001

Specimen Number	Fluid Loss (ml)
1	15.0

Notes:

(1) Deviations:
Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

Tested By: [signature] Test Date: 11,30,01

Reviewed By: JW Review Date: 11/30/01

FLUID LOSS

ASTM D5891 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00004466/34FA
Sample Number:	5952
Material Type:	BENTOMAT ST GCL
Expected/Specified Value:	18 ml (max.)
Date Received:	11/16/2001

Specimen Number	Fluid Loss (ml)
1	13.0

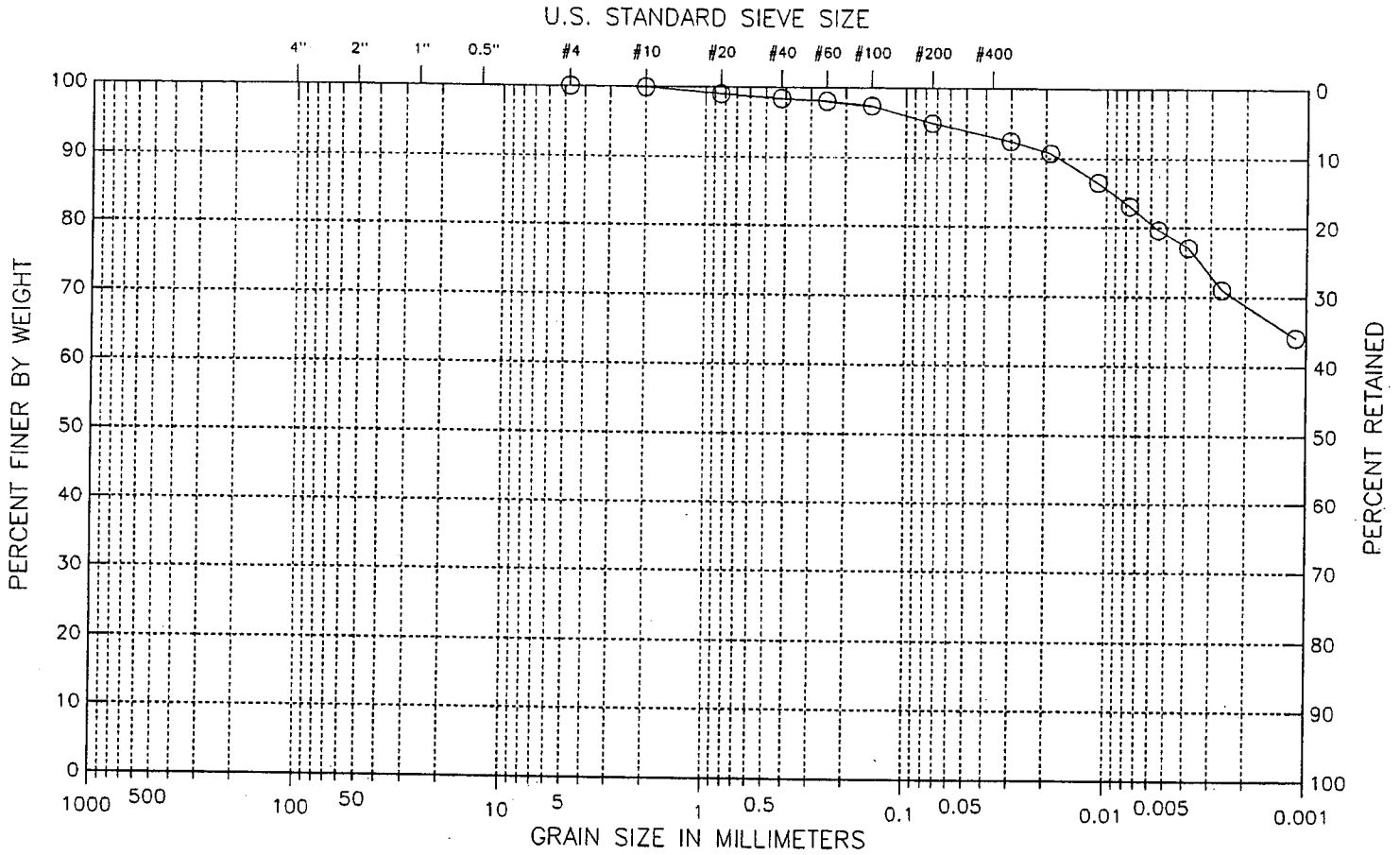
Notes:

(1) Deviations:
Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

Tested By: [illegible]
Reviewed By: JW

Test Date: 11, 30, 01
Review Date: 4/30/01

	Boring No. : ROLL#:00004238 Sample No.: 5951 Test Method ASTM D 422 Filename : 5951	Project : WEST PASCO LANDFILL Project No.: GTX-G0281 Location: Date : Fri Nov 30 2001



Classification :

Visual Description :
BENTOMAT ST GCL

Remarks :
S.G. assumed at 2.75

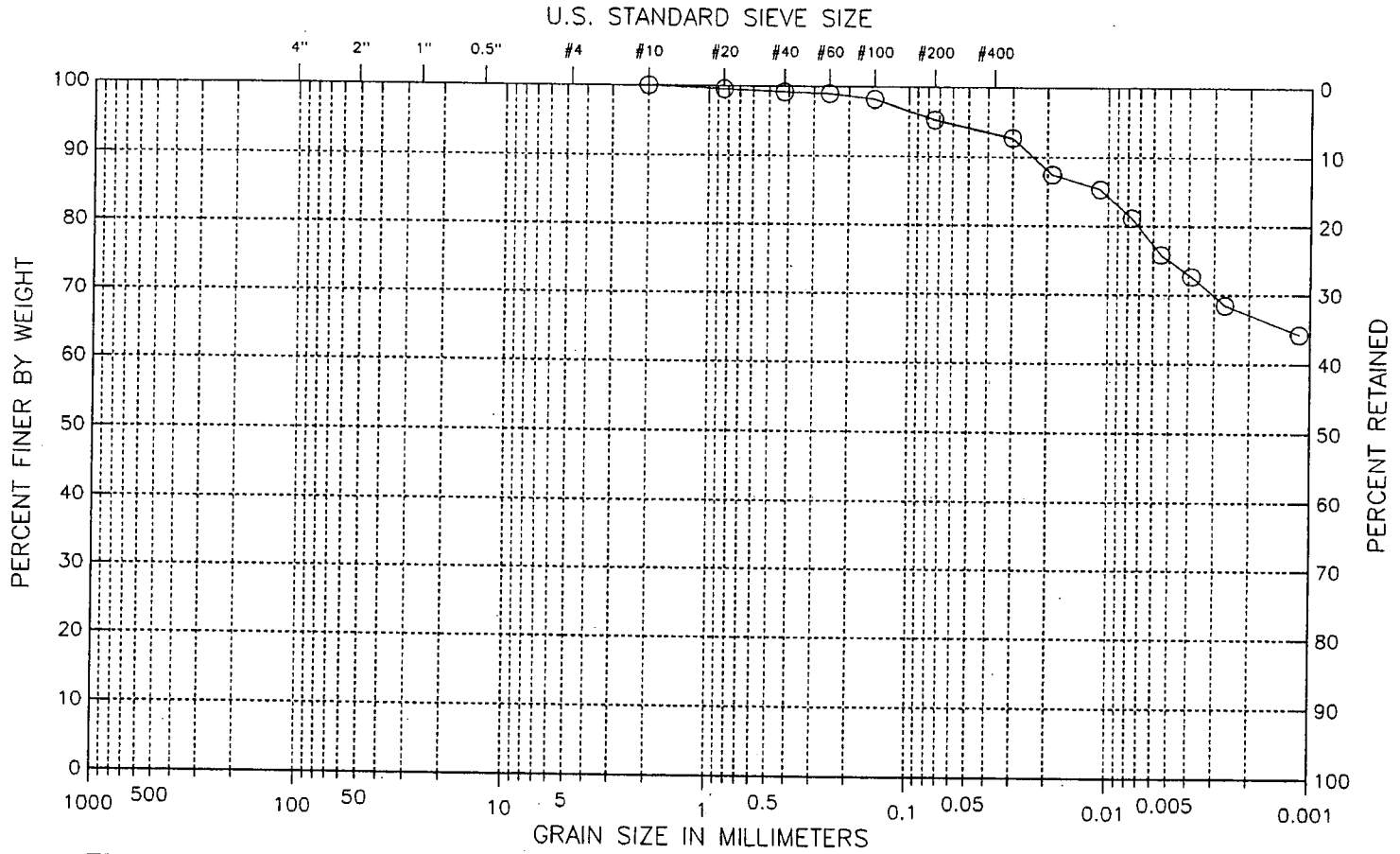
SD 11,30,01

JW 11/30/01

Figure 1

GeoTesting Express, Inc. • Alpharetta, GA • (770) 645-6575 • www.geotest.com

	Boring No. : ROLL#:00004466 Sample No.: 5952 Test Method ASTM D 422 Filename : 5952	Project : WEST PASCO LANDFILL Project No.: GTX-G0281 Location: Date : Fri Nov 30 2001



Classification :

Visual Description :
BENTOMAT ST GCL

Remarks :
S.G. assumed at 2.75

SD 11,30,01

JW 11/30/01

Figure 1

GeoTesting Express, Inc. • Alpharetta, GA • (770) 645-6575 • www.geotest.com

GCL INDEX FLUX / PERMEABILITY TEST [1]

ASTM D5887 *

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	00000141/02FA
Sample Number:	5942
Material Type:	BENTOMAT ST GCL
Expected/Specified Value:	<1.0E-8 $m^3/m^2/s$
Date Received:	11/16/2001

Specimen Number	Specimen Final Conditions [2]		Test Conditions					Flux	Hydraulic Conductivity
	Spec. Thickness (cm)	Spec. Diameter (cm)	Cell Press. (psi)	Back Press. (psi)	Consolid. Press. (psi)	Influent Press. (psi)	Permeant Liquid [3] (-)	$(m^3/m^2)/s$	(cm/s)
1	0.77	10.31	80.0	75.0	5.0	77.0	DDI	4.4E-9	2.3E-9

Notes:

1. Method C, "Falling-Head, Increasing-Tailwater" test procedures were followed during the testing.
2. Values presented are the final dimensions of the clay component of GCL.
3. Type of permeant liquid: DTW = Deaired Tap Water, DDI = Deaired Deionized Water

* Deviations:
Laboratory temperature at 22±3 °C.

ZT 11-30-01 JW 11/30/01

GCL INDEX FLUX / PERMEABILITY TEST [1]

ASTM D5887 *

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	00000566/13FA
Sample Number:	5943
Material Type:	BENTOMAT ST GCL
Expected/Specified Value:	<1.0E-8 $m^3/m^2/s$
Date Received:	11/16/2001

Specimen	Specimen Final Conditions [2]		Test Conditions					Flux	Hydraulic
Number	Spec. Thickness (cm)	Spec. Diameter (cm)	Cell Press. (psi)	Back Press. (psi)	Consolid. Press. (psi)	Influent Press. (psi)	Permeant Liquid [3] (-)	$(m^3/m^2)/s$	Conductivity (cm/s)
1	0.66	10.45	80.0	75.0	5.0	77.0	DDI	6.4E-9	2.9E-9

Notes:

1. Method C, "Falling-Head, Increasing-Tailwater" test procedures were followed during the testing.
2. Values presented are the final dimensions of the clay component of GCL.
3. Type of permeant liquid: DTW = Deaired Tap Water, DDI = Deaired Deionized Water

* Deviations:
Laboratory temperature at 22±3 °C.

RT 12-3-01

JW 12/4/01

GCL INDEX FLUX / PERMEABILITY TEST [1]

ASTM D5887 *

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	00001427/19FA
Sample Number:	5944
Material Type:	BENTOMAT ST GCL
Expected/Specified Value:	<1.0E-8 $m^3/m^2/s$
Date Received:	11/16/2001

Specimen	Specimen Final Conditions [2]		Test Conditions					Flux	Hydraulic
Number	Spec. Thickness (cm)	Spec. Diameter (cm)	Cell Press. (psi)	Back Press. (psi)	Consolid. Press. (psi)	Influent Press. (psi)	Permeant Liquid [3] (-)	$(m^3/m^2)/s$	Conductivity (cm/s)
1	0.56	10.34	80.0	75.0	5.0	77.0	DDI	2.4E-9	9.1E-10

Notes:

1. Method C, "Falling-Head, Increasing-Tailwater" test procedures were followed during the testing.
2. Values presented are the final dimensions of the clay component of GCL.
3. Type of permeant liquid: DTW = Deaired Tap Water, DDI = Deaired Deionized Water

* Deviations:
Laboratory temperature at 22±3 °C.

JT 12-4-01

JW 12/4/01

GCL INDEX FLUX / PERMEABILITY TEST [1]

ASTM D5887 *

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	00001886/25FA
Sample Number:	5946
Material Type:	BENTOMAT ST GCL
Expected/Specified Value:	<1.0E-8 $m^3/m^2/s$
Date Received:	11/16/2001

Specimen	Specimen Final Conditions [2]		Test Conditions					Flux	Hydraulic
Number	Spec. Thickness (cm)	Spec. Diameter (cm)	Cell Press. (psi)	Back Press. (psi)	Consolid. Press. (psi)	Influent Press. (psi)	Permeant Liquid [3] (-)	$(m^3/m^2)/s$	Conductivity (cm/s)
1	0.57	10.34	80.0	75.0	5.0	77.0	DDI	9.3E-9	4.0E-9

Notes:

1. Method C, "Falling-Head, Increasing-Tailwater" test procedures were followed during the testing.
2. Values presented are the final dimensions of the clay component of GCL.
3. Type of permeant liquid: DTW = Deaired Tap Water, DDI = Deaired Deionized Water

* Deviations:
Laboratory temperature at 22±3 °C.

2T 12-4-01

JW 12/4/01

GCL INDEX FLUX / PERMEABILITY TEST [1]

ASTM D5887 *

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	00002238/26FA
Sample Number:	5948
Material Type:	BENTOMAT ST GCL
Expected/Specified Value:	<1.0E-8 $m^3/m^2/s$
Date Received:	11/16/2001

Specimen	Specimen Final Conditions [2]		Test Conditions					Flux	Hydraulic
Number	Spec. Thickness (cm)	Spec. Diameter (cm)	Cell Press. (psi)	Back Press. (psi)	Consolid. Press. (psi)	Influent Press. (psi)	Permeant Liquid [3] (-)	$(m^3/m^2)/s$	Conductivity (cm/s)
1	0.57	10.23	80.0	75.0	5.0	77.0	DDI	8.6E-9	3.8E-9

Notes:

1. Method C, "Falling-Head, Increasing-Tailwater" test procedures were followed during the testing.
2. Values presented are the final dimensions of the clay component of GCL.
3. Type of permeant liquid: DTW = Deaired Tap Water, DDI = Deaired Deionized Water

* Deviations:
Laboratory temperature at 22±3 °C.

AT 11-30-01

JW 11/30/01

GCL INDEX FLUX / PERMEABILITY TEST [1]

ASTM D5887 *

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	00002577/27FA
Sample Number:	5949
Material Type:	BENTOMAT ST GCL
Expected/Specified Value:	<1.0E-8 $m^3/m^2/s$
Date Received:	11/16/2001

Specimen	Specimen Final Conditions [2]		Test Conditions					Flux	Hydraulic
Number	Spec. Thickness (cm)	Spec. Diameter (cm)	Cell Press. (psi)	Back Press. (psi)	Consolid. Press. (psi)	Influent Press. (psi)	Permeant Liquid [3] (-)	(m^3/m^2)/s	Conductivity (cm/s)
1	0.50	10.25	80.0	75.0	5.0	77.0	DDI	7.5E-9	2.8E-9

Notes:

1. Method C, "Falling-Head, Increasing-Tailwater" test procedures were followed during the testing.
2. Values presented are the final dimensions of the clay component of GCL.
3. Type of permeant liquid: DTW = Deaired Tap Water, DDI = Deaired Deionized Water

* Deviations:
Laboratory temperature at 22±3 °C.

JT 12-4-01

JW 12/4/01

GCL INDEX FLUX / PERMEABILITY TEST [1]

ASTM D5887 *

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	00002931/29FA
Sample Number:	5950
Material Type:	BENTOMAT ST GCL
Expected/Specified Value:	<1.0E-8 $m^3/m^2/s$
Date Received:	11/16/2001

Specimen	Specimen Final Conditions [2]		Test Conditions					Flux	Hydraulic
Number	Spec. Thickness (cm)	Spec. Diameter (cm)	Cell Press. (psi)	Back Press. (psi)	Consolid. Press. (psi)	Influent Press. (psi)	Permeant Liquid [3] (-)	$(m^3/m^2)/s$	Conductivity (cm/s)
1	0.57	10.31	80.0	75.0	5.0	77.0	DDI	3.2E-9	1.2E-9

Notes:

1. Method C, "Falling-Head, Increasing-Tailwater" test procedures were followed during the testing.
2. Values presented are the final dimensions of the clay component of GCL.
3. Type of permeant liquid: DTW = Deaired Tap Water, DDI = Deaired Deionized Water

* Deviations:
Laboratory temperature at 22±3 °C.

ZT 11-30-01

JW 11/30/01

GCL INDEX FLUX / PERMEABILITY TEST [1]

ASTM D5887 *

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	00004238/33FA
Sample Number:	5951
Material Type:	BENTOMAT ST GCL
Expected/Specified Value:	<1.0E-8 $m^3/m^2/s$
Date Received:	11/16/2001

Specimen	Specimen Final Conditions [2]		Test Conditions					Flux	Hydraulic
Number	Spec. Thickness (cm)	Spec. Diameter (cm)	Cell Press. (psi)	Back Press. (psi)	Consolid. Press. (psi)	Influent Press. (psi)	Permeant Liquid [3] (-)	$(m^3/m^2)/s$	Conductivity (cm/s)
1	0.46	10.31	80.0	75.0	5.0	77.0	DDI	3.8E-9	1.2E-9

Notes:

1. Method C, "Falling-Head, Increasing-Tailwater" test procedures were followed during the testing.
2. Values presented are the final dimensions of the clay component of GCL.
3. Type of permeant liquid: DTW = Deaired Tap Water, DDI = Deaired Deionized Water

* Deviations:
Laboratory temperature at 22±3 °C.

JT 11-26-01

JW 11/26/01

GCL INDEX FLUX / PERMEABILITY TEST [1]

ASTM D5887 *

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	00004466/34FA
Sample Number:	5952
Material Type:	BENTOMAT ST GCL
Expected/Specified Value:	<1.0E-8 $m^3/m^2/s$
Date Received:	11/16/2001

Specimen Number	Specimen Final Conditions [2]		Test Conditions					Flux	Hydraulic Conductivity
	Spec. Thickness (cm)	Spec. Diameter (cm)	Cell Press. (psi)	Back Press. (psi)	Consolid. Press. (psi)	Influent Press. (psi)	Permeant Liquid [3] (-)	$(m^3/m^2)/s$	(cm/s)
1	0.54	10.32	80.0	75.0	5.0	77.0	DDI	4.3E-9	1.7E-9

Notes:

1. Method C, "Falling-Head, Increasing-Tailwater" test procedures were followed during the testing.
2. Values presented are the final dimensions of the clay component of GCL.
3. Type of permeant liquid: DTW = Deaired Tap Water, DDI = Deaired Deionized Water

* Deviations:
Laboratory temperature at 22±3 °C.

JT 11-30-01

JW 11/30/01

GCL INDEX FLUX / PERMEABILITY TEST [1]

ASTM D5887 *

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	00004570/36FA
Sample Number:	5953
Material Type:	BENTOMAT ST GCL
Expected/Specified Value:	<1.0E-8 $m^3/m^2/s$
Date Received:	11/16/2001

Specimen Number	Specimen Final Conditions [2]		Test Conditions					Flux	Hydraulic Conductivity
	Spec. Thickness (cm)	Spec. Diameter (cm)	Cell Press. (psi)	Back Press. (psi)	Consolid. Press. (psi)	Influent Press. (psi)	Permeant Liquid [3] (-)	(m^3/m^2)/s	(cm/s)
1	0.61	10.39	80.0	75.0	5.0	77.0	DDI	5.0E-9	2.1E-9

Notes:

1. Method C, "Falling-Head, Increasing-Tailwater" test procedures were followed during the testing.
2. Values presented are the final dimensions of the clay component of GCL.
3. Type of permeant liquid: DTW = Deaired Tap Water, DDI = Deaired Deionized Water

* Deviations:
Laboratory temperature at 22±3 °C.

JT 11-30-01

JW 11/30/01

GCL INDEX FLUX / PERMEABILITY TEST [1]

ASTM D5887 *

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	00005263/38FA
Sample Number:	5954
Material Type:	BENTOMAT ST GCL
Expected/Specified Value:	<1.0E-8 $m^3/m^2/s$
Date Received:	11/16/2001

Specimen	Specimen Final Conditions [2]		Test Conditions					Flux	Hydraulic
Number	Spec. Thickness (cm)	Spec. Diameter (cm)	Cell Press. (psi)	Back Press. (psi)	Consolid. Press. (psi)	Influent Press. (psi)	Permeant Liquid [3] (-)	$(m^3/m^2)/s$	Conductivity (cm/s)
1	0.66	10.18	80.0	75.0	5.0	77.0	DDI	6.0E-9	2.7E-9

Notes:

1. Method C, "Falling-Head, Increasing-Tailwater" test procedures were followed during the testing.
2. Values presented are the final dimensions of the clay component of GCL.
3. Type of permeant liquid: DTW = Deaired Tap Water, DDI = Deaired Deionized Water

* Deviations:
Laboratory temperature at 22±3 °C.

PT 11-30-01

JW 11/30/01

GCL INDEX FLUX / PERMEABILITY TEST [1]

ASTM D5887 *

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	00005837/45FA
Sample Number:	5955
Material Type:	BENTOMAT ST GCL
Expected/Specified Value:	<1.0E-8 $m^3/m^2/s$
Date Received:	11/16/2001

Specimen	Specimen Final Conditions [2]		Test Conditions					Flux	Hydraulic
Number	Spec. Thickness (cm)	Spec. Diameter (cm)	Cell Press. (psi)	Back Press. (psi)	Consolid. Press. (psi)	Influent Press. (psi)	Permeant Liquid [3] (-)	(m^3/m^2)/s	Conductivity (cm/s)
1	0.73	10.26	80.0	75.0	5.0	77.0	DDI	7.8E-9	3.9E-9

Notes:

1. Method C, "Falling-Head, Increasing-Tailwater" test procedures were followed during the testing.
2. Values presented are the final dimensions of the clay component of GCL.
3. Type of permeant liquid: DTW = Deaired Tap Water, DDI = Deaired Deionized Water

* Deviations:
Laboratory temperature at 22±3 °C.

JT 12-4-01

JW 12/4/01

GCL GRAB PEEL STRENGTH

ASTM D4632 Modified [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00004238 / 33FA
Sample Number:	5951
Material Type:	BENTOMAT ST GCL
Expected/Specified Value:	15 lbs
Date Received:	11/16/01

Specimen Number	Grab Peel Strength			
	Roll Direction		Cross-Roll Direction	
	(lb)	(N)	(lb)	(N)
1	30.5	135.5	18.7	83.0
2	23.8	105.6	14.0	62.1
3	22.7	100.8	15.2	67.4
4	41.2	183.4	28.6	127.1
5	26.0	115.4	18.3	81.3
Avg.	28.8	128.2	18.9	84.2
S.D.	7.6	33.6	5.8	25.6

Notes:

Initial Grip Separation: 2 in.

Test Speed : 12 in./min.

Tests are continued for a minimum of 3 in. peel; and maximum recorded grab peel strength values are reported.

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

JW 11/30/01

GCL GRAB PEEL STRENGTH

ASTM D4632 Modified [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00004466 / 34FA
Sample Number:	5952
Material Type:	BENTOMAT ST GCL
Expected/Specified Value:	15 lbs
Date Received:	11/16/01

Specimen Number	Grab Peel Strength			
	Roll Direction		Cross-Roll Direction	
	(lb)	(N)	(lb)	(N)
1	12.7	56.3	11.5	51.2
2	19.3	85.9	17.1	76.1
3	19.7	87.6	11.9	52.7
4	19.9	88.6	18.5	82.2
5	19.9	88.6	23.3	103.7
Avg.	18.3	81.4	16.4	73.2
S.D.	3.2	14.1	4.9	21.9

Notes:

Initial Grip Separation: 2 in.

Test Speed : 12 in./min.

Tests are continued for a minimum of 3 in. peel; and maximum recorded grab peel strength values are reported.

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

JW 11/30/01

GCL MASS PER UNIT AREA

ASTM D5993 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00000141 / 02FA
Sample Number:	5942
Material Type:	Bentomat ST GCL
Expected/Specified Value:	0.75 lb/sf
Date Received:	11/16/01

Spec. #	Mass Per Unit Area								Moisture Content of Clay Component
	As Received GCL		Dried GCL		Assumed Synthetic Components		Dried Clay Component		
	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(%)
1	4969	1.02	4061	0.83	156	0.03	3905	0.80	23.3
2	6196	1.27	5034	1.03			4879	1.00	23.8
3	6545	1.34	5351	1.10			5195	1.06	23.0
4	6279	1.29	5141	1.05			4985	1.02	22.8
5	5996	1.23	5025	1.03			4869	1.00	19.9
Avg.	5997	1.23	4922	1.01			4767	0.98	22.6
S.D.	607	0.12	499	0.10			499	0.10	1.5

Notes:

Test specimens are obtained utilizing a die of 3"x 6".

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

SS 11-30-01

JWS 11/30/01

GCL MASS PER UNIT AREA

ASTM D5993 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00000566 / 13FA
Sample Number:	5943
Material Type:	Bentomat ST GCL
Expected/Specified Value:	0.75 lb/sf
Date Received:	11/16/01

Spec. #	Mass Per Unit Area								Moisture Content of Clay Component
	As Received GCL		Dried GCL		Assumed Synthetic Components		Dried Clay Component		
	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(%)
1	6415	1.31	5304	1.09	156	0.03	5148	1.05	21.6
2	5580	1.14	4691	0.96			4536	0.93	19.6
3	6042	1.24	4991	1.02			4835	0.99	21.7
4	5818	1.19	4840	0.99			4685	0.96	20.9
5	6816	1.40	5553	1.14			5398	1.11	23.4
Avg.	6134	1.26	5076	1.04			4920	1.01	21.4
S.D.	490	0.10	350	0.07			350	0.07	1.4

Notes:

Test specimens are obtained utilizing a die of 3"x 6".

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

SS 12-30-01

JW 11/30/01

GCL MASS PER UNIT AREA

ASTM D5993 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00001427 / 19FA
Sample Number:	5944
Material Type:	Bentomat ST GCL
Expected/Specified Value:	0.75 lb/sf
Date Received:	11/16/01

Spec. #	Mass Per Unit Area								Moisture Content of Clay Component
	As Received GCL		Dried GCL		Assumed Synthetic Components		Dried Clay Component		
	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(%)
1	6146	1.26	5029	1.03			4873	1.00	22.9
2	5292	1.08	4314	0.88			4159	0.85	23.5
3	6048	1.24	4907	1.01	156	0.03	4752	0.97	24.0
4	5465	1.12	4392	0.90			4237	0.87	25.3
5	5261	1.08	4284	0.88			4128	0.85	23.7
Avg.	5642	1.16	4585	0.94			4430	0.91	23.9
S.D.	424	0.09	354	0.07			354	0.07	0.9

Notes:

Test specimens are obtained utilizing a die of 3"x 6".

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

SS 11-30-01 JW 11/30/01

GCL MASS PER UNIT AREA

ASTM D5993 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00001886 / 25FA
Sample Number:	5946
Material Type:	Bentomat ST GCL
Expected/Specified Value:	0.75 lb/sf
Date Received:	11/16/01

Spec. #	Mass Per Unit Area								Moisture Content of Clay Component
	As Received GCL		Dried GCL		Assumed Synthetic Components		Dried Clay Component		
	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(%)
1	5761	1.18	4358	0.89			4203	0.86	33.4
2	6502	1.33	4928	1.01			4773	0.98	33.0
3	6268	1.28	4664	0.96	156	0.03	4508	0.92	35.6
4	6028	1.23	4633	0.95			4477	0.92	31.2
5	7025	1.44	5264	1.08			5108	1.05	34.5
Avg.	6317	1.29	4769	0.98			4614	0.95	33.5
S.D.	482	0.10	342	0.07			342	0.07	1.7

Notes:

Test specimens are obtained utilizing a die of 3"x 6".

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

SS 11-30-01

JW 11/30/01

GCL MASS PER UNIT AREA

ASTM D5993 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00002238 / 26FA
Sample Number:	5948
Material Type:	Bentomat ST GCL
Expected/Specified Value:	0.75 lb/sf
Date Received:	11/16/01

Spec. #	Mass Per Unit Area								Moisture Content of Clay Component
	As Received GCL		Dried GCL		Assumed Synthetic Components		Dried Clay Component		
	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(%)
1	7037	1.44	4742	0.97			4587	0.94	50.0
2	7370	1.51	4887	1.00			4731	0.97	52.5
3	6893	1.41	4671	0.96	156	0.03	4515	0.92	49.2
4	7182	1.47	4839	0.99			4684	0.96	50.0
5	6723	1.38	4251	0.87			4096	0.84	60.4
Avg.	7041	1.44	4678	0.96			4523	0.93	52.4
S.D.	250	0.05	253	0.05			253	0.05	4.6

Notes:

Test specimens are obtained utilizing a die of 3"x 6".

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

SS 11-30-01

JW 11/30/01

GCL MASS PER UNIT AREA

ASTM D5993 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00002577 / 27FA
Sample Number:	5949
Material Type:	Bentomat ST GCL
Expected/Specified Value:	0.75 lb/sf
Date Received:	11/16/01

Spec. #	Mass Per Unit Area								Moisture Content of Clay Component
	As Received GCL		Dried GCL		Assumed Synthetic Components		Dried Clay Component		
	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(%)
1	6212	1.27	4638	0.95	156	0.03	4482	0.92	35.1
2	5920	1.21	4490	0.92			4334	0.89	33.0
3	5697	1.17	4225	0.87			4070	0.83	36.2
4	5874	1.20	4309	0.88			4153	0.85	37.7
5	5518	1.13	4027	0.82			3872	0.79	38.5
Avg.	5844	1.20	4338	0.89			4182	0.86	36.1
S.D.	260	0.05	236	0.05			236	0.05	2.2

Notes:

Test specimens are obtained utilizing a die of 3"x 6".

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

SS 11-30-01

JW 11/30/01

GCL MASS PER UNIT AREA

ASTM D5993 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00002931 / 29FA
Sample Number:	5950
Material Type:	Bentomat ST GCL
Expected/Specified Value:	0.75 lb/sf
Date Received:	11/16/01

Spec. #	Mass Per Unit Area								Moisture Content of Clay Component
	As Received GCL		Dried GCL		Assumed Synthetic Components		Dried Clay Component		
	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(%)
1	5395	1.10	4318	0.88	156	0.03	4162	0.85	25.9
2	6195	1.27	4973	1.02			4817	0.99	25.4
3	5929	1.21	4896	1.00			4741	0.97	21.8
4	6402	1.31	5386	1.10			5231	1.07	19.4
5	4741	0.97	3896	0.80			3740	0.77	22.6
Avg.	5732	1.17	4694	0.96			4538	0.93	23.0
S.D.	670	0.14	587	0.12			587	0.12	2.7

Notes:

Test specimens are obtained utilizing a die of 3"x 6".

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

55 - 11-30-01

JW 11/30/01

GCL MASS PER UNIT AREA

ASTM D5993 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00004238 / 33FA
Sample Number:	5951
Material Type:	BENTOMAT ST GCL
Expected/Specified Value:	0.75 lb/sf
Date Received:	11/16/01

Spec. #	Mass Per Unit Area								Moisture Content of Clay Component
	As Received GCL		Dried GCL		Assumed Synthetic Components		Dried Clay Component		
	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(%)
1	6370	1.30	4947	1.01	156	0.03	4792	0.98	29.7
2	4108	0.84	3122	0.64			2966	0.61	33.3
3	6592	1.35	5048	1.03			4892	1.00	31.6
4	5609	1.15	4237	0.87			4082	0.84	33.6
5	6011	1.23	4731	0.97			4575	0.94	28.0
Avg.	5738	1.18	4417	0.90			4261	0.87	31.2
S.D.	984	0.20	789	0.16			789	0.16	2.4

Notes:

Test specimens are obtained utilizing a die of 3"x 6".

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

JWJ 11/30/01

GCL MASS PER UNIT AREA

ASTM D5993 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00004466 / 34FA
Sample Number:	5952
Material Type:	BENTOMAT ST GCL
Expected/Specified Value:	0.75 lb/sf
Date Received:	11/16/01

Spec. #	Mass Per Unit Area								Moisture Content of Clay Component
	As Received GCL		Dried GCL		Assumed Synthetic Components		Dried Clay Component		
	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(%)
1	6813	1.40	4748	0.97			4593	0.94	45.0
2	6375	1.31	4792	0.98			4637	0.95	34.1
3	6818	1.40	5257	1.08	156	0.03	5102	1.04	30.6
4	6910	1.42	5200	1.07			5045	1.03	33.9
5	6562	1.34	5015	1.03			4860	1.00	31.8
Avg.	6696	1.37	5002	1.02			4847	0.99	35.1
S.D.	221	0.05	231	0.05			231	0.05	5.7

Notes:

Test specimens are obtained utilizing a die of 3"x 6".

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

JW 11/30/01

GCL MASS PER UNIT AREA

ASTM D5993 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00004570 / 36FA
Sample Number:	5953
Material Type:	Bentomat ST GCL
Expected/Specified Value:	0.75 lb/sf
Date Received:	11/16/01

Spec. #	Mass Per Unit Area								Moisture Content of Clay Component
	As Received GCL		Dried GCL		Assumed Synthetic Components		Dried Clay Component		
	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(%)
1	5178	1.06	4315	0.88	156	0.03	4159	0.85	20.7
2	5508	1.13	4540	0.93			4384	0.90	22.1
3	5363	1.10	4473	0.92			4317	0.88	20.6
4	5476	1.12	4523	0.93			4367	0.89	21.8
5	5540	1.13	4616	0.95			4461	0.91	20.7
Avg.	5413	1.11	4493	0.92			4338	0.89	21.2
S.D.	148	0.03	112	0.02			112	0.02	0.7

Notes:

Test specimens are obtained utilizing a die of 3"x 6".

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

SS 11-30-01

JW 11/30/01

GCL MASS PER UNIT AREA

ASTM D5993 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00005263 / 38FA
Sample Number:	5954
Material Type:	Bentomat ST GCL
Expected/Specified Value:	0.75 lb/sf
Date Received:	11/16/01

Spec. #	Mass Per Unit Area								Moisture Content of Clay Component
	As Received GCL		Dried GCL		Assumed Synthetic Components		Dried Clay Component		
	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(%)
1	5762	1.18	6904	1.41			6749	1.38	-16.9
2	5631	1.15	4211	0.86			4055	0.83	35.0
3	7758	1.59	5409	1.11	156	0.03	5254	1.08	44.7
4	10299	2.11	6907	1.41			6751	1.38	50.2
5	6410	1.31	4545	0.93			4389	0.90	42.5
Avg.	7172	1.47	5595	1.15			5440	1.11	31.1
S.D.	1941	0.40	1274	0.26			1274	0.26	27.4

Notes:

Test specimens are obtained utilizing a die of 3"x 6".

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

SS 11-30-01

JW 11/30/01

GCL MASS PER UNIT AREA

ASTM D5993 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00005837 / 45FA
Sample Number:	5955
Material Type:	Bentomat ST GCL
Expected/Specified Value:	0.75 lb/sf
Date Received:	11/16/01

Spec. #	Mass Per Unit Area								Moisture Content of Clay Component
	As Received GCL		Dried GCL		Assumed Synthetic Components		Dried Clay Component		
	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(%)
1	7143	1.46	5703	1.17			5548	1.14	26.0
2	7531	1.54	5892	1.21			5736	1.17	28.6
3	7265	1.49	5802	1.19	156	0.03	5647	1.16	25.9
4	7416	1.52	6007	1.23			5852	1.20	24.1
5	7431	1.52	5936	1.22			5781	1.18	25.9
Avg.	7357	1.51	5868	1.20			5713	1.17	26.1
S.D.	153	0.03	118	0.02			118	0.02	1.6

Notes:

Test specimens are obtained utilizing a die of 3"x 6".

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

SS 11-30-01

JW 11/30/01

GRAB BREAKING LOAD AND ELONGATION OF GEOTEXTILES

ASTM D4632 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00004238 / 33FA
Sample Number:	5951
Material Type:	BENTOMAT ST GCL
Expected/Specified Value:	90 lbs
Date Received:	11/16/01

Specimen	Grab Breaking Load				Apparent Breaking Elongation	
	RD		XD		RD	XD
Number	(lb)	(N)	(lb)	(N)	(%)	(%)
1	108.1	480.9	167.5	745.1	36.3	106.0
2	99.4	442.0	148.5	660.6	84.7	94.7
3	99.8	443.7	169.5	754.0	57.0	109.0
4	98.8	439.3	159.0	707.3	60.0	80.7
5	103.5	460.4	167.0	742.9	81.3	107.3
6	106.0	471.5	163.8	728.6	50.0	101.0
7	100.5	447.0	174.3	775.3	79.7	127.3
8	107.1	476.4	155.1	689.9	53.0	98.7
9	99.8	443.7	143.3	637.4	66.7	94.3
10	110.0	489.3	154.5	687.3	86.0	105.0
Avg.	103.3	459.4	160.3	712.8	65.5	102.4
S.D.	4.2	18.7	9.9	44.0	17.0	12.1

Notes:

RD Roll Direction
XD Cross - Roll Direction

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

JW 11/30/01

GRAB BREAKING LOAD AND ELONGATION OF GEOTEXTILES

ASTM D4632 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00004466 / 34FA
Sample Number:	5952
Material Type:	BENTOMAT ST GCL
Expected/Specified Value:	90 lbs
Date Received:	11/16/01

Specimen	Grab Breaking Load				Apparent Breaking Elongation	
	RD		XD		RD	XD
Number	(lb)	(N)	(lb)	(N)	(%)	(%)
1	118.7	528.0	200.0	889.6	18.0	90.0
2	126.7	563.6	168.1	747.7	21.7	127.3
3	140.0	622.8	211.7	941.7	22.0	88.3
4	123.5	549.4	178.1	792.2	21.0	112.0
5	127.5	567.1	149.6	665.5	22.3	121.3
6	138.7	617.0	178.6	794.5	22.3	78.0
7	142.7	634.8	147.1	654.3	25.0	18.0
8	141.1	627.6	212.7	946.1	24.3	114.3
9	122.1	543.1	158.3	704.2	20.3	22.7
10	128.3	570.7	172.1	765.5	21.7	114.3
Avg.	130.9	582.4	177.6	790.1	21.9	88.6
S.D.	8.8	39.3	23.8	105.9	2.0	39.3

Notes:

RD Roll Direction
XD Cross - Roll Direction

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

JW 11/30/01

PEEL STRENGTH / PLY ADHESION

ASTM D413 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00004238 / 33FA
Sample Number:	5951
Material Type:	~~CLAYMAX 200R GCL~~ Bentomat ST
Expected/Specified Value:	
Date Received:	11/16/01

Specimen No.	Bond Strength / Ply Adhesion							
	Roll Direction				Cross-Roll Direction			
	Top / Single Layer		Bottom Layer		Top / Single Layer		Bottom Layer	
	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)
1	1103	6.2			1147	6.4		
5	821	4.6			1196	6.7		
3	1196	6.7			1763	9.9		
4	1027	5.8			1728	9.7		
5	1036	5.8			1214	6.8		
Avg.	1037	5.8			1410	7.9		
S.D.	138	0.8			308	1.7		

Notes:

Initial Grip Separation: 2 in.

Test Speed: 2 in./min.

Tests are continued for a minimum of 3 in. of peel; and maximum recorded peel strength values are reported.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

Test specimens are 2 in. in width and 8 in. in length. The grip width is 3 in.

JW 12/03/01

PEEL STRENGTH / PLY ADHESION

ASTM D413 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00004466 / 34FA
Sample Number:	5952
Material Type:	~~CLAYMAX 200R GCL~~ Bentomat ST
Expected/Specified Value:	
Date Received:	11/16/01

Specimen No.	Bond Strength / Ply Adhesion							
	Roll Direction				Cross-Roll Direction			
	Top / Single Layer		Bottom Layer		Top / Single Layer		Bottom Layer	
	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)
1	759	4.3			737	4.1		
5	652	3.7			1138	6.4		
3	411	2.3			1223	6.9		
4	746	4.2			799	4.5		
5	920	5.2			808	4.5		
Avg.	697	3.9			941	5.3		
S.D.	187	1.0			223	1.2		

Notes:

Initial Grip Separation: 2 in.

Test Speed: 2 in./min.

Tests are continued for a minimum of 3 in. of peel; and maximum recorded peel strength values are reported.

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.
Test specimens are 2 in. in width and 8 in. in length. The grip width is 3 in.

JW 12/03/01

5

Section Five

COMANCO ENVIRONMENTAL CORPORATION
7911 Professional Place, Tampa, Florida 33527
Phone (813)988-8829 Fax (813)988-3720

SUBMITTAL CONTROL FORM

Project: **WEST PASCO COUNTY LANDFILL EXPANSION - CELLS A-3 AND SW-2**

Owner:	Pasco County B.O.C.C.	Project No.	01-063	Project Manager:	John Power
Engineer:	Camp Dresser & McKee	Project No.	6104-28936	Project Manager:	Daniel Strobridge, Q.E.P.
Contractor:	Handex of Florida, Inc.	Project No.	123477	Project Manager:	Gary L. Conaway, P.E.
Subcontractor:	COMANCO Environmental Corp.	Project No.	010-848	Project Manager:	Pablo J. Rivera

COMPLETED BY CONTRACTOR:

Certification Statement: By this submittal, I hereby represent that I have determined and verified all field measurements, field construction criteria, materials, dimensions, catalog numbers and similar data and I have checked and coordinated each item with other applicable approved shop drawings and all Contract requirements.

Signature: PPM Date: 12-19-01

Submittal Identifier: D-02275-024-A	[X]	Original Submittal	[ ] Supplement
Submitted: December 19, 2001			
No. of Copies: 8	[ ]	Resubmittal	[ ] Information Only

Submittal Description: Conformance Test Results: CETCO GCL Claymax 200R
Specification Identifier: 01300, 02275 Section 2.03C
Manufacturer: CETCO Lining Technologies, Inc.
Installer: COMANCO Environmental Corporation

COMPLETED BY ENGINEER:

No. of Copies Received: _____ No. of Copies Returned: _____

Status:

[ ]	Code 1 - Approved	[ ]	Code 4 - Approved As Noted, Resubmit
[ ]	Code 2 - Approved As Noted	[ ]	Code 5 - Not Approved
[ ]	Code 3 - Approved As Noted, Confirm	[ ]	Code 6 - Comments Attached

Engineer Stamp or Remarks Area:

SHOP DRAWING REVIEW

ENGINEER'S REVIEW	RESPONSE REQUIRED OF CONTRACTOR
Approved [X] Not Approved [ ] Approved as Noted [ ] Comments Attached [ ]	Confirm [ ] Resubmit [ ]

The Engineer's review of this shop drawing is limited to the review of dimensions, equipment and materials as presented in the Contract plans, specifications and for design concept. This review does not relieve the Contractor from errors or omissions in this submittal or from the Contractor's responsibility of addressing any deviations from the Contract Documents. The Contractor is responsible for the details and dimensions of fabrication and manufacture, the means, methods, techniques, sequences or procedures of construction and performing his work in a safe manner.
CAMP DRESSER & McKEE INC.
By AWS Date 12/30/01

West Pasco County Landfill Expansion Cells SW-2 and A-3
Installation of Geosynthetics
Materials Conformance Test Results Register

CETCO GCL: Claymax 200R

Claymax 200R	No. of Rolls	Type of Test	Swell Index	Fluid Loss	Sieve Analysis	GCL Index Flux/ Permeability	GCL Grab Peel Strength	GCL Mass Per Unit Area	Geotextile Grab Break/ Elongation	Peel Strength/ Ply Adhesion
0598	8	**Full**	X	X	X	X	X	X	X	X
1053	7	**Full**	X	X	X	X	X	X	X	X
1058	1	Index				X		X		
1070	29	**Full**	X	X	X	X	X	X	X	X
1206	36	**Full**	X	X	X	X	X	X	X	X
1568	76	**Full**	X	X	X	X	X	X	X	X
1666	1	Index				X		X		
1934	88	**Full**	X	X	X	X	X	X	X	X

SWELL INDEX

ASTM D5890 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00000598/29FA
Sample Number:	5957
Material Type:	CLAYMAX 200R GCL
Expected/Specified Value:	24 ml /2g
Date Received:	11/16/2001

Specimen Number	Swell Index (ml/2g)
1	23.0 ✓

Notes:

(1) Deviations:
Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

Tested By: JO Test Date: 11,29,01

Reviewed By: JW Review Date: 11/30/01

SWELL INDEX

ASTM D5890 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00001053/32FA
Sample Number:	5961
Material Type:	CLAYMAX 200R GCL
Expected/Specified Value:	24 ml /2g
Date Received:	11/16/2001

Specimen Number	Swell Index (ml/2g)
1	23.0 ✓

Notes:

(1) Deviations:
Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

Tested By: SD
Reviewed By: JW

Test Date: 11,29,01
Review Date: 11/30/01

SWELL INDEX

ASTM D5890 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00001070/40FA
Sample Number:	5959
Material Type:	CLAYMAX 200R GCL
Expected/Specified Value:	24 ml /2g
Date Received:	11/16/2001

Specimen Number	Swell Index (ml/2g)
1	22.0

Notes:

(1) Deviations:
Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

Tested By: JD
Reviewed By: JD

Test Date: 11,29,01
Review Date: 11/30/01

SWELL INDEX

ASTM D5890 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00001206/41FA
Sample Number:	5956
Material Type:	CLAYMAX 200R GCL
Expected/Specified Value:	24 ml /2g
Date Received:	11/16/2001

Specimen Number	Swell Index (ml/2g)
1	23.0

Notes:

(1) Deviations:
Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

Tested By: JD
Reviewed By: JW

Test Date: 11,29,01
Review Date: 11/30/01

SWELL INDEX

ASTM D5890 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00001568/42FA
Sample Number:	5945
Material Type:	CLAYMAX 200R GCL
Expected/Specified Value:	24 ml /2g
Date Received:	11/16/2001

Specimen Number	Swell Index (ml/2g)
1	21.0 ✓

Notes:

(1) Deviations:
Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

Tested By: JO
Reviewed By: JW

Test Date: 11/29/01
Review Date: 11/30/01

SWELL INDEX

ASTM D5890 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00001934/44LO
Sample Number:	5947
Material Type:	CLAYMAX 200R GCL
Expected/Specified Value:	24 ml /2g
Date Received:	11/16/2001

Specimen Number	Swell Index (ml/2g)
1	21.0 ✓

Notes:

(1) Deviations:
Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

Tested By: JD
Reviewed By: JW

Test Date: 11,29,01
Review Date: 11/30/01

FLUID LOSS

ASTM D5891 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00000598/29FA
Sample Number:	5957
Material Type:	CLAYMAX 200R GCL
Expected/Specified Value:	18 ml (max.)
Date Received:	11/19/2001

Specimen Number	Fluid Loss (ml)
1	12.0 ✓

Notes:

(1) Deviations:
Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

Tested By: SD Test Date: 11/30/01

Reviewed By: JW Review Date: 11/30/01

FLUID LOSS

ASTM D5891 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00001053/32FA
Sample Number:	5961
Material Type:	CLAYMAX 200R GCL
Expected/Specified Value:	18 ml (max.)
Date Received:	11/19/2001

Specimen Number	Fluid Loss (ml)
1	13.0 ✓

Notes:

(1) Deviations:
Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

Tested By: JG
Reviewed By: JW

Test Date: 11,30,01
Review Date: 11/30/01

FLUID LOSS

ASTM D5891 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00001070/40FA
Sample Number:	5959
Material Type:	CLAYMAX 200R GCL
Expected/Specified Value:	18 ml (max.)
Date Received:	11/19/2001

Specimen Number	Fluid Loss (ml)
1	14.0 ✓

Notes:

(1) Deviations:
Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

Tested By: SD
Reviewed By: JWO

Test Date: 11,30,01
Review Date: 11/30/01

FLUID LOSS

ASTM D5891 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00001206/41FA
Sample Number:	5956
Material Type:	CLAYMAX 200R GCL
Expected/Specified Value:	18 ml (max.)
Date Received:	11/19/2001

Specimen Number	Fluid Loss (ml)
1	13.0

Notes:

(1) Deviations:
Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

Tested By: SD
Reviewed By: JW

Test Date: 11,30,01
Review Date: 11/30/01

FLUID LOSS

ASTM D5891 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00001568/42FA
Sample Number:	5945
Material Type:	CLAYMAX 200R GCL
Expected/Specified Value:	18 ml (max.)
Date Received:	11/16/2001

Specimen Number	Fluid Loss (ml)
1	12.0 ✓

Notes:

(1) Deviations:
Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

Tested By: SD
Reviewed By: JW

Test Date: 11,30,01
Review Date: 11/30/01

FLUID LOSS

ASTM D5891 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00001934/44LO
Sample Number:	5947
Material Type:	CLAYMAX 200R GCL
Expected/Specified Value:	18 ml (max.)
Date Received:	11/16/2001

Specimen Number	Fluid Loss (ml)
1	12.0 V

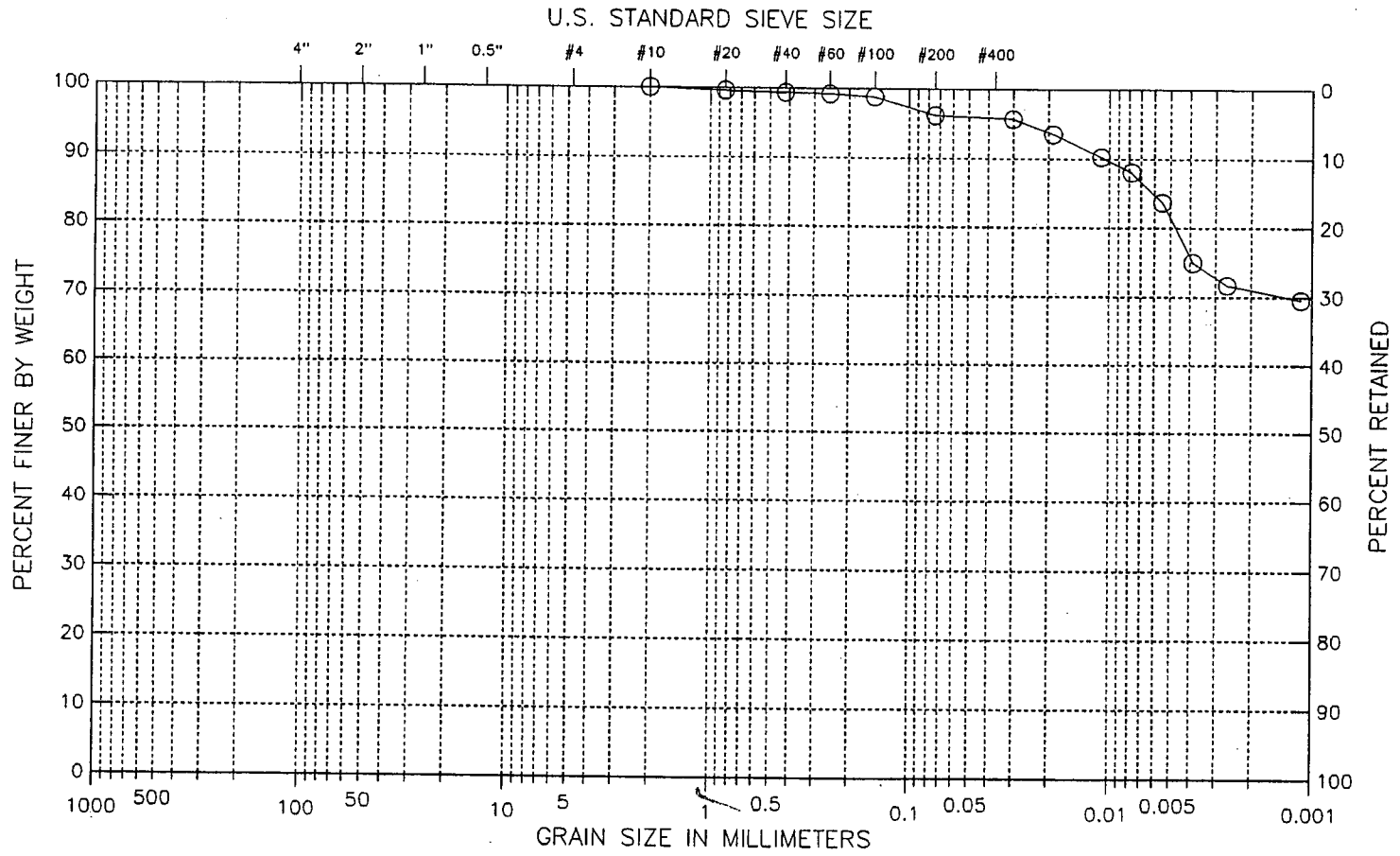
Notes:

(1) Deviations:
Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

Tested By: MD
Reviewed By: JW

Test Date: 11,30,01
Review Date: 11/30/01

	Boring No. : ROLL#:00000598 Sample No.: 5957 Test Method ASTM D 422 Filename : 5957	Project : WEST PASCO LANDFILL Project No.: GTX-G0281 Location: Date : Fri Nov 30 2001



Classification :

Visual Description :
CLAYMAX 200R GCL

Remarks :
S.G. assumed at 2.75

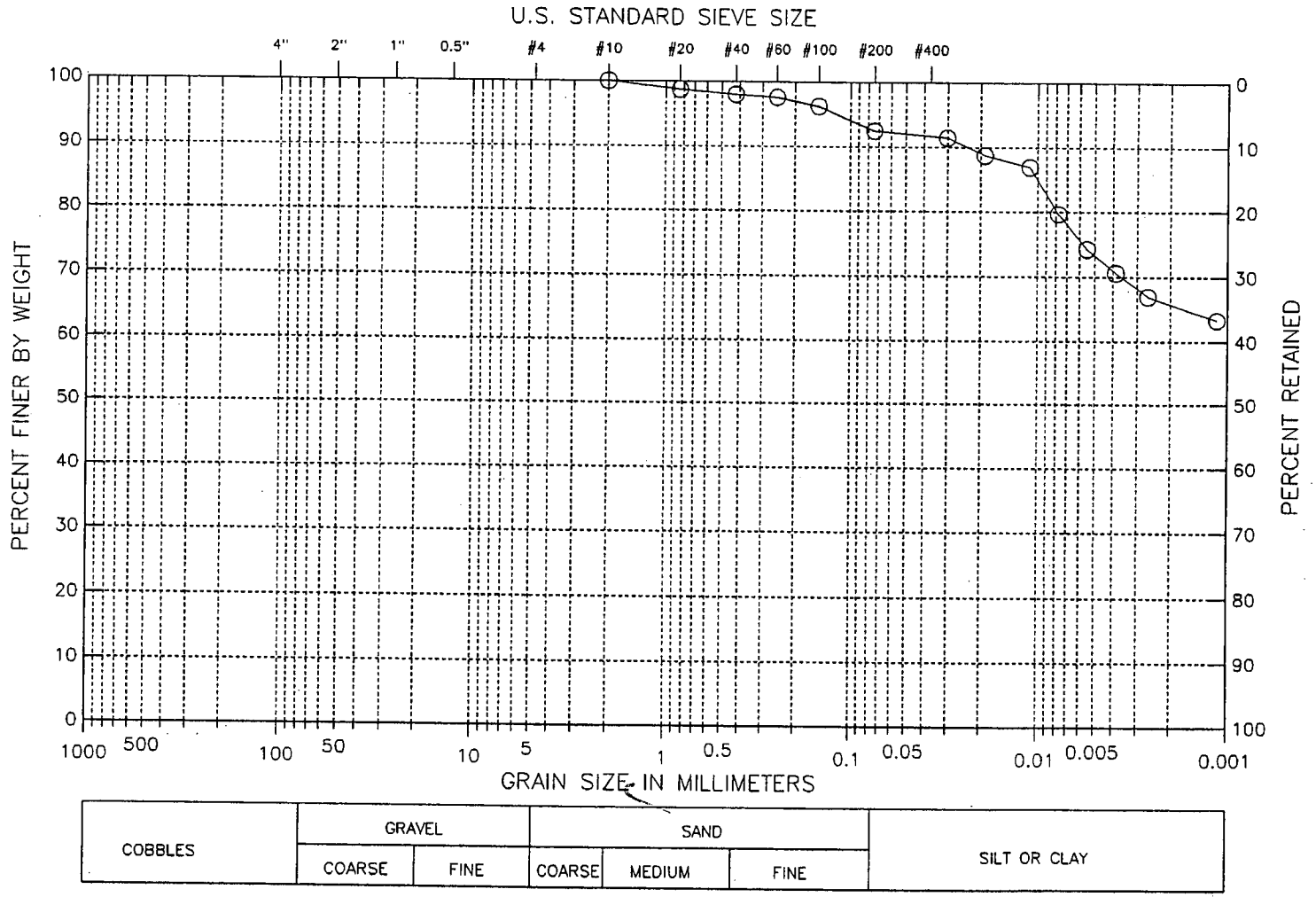
SD 11,30,01

Jw 11/30/01

Figure 1

GeoTesting Express, Inc. • Alpharetta, GA • (770) 645-6575 • www.geotest.com

	Boring No. : ROLL#:00001053 Sample No.: 5961 Test Method ASTM D 422 Filename : 5961	Project : WEST PASCO LANDFILL Project No.: GTX-G0281 Location: Date : Fri Nov 30 2001



Classification :

Visual Description :
CLAYMAX 200R GCL

Remarks :
S.G. assumed at 2.75

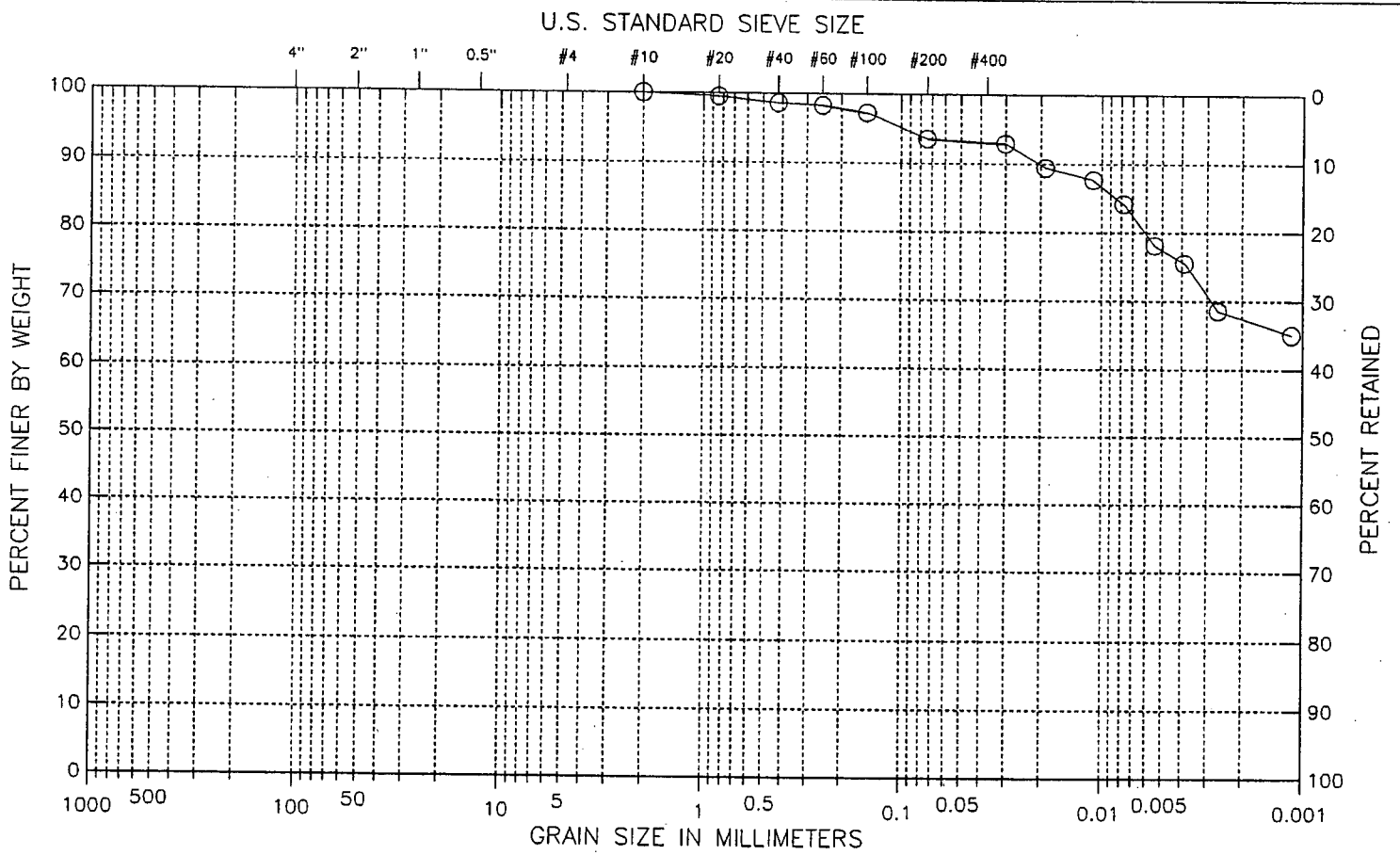
JD 11/30/01

JW 11/30/01

Figure 1

GeoTesting Express, Inc. • Alpharetta, GA • (770) 645-6575 • www.geotest.com

	Boring No. : ROLL#:00001070 Sample No.: 5959 Test Method ASTM D 422 Filename : 5959	Project : WEST PASCO LANDFILL Project No.: GTX-G0281 Location: Date : Fri Nov 30 2001



Classification :

Visual Description :
CLAYMAX 200R GCL

Remarks :
S.G. assumed at 2.75

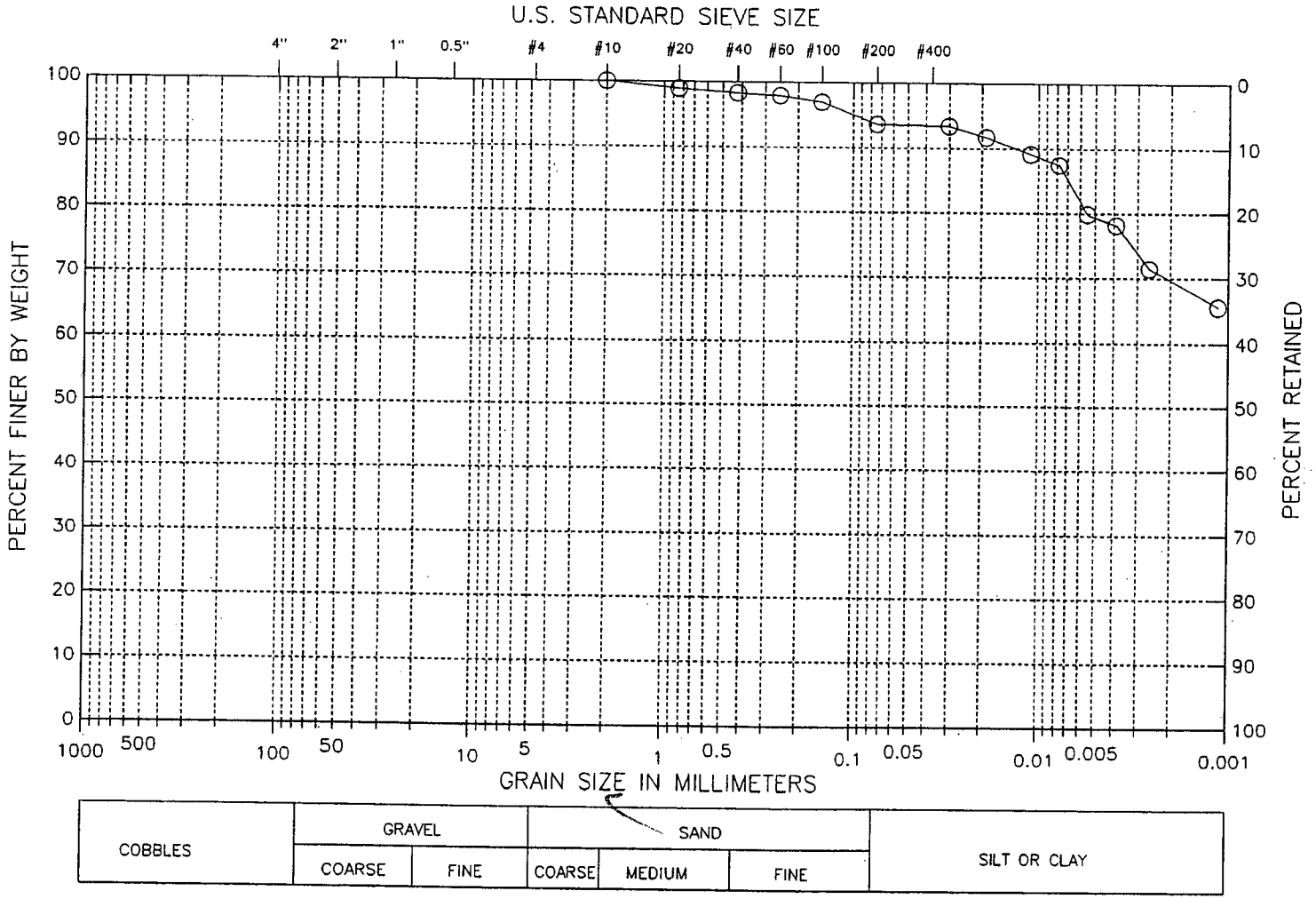
SD 11/30/01

JW 11/30/01

Figure 1

GeoTesting Express, Inc. • Alpharetta, GA • (770) 645-6575 • www.geotest.com

	Boring No. : ROLL#:00001206 Sample No.: 5956 Test Method ASTM D 422 Filename : 5956	Project : WEST PASCO LANDFILL Project No.: GTX-G0281 Location: Date : Fri Nov 30 2001



Classification :

Visual Description :
CLAYMAX 200R GCL

SD 11,30,01

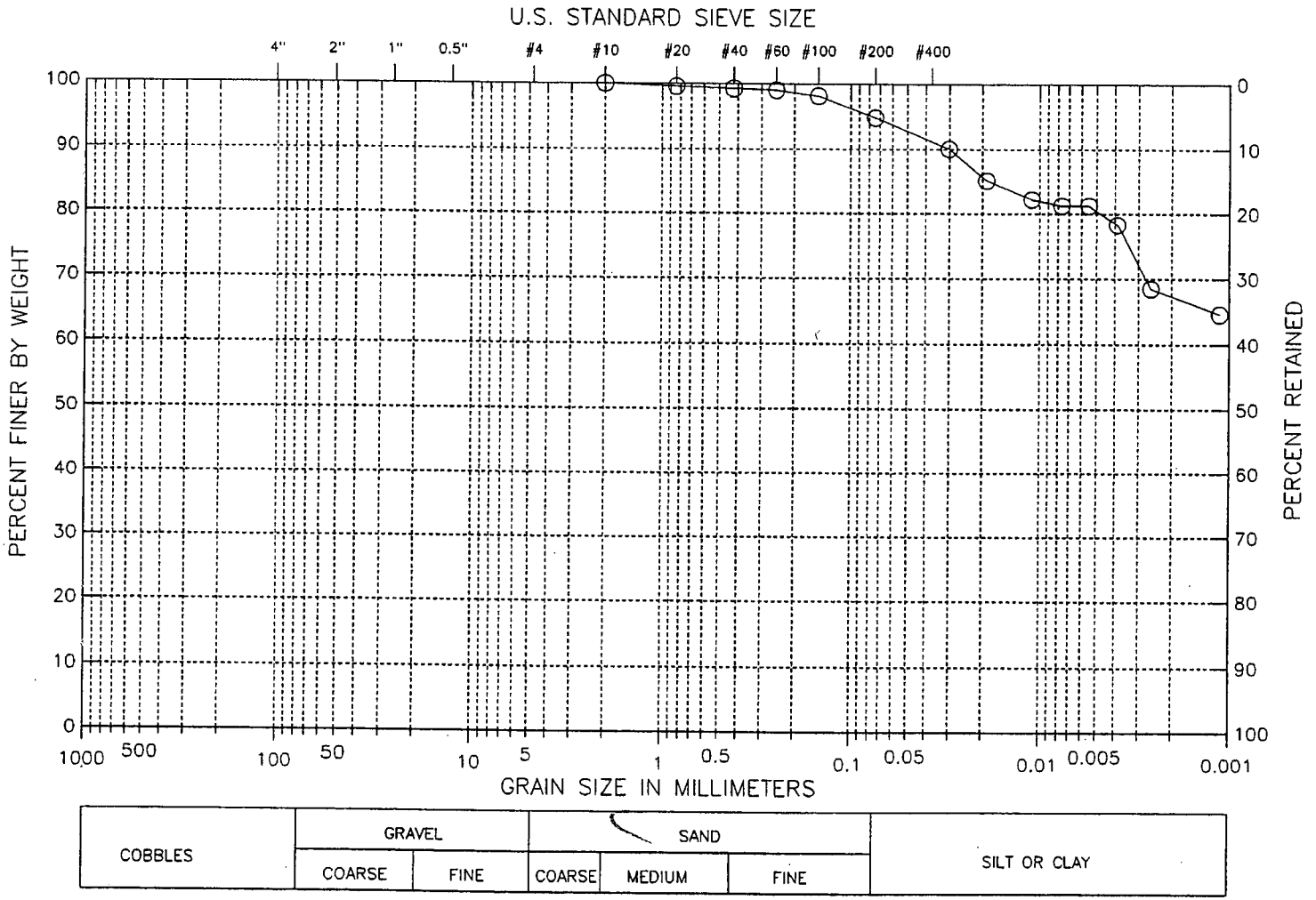
Remarks :
S.G. assumed at 2.75

JW 11/30/01

Figure 1

GeoTesting Express, Inc. • Alpharetta, GA • (770) 645-6575 • www.geotest.com

	Boring No. : ROLL#:00001568 Sample No.: 5945 Test Method ASTM D 422 Filename : 5945	Project : WEST PASCO LANDFILL Project No.: GTX-G0281 Location: Date : Fri Nov 30 2001



Classification :

Visual Description :
CLAYMAX 200R GCL

SD 11/30/01

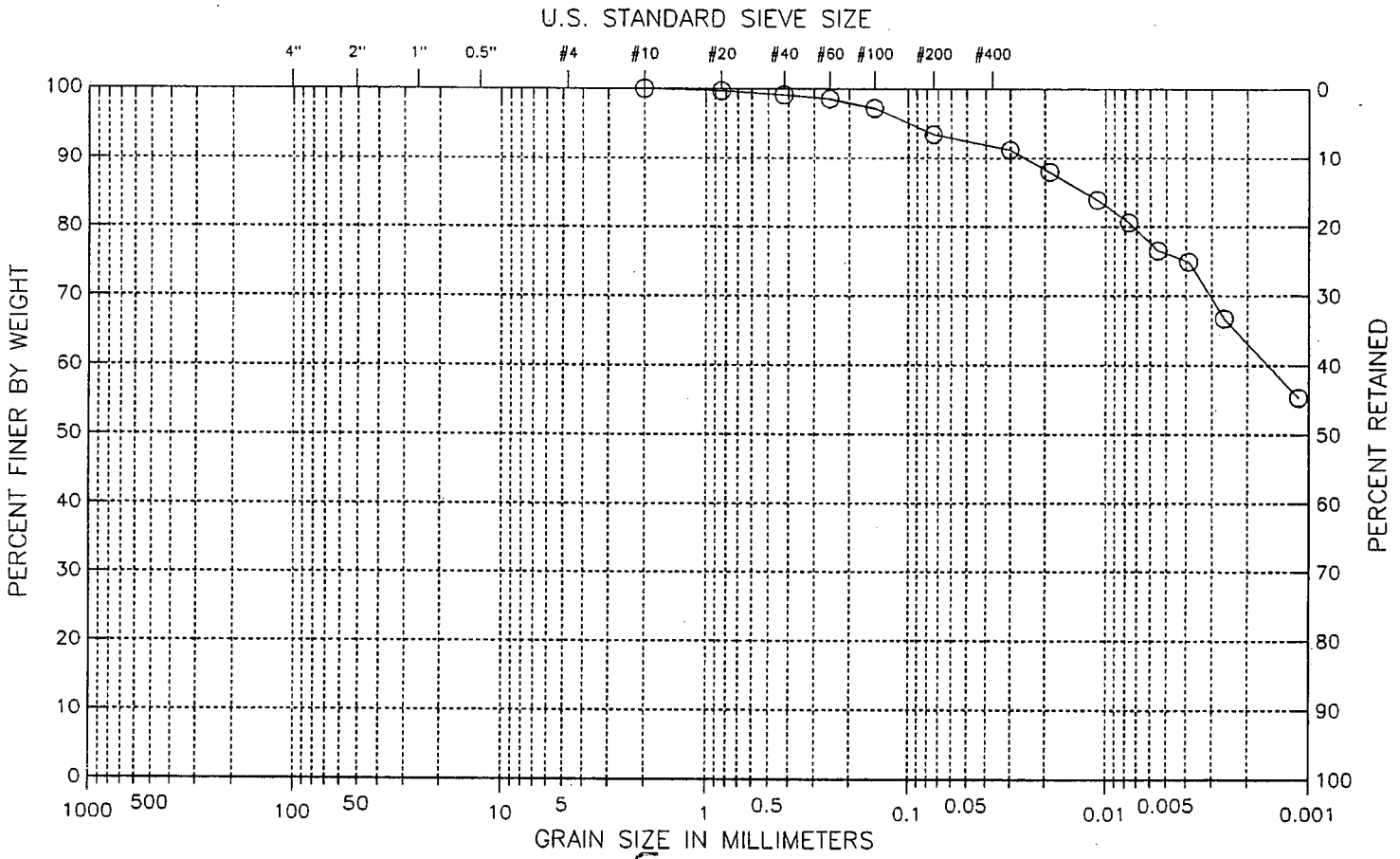
Remarks :
S.G. assumed at 2.75

JW 11/30/01

Figure 1

GeoTesting Express, Inc. • Alpharetta, GA • (770) 645-6575 • www.geotest.com

	Boring No. : ROLL#:00001934 Sample No.: 5947 Test Method ASTM D 422 Filename : 5947	Project : WEST PASCO LANDFILL Project No.: GTX-G0281 Location: Date : Fri Nov 30 2001



Classification :

Visual Description :
CLAYMAX 200R GCL

Remarks :
S.G. assumed at 2.75

SD 11/30/01

JW 11/30/01

Figure 1

GeoTesting Express, Inc. • Alpharetta, GA • (770) 645-6575 • www.geotest.com

GCL INDEX FLUX / PERMEABILITY TEST [1]

ASTM D5887 *

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	#598/29FA
Sample Number:	5957
Material Type:	CLAYMAX 200R GCL
Expected/Specified Value:	<1.0E-8 $m^3/m^2/s$
Date Received:	11/19/2001

Specimen	Specimen Final Conditions [2]		Test Conditions					Flux	Hydraulic
Number	Spec. Thickness (cm)	Spec. Diameter (cm)	Cell Press. (psi)	Back Press. (psi)	Consolid. Press. (psi)	Influent Press. (psi)	Permeant Liquid [3] (-)	(m^3/m^2)/s	Conductivity (cm/s)
1	0.68	10.41	80.0	75.0	5.0	77.0	DDI	5.0E-9	2.3E-9

Notes:

1. Method C, "Falling-Head, Increasing-Tailwater" test procedures were followed during the testing.
2. Values presented are the final dimensions of the clay component of GCL.
3. Type of permeant liquid: DTW = Deaired Tap Water, DDI = Deaired Deionized Water

* Deviations:
Laboratory temperature at 22±3 °C.

RT 11-30-01

JW 11/30/01

GCL INDEX FLUX / PERMEABILITY TEST [1]

ASTM D5887 *

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	#1053/32FA
Sample Number:	5961
Material Type:	CLAYMAX 200R GCL
Expected/Specified Value:	<1.0E-8 $m^3/m^2/s$
Date Received:	11/19/2001

Specimen	Specimen Final Conditions [2]		Test Conditions					Flux	Hydraulic
Number	Spec. Thickness (cm)	Spec. Diameter (cm)	Cell Press. (psi)	Back Press. (psi)	Consolid. Press. (psi)	Influent Press. (psi)	Permeant Liquid [3] (-)	(m^3/m^2)/s	Conductivity (cm/s)
1	0.55	10.46	80.0	75.0	5.0	77.0	DDI	6.1E-9	2.3E-9

Notes:

1. Method C, "Falling-Head, Increasing-Tailwater" test procedures were followed during the testing.
2. Values presented are the final dimensions of the clay component of GCL.
3. Type of permeant liquid: DTW = Deaired Tap Water, DDI = Deaired Deionized Water

* Deviations:
Laboratory temperature at 22±3 °C.

FT 11-30-01

JW 11/30/01

GCL INDEX FLUX / PERMEABILITY TEST [1]

ASTM D5887 *

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	#1058/38FA
Sample Number:	5960
Material Type:	CLAYMAX 200R GCL
Expected/Specified Value:	<1.0E-8 $m^3/m^2/s$
Date Received:	11/19/2001

Specimen	Specimen Final Conditions [2]		Test Conditions					Flux	Hydraulic
Number	Spec. Thickness (cm)	Spec. Diameter (cm)	Cell Press. (psi)	Back Press. (psi)	Consolid. Press. (psi)	Influent Press. (psi)	Permeant Liquid [3] (-)	(m^3/m^2)/s	Conductivity (cm/s)
1	0.46	10.25	80.0	75.0	5.0	77.0	DDI	7.1E-9	2.3E-9

Notes:

1. Method C, "Falling-Head, Increasing-Tailwater" test procedures were followed during the testing.
2. Values presented are the final dimensions of the clay component of GCL.
3. Type of permeant liquid: DTW = Deaired Tap Water, DDI = Deaired Deionized Water

* Deviations:
Laboratory temperature at 22±3 °C.

JT 11-30-01

JW 11/30/01

GCL INDEX FLUX / PERMEABILITY TEST [1]

ASTM D5887 *

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	#1070/40FA
Sample Number:	5959
Material Type:	CLAYMAX 200R GCL
Expected/Specified Value:	<1.0E-8 $m^3/m^2/s$
Date Received:	11/19/2001

Specimen	Specimen Final Conditions [2]		Test Conditions					Flux	Hydraulic
Number	Spec. Thickness (cm)	Spec. Diameter (cm)	Cell Press. (psi)	Back Press. (psi)	Consolid. Press. (psi)	Influent Press. (psi)	Permeant Liquid [3] (-)	(m^3/m^2)/s	Conductivity (cm/s)
1	0.59	10.29	80.0	75.0	5.0	77.0	DDI	7.5E-9	3.1E-9

Notes:

1. Method C, "Falling-Head, Increasing-Tailwater" test procedures were followed during the testing.
2. Values presented are the final dimensions of the clay component of GCL.
3. Type of permeant liquid: DTW = Deaired Tap Water, DDI = Deaired Deionized Water

* Deviations:
Laboratory temperature at 22±3 °C.

JT 11-30-01

JW 11/30/01

GCL INDEX FLUX / PERMEABILITY TEST [1]

ASTM D5887 *

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	#1206/41FA
Sample Number:	5956
Material Type:	CLAYMAX 200R GCL
Expected/Specified Value:	<1.0E-8 $m^3/m^2/s$
Date Received:	11/19/2001

Specimen	Specimen Final Conditions [2]		Test Conditions					Flux	Hydraulic
Number	Spec. Thickness (cm)	Spec. Diameter (cm)	Cell Press. (psi)	Back Press. (psi)	Consolid. Press. (psi)	Influent Press. (psi)	Permeant Liquid [3] (-)	(m^3/m^2)/s	Conductivity (cm/s)
1	0.48	10.33	80.0	75.0	5.0	77.0	DDI	6.5E-9	2.2E-9

Notes:

1. Method C, "Falling-Head, Increasing-Tailwater" test procedures were followed during the testing.
2. Values presented are the final dimensions of the clay component of GCL.
3. Type of permeant liquid: DTW = Deaired Tap Water, DDI = Deaired Deionized Water

* Deviations:
Laboratory temperature at 22±3 °C.

JT 11-30-01

JW 11/30/01

GCL INDEX FLUX / PERMEABILITY TEST [1]

ASTM D5887 *

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	00001568/42FA
Sample Number:	5945
Material Type:	CLAYMAX 200R GCL
Expected/Specified Value:	<1.0E-8 $m^3/m^2/s$
Date Received:	11/16/2001

Specimen	Specimen Final Conditions [2]		Test Conditions					Flux	Hydraulic
Number	Spec. Thickness (cm)	Spec. Diameter (cm)	Cell Press. (psi)	Back Press. (psi)	Consolid. Press. (psi)	Influent Press. (psi)	Permeant Liquid [3] (-)	$(m^3/m^2)/s$	Conductivity (cm/s)
1	0.58	10.30	80.0	75.0	5.0	77.0	DDI	5.2E-9	2.1E-9

Notes:

1. Method C, "Falling-Head, Increasing-Tailwater" test procedures were followed during the testing.
2. Values presented are the final dimensions of the clay component of GCL.
3. Type of permeant liquid: DTW = Deaired Tap Water, DDI = Deaired Deionized Water

* Deviations:
Laboratory temperature at 22±3 °C.

RT 11-30-01

JW 11/30/01

GCL INDEX FLUX / PERMEABILITY TEST [1]

ASTM D5887 *

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	#1666/44FA
Sample Number:	5958
Material Type:	CLAYMAX 200R GCL
Expected/Specified Value:	<1.0E-8 $m^3/m^2/s$
Date Received:	11/19/2001

Specimen Number	Specimen Final Conditions [2]		Test Conditions					Flux	Hydraulic Conductivity
	Spec. Thickness (cm)	Spec. Diameter (cm)	Cell Press. (psi)	Back Press. (psi)	Consolid. Press. (psi)	Influent Press. (psi)	Permeant Liquid [3] (-)	$(m^3/m^2)/s$	(cm/s)
1	0.50	10.13	80.0	75.0	5.0	77.0	DDI	5.6E-9	2.1E-9

Notes:

1. Method C, "Falling-Head, Increasing-Tailwater" test procedures were followed during the testing.
2. Values presented are the final dimensions of the clay component of GCL.
3. Type of permeant liquid: DTW = Deaired Tap Water, DDI = Deaired Deionized Water

* Deviations:
Laboratory temperature at 22±3 °C.

RT 11-30-01

JW 11/30/01

GCL INDEX FLUX / PERMEABILITY TEST [1]

ASTM D5887 *

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	00001934/44L0
Sample Number:	5947
Material Type:	CLAYMAX 200R GCL
Expected/Specified Value:	<1.0E-8 $m^3/m^2/s$
Date Received:	11/16/2001

Specimen	Specimen Final Conditions [2]		Test Conditions					Flux	Hydraulic
Number	Spec. Thickness (cm)	Spec. Diameter (cm)	Cell Press. (psi)	Back Press. (psi)	Consolid. Press. (psi)	Influent Press. (psi)	Permeant Liquid [3] (-)	(m^3/m^2)/s	Conductivity (cm/s)
1	0.57	10.46	80.0	75.0	5.0	77.0	DDI	4.2E-9	1.6E-9

Notes:

1. Method C, "Falling-Head, Increasing-Tailwater" test procedures were followed during the testing.
2. Values presented are the final dimensions of the clay component of GCL.
3. Type of permeant liquid: DTW = Deaired Tap Water, DDI = Deaired Deionized Water

* Deviations:
Laboratory temperature at 22±3 °C.

11-30-01

JW 11/30/01

GCL GRAB PEEL STRENGTH

ASTM D4632 Modified [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00000598 / 29FA
Sample Number:	5957
Material Type:	CLAYMAX 200R GCL
Expected/Specified Value:	
Date Received:	11/19/01

Specimen Number	Grab Peel Strength			
	Roll Direction		Cross-Roll Direction	
	(lb)	(N)	(lb)	(N)
1	0.7	3.1	1.1	4.9
2	0.7	3.1	0.8	3.6
3	0.7	3.1	0.6	2.7
4	0.9	4.0	0.9	4.0
5	0.8	3.6	0.6	2.7
Avg.	0.8	3.4	0.8	3.6
S.D.	0.1	0.4	0.2	0.9

Notes:

Initial Grip Separation: 2 in.

Test Speed : 12 in./min.

Tests are continued for a minimum of 3 in. peel; and maximum recorded grab peel strength values are reported.

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

JW 11/30/01

GCL GRAB PEEL STRENGTH

ASTM D4632 Modified [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00001053 / 32FA
Sample Number:	5961
Material Type:	CLAYMAX 200R GCL
Expected/Specified Value:	
Date Received:	11/19/01

Specimen Number	Grab Peel Strength			
	Roll Direction		Cross-Roll Direction	
	(lb)	(N)	(lb)	(N)
1	1.3	5.8	0.8	3.6
2	1.1	4.9	0.7	3.1
3	0.9	4.0	0.8	3.6
4	1.0	4.4	0.8	3.6
5	0.9	4.0	0.7	3.1
Avg.	1.0	4.6	0.8	3.4
S.D.	0.2	0.7	0.1	0.2

Notes:

Initial Grip Separation: 2 in.

Test Speed : 12 in./min.

Tests are continued for a minimum of 3 in. peel; and maximum recorded grab peel strength values are reported.

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

JW 11/30/01

GCL GRAB PEEL STRENGTH

ASTM D4632 Modified [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00001070 / 40FA
Sample Number:	5959
Material Type:	CLAYMAX 200R GCL
Expected/Specified Value:	
Date Received:	11/19/01

Specimen Number	Grab Peel Strength			
	Roll Direction		Cross-Roll Direction	
	(lb)	(N)	(lb)	(N)
1	0.7	3.1	0.7	3.1
2	0.6	2.7	0.8	3.6
3	0.6	2.7	0.7	3.1
4	0.6	2.7	0.8	3.6
5	0.6	2.7	0.9	4.0
Avg.	0.6	2.8	0.8	3.5
S.D.	0.0	0.2	0.1	0.4

Notes:

Initial Grip Separation: 2 in.

Test Speed : 12 in./min.

Tests are continued for a minimum of 3 in. peel; and maximum recorded grab peel strength values are reported.

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

JW 11/30/01

GCL GRAB PEEL STRENGTH

ASTM D4632 Modified [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00001206 / 41FA
Sample Number:	5956
Material Type:	CLAYMAX 200R GCL
Expected/Specified Value:	
Date Received:	11/19/01

Specimen Number	Grab Peel Strength			
	Roll Direction		Cross-Roll Direction	
	(lb)	(N)	(lb)	(N)
1	0.6	2.7	0.6	2.7
2	0.6	2.7	0.7	3.1
3	0.5	2.2	0.5	2.2
4	0.7	3.1	0.6	2.7
5	0.7	3.1	0.7	3.1
Avg.	0.6	2.8	0.6	2.8
S.D.	0.1	0.4	0.1	0.4

Notes:

Initial Grip Separation: 2 in.

Test Speed : 12 in./min.

Tests are continued for a minimum of 3 in. peel; and maximum recorded grab peel strength values are reported.

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

JW 11/30/01

GCL GRAB PEEL STRENGTH

ASTM D4632 Modified [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00001568 / 42FA
Sample Number:	5945
Material Type:	CLAYMAX 200R GCL
Expected/Specified Value:	
Date Received:	11/16/01

Specimen Number	Grab Peel Strength			
	Roll Direction		Cross-Roll Direction	
	(lb)	(N)	(lb)	(N)
1	2.7	12.0	1.5	6.7
2	2.9	12.9	1.2	5.3
3	3.3	14.7	1.8	8.0
4	2.1	9.3	1.2	5.3
5	2.7	12.0	3.1	13.8
Avg.	2.7	12.2	1.8	7.8
S.D.	0.4	1.9	0.8	3.5

Notes:

Initial Grip Separation: 2 in.

Test Speed : 12 in./min.

Tests are continued for a minimum of 3 in. peel; and maximum recorded grab peel strength values are reported.

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

JW 1/30/01

GCL GRAB PEEL STRENGTH

ASTM D4632 Modified [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00001934 / 44LO
Sample Number:	5947
Material Type:	CLAYMAX 200R GCL
Expected/Specified Value:	
Date Received:	11/16/01

Specimen Number	Grab Peel Strength			
	Roll Direction		Cross-Roll Direction	
	(lb)	(N)	(lb)	(N)
1	1.3	5.8	2.3	10.2
2	1.1	4.9	1.5	6.7
3	1.0	4.4	1.2	5.3
4	2.1	9.3	1.3	5.8
5	3.1	13.8	2.2	9.8
Avg.	1.7	7.7	1.7	7.6
S.D.	0.9	3.9	0.5	2.3

Notes:

Initial Grip Separation: 2 in.

Test Speed : 12 in./min.

Tests are continued for a minimum of 3 in. peel; and maximum recorded grab peel strength values are reported.

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

JW 11/30/01

GCL MASS PER UNIT AREA

ASTM D5993 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00000598 / 29FA
Sample Number:	5957
Material Type:	CLAYMAX 200R GCL
Expected/Specified Value:	0.75 lb/sf
Date Received:	11/19/01

Spec. #	Mass Per Unit Area								Moisture Content of Clay Component
	As Received GCL		Dried GCL		Assumed Synthetic Components		Dried Clay Component		
	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(%)
1	7139	1.46	4729	0.97			4634	0.95	52.0
2	6834	1.40	4745	0.97			4650	0.95	44.9
3	7243	1.48	4833	0.99	95	0.02	4738	0.97	50.9
4	7213	1.48	4975	1.02			4880	1.00	45.9
5	7185	1.47	4784	0.98			4689	0.96	51.2
Avg.	7123	1.46	4813	0.99			4718	0.97	49.0
S.D.	166	0.03	99	0.02			99	0.02	3.3

Notes:

Test specimens are obtained utilizing a die of 3"x 6".

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

JW 11/30/01

GCL MASS PER UNIT AREA

ASTM D5993 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00001053 / 32FA
Sample Number:	5961
Material Type:	CLAYMAX 200R GCL
Expected/Specified Value:	0.75 lb/sf
Date Received:	11/19/01

Spec. #	Mass Per Unit Area								Moisture Content of Clay Component
	As Received GCL		Dried GCL		Assumed Synthetic Components		Dried Clay Component		
	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(%)
1	6438	1.32	4447	0.91			4352	0.89	45.7
2	7161	1.47	4945	1.01			4851	0.99	45.7
3	6904	1.41	4871	1.00	95	0.02	4776	0.98	42.6
4	7960	1.63	5529	1.13			5434	1.11	44.7
5	7319	1.50	4983	1.02			4888	1.00	47.8
Avg.	7156	1.47	4955	1.01			4860	1.00	45.3
S.D.	560	0.11	386	0.08			386	0.08	1.9

Notes:

Test specimens are obtained utilizing a die of 3"x 6".

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

JW 11/30/01

GCL MASS PER UNIT AREA

ASTM D5993 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 1058 / 38FA
Sample Number:	5960
Material Type:	Claymax 200R GCL
Expected/Specified Value:	0.75 lb/sf
Date Received:	11/16/01

Spec. #	Mass Per Unit Area								Moisture Content of Clay Component
	As Received GCL		Dried GCL		Assumed Synthetic Components		Dried Clay Component		
	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(%)
1	6423	1.32	4597	0.94			4503	0.92	40.5
2	6779	1.39	5061	1.04			4966	1.02	34.6
3	6333	1.30	4494	0.92	95	0.02	4399	0.90	41.8
4	6133	1.26	4284	0.88			4189	0.86	44.1
5	6489	1.33	4634	0.95			4540	0.93	40.9
Avg.	6431	1.32	4614	0.95			4519	0.93	40.4
S.D.	236	0.05	284	0.06			284	0.06	3.5

Notes:

Test specimens are obtained utilizing a die of 3"x 6".

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

SS 11-30-01

JW 11/30/01

GCL MASS PER UNIT AREA

ASTM D5993 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00001070 / 40FA
Sample Number:	5959
Material Type:	CLAYMAX 200R GCL
Expected/Specified Value:	0.75 lb/sf
Date Received:	11/19/01

Spec. #	Mass Per Unit Area								Moisture Content of Clay Component
	As Received GCL		Dried GCL		Assumed Synthetic Components		Dried Clay Component		
	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(%)
1	5352	1.10	4224	0.87	95	0.02	4129	0.85	27.3
2	5666	1.16	4378	0.90			4283	0.88	30.1
3	5750	1.18	4241	0.87			4146	0.85	36.4
4	6147	1.26	4508	0.92			4413	0.90	37.2
5	5619	1.15	4322	0.89			4227	0.87	30.7
Avg.	5707	1.17	4334	0.89			4240	0.87	32.3
S.D.	288	0.06	115	0.02			115	0.02	4.3

Notes:

Test specimens are obtained utilizing a die of 3"x 6".

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

JW 11/30/01

GCL MASS PER UNIT AREA

ASTM D5993 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00001206 / 41FA
Sample Number:	5956
Material Type:	CLAYMAX 200R GCL
Expected/Specified Value:	0.75 lb/sf
Date Received:	11/19/01

Spec. #	Mass Per Unit Area								Moisture Content of Clay Component
	As Received GCL		Dried GCL		Assumed Synthetic Components		Dried Clay Component		
	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(%)
1	5701	1.17	4397	0.90	95	0.02	4302	0.88	30.3
2	6354	1.30	4777	0.98			4683	0.96	33.7
3	5699	1.17	4245	0.87			4150	0.85	35.0
4	5694	1.17	4203	0.86			4108	0.84	36.3
5	5683	1.16	4148	0.85			4053	0.83	37.9
Avg.	5826	1.19	4354	0.89			4259	0.87	34.6
S.D.	295	0.06	254	0.05			254	0.05	2.9

Notes:

Test specimens are obtained utilizing a die of 3"x 6".

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

JW 11/30/01

GCL MASS PER UNIT AREA

ASTM D5993 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00001568 / 42FA
Sample Number:	5945
Material Type:	CLAYMAX 200R GCL
Expected/Specified Value:	0.75 lb/sf
Date Received:	11/16/01

Spec. #	Mass Per Unit Area								Moisture Content of Clay Component
	As Received GCL		Dried GCL		Assumed Synthetic Components		Dried Clay Component		
	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(%)
1	5775	1.18	4064	0.83			3969	0.81	43.1
2	6358	1.30	4562	0.93			4467	0.91	40.2
3	6503	1.33	4594	0.94	95	0.02	4499	0.92	42.4
4	6125	1.25	4234	0.87			4139	0.85	45.7
5	5969	1.22	4289	0.88			4194	0.86	40.1
Avg.	6146	1.26	4349	0.89			4254	0.87	42.3
S.D.	292	0.06	226	0.05			226	0.05	2.3

Notes:

Test specimens are obtained utilizing a die of 3"x 6".

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

JW 11/30/01

GCL MASS PER UNIT AREA

ASTM D5993 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 1666 / 44FA
Sample Number:	5958
Material Type:	Claymax 200R
Expected/Specified Value:	0.75 lb/sf
Date Received:	11/16/01

Spec. #	Mass Per Unit Area								Moisture Content of Clay Component
	As Received GCL		Dried GCL		Assumed Synthetic Components		Dried Clay Component		
	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(%)
1	6153	1.26	4486	0.92			4392	0.90	38.0
2	6380	1.31	4579	0.94			4485	0.92	40.2
3	5925	1.21	4361	0.89	95	0.02	4266	0.87	36.7
4	5908	1.21	4262	0.87			4168	0.85	39.5
5	6026	1.23	4446	0.91			4351	0.89	36.3
Avg.	6079	1.25	4427	0.91			4332	0.89	38.1
S.D.	195	0.04	121	0.02			121	0.02	1.7

Notes:

Test specimens are obtained utilizing a die of 3"x 6".

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

SS 11-30-01

JW 11/30/01

GCL MASS PER UNIT AREA

ASTM D5993 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00001934 / 44LO
Sample Number:	5947
Material Type:	CLAYMAX 200R GCL
Expected/Specified Value:	0.75 lb/sf
Date Received:	11/16/01

Spec. #	Mass Per Unit Area								Moisture Content of Clay Component
	As Received GCL		Dried GCL		Assumed Synthetic Components		Dried Clay Component		
	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(g/m^2)	(lb/ft^2)	(%)
1	6177	1.27	5154	1.06			5059	1.04	20.2
2	6101	1.25	4998	1.02			4903	1.00	22.5
3	6048	1.24	4895	1.00	95	0.02	4800	0.98	24.0
4	6035	1.24	4887	1.00			4792	0.98	24.0
5	5700	1.17	4770	0.98			4675	0.96	19.9
Avg.	6012	1.23	4940	1.01			4846	0.99	22.1
S.D.	183	0.04	144	0.03			144	0.03	2.0

Notes:

Test specimens are obtained utilizing a die of 3"x 6".

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

JW 11/30/01

GRAB BREAKING LOAD AND ELONGATION OF GEOTEXTILES

ASTM D4632 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00000598 / 29FA
Sample Number:	5957
Material Type:	CLAYMAX 200R GCL
Expected/Specified Value:	90 lbs
Date Received:	11/19/01

Specimen	Grab Breaking Load				Apparent Breaking Elongation	
	RD		XD		RD	XD
Number	(lb)	(N)	(lb)	(N)	(%)	(%)
1	150.8	670.8	118.7	528.0	18.7	38.7
2	150.6	669.9	119.6	532.0	20.7	42.0
3	140.0	622.8	146.5	651.7	29.3	54.3
4	140.2	623.6	126.2	561.4	25.3	53.7
5	142.1	632.1	125.1	556.5	25.7	66.3
6	149.8	666.3	115.9	515.4	21.3	44.0
7	176.2	783.8	117.8	524.0	27.7	49.3
8	147.1	654.3	145.2	645.9	19.0	48.0
9	172.0	765.1	111.0	493.8	27.3	52.0
10	137.1	609.9	107.1	476.4	25.7	47.7
Avg.	150.6	669.9	123.3	548.5	24.1	49.6
S.D.	13.3	59.3	13.2	58.6	3.8	7.7

Notes:

RD Roll Direction
XD Cross - Roll Direction

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

JW 11/30/01

GRAB BREAKING LOAD AND ELONGATION OF GEOTEXTILES

ASTM D4632 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00001053 / 32FA
Sample Number:	5961
Material Type:	CLAYMAX 200R GCL
Expected/Specified Value:	90 lbs
Date Received:	11/19/01

Specimen	Grab Breaking Load				Apparent Breaking Elongation	
	RD		XD		RD	XD
Number	(lb)	(N)	(lb)	(N)	(%)	(%)
1	192.6	856.7	108.8	484.0	32.7	53.0
2	142.2	632.5	107.8	479.3	30.3	47.7
3	145.7	648.1	115.5	513.8	36.0	58.0
4	138.6	616.5	110.8	492.9	26.3	52.7
5	146.6	652.1	112.2	499.1	27.3	68.3
6	178.5	794.0	103.2	459.1	36.7	44.0
7	144.5	642.8	103.5	460.4	30.3	66.3
8	125.1	556.5	101.8	452.8	22.3	64.3
9	137.5	611.6	108.1	480.9	33.3	54.3
10	129.6	576.5	116.7	519.1	34.7	57.3
Avg.	148.1	658.7	108.8	484.1	31.0	56.6
S.D.	21.2	94.2	5.1	22.6	4.6	7.9

Notes:

RD Roll Direction
XD Cross - Roll Direction

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

JW 11/30/01

GRAB BREAKING LOAD AND ELONGATION OF GEOTEXTILES

ASTM D4632 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00001070 / 40FA
Sample Number:	5959
Material Type:	CLAYMAX 200R GCL
Expected/Specified Value:	90 lbs
Date Received:	11/19/01

Specimen	Grab Breaking Load				Apparent Breaking Elongation	
	RD		XD		RD	XD
Number	(lb)	(N)	(lb)	(N)	(%)	(%)
1	181.7	808.2	117.8	524.0	27.0	52.3
2	135.8	604.1	115.3	512.9	28.0	64.0
3	160.7	714.8	120.8	537.3	33.0	61.7
4	155.8	693.0	151.1	672.1	29.0	68.3
5	202.2	899.4	122.7	545.8	25.3	50.3
6	125.8	559.6	142.4	633.4	18.3	60.7
7	128.8	572.9	138.2	614.7	25.7	54.0
8	167.1	743.3	119.8	532.9	28.3	59.0
9	168.3	748.6	133.5	593.8	22.7	52.0
10	146.6	652.1	119.4	531.1	23.7	56.3
Avg.	157.3	699.6	128.1	569.8	26.1	57.9
S.D.	24.1	107.2	12.3	54.7	4.0	5.9

Notes:

RD Roll Direction
XD Cross - Roll Direction

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

JW 11/30/01

GRAB BREAKING LOAD AND ELONGATION OF GEOTEXTILES

ASTM D4632 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00001206 / 41FA
Sample Number:	5956
Material Type:	CLAYMAX 200R GCL
Expected/Specified Value:	90 lbs
Date Received:	11/19/01

Specimen	Grab Breaking Load				Apparent Breaking Elongation	
	RD		XD		RD	XD
Number	(lb)	(N)	(lb)	(N)	(%)	(%)
1	143.3	637.4	97.3	432.6	24.3	57.3
2	150.5	669.5	113.0	502.6	23.7	53.0
3	132.1	587.6	100.1	445.3	16.7	53.0
4	152.5	678.4	99.2	441.3	24.3	51.7
5	166.5	740.6	106.2	472.4	25.0	57.3
6	157.0	698.4	93.5	415.9	29.0	60.3
7	137.3	610.7	110.5	491.5	24.0	57.3
8	155.2	690.4	115.1	512.0	18.7	55.3
9	145.6	647.7	112.2	499.1	21.3	53.3
10	152.4	677.9	98.6	438.6	24.0	50.7
Avg.	149.2	663.9	104.6	465.1	23.1	54.9
S.D.	10.0	44.5	7.7	34.4	3.5	3.1

Notes:

RD Roll Direction
XD Cross - Roll Direction

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

JW 11/30/01

GRAB BREAKING LOAD AND ELONGATION OF GEOTEXTILES

ASTM D4632 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00001568 / 42FA
Sample Number:	5945
Material Type:	CLAYMAX 200R GCL
Expected/Specified Value:	90 lbs
Date Received:	11/16/01

Specimen	Grab Breaking Load				Apparent Breaking Elongation	
	RD		XD		RD	XD
Number	(lb)	(N)	(lb)	(N)	(%)	(%)
1	192.2	854.9	114.8	510.7	28.7	60.0
2	150.9	671.2	91.5	407.0	28.0	48.3
3	158.2	703.7	109.0	484.9	21.0	59.3
4	166.5	740.6	104.2	463.5	25.3	52.0
5	168.2	748.2	98.8	439.3	19.7	59.0
6	139.7	621.4	110.3	490.6	18.7	51.7
7	161.2	717.1	118.2	525.8	25.7	51.7
8	106.1	472.0	102.7	456.8	14.3	60.3
9	172.8	768.7	95.3	423.9	26.0	57.3
10	114.1	507.5	105.9	471.1	15.0	52.0
Avg.	153.0	680.5	105.1	467.4	22.2	55.2
S.D.	26.5	118.0	8.4	37.4	5.2	4.4

Notes:

RD Roll Direction
XD Cross - Roll Direction

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

JW 11/30/01

GRAB BREAKING LOAD AND ELONGATION OF GEOTEXTILES

ASTM D4632 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00001934 / 44LO
Sample Number:	5947
Material Type:	CLAYMAX 200R GCL
Expected/Specified Value:	90 lbs
Date Received:	11/16/01

Specimen	Grab Breaking Load				Apparent Breaking Elongation	
	RD		XD		RD	XD
Number	(lb)	(N)	(lb)	(N)	(%)	(%)
1	120.0	533.8	167.3	744.2	16.7	60.7
2	184.2	819.4	132.6	589.8	23.7	53.3
3	121.2	539.1	114.3	508.4	15.0	41.0
4	171.2	761.5	94.5	420.4	27.0	40.3
5	151.6	674.4	160.2	712.6	21.3	62.3
6	163.4	726.8	135.0	600.5	17.7	46.7
7	131.5	584.9	139.2	619.2	16.7	47.7
8	189.7	843.8	128.2	570.3	28.0	41.3
9	151.2	672.6	107.7	479.1	21.3	46.0
10	185.1	823.4	102.5	455.9	27.3	40.3
Avg.	156.9	698.0	128.2	570.0	21.5	48.0
S.D.	26.3	116.8	23.9	106.4	4.9	8.2

Notes:

RD Roll Direction
XD Cross - Roll Direction

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

JW 11/30/01

PEEL STRENGTH / PLY ADHESION

ASTM D413 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00000598 / 29FA
Sample Number:	5957
Material Type:	CLAYMAX 200R GCL
Expected/Specified Value:	
Date Received:	11/19/01

Specimen No.	Bond Strength / Ply Adhesion							
	Roll Direction				Cross-Roll Direction			
	Top / Single Layer		Bottom Layer		Top / Single Layer		Bottom Layer	
	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)
1	80	0.5			125	0.7		
5	134	0.8			214	1.2		
3	143	0.8			241	1.4		
4	125	0.7			188	1.1		
5	214	1.2			286	1.6		
Avg.	139	0.8			211	1.2		
S.D.	48	0.3			60	0.3		

Notes:

Initial Grip Separation: 2 in.

Test Speed: 2 in./min.

Tests are continued for a minimum of 3 in. of peel; and maximum recorded peel strength values are reported.

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.
Test specimens are 2 in. in width and 8 in. in length. The grip width is 3 in.

JW 12/13/01

JW 12/13/01

PEEL STRENGTH / PLY ADHESION

ASTM D413 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00001053 / 32FA
Sample Number:	5961
Material Type:	CLAYMAX 200R GCL
Expected/Specified Value:	
Date Received:	11/19/01

Specimen No.	Bond Strength / Ply Adhesion							
	Roll Direction				Cross-Roll Direction			
	Top / Single Layer		Bottom Layer		Top / Single Layer		Bottom Layer	
	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)
1	116	0.7			170	1.0		
5	80	0.5			116	0.7		
3	89	0.5			107	0.6		
4	80	0.5			107	0.6		
5	71	0.4			134	0.8		
Avg.	88	0.5			127	0.7		
S.D.	17	0.1			26	0.1		

Notes:

Initial Grip Separation: 2 in.

Test Speed: 2 in./min.

Tests are continued for a minimum of 3 in. of peel; and maximum recorded peel strength values are reported.

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.
Test specimens are 2 in. in width and 8 in. in length. The grip width is 3 in.

JW 12/13/01

12.13.01

PEEL STRENGTH / PLY ADHESION

ASTM D413 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00001070 / 40FA
Sample Number:	5959
Material Type:	CLAYMAX 200R GCL
Expected/Specified Value:	
Date Received:	11/19/01

Specimen No.	Bond Strength / Ply Adhesion							
	Roll Direction				Cross-Roll Direction			
	Top / Single Layer		Bottom Layer		Top / Single Layer		Bottom Layer	
	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)
1	179	1.0			71	0.4		
5	89	0.5			80	0.5		
3	134	0.8			71	0.4		
4	98	0.6			54	0.3		
5	80	0.5			107	0.6		
Avg.	116	0.7			77	0.4		
S.D.	40	0.2			20	0.1		

Notes:

Initial Grip Separation: 2 in.

Test Speed: 2 in./min.

Tests are continued for a minimum of 3 in. of peel; and maximum recorded peel strength values are reported.

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.
Test specimens are 2 in. in width and 8 in. in length. The grip width is 3 in.

JW 12/13/01

DM 12.13.01

PEEL STRENGTH / PLY ADHESION

ASTM D413 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00001206 / 41FA
Sample Number:	5956
Material Type:	CLAYMAX 200R GCL
Expected/Specified Value:	
Date Received:	11/19/01

Specimen No.	Bond Strength / Ply Adhesion							
	Roll Direction				Cross-Roll Direction			
	Top / Single Layer		Bottom Layer		Top / Single Layer		Bottom Layer	
	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)
1	161	0.9			161	0.9		
5	125	0.7			179	1.0		
3	250	1.4			223	1.3		
4	89	0.5			80	0.5		
5	143	0.8			205	1.2		
Avg.	154	0.9			170	1.0		
S.D.	60	0.3			55	0.3		

Notes:

Initial Grip Separation: 2 in.

Test Speed: 2 in./min.

Tests are continued for a minimum of 3 in. of peel; and maximum recorded peel strength values are reported.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

Test specimens are 2 in. in width and 8 in. in length. The grip width is 3 in.

JW 12/13/01

JW 12-13-01

PEEL STRENGTH / PLY ADHESION

ASTM D413 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00001568 / 42FA
Sample Number:	5945
Material Type:	CLAYMAX 200R GCL
Expected/Specified Value:	
Date Received:	11/16/01

Specimen No.	Bond Strength / Ply Adhesion							
	Roll Direction				Cross-Roll Direction			
	Top / Single Layer		Bottom Layer		Top / Single Layer		Bottom Layer	
	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)
1	63	0.4			89	0.5		
5	89	0.5			125	0.7		
3	76	0.4			80	0.5		
4	63	0.4			94	0.5		
5	94	0.5			85	0.5		
Avg.	77	0.4			95	0.5		
S.D.	15	0.1			18	0.1		

Notes:

Initial Grip Separation: 2 in.

Test Speed: 2 in./min.

Tests are continued for a minimum of 3 in. of peel; and maximum recorded peel strength values are reported.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

Test specimens are 2 in. in width and 8 in. in length. The grip width is 3 in.

JW 12/03/01

PEEL STRENGTH / PLY ADHESION

ASTM D413 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 00001934 / 44LO
Sample Number:	5947
Material Type:	CLAYMAX 200R GCL
Expected/Specified Value:	
Date Received:	11/16/01

Specimen No.	Bond Strength / Ply Adhesion							
	Roll Direction				Cross-Roll Direction			
	Top / Single Layer		Bottom Layer		Top / Single Layer		Bottom Layer	
	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)
1	125	0.7			170	1.0		
5	138	0.8			107	0.6		
3	76	0.4			71	0.4		
4	121	0.7			138	0.8		
5	94	0.5			161	0.9		
Avg.	111	0.6			129	0.7		
S.D.	25	0.1			40	0.2		

Notes:

Initial Grip Separation: 2 in.

Test Speed: 2 in./min.

Tests are continued for a minimum of 3 in. of peel; and maximum recorded peel strength values are reported.

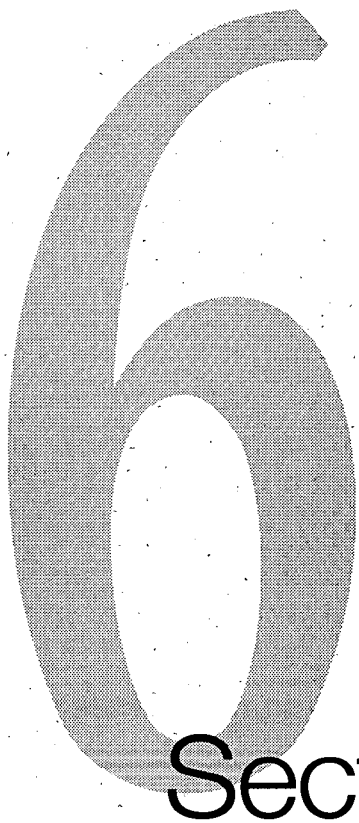
(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

Test specimens are 2 in. in width and 8 in. in length. The grip width is 3 in.

JW 12/03/01



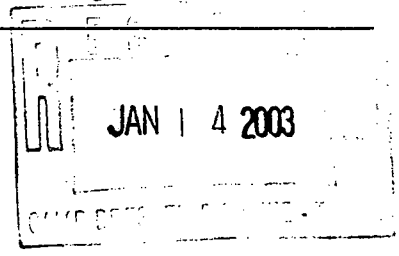
Section Six

COMANCO ENVIRONMENTAL CORPORATION
7911 Professional Place, Tampa, Florida 33637
Phone (813)988-8829 Fax (813)988-8779
www.comanco.net

2003

TRANSMITTAL LETTER

Date:	January 14, 2003	From:	Pablo J. Rivera
Sent Via:	Federal Express Priority Overnight		Project Manager
Sent To:	Mr. Jack McHugh CDM 1715 North Westshore Blvd, #875 Tampa, Florida 33607 Phone: (813)281-2900 Fax: (813)288-8787	xc:	



Subject: West Pasco County Landfill Expansion CEC Project No. 010-848
Instructions: URGENT - REVIEW IMMEDIATELY

Message:

Dear Mr. McHugh,

Enclosed please find the hard copies of the 60 mil HDPE liner conformance sample test results that we received from Geotesting Express.

Please call me if you have any questions.

Best regards,

-Pablo

SAFETY	QUALITY	SERVICE
Landfill Construction and Closures	Gypsum Stack Construction and Expansions	Concrete Construction
Golf Courses and Decorative Ponds	Geomembrane and Geotextile Installation	Concrete Protective Liners
Primary and Secondary Containments	Geosynthetic Products and Services	Temporary Containment
Theme Park Waterproofing Systems	HDPE Pipe and Fittings	Chemical and Petrochemical
Vertical Barrier Systems	HDPE Concrete Embedment Products	Building Construction
Fabricated HDPE Products	Drainage Nets and Geocomposites	Geogrid Reinforcements

TENSILE PROPERTIES

ASTM D638 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107703
Sample Number:	5997
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	YIELD: 126 ppi; 12% AND BREAK: 90 ppi; 100%
Date Received:	11/26/01

Spec. #	Roll Direction											
	Thickness		Yield					Break				
			Tension		Stress		Elongation	Tension		Stress		Elongation
	(in)	(mm)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)
1	0.0640	1.63	192.4	33.7	3007	20.7	20.4	199.0	34.8	3109	21.4	500.9
2	0.0595	1.51	177.0	31.0	2975	20.5	19.4	214.5	37.6	3605	24.9	587.7
3	0.0615	1.56	185.4	32.5	3014	20.8	19.0	220.3	38.6	3582	24.7	587.7
4	0.0610	1.55	185.0	32.4	3032	20.9	20.5	207.5	36.3	3402	23.5	551.3
5	0.0620	1.57	182.1	31.9	2937	20.2	17.7	220.2	38.6	3551	24.5	598.0
Avg.			184.4	32.3	2993	20.6	19.4	212.3	37.2	3450	23.8	565.1
S.D.			5.6	1.0	37	0.3	1.1	9.1	1.6	206	1.4	40.1

Spec. #	Cross-Roll Direction											
	Thickness		Yield					Break				
			Tension		Stress		Elongation	Tension		Stress		Elongation
	(in)	(mm)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)
1	0.0610	1.55	192.9	33.8	3162	21.8	16.6	182.3	31.9	2989	20.6	469.3
2	0.0615	1.56	186.6	32.7	3034	20.9	17.2	141.9	24.9	2308	15.9	192.0
3	0.0585	1.49	185.8	32.5	3176	21.9	19.5	219.9	38.5	3759	25.9	619.5
4	0.0635	1.61	183.8	32.2	2894	20.0	15.4	148.5	26.0	2338	16.1	220.7
5	0.0640	1.63	185.0	32.4	2890	19.9	17.1	137.8	24.1	2153	14.8	349.1
Avg.			186.8	32.7	3031	20.9	17.1	166.1	29.1	2709	18.7	370.1
S.D.			3.6	0.6	139	1.0	1.5	34.8	6.1	669	4.6	177.8

Notes:

All tests are performed on Type IV specimens at a test speed of 2 in./min.

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.
Thickness measurements are performed in accordance with ASTM D5199 and D5994 for smooth and textured membranes, respectively.
Yield and break elongation values are calculated based on the total cross-head displacement using gauge length values of 33 mm (1.3 in.) and 50 mm (1.97 in.), respectively.
Modulus of elasticity values are not presented.

SO 2/12/02
IP 2/13/02

INITIAL TEAR RESISTANCE

ASTM D1004 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107703
Sample Number:	5997
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	42 lbs
Date Received:	11/26/01

Spec. #	Thickness				Tear Resistance				Tear Strength			
	RD		XD		RD		XD		RD		XD	
	(in)	(mm)	(in)	(mm)	(lb)	(N)	(lb)	(N)	(lb/in)	(N/mm)	(lb/in)	(N/mm)
1	0.0630	1.60	0.0615	1.56	60.7	269.9	53.2	236.6	963.0	168.6	865.0	151.5
2	0.0630	1.60	0.0615	1.56	58.5	260.2	48.4	215.3	928.6	162.6	787.0	137.8
3	0.0630	1.60	0.0595	1.51	55.9	248.7	59.2	263.3	887.3	155.4	995.0	174.2
4	0.0615	1.56	0.0605	1.54	60.3	268.2	53.0	235.8	980.5	171.7	876.0	153.4
5	0.0610	1.55	0.0610	1.55	55.5	246.9	54.6	242.9	909.8	159.3	895.1	156.8
6	0.0605	1.54	0.0600	1.52	51.0	226.9	55.8	248.2	843.0	147.6	930.0	162.9
7	0.0600	1.52	0.0610	1.55	54.4	242.0	54.3	241.5	906.7	158.8	890.2	155.9
8	0.0595	1.51	0.0620	1.57	53.4	237.5	53.4	237.5	897.5	157.2	861.3	150.8
9	0.0605	1.54	0.0650	1.65	51.8	230.4	57.8	257.1	856.2	149.9	889.2	155.7
10	0.0595	1.51	0.0630	1.60	52.0	231.3	56.7	252.2	873.9	153.1	900.0	157.6
Avg.	0.0612	1.55	0.0615	1.56	55.3	246.2	54.6	243.1	904.6	158.4	888.9	155.7
S.D.	0.0014	0.04	0.0016	0.04	3.5	15.6	3.0	13.4	43.7	7.7	52.7	9.2

Notes:

RD: Roll Direction
XD: Cross-Roll Direction

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.
Thickness measurements are performed in accordance with ASTM D5199 and D5994 for smooth and textured membranes, respectively.

JD 2/12/02
1D 2/13/02

DENSITY BY GRADIENT - COLUMN

ASTM D1505[1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107703
Sample Number:	5997
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	.94 g/cc
Date Received:	11/26/01

Specimen Number	Density @ 23°C (g/cc)
1	0.944
2	0.945
3	0.947
Avg.	0.945

Notes:

Due to the heavy texturing and /or potential air pockets trapped in the structure of the test material, the test specimens are reprocessed and formed utilizing a melt indexer at 190 °C.

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

TM 2/12/02
LH 2/13/02

CARBON BLACK CONTENT

ASTM D1603 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107703
Sample Number:	5997
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	2-3%
Date Received:	11/26/01

Specimen Number	Specimen Mass (g)	Crucible Mass (g)	Residue + Crucible Mass After Burning in N_2 (g)	Carbon Black Content (%)
1	0.2721	2.1597	2.1662	2.39
2	0.2876	2.2322	2.2393	2.47
Average				2.43

Notes:

(1) Deviations:
Each test specimen is 0.25±0.05 g.

SD 4/12/02
CP 2/13/02

CARBON BLACK DISPERSION

ASTM D5596

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107703
Sample Number:	5997
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	CAT 1, 2, OR 3
Date Received:	11/26/01

Specimen Designation	Random Field of View (Rf)	Classification of Carbon Black Dispersion (-)
1	1	Cat.-1
	2	Cat.-1
2	1	Cat.-1
	2	Cat.-1
3	1	Cat.-1
	2	Cat.-1
4	1	Cat.-1
	2	Cat.-1
5	1	Cat.-1
	2	Cat.-1

Notes:

TM 2/12/02

TH 2/13/02

THICKNESS

ASTM D5994 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0280
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107703
Sample Number:	5997
Material Type:	60 mil TEXTURED HDPE
Expected/Specified Value:	54 mil MINIMUM
Date Received:	11/26/01

Specimen Number	Thickness		
	(in)	(mil)	(mm)
1	0.0640	64.0	1.63
2	0.0595	59.5	1.51
3	0.0615	61.5	1.56
4	0.0610	61.0	1.55
5	0.0620	62.0	1.57
6	0.0610	61.0	1.55
7	0.0615	61.5	1.56
8	0.0585	58.5	1.49
9	0.0635	63.5	1.61
10	0.0590	59.0	1.50
Avg.	0.0612	61.2	1.55
S.D.	0.0018	1.8	0.05

Notes:

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

SB 2/14/02

LH 2/13/02

ASPERITY MEASUREMENT OF TEXTURED GEOMEMEBRANES

GRI-GM12

Project Name:	WEST PASCO COUNTY LANDFIIL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107703
Sample Number:	5997
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	MIN. 7 MILS
Date Received:	11/15/01

Specimen Number	Asperity Value (mils)
1	29
2	33
3	31
4	30
5	28
6	26
7	34
8	31
9	31
10	25
Average	30
S.D.	2.9

Note: _____

Tested By: JT Test Date: 1,24,02

Reviewed By: lb Review Date: 2/13/02

COMANCO ENVIRONMENTAL CORPORATION
7911 Professional Place, Tampa, Florida 33527
Phone (813)988-8829 Fax (813)988-3720

SUBMITTAL CONTROL FORM

Project: **WEST PASCO COUNTY LANDFILL EXPANSION - CELLS A-3 AND SW-2**

Owner:	Pasco County B.O.C.C.	Project No.	01-063	Project Manager:	John Powell
Engineer:	Camp Dresser & McKee	Project No.	6104-28936	Project Manager:	Daniel Strobridge, Q.E.P.
Contractor:	Handex of Florida, Inc.	Project No.	123477	Project Manager:	Gary L. Conaway, P.E.
Subcontractor:	COMANCO Environmental Corp.	Project No.	010-848	Project Manager:	Pablo J. Rivera

COMPLETED BY CONTRACTOR:

Certification Statement: By this submittal, I hereby represent that I have determined and verified all field measurements, field construction criteria, materials, dimensions, catalog numbers and similar data and I have checked and coordinated each item with other applicable approved shop drawings and all Contract requirements.

Signature: _____ Date: 12-19-01

Submittal Identifier:	D-02776-016-A	[X]	Original Submittal	[ ] Supplement
Submitted:	December 19, 2001			
No. of Copies:	8	[ ]	Resubmittal	[ ] Information Only

Submittal Description:	Conformance Test Results: GSE 60 mil HDPE Textured Liner
Specification Identifier:	01300, 02776 Section 2.03C
Manufacturer:	GSE Lining Technologies, Inc.
Installer:	COMANCO Environmental Corporation

COMPLETED BY ENGINEER:

No. of Copies Received: _____ No. of Copies Returned: _____

Status:

[ ]	Code 1 - Approved	[ ]	Code 4 - Approved As Noted, Resubmit
[ ]	Code 2 - Approved As Noted	[ ]	Code 5 - Not Approved
[ ]	Code 3 - Approved As Noted, Confirm	[ ]	Code 6 - Comments Attached

Engineer Stamp or Remarks Area:

SHOP DRAWING REVIEW

ENGINEER'S REVIEW	RESPONSE REQUIRED OF CONTRACTOR
Approved [X] Not Approved [ ] Approved as Noted [ ] Comments Attached [ ]	Confirm [ ] Resubmit [ ]

The Engineer's review of this shop drawing is limited to the review of dimensions, equipment and materials as presented in the Contract plans, specifications and for design concept. This review does not relieve the Contractor from errors or omissions in this submittal or from the Contractor's responsibility of addressing any deviations from the Contract Documents. The Contractor is responsible for the details and dimensions of fabrication and manufacture, the means, methods, techniques, sequences or procedures of construction and performing his work in a safe manner.
CAMP DRESSER & McKEE INC.

By AMS Date 12/30/01

West Pasco County Landfill Expansion Cells SW-2 and A-3
Installation of Geosynthetics
Materials Conformance Test Results Register

GSE 60 mil HDPE Textured Liner

60 mil HDPE Textured Liner	Thickness	Asperity Height	Density	Tensile Strength	Tear Resistance	Carbon Black Content	Carbon Black Dispersion
103109590	X	X	X	X	X	X	X
103909606	X	X	X	X	X	X	X
104108413	X	X	X	X	X	X	X
104108438	X	X	X	X	X	X	X
105107690	X	X	X	X	X	X	X
105107696	X	X	X	X	X	X	X
105107698	X	X	X	X	X	X	X
105107717	X	X	X	X	X	X	X
105107728	X	X	X	X	X	X	X
105107744	X	X	X	X	X	X	X
105107749	X	X	X	X	X	X	X
105107755	X	X	X	X	X	X	X
105107766	X	X	X	X	X	X	X
105107786	X	X	X	X	X	X	X
105107803	X	X	X	X	X	X	X

THICKNESS

ASTM D5994 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 103109590
Sample Number:	5901
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	54 mil MINIMUM
Date Received:	11/14/01

Specimen Number	Thickness		
	(in)	(mil)	(mm)
1	0.0655	65.5	1.66
2	0.0670	67.0	1.70
3	0.0640	64.0	1.63
4	0.0655	65.5	1.66
5	0.0610	61.0	1.55
6	0.0655	65.5	1.66
7	0.0630	63.0	1.60
8	0.0670	67.0	1.70
9	0.0625	62.5	1.59
10	0.0615	61.5	1.56
Avg.	0.0643	64.3	1.63
S.D.	0.0022	2.2	0.06

Notes:

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

JW 12/12/01

THICKNESS

ASTM D5994 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 103109606
Sample Number:	5992
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	54 mil MINIMUM
Date Received:	11/26/01

Specimen Number	Thickness		
	(in)	(mil)	(mm)
1	0.0635	63.5	1.61
2	0.0630	63.0	1.60
3	0.0655	65.5	1.66
4	0.0635	63.5	1.61
5	0.0655	65.5	1.66
6	0.0640	64.0	1.63
7	0.0625	62.5	1.59
8	0.0645	64.5	1.64
9	0.0645	64.5	1.64
10	0.0670	67.0	1.70
Avg.	0.0644	64.4	1.63
S.D.	0.0014	1.4	0.03

Notes:

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

12.12.01 JW 12/12/01

THICKNESS

ASTM D5994 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 104108413
Sample Number:	5905
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	54 mil MINIMUM
Date Received:	11/14/01

Specimen Number	Thickness		
	(in)	(mil)	(mm)
1	0.0575	57.5	1.46
2	0.0650	65.0	1.65
3	0.0590	59.0	1.50
4	0.0650	65.0	1.65
5	0.0630	63.0	1.60
6	0.0615	61.5	1.56
7	0.0605	60.5	1.54
8	0.0615	61.5	1.56
9	0.0625	62.5	1.59
10	0.0625	62.5	1.59
Avg.	0.0618	61.8	1.57
S.D.	0.0024	2.4	0.06

Notes:

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

JW 12/12/01

THICKNESS

ASTM D5994 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 104108438
Sample Number:	5906
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	54 mil MINIMUM
Date Received:	11/14/01

Specimen Number	Thickness		
	(in)	(mil)	(mm)
1	0.0650	65.0	1.65
2	0.0600	60.0	1.52
3	0.0625	62.5	1.59
4	0.0620	62.0	1.57
5	0.0585	58.5	1.49
6	0.0630	63.0	1.60
7	0.0605	60.5	1.54
8	0.0630	63.0	1.60
9	0.0605	60.5	1.54
10	0.0635	63.5	1.61
Avg.	0.0619	61.9	1.57
S.D.	0.0019	1.9	0.05

Notes:

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

JW 12/12/01

THICKNESS

ASTM D5994 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107690
Sample Number:	5908
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	54 mil MINIMUM
Date Received:	11/14/01

Specimen Number	Thickness		
	(in)	(mil)	(mm)
1	0.0630	63.0	1.60
2	0.0655	65.5	1.66
3	0.0620	62.0	1.57
4	0.0605	60.5	1.54
5	0.0615	61.5	1.56
6	0.0625	62.5	1.59
7	0.0590	59.0	1.50
8	0.0680	68.0	1.73
9	0.0660	66.0	1.68
10	0.0630	63.0	1.60
Avg.	0.0631	63.1	1.60
S.D.	0.0027	2.7	0.07

Notes:

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

JW 12/12/01

THICKNESS

ASTM D5994 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107696
Sample Number:	5995
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	54 mil MINIMUM
Date Received:	11/26/01

Specimen Number	Thickness		
	(in)	(mil)	(mm)
1	0.0650	65.0	1.65
2	0.0580	58.0	1.47
3	0.0615	61.5	1.56
4	0.0650	65.0	1.65
5	0.0615	61.5	1.56
6	0.0650	65.0	1.65
7	0.0605	60.5	1.54
8	0.0590	59.0	1.50
9	0.0635	63.5	1.61
10	0.0595	59.5	1.51
Avg.	0.0619	61.9	1.57
S.D.	0.0026	2.6	0.07

Notes:

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

12/12/01 JW 12/12/01

THICKNESS

ASTM D5994 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107698
Sample Number:	5996
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	54 mil MINIMUM
Date Received:	11/26/01

Specimen Number	Thickness		
	(in)	(mil)	(mm)
1	0.0620	62.0	1.57
2	0.0650	65.0	1.65
3	0.0580	58.0	1.47
4	0.0630	63.0	1.60
5	0.0600	60.0	1.52
6	0.0635	63.5	1.61
7	0.0575	57.5	1.46
8	0.0595	59.5	1.51
9	0.0610	61.0	1.55
10	0.0640	64.0	1.63
Avg.	0.0614	61.4	1.56
S.D.	0.0026	2.6	0.07

Notes:

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

12/01

JW 12/12/01

THICKNESS

ASTM D5994 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107717
Sample Number:	5999
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	54 mil MINIMUM
Date Received:	11/26/01

Specimen Number	Thickness		
	(in)	(mil)	(mm)
1	0.0610	61.0	1.55
2	0.0660	66.0	1.68
3	0.0640	64.0	1.63
4	0.0635	63.5	1.61
5	0.0615	61.5	1.56
6	0.0650	65.0	1.65
7	0.0645	64.5	1.64
8	0.0650	65.0	1.65
9	0.0680	68.0	1.73
10	0.0595	59.5	1.51
Avg.	0.0638	63.8	1.62
S.D.	0.0025	2.5	0.06

Notes:

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

JW 12/4/01

THICKNESS

ASTM D5994 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107728
Sample Number:	6001
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	54 mil MINIMUM
Date Received:	11/26/01

Specimen Number	Thickness		
	(in)	(mil)	(mm)
1	0.0680	68.0	1.73
2	0.0660	66.0	1.68
3	0.0630	63.0	1.60
4	0.0625	62.5	1.59
5	0.0650	65.0	1.65
6	0.0625	62.5	1.59
7	0.0620	62.0	1.57
8	0.0635	63.5	1.61
9	0.0630	63.0	1.60
10	0.0660	66.0	1.68
Avg.	0.0642	64.2	1.63
S.D.	0.0020	2.0	0.05

Notes:

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

JW 12/4/01

THICKNESS

ASTM D5994 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107744
Sample Number:	6004
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	54 mil MINIMUM
Date Received:	11/26/01

Specimen Number	Thickness		
	(in)	(mil)	(mm)
1	0.0655	65.5	1.66
2	0.0685	68.5	1.74
3	0.0685	68.5	1.74
4	0.0590	59.0	1.50
5	0.0625	62.5	1.59
6	0.0610	61.0	1.55
7	0.0615	61.5	1.56
8	0.0640	64.0	1.63
9	0.0670	67.0	1.70
10	0.0690	69.0	1.75
Avg.	0.0647	64.7	1.64
S.D.	0.0036	3.6	0.09

Notes:

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

JW 12/14/01

THICKNESS

ASTM D5994 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107749
Sample Number:	6005
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	54 mil MINIMUM
Date Received:	11/26/01

Specimen Number	Thickness		
	(in)	(mil)	(mm)
1	0.0660	66.0	1.68
2	0.0605	60.5	1.54
3	0.0625	62.5	1.59
4	0.0660	66.0	1.68
5	0.0640	64.0	1.63
6	0.0650	65.0	1.65
7	0.0660	66.0	1.68
8	0.0645	64.5	1.64
9	0.0685	68.5	1.74
10	0.0600	60.0	1.52
Avg.	0.0643	64.3	1.63
S.D.	0.0026	2.6	0.07

Notes:

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

JW 12/4/01

THICKNESS

ASTM D5994 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107755
Sample Number:	5909
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	54 mil MINIMUM
Date Received:	11/14/01

Specimen Number	Thickness		
	(in)	(mil)	(mm)
1	0.0610	61.0	1.55
2	0.0620	62.0	1.57
3	0.0620	62.0	1.57
4	0.0690	69.0	1.75
5	0.0670	67.0	1.70
6	0.0680	68.0	1.73
7	0.0685	68.5	1.74
8	0.0670	67.0	1.70
9	0.0630	63.0	1.60
10	0.0635	63.5	1.61
Avg.	0.0651	65.1	1.65
S.D.	0.0031	3.1	0.08

Notes:

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

JW 12/4/01

THICKNESS

ASTM D5994 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107766
Sample Number:	6006
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	54 mil MINIMUM
Date Received:	11/26/01

Specimen Number	Thickness		
	(in)	(mil)	(mm)
1	0.0670	67.0	1.70
2	0.0685	68.5	1.74
3	0.0660	66.0	1.68
4	0.0605	60.5	1.54
5	0.0645	64.5	1.64
6	0.0630	63.0	1.60
7	0.0635	63.5	1.61
8	0.0625	62.5	1.59
9	0.0630	63.0	1.60
10	0.0650	65.0	1.65
Avg.	0.0644	64.4	1.63
S.D.	0.0024	2.4	0.06

Notes:

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

JW 12/4/01

THICKNESS

ASTM D5994 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107786
Sample Number:	6007
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	54 mil MINIMUM
Date Received:	11/26/01

Specimen Number	Thickness		
	(in)	(mil)	(mm)
1	0.0695	69.5	1.77
2	0.0625	62.5	1.59
3	0.0655	65.5	1.66
4	0.0685	68.5	1.74
5	0.0690	69.0	1.75
6	0.0685	68.5	1.74
7	0.0695	69.5	1.77
8	0.0650	65.0	1.65
9	0.0655	65.5	1.66
10	0.0635	63.5	1.61
Avg.	0.0667	66.7	1.69
S.D.	0.0026	2.6	0.07

Notes:

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

JW 12/4/01

THICKNESS

ASTM D5994 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107803
Sample Number:	6008
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	54 mil MINIMUM
Date Received:	11/26/01

Specimen Number	Thickness		
	(in)	(mil)	(mm)
1	0.0605	60.5	1.54
2	0.0615	61.5	1.56
3	0.0670	67.0	1.70
4	0.0635	63.5	1.61
5	0.0640	64.0	1.63
6	0.0630	63.0	1.60
7	0.0640	64.0	1.63
8	0.0620	62.0	1.57
9	0.0645	64.5	1.64
10	0.0665	66.5	1.69
Avg.	0.0637	63.7	1.62
S.D.	0.0021	2.1	0.05

Notes:

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

JW 12/12/01

ASPERITY MEASUREMENT OF TEXTURED GEOMEMEBRANES

GRI-GM12

Project Name:	WEST PASCO COUNTY LANDFIIL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL#: 103109590
Sample Number:	5901
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	MIN. 7 MILS
Date Received:	11/14/01

Specimen Number	Asperity Value (mils)
1	26
2	30
3	24
4	27
5	20
6	31
7	31
8	20
9	23
10	29
Average	26
S.D.	4.2

Note:

Tested By: JSM Test Date: 12·12·01

Reviewed By: JW Review Date: 12/12/01

ASPERITY MEASUREMENT OF TEXTURED GEOMEMEBRANES

GRI-GM12

Project Name:	WEST PASCO COUNTY LANDFIIL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 103109606
Sample Number:	5992
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	MIN. 7 MILS
Date Received:	11/26/01

Specimen Number	Asperity Value (mils)
1	32
2	35
3	31
4	23
5	24
6	20
7	30
8	24
9	24
10	35
Average	28
S.D.	5.4

Note:

Tested By: JM Test Date: 12.12.01

Reviewed By: DW Review Date: 12/12/01

ASPERITY MEASUREMENT OF TEXTURED GEOMEMEBRANES

GRI-GM12

Project Name:	WEST PASCO COUNTY LANDFIIL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 104108413
Sample Number:	5905
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	MIN. 7 MILS
Date Received:	11/14/01

Specimen Number	Asperity Value (mils)
1	35
2	31
3	36
4	31
5	32
6	25
7	23
8	25
9	22
10	32
Average	29
S.D.	5.0

Note:

Tested By: JM Test Date: 12-12-01

Reviewed By: JW Review Date: 12/12/01

ASPERITY MEASUREMENT OF TEXTURED GEOMEMEBRANES

GRI-GM12

Project Name:	WEST PASCO COUNTY LANDFIIL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 104108438
Sample Number:	5906
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	MIN. 7 MILS
Date Received:	11/14/01

Specimen Number	Asperity Value (mils)
1	25
2	26
3	23
4	22
5	25
6	28
7	30
8	30
9	25
10	29
Average	26
S.D.	2.8

Note:

Tested By: JSM Test Date: 12·12·01

Reviewed By: JW Review Date: 12/12/01

ASPERITY MEASUREMENT OF TEXTURED GEOMEMEBRANES

GRI-GM12

Project Name:	WEST PASCO COUNTY LANDFIIL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107690
Sample Number:	5908
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	MIN. 7 MILS
Date Received:	11/14/01

Specimen Number	Asperity Value (mils)
1	26
2	31
3	25
4	23
5	23
6	25
7	29
8	28
9	31
10	33
Average	27
S.D.	3.5

Note:

Tested By: JM Test Date: 12-12-01

Reviewed By: JW Review Date: 12/12/01

ASPERITY MEASUREMENT OF TEXTURED GEOMEMEBRANES

GRI-GM12

Project Name:	WEST PASCO COUNTY LANDFIIL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107696
Sample Number:	5995
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	MIN. 7 MILS
Date Received:	11/26/01

Specimen Number	Asperity Value (mils)
1	21
2	22
3	26
4	25
5	28
6	27
7	25
8	23
9	30
10	30
Average	26
S.D.	3.1

Note:

Tested By: JPM Test Date: 12·12·01

Reviewed By: JW Review Date: 12/12/01

ASPERITY MEASUREMENT OF TEXTURED GEOMEMEBRANES

GRI-GM12

Project Name:	WEST PASCO COUNTY LANDFIIL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107698
Sample Number:	5996
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	MIN. 7 MILS
Date Received:	11/26/01

Specimen Number	Asperity Value (mils)
1	32
2	30
3	36
4	33
5	32
6	22
7	24
8	23
9	32
10	30
Average	29
S.D.	4.7

Note:

Tested By: JM Test Date: 12.12.01

Reviewed By: JW Review Date: 12/12/01

ASPERITY MEASUREMENT OF TEXTURED GEOMEMEBRANES

GRI-GM12

Project Name:	WEST PASCO COUNTY LANDFIIL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL#105107717
Sample Number:	5999
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	MIN. 7 MILS
Date Received:	11/26/01

Specimen Number	Asperity Value (mils)
1	22
2	23
3	21
4	25
5	26
6	19
7	20
8	23
9	17
10	24
Average	22
S.D.	2.8

Note:

Tested By: JHm Test Date: 12.4.01

Reviewed By: JW Review Date: 12/5/01

ASPERITY MEASUREMENT OF TEXTURED GEOMEMEBRANES

GRI-GM12

Project Name:	WEST PASCO COUNTY LANDFIIL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL#105107728
Sample Number:	6001
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	MIN. 7 MILS
Date Received:	11/26/01

Specimen Number	Asperity Value (mils)
1	19
2	26
3	20
4	22
5	21
6	23
7	26
8	26
9	25
10	28
Average	24
S.D.	3.0

Note:

Tested By: JJM

Reviewed By: JWS

Test Date: 12.4.01

Review Date: 12/5/01

ASPERITY MEASUREMENT OF TEXTURED GEOMEMEBRANES

GRI-GM12

Project Name:	WEST PASCO COUNTY LANDFIIL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL#105107744
Sample Number:	6004
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	MIN. 7 MILS
Date Received:	11/26/01

Specimen Number	Asperity Value (mils)
1	24
2	23
3	18
4	22
5	29
6	23
7	27
8	20
9	26
10	24
Average	24
S.D.	3.2

Note:

Tested By: JJM Test Date: 12.4.01

Reviewed By: JW Review Date: 12/5/01

ASPERITY MEASUREMENT OF TEXTURED GEOMEMEBRANES

GRI-GM12

Project Name:	WEST PASCO COUNTY LANDFIIL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL#105107749
Sample Number:	6005
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	MIN. 7 MILS
Date Received:	11/26/01

Specimen Number	Asperity Value (mils)
1	27
2	32
3	28
4	26
5	29
6	19
7	26
8	29
9	22
10	26
Average	26
S.D.	3.7

Note:

Tested By: JSM Test Date: 12-4-01

Reviewed By: JW Review Date: 12/5/01

ASPERITY MEASUREMENT OF TEXTURED GEOMEMEBRANES

GRI-GM12

Project Name:	WEST PASCO COUNTY LANDFIIL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL#105107755
Sample Number:	5909
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	MIN. 7 MILS
Date Received:	11/14/01

Specimen Number	Asperity Value (mils)
1	23
2	29
3	27
4	28
5	26
6	23
7	22
8	23
9	26
10	22
Average	25
S.D.	2.6

Note:

Tested By: JJM Test Date: 12-4-01

Reviewed By: JLS Review Date: 12/5/01

ASPERITY MEASUREMENT OF TEXTURED GEOMEMEBRANES

GRI-GM12

Project Name:	WEST PASCO COUNTY LANDFIIL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL#105107766
Sample Number:	6006
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	MIN. 7 MILS
Date Received:	11/26/01

Specimen Number	Asperity Value (mils)
1	21
2	21
3	18
4	22
5	27
6	30
7	31
8	29
9	22
10	26
Average	25
S.D.	4.5

Note:

Tested By: JHm Test Date: 12·4·01

Reviewed By: JW Review Date: 12/5/01

ASPERITY MEASUREMENT OF TEXTURED GEOMEMEBRANES

GRI-GM12

Project Name:	WEST PASCO COUNTY LANDFIIL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL#105107786
Sample Number:	6007
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	MIN. 7 MILS
Date Received:	11/26/01

Specimen Number	Asperity Value (mils)
1	25
2	29
3	34
4	26
5	30
6	33
7	28
8	24
9	23
10	29
Average	28
S.D.	3.7

Note:

Tested By: JJM Test Date: 12-4-01

Reviewed By: JW Review Date: 12/5/01

ASPERITY MEASUREMENT OF TEXTURED GEOMEMEBRANES

GRI-GM12

Project Name:	WEST PASCO COUNTY LANDFIIL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107803
Sample Number:	6008
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	MIN. 7 MILS
Date Received:	11/26/01

Specimen Number	Asperity Value (mils)
1	17
2	20
3	22
4	25
5	20
6	21
7	26
8	23
9	19
10	23
Average	22
S.D.	2.8

Note:

Tested By: JSM Test Date: 12·12·01

Reviewed By: JW Review Date: 12/12/01

DENSITY BY GRADIENT - COLUMN

ASTM D1505[1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 103109590
Sample Number:	5901
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	.94 g/cc
Date Received:	11/14/01

Specimen Number	Density @ 23°C (g/cc)
1	0.942
2	0.942
3	0.943
Avg.	0.942

Notes:

Due to the heavy texturing and /or potential air pockets trapped in the structure of the test material, the test specimens are reprocessed and formed utilizing a melt indexer at 190 °C.

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

JW 12/12/01

DENSITY BY GRADIENT - COLUMN

ASTM D1505 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 103109606
Sample Number:	5992
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	.94 g/cc
Date Received:	11/26/01

Specimen Number	Density @ 23°C (g/cc)
1	0.945
2	0.946
3	0.946
Avg.	0.946

Notes:

Due to the heavy texturing and /or potential air pockets trapped in the structure of the test material, the test specimens are reprocessed and formed utilizing a melt indexer at 190 °C.

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

JW 12/12/01

DENSITY BY GRADIENT - COLUMN

ASTM D1505 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 104108413
Sample Number:	5905
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	.94 g/cc
Date Received:	11/14/01

Specimen Number	Density @ 23°C (g/cc)
1	0.944
2	0.944
3	0.945
Avg.	0.944

Notes:

Due to the heavy texturing and /or potential air pockets trapped in the structure of the test material, the test specimens are reprocessed and formed utilizing a melt indexer at 190 °C.

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

JW 12/12/01

DENSITY BY GRADIENT - COLUMN

ASTM D1505 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 104108438
Sample Number:	5906
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	.94 g/cc
Date Received:	11/14/01

Specimen Number	Density @ 23°C (g/cc)
1	0.944
2	0.944
3	0.945
Avg.	0.944

Notes:

Due to the heavy texturing and /or potential air pockets trapped in the structure of the test material, the test specimens are reprocessed and formed utilizing a melt indexer at 190 °C.

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

JW 12/12/01

DENSITY BY GRADIENT - COLUMN

ASTM D1505 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107690
Sample Number:	5908
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	.94 g/cc
Date Received:	11/14/01

Specimen Number	Density @ 23°C (g/cc)
1	0.942
2	0.942
3	0.945
Avg.	0.943

Notes:

Due to the heavy texturing and /or potential air pockets trapped in the structure of the test material, the test specimens are reprocessed and formed utilizing a melt indexer at 190 °C.

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

Jw 12/12/01

DENSITY BY GRADIENT - COLUMN

ASTM D1505[1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107696
Sample Number:	5995
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	.94 g/cc
Date Received:	11/26/01

Specimen Number	Density @ 23°C (g/cc)
1	0.945
2	0.945
3	0.945
Avg.	0.945

Notes:

Due to the heavy texturing and /or potential air pockets trapped in the structure of the test material, the test specimens are reprocessed and formed utilizing a melt indexer at 190 °C.

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

JW 12/12/01

DENSITY BY GRADIENT - COLUMN

ASTM D1505[1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107698
Sample Number:	5996
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	.94 g/cc
Date Received:	11/26/01

Specimen Number	Density @ 23°C (g/cc)
1	0.945
2	0.945
3	0.945
Avg.	0.945

Notes:

Due to the heavy texturing and /or potential air pockets trapped in the structure of the test material, the test specimens are reprocessed and formed utilizing a melt indexer at 190 °C.

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

JW 12/12/01

DENSITY BY GRADIENT - COLUMN

ASTM D1505 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107717
Sample Number:	5999
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	0.94 g/cc
Date Received:	11/26/01

Specimen Number	Density @ 23°C (g/cc)
1	0.942
2	0.942
3	0.942
Avg.	0.942

Notes:

The texturing is removed by shaving and/or sanding the material surfaces.

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

JW 12/12/01

DENSITY BY GRADIENT - COLUMN

ASTM D1505 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107728
Sample Number:	6001
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	0.94 g/cc
Date Received:	11/26/01

Specimen Number	Density @ 23°C (g/cc)
1	0.941
2	0.942
3	0.942
Avg.	0.941

Notes:

The texturing is removed by shaving and/or sanding the material surfaces.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

JW 12/12/01

DENSITY BY GRADIENT - COLUMN

ASTM D1505[1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107744
Sample Number:	6004
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	0.94 g/cc
Date Received:	11/26/01

Specimen Number	Density @ 23°C (g/cc)
1	0.942
2	0.942
3	0.941
Avg.	0.942

Notes:

The texturing is removed by shaving and/or sanding the material surfaces.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

JW 12/12/01

DENSITY BY GRADIENT - COLUMN

ASTM D1505[1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107749
Sample Number:	6005
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	0.94 g/cc
Date Received:	11/26/01

Specimen Number	Density @ 23°C (g/cc)
1	0.941
2	0.941
3	0.941
Avg.	0.941

Notes:

The texturing is removed by shaving and/or sanding the material surfaces.

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

JW 12/12/01

DENSITY BY GRADIENT - COLUMN

ASTM D1505[1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107755
Sample Number:	5909
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	0.94 g/cc
Date Received:	11/26/01

Specimen Number	Density @ 23°C (g/cc)
1	0.941
2	0.941
3	0.941
Avg.	0.941

Notes:

The texturing is removed by shaving and/or sanding the material surfaces.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

DENSITY BY GRADIENT - COLUMN

ASTM D1505 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107766
Sample Number:	6006
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	0.94 g/cc
Date Received:	11/26/01

Specimen Number	Density @ 23°C (g/cc)
1	0.942
2	0.941
3	0.941
Avg.	0.941

Notes:

The texturing is removed by shaving and/or sanding the material surfaces.

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

JW 12/12/01

DENSITY BY GRADIENT - COLUMN

ASTM D1505 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107786
Sample Number:	6007
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	0.94 g/cc
Date Received:	11/26/01

Specimen Number	Density @ 23°C (g/cc)
1	0.942
2	0.941
3	0.941
Avg.	0.941

Notes:

The texturing is removed by shaving and/or sanding the material surfaces.

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

JW 12/12/01

DENSITY BY GRADIENT - COLUMN

ASTM D1505[1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107803
Sample Number:	6008
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	.94 g/cc
Date Received:	11/26/01

Specimen Number	Density @ 23°C (g/cc)
1	0.943
2	0.943
3	0.944
Avg.	0.943

Notes:

Due to the heavy texturing and /or potential air pockets trapped in the structure of the test material, the test specimens are reprocessed and formed utilizing a melt indexer at 190 °C.

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

JW 12/12/01

TENSILE PROPERTIES

ASTM D638 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 103109590
Sample Number:	5901
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	YIELD: 126 ppi; 12% AND BREAK: 90 ppi; 100%
Date Received:	11/14/01

Spec. #	Roll Direction											
	Thickness		Yield					Break				
			Tension		Stress		Elongation	Tension		Stress		Elongation
	(in)	(mm)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)
1	0.0595	1.51	181.4	31.8	3049	21.0	19.9	220.9	38.7	3712	25.6	527.6
2	0.0610	1.55	180.4	31.6	2957	20.4	18.8	248.4	43.5	4072	28.1	614.5
3	0.0615	1.56	201.8	35.3	3282	22.6	18.2	240.5	42.1	3911	27.0	557.9
4	0.0615	1.56	190.7	33.4	3100	21.4	18.8	242.4	42.4	3941	27.2	577.9
5	0.0640	1.63	181.7	31.8	2839	19.6	20.1	217.8	38.1	3403	23.5	531.8
Avg.			187.2	32.8	3045	21.0	19.2	234.0	41.0	3808	26.3	561.9
S.D.			9.2	1.6	165	1.1	0.8	13.7	2.4	260	1.8	35.8

Spec. #	Cross-Roll Direction											
	Thickness		Yield					Break				
			Tension		Stress		Elongation	Tension		Stress		Elongation
	(in)	(mm)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)
1	0.0640	1.63	182.2	31.9	2847	19.6	16.3	233.4	40.9	3647	25.1	591.9
2	0.0680	1.73	195.9	34.3	2881	19.9	18.3	144.5	25.3	2125	14.7	331.5
3	0.0650	1.65	190.1	33.3	2925	20.2	15.6	152.2	26.7	2342	16.1	234.6
4	0.0600	1.52	174.6	30.6	2910	20.1	17.1	195.9	34.3	3265	22.5	521.8
5	0.0600	1.52	199.7	35.0	3328	22.9	17.8	164.8	28.9	2746	18.9	165.7
Avg.			188.5	33.0	2978	20.5	17.0	178.2	31.2	2825	19.5	369.1
S.D.			10.2	1.8	198	1.4	1.1	36.6	6.4	632	4.4	182.9

Notes:

All tests are performed on Type IV specimens at a test speed of 2 in./min.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.
Thickness measurements are performed in accordance with ASTM D5199 and D5994 for smooth and textured membranes, respectively.
Yield and break elongation values are calculated based on the total cross-head displacement using gauge length values of 33 mm (1.3 in.) and 50 mm (1.97 in.), respectively.
Modulus of elasticity values are not presented.

12.12.01

JW 12/12/01

TENSILE PROPERTIES

ASTM D638 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 103109606
Sample Number:	5992
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	YIELD: 126 ppi; 12% AND BREAK: 90 ppi; 100%
Date Received:	11/14/01

Spec. #	Roll Direction											
	Thickness		Yield					Break				
			Tension		Stress		Elongation	Tension		Stress		Elongation
	(in)	(mm)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)
1	0.0615	1.56	166.8	29.2	2712	18.7	16.4	207.1	36.3	3368	23.2	513.5
2	0.0640	1.63	166.1	29.1	2596	17.9	16.4	232.3	40.7	3630	25.0	573.6
3	0.0605	1.54	178.2	31.2	2945	20.3	18.9	247.1	43.3	4084	28.2	600.3
4	0.0635	1.61	188.5	33.0	2969	20.5	17.4	247.7	43.4	3901	26.9	585.3
5	0.0635	1.61	179.1	31.4	2820	19.4	18.5	231.8	40.6	3650	25.2	561.1
Avg.			175.7	30.8	2808	19.4	17.5	233.2	40.8	3727	25.7	566.8
S.D.			9.4	1.6	157	1.1	1.1	16.5	2.9	275	1.9	33.1

Spec. #	Cross-Roll Direction											
	Thickness		Yield					Break				
			Tension		Stress		Elongation	Tension		Stress		Elongation
	(in)	(mm)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)
1	0.0650	1.65	181.6	31.8	2794	19.3	17.1	223.4	39.1	3437	23.7	561.1
2	0.0650	1.65	176.8	31.0	2720	18.8	16.3	230.8	40.4	3551	24.5	594.5
3	0.0645	1.64	174.6	30.6	2707	18.7	17.4	143.1	25.1	2219	15.3	395.8
4	0.0570	1.45	175.0	30.6	3070	21.2	15.3	199.8	35.0	3506	24.2	529.4
5	0.0635	1.61	185.2	32.4	2916	20.1	17.0	165.4	29.0	2604	18.0	406.6
Avg.			178.6	31.3	2841	19.6	16.6	192.5	33.7	3063	21.1	497.5
S.D.			4.6	0.8	152	1.1	0.9	37.6	6.6	612	4.2	90.9

Notes:

All tests are performed on Type IV specimens at a test speed of 2 in./min.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.
Thickness measurements are performed in accordance with ASTM D5199 and D5994 for smooth and textured membranes, respectively.
Yield and break elongation values are calculated based on the total cross-head displacement using gauge length values of 33 mm (1.3 in.) and 50 mm (1.97 in.), respectively.
Modulus of elasticity values are not presented.

JW 12/12/01

TENSILE PROPERTIES

ASTM D638 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 104108413
Sample Number:	5905
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	YIELD: 126 ppi; 12% AND BREAK: 90 ppi; 100%
Date Received:	11/14/01

Spec. #	Roll Direction											
	Thickness		Yield					Break				
			Tension		Stress		Elongation	Tension		Stress		Elongation
	(in)	(mm)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)
1	0.0595	1.51	179.0	31.4	3009	20.7	17.3	250.5	43.9	4210	29.0	654.5
2	0.0585	1.49	187.1	32.8	3198	22.0	18.7	249.0	43.6	4257	29.4	619.7
3	0.0615	1.56	169.0	29.6	2748	18.9	16.4	241.4	42.3	3926	27.1	619.7
4	0.0595	1.51	174.9	30.6	2939	20.3	17.7	257.9	45.2	4334	29.9	673.2
5	0.0620	1.57	156.7	27.4	2528	17.4	19.7	185.7	32.5	2995	20.6	476.0
Avg.			173.3	30.4	2884	19.9	18.0	236.9	41.5	3944	27.2	608.6
S.D.			11.4	2.0	256	1.8	1.3	29.2	5.1	553	3.8	77.6

Spec. #	Cross-Roll Direction											
	Thickness		Yield					Break				
			Tension		Stress		Elongation	Tension		Stress		Elongation
	(in)	(mm)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)
1	0.0570	1.45	161.4	28.3	2831	19.5	15.5	194.0	34.0	3403	23.5	542.8
2	0.0615	1.56	175.0	30.7	2846	19.6	17.0	200.5	35.1	3260	22.5	516.1
3	0.0625	1.59	179.2	31.4	2867	19.8	17.1	206.7	36.2	3307	22.8	549.5
4	0.0610	1.55	174.8	30.6	2866	19.8	17.1	181.5	31.8	2975	20.5	472.7
5	0.0630	1.60	174.7	30.6	2773	19.1	16.8	217.9	38.2	3458	23.8	592.9
Avg.			173.0	30.3	2837	19.6	16.7	200.1	35.0	3281	22.6	534.8
S.D.			6.8	1.2	39	0.3	0.7	13.6	2.4	188	1.3	44.4

Notes:

All tests are performed on Type IV specimens at a test speed of 2 in./min.

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.
Thickness measurements are performed in accordance with ASTM D5199 and D5994 for smooth and textured membranes, respectively.
Yield and break elongation values are calculated based on the total cross-head displacement using gauge length values of 33 mm (1.3 in.) and 50 mm (1.97 in.), respectively.
Modulus of elasticity values are not presented.

JW 12/12/01

TENSILE PROPERTIES

ASTM D638 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 104108438
Sample Number:	5906
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	YIELD: 126 ppi; 12% AND BREAK: 90 ppi; 100%
Date Received:	11/14/01

Spec. #	Roll Direction											
	Thickness		Yield					Break				
			Tension		Stress		Elongation	Tension		Stress		Elongation
	(in)	(mm)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)
1	0.0640	1.63	170.1	29.8	2658	18.3	20.0	283.6	49.7	4431	30.6	728.0
2	0.0615	1.56	162.8	28.5	2647	18.3	22.5	231.6	40.6	3766	26.0	628.3
3	0.0590	1.50	158.1	27.7	2680	18.5	21.7	268.7	47.1	4554	31.4	722.0
4	0.0600	1.52	161.7	28.3	2695	18.6	21.0	265.1	46.4	4419	30.5	704.9
5	0.0630	1.60	170.9	29.9	2713	18.7	16.6	268.2	47.0	4257	29.4	675.8
Avg.			164.7	28.8	2679	18.5	20.3	263.4	46.1	4285	29.5	691.8
S.D.			5.6	1.0	27	0.2	2.3	19.2	3.4	309	2.1	40.9

Spec. #	Cross-Roll Direction											
	Thickness		Yield					Break				
			Tension		Stress		Elongation	Tension		Stress		Elongation
	(in)	(mm)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)
1	0.0630	1.60	175.0	30.6	2778	19.2	15.8	234.2	41.0	3717	25.6	621.1
2	0.0605	1.54	167.1	29.3	2762	19.0	19.5	214.7	37.6	3548	24.5	599.3
3	0.0630	1.60	173.4	30.4	2752	19.0	18.7	210.4	36.8	3339	23.0	576.2
4	0.0610	1.55	164.9	28.9	2704	18.6	17.3	193.8	33.9	3177	21.9	537.2
5	0.0610	1.55	181.4	31.8	2974	20.5	17.4	242.3	42.4	3972	27.4	644.2
Avg.			172.4	30.2	2794	19.3	17.7	219.1	38.4	3551	24.5	595.6
S.D.			6.6	1.2	104	0.7	1.4	19.4	3.4	312	2.2	41.2

Notes:

All tests are performed on Type IV specimens at a test speed of 2 in./min.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.
Thickness measurements are performed in accordance with ASTM D5199 and D5994 for smooth and textured membranes, respectively.
Yield and break elongation values are calculated based on the total cross-head displacement using gauge length values of 33 mm (1.3 in.) and 50 mm (1.97 in.), respectively.
Modulus of elasticity values are not presented.

JW 12/12/01

TENSILE PROPERTIES

ASTM D638 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107690
Sample Number:	5908
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	YIELD: 126 ppi; 12% AND BREAK: 90 ppi; 100%
Date Received:	11/14/01

Spec. #	Roll Direction											
	Thickness		Yield					Break				
			Tension		Stress		Elongation	Tension		Stress		Elongation
	(in)	(mm)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)
1	0.0635	1.61	190.2	33.3	2996	20.7	17.2	213.4	37.4	3361	23.2	531.8
2	0.0635	1.61	185.0	32.4	2913	20.1	18.6	171.8	30.1	2705	18.7	454.1
3	0.0630	1.60	196.1	34.3	3112	21.5	16.6	170.5	29.9	2707	18.7	434.1
4	0.0660	1.68	195.3	34.2	2959	20.4	16.3	154.5	27.1	2341	16.1	177.8
5	0.0625	1.59	185.8	32.5	2972	20.5	18.1	208.8	36.6	3341	23.0	518.5
Avg.			190.5	33.4	2990	20.6	17.3	183.8	32.2	2891	19.9	423.3
S.D.			5.2	0.9	74	0.5	1.0	25.9	4.5	446	3.1	143.3

Spec. #	Cross-Roll Direction											
	Thickness		Yield					Break				
			Tension		Stress		Elongation	Tension		Stress		Elongation
	(in)	(mm)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)
1	0.0640	1.63	192.0	33.6	3000	20.7	17.3	159.6	27.9	2493	17.2	324.5
2	0.0595	1.51	179.7	31.5	3020	20.8	18.2	142.4	24.9	2393	16.5	105.3
3	0.0635	1.61	196.7	34.4	3097	21.4	17.7	149.6	26.2	2356	16.2	405.9
4	0.0630	1.60	192.8	33.8	3060	21.1	16.5	201.5	35.3	3199	22.1	519.5
5	0.0625	1.59	190.6	33.4	3049	21.0	17.3	147.4	25.8	2359	16.3	139.4
Avg.			190.3	33.3	3045	21.0	17.4	160.1	28.0	2560	17.7	298.9
S.D.			6.4	1.1	37	0.3	0.6	24.0	4.2	361	2.5	175.8

Notes:

All tests are performed on Type IV specimens at a test speed of 2 in./min.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.
Thickness measurements are performed in accordance with ASTM D5199 and D5994 for smooth and textured membranes, respectively.
Yield and break elongation values are calculated based on the total cross-head displacement using gauge length values of 33 mm (1.3 in.) and 50 mm (1.97 in.), respectively.
Modulus of elasticity values are not presented.

JW 12/12/01

12.7.01

TENSILE PROPERTIES

ASTM D638 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107696
Sample Number:	5995
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	YIELD: 126 ppi; 12% AND BREAK: 90 ppi; 100%
Date Received:	11/14/01

Spec. #	Roll Direction											
	Thickness		Yield					Break				
			Tension		Stress		Elongation	Tension		Stress		Elongation
	(in)	(mm)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)
1	0.0610	1.55	171.2	30.0	2807	19.4	17.8	212.1	37.1	3477	24.0	580.3
2	0.0640	1.63	186.3	32.6	2911	20.1	15.2	233.2	40.8	3643	25.1	600.3
3	0.0630	1.60	174.7	30.6	2773	19.1	18.6	131.4	23.0	2085	14.4	174.0
4	0.0630	1.60	181.4	31.8	2879	19.9	16.7	195.7	34.3	3107	21.4	501.3
5	0.0605	1.54	179.4	31.4	2965	20.4	15.8	206.8	36.2	3419	23.6	547.5
Avg.			178.6	31.3	2867	19.8	16.8	195.8	34.3	3146	21.7	480.7
S.D.			5.9	1.0	78	0.5	1.4	38.5	6.7	624	4.3	175.5

Spec. #	Cross-Roll Direction											
	Thickness		Yield					Break				
			Tension		Stress		Elongation	Tension		Stress		Elongation
	(in)	(mm)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)
1	0.0575	1.46	174.3	30.5	3031	20.9	15.6	192.4	33.7	3346	23.1	523.8
2	0.0630	1.60	180.8	31.7	2870	19.8	14.9	211.1	37.0	3351	23.1	577.2
3	0.0655	1.66	186.7	32.7	2850	19.7	16.2	136.3	23.9	2081	14.3	126.3
4	0.0645	1.64	188.4	33.0	2921	20.1	17.9	209.5	36.7	3248	22.4	527.6
5	0.0650	1.65	178.6	31.3	2747	18.9	16.5	202.7	35.5	3119	21.5	547.7
Avg.			181.7	31.8	2884	19.9	16.2	190.4	33.3	3029	20.9	460.5
S.D.			5.8	1.0	104	0.7	1.1	31.1	5.5	538	3.7	188.0

Notes:

All tests are performed on Type IV specimens at a test speed of 2 in./min.

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.
Thickness measurements are performed in accordance with ASTM D5199 and D5994 for smooth and textured membranes, respectively.
Yield and break elongation values are calculated based on the total cross-head displacement using gauge length values of 33 mm (1.3 in.) and 50 mm (1.97 in.), respectively.
Modulus of elasticity values are not presented.

JW 12/12/01

TENSILE PROPERTIES

ASTM D638 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107698
Sample Number:	5996
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	YIELD: 126 ppi; 12% AND BREAK: 90 ppi; 100%
Date Received:	11/14/01

Spec. #	Roll Direction											
	Thickness		Yield					Break				
			Tension		Stress		Elongation	Tension		Stress		Elongation
	(in)	(mm)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)
1	0.0625	1.59	166.9	29.2	2670	18.4	18.0	177.3	31.0	2836	19.6	447.3
2	0.0590	1.50	170.5	29.9	2889	19.9	15.0	205.4	36.0	3481	24.0	541.9
3	0.0615	1.56	168.9	29.6	2746	18.9	18.7	147.2	25.8	2394	16.5	250.7
4	0.0605	1.54	179.7	31.5	2970	20.5	16.0	219.9	38.5	3634	25.1	578.0
5	0.0640	1.63	183.6	32.1	2868	19.8	18.9	214.7	37.6	3354	23.1	556.3
Avg.			173.9	30.5	2829	19.5	17.3	192.9	33.8	3140	21.6	474.8
S.D.			7.3	1.3	120	0.8	1.7	30.4	5.3	514	3.5	134.9

Spec. #	Cross-Roll Direction											
	Thickness		Yield					Break				
			Tension		Stress		Elongation	Tension		Stress		Elongation
	(in)	(mm)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)
1	0.0630	1.60	182.4	32.0	2896	20.0	16.7	183.3	32.1	2910	20.1	472.6
2	0.0600	1.52	164.1	28.7	2735	18.9	16.3	189.2	33.1	3154	21.7	532.8
3	0.0595	1.51	167.2	29.3	2810	19.4	14.5	136.1	23.8	2287	15.8	281.2
4	0.0615	1.56	165.4	29.0	2689	18.5	16.8	171.5	30.0	2789	19.2	488.3
5	0.0610	1.55	164.3	28.8	2694	18.6	15.5	177.2	31.0	2905	20.0	501.6
Avg.			168.7	29.5	2765	19.1	15.9	171.5	30.0	2809	19.4	455.3
S.D.			7.8	1.4	88	0.6	1.0	20.9	3.7	321	2.2	99.8

Notes:

All tests are performed on Type IV specimens at a test speed of 2 in./min.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.
Thickness measurements are performed in accordance with ASTM D5199 and D5994 for smooth and textured membranes, respectively.
Yield and break elongation values are calculated based on the total cross-head displacement using gauge length values of 33 mm (1.3 in.) and 50 mm (1.97 in.), respectively.
Modulus of elasticity values are not presented.

JW 12/12/01

TENSILE PROPERTIES

ASTM D638 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107717
Sample Number:	5999
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	YIELD: 126 ppi; 12% AND BREAK: 90 ppi; 100%
Date Received:	11/26/01

Spec. #	Roll Direction											
	Thickness		Yield					Break				
			Tension		Stress		Elongation	Tension		Stress		Elongation
	(in)	(mm)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)
1	0.0640	1.63	184.6	32.3	2885	19.9	21.7	210.8	36.9	3293	22.7	552.7
2	0.0665	1.69	184.3	32.3	2772	19.1	20.4	216.0	37.8	3248	22.4	559.4
3	0.0675	1.71	168.7	29.5	2499	17.2	20.1	196.6	34.4	2912	20.1	551.0
4	0.0675	1.71	182.7	32.0	2707	18.7	18.7	148.4	26.0	2199	15.2	277.7
5	0.0600	1.52	162.6	28.5	2710	18.7	19.1	198.4	34.7	3306	22.8	531.6
Avg.			176.6	30.9	2715	18.7	20.0	194.0	34.0	2992	20.6	494.5
S.D.			10.3	1.8	140	1.0	1.2	26.8	4.7	472	3.3	121.6

Spec. #	Cross-Roll Direction											
	Thickness		Yield					Break				
			Tension		Stress		Elongation	Tension		Stress		Elongation
	(in)	(mm)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)
1	0.0635	1.61	169.5	29.7	2669	18.4	16.9	132.3	23.2	2084	14.4	155.5
2	0.0590	1.50	176.4	30.9	2990	20.6	19.1	186.2	32.6	3156	21.8	509.6
3	0.0640	1.63	184.6	32.3	2884	19.9	17.8	207.9	36.4	3249	22.4	549.6
4	0.0650	1.65	182.3	31.9	2805	19.3	22.4	205.6	36.0	3163	21.8	536.6
5	0.0655	1.66	176.2	30.9	2690	18.5	20.6	199.2	34.9	3041	21.0	550.0
Avg.			177.8	31.1	2808	19.4	19.4	186.3	32.6	2939	20.3	460.3
S.D.			5.9	1.0	134	0.9	2.2	31.3	5.5	483	3.3	171.2

Notes:

All tests are performed on Type IV specimens at a test speed of 2 in./min.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.
Thickness measurements are performed in accordance with ASTM D5199 and D5994 for smooth and textured membranes, respectively.
Yield and break elongation values are calculated based on the total cross-head displacement using gauge length values of 33 mm (1.3 in.) and 50 mm (1.97 in.), respectively.
Modulus of elasticity values are not presented.

JW 12/4/01

TENSILE PROPERTIES

ASTM D638 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107728
Sample Number:	6001
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	YIELD: 126 ppi; 12% AND BREAK: 90 ppi; 100%
Date Received:	11/26/01

Spec. #	Roll Direction											
	Thickness		Yield					Break				
			Tension		Stress		Elongation	Tension		Stress		Elongation
	(in)	(mm)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)
1	0.0635	1.61	175.4	30.7	2762	19.0	19.7	225.3	39.5	3548	24.5	590.0
2	0.0620	1.57	170.1	29.8	2744	18.9	18.8	219.7	38.5	3544	24.4	596.7
3	0.0625	1.59	167.9	29.4	2686	18.5	19.2	146.1	25.6	2337	16.1	253.0
4	0.0635	1.61	182.5	32.0	2874	19.8	19.1	203.9	35.7	3211	22.1	506.9
5	0.0600	1.52	162.8	28.5	2713	18.7	18.7	220.4	38.6	3673	25.3	607.1
Avg.			171.7	30.1	2756	19.0	19.1	203.1	35.6	3263	22.5	510.8
S.D.			7.5	1.3	72	0.5	0.4	32.9	5.8	545	3.8	149.5

Spec. #	Cross-Roll Direction											
	Thickness		Yield					Break				
			Tension		Stress		Elongation	Tension		Stress		Elongation
	(in)	(mm)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)
1	0.0625	1.59	175.8	30.8	2813	19.4	17.2	149.0	26.1	2384	16.4	413.0
2	0.0590	1.50	167.3	29.3	2835	19.5	17.5	189.0	33.1	3204	22.1	526.5
3	0.0670	1.70	186.6	32.7	2785	19.2	18.8	142.3	24.9	2124	14.6	400.0
4	0.0650	1.65	185.2	32.4	2849	19.6	17.6	208.3	36.5	3204	22.1	536.4
5	0.0600	1.52	164.9	28.9	2749	19.0	17.7	179.8	31.5	2997	20.7	517.6
Avg.			176.0	30.8	2806	19.3	17.7	173.7	30.4	2783	19.2	478.7
S.D.			9.9	1.7	40	0.3	0.6	27.7	4.8	498	3.4	66.4

Notes:

All tests are performed on Type IV specimens at a test speed of 2 in./min.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.
Thickness measurements are performed in accordance with ASTM D5199 and D5994 for smooth and textured membranes, respectively.
Yield and break elongation values are calculated based on the total cross-head displacement using gauge length values of 33 mm (1.3 in.) and 50 mm (1.97 in.), respectively.
Modulus of elasticity values are not presented.

JW 12/4/01

TENSILE PROPERTIES

ASTM D638 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107744
Sample Number:	6004
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	YIELD: 126 ppi; 12% AND BREAK: 90 ppi; 100%
Date Received:	11/26/01

Spec. #	Roll Direction											
	Thickness		Yield					Break				
			Tension		Stress		Elongation	Tension		Stress		Elongation
	(in)	(mm)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)
1	0.0640	1.63	189.6	33.2	2963	20.4	19.8	224.6	39.3	3509	24.2	574.3
2	0.0685	1.74	188.2	33.0	2748	18.9	17.6	205.9	36.1	3006	20.7	493.9
3	0.0630	1.60	177.7	31.1	2820	19.4	19.2	138.8	24.3	2203	15.2	332.1
4	0.0670	1.70	190.0	33.3	2836	19.6	17.4	169.6	29.7	2531	17.5	405.6
5	0.0625	1.59	167.3	29.3	2676	18.5	18.3	228.4	40.0	3654	25.2	619.3
Avg.			182.6	32.0	2809	19.4	18.5	193.4	33.9	2981	20.6	485.0
S.D.			10.0	1.7	107	0.7	1.0	38.4	6.7	621	4.3	118.1

Spec. #	Cross-Roll Direction											
	Thickness		Yield					Break				
			Tension		Stress		Elongation	Tension		Stress		Elongation
	(in)	(mm)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)
1	0.0660	1.68	182.3	31.9	2762	19.0	17.5	197.7	34.6	2996	20.7	499.4
2	0.0650	1.65	194.3	34.0	2989	20.6	18.2	141.1	24.7	2171	15.0	332.5
3	0.0635	1.61	173.2	30.3	2727	18.8	16.1	196.0	34.3	3086	21.3	552.9
4	0.0590	1.50	168.9	29.6	2863	19.7	17.6	188.4	33.0	3193	22.0	518.1
5	0.0620	1.57	173.4	30.4	2796	19.3	16.8	135.2	23.7	2180	15.0	265.7
Avg.			178.4	31.2	2827	19.5	17.2	171.7	30.1	2725	18.8	433.7
S.D.			10.1	1.8	103	0.7	0.8	30.9	5.4	507	3.5	126.6

Notes:

All tests are performed on Type IV specimens at a test speed of 2 in./min.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.
Thickness measurements are performed in accordance with ASTM D5199 and D5994 for smooth and textured membranes, respectively.
Yield and break elongation values are calculated based on the total cross-head displacement using gauge length values of 33 mm (1.3 in.) and 50 mm (1.97 in.), respectively.
Modulus of elasticity values are not presented.

JW 12/12/01

TENSILE PROPERTIES

ASTM D638 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107749
Sample Number:	6005
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	YIELD: 126 ppi; 12% AND BREAK: 90 ppi; 100%
Date Received:	11/26/01

Spec. #	Roll Direction											
	Thickness		Yield					Break				
			Tension		Stress		Elongation	Tension		Stress		Elongation
	(in)	(mm)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)
1	0.0615	1.56	181.5	31.8	2951	20.3	23.8	244.8	42.9	3981	27.4	633.1
2	0.0600	1.52	162.0	28.4	2700	18.6	17.4	228.5	40.0	3808	26.3	624.8
3	0.0610	1.55	172.1	30.1	2822	19.5	21.1	202.2	35.4	3314	22.8	534.7
4	0.0665	1.69	192.1	33.6	2888	19.9	19.7	224.2	39.3	3372	23.2	541.4
5	0.0625	1.59	180.7	31.6	2891	19.9	18.8	225.0	39.4	3600	24.8	548.1
Avg.			177.7	31.1	2850	19.7	20.2	224.9	39.4	3615	24.9	576.4
S.D.			11.3	2.0	96	0.7	2.4	15.2	2.7	283	2.0	48.3

Spec. #	Cross-Roll Direction											
	Thickness		Yield					Break				
			Tension		Stress		Elongation	Tension		Stress		Elongation
	(in)	(mm)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)
1	0.0635	1.61	180.7	31.6	2846	19.6	17.7	208.2	36.5	3278	22.6	554.7
2	0.0605	1.54	162.8	28.5	2691	18.6	16.8	193.2	33.8	3193	22.0	574.8
3	0.0640	1.63	178.7	31.3	2792	19.3	17.1	177.9	31.1	2779	19.2	476.3
4	0.0675	1.71	193.7	33.9	2870	19.8	19.8	155.3	27.2	2301	15.9	364.8
5	0.0635	1.61	173.5	30.4	2733	18.8	17.6	177.7	31.1	2799	19.3	485.1
Avg.			177.9	31.2	2786	19.2	17.8	182.4	32.0	2870	19.8	491.1
S.D.			11.2	2.0	75	0.5	1.2	19.7	3.5	390	2.7	82.5

Notes:

All tests are performed on Type IV specimens at a test speed of 2 in./min.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

Thickness measurements are performed in accordance with ASTM D5199 and D5994 for smooth and textured membranes, respectively.

Yield and break elongation values are calculated based on the total cross-head displacement using gauge length values of 33 mm (1.3 in.) and 50 mm (1.97 in.), respectively.

Modulus of elasticity values are not presented.

JW 12/12/01

TENSILE PROPERTIES

ASTM D638 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107755
Sample Number:	5909
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	YIELD: 126 ppi; 12% AND BREAK: 90 ppi; 100%
Date Received:	11/14/01

Spec. #	Roll Direction											
	Thickness		Yield					Break				
			Tension		Stress		Elongation	Tension		Stress		Elongation
	(in)	(mm)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)
1	0.0665	1.69	179.1	31.4	2693	18.6	20.8	180.7	31.6	2717	18.7	414.0
2	0.0635	1.61	187.2	32.8	2948	20.3	18.2	241.7	42.3	3806	26.2	574.3
3	0.0650	1.65	181.1	31.7	2786	19.2	19.1	223.8	39.2	3443	23.7	539.7
4	0.0660	1.68	183.7	32.2	2784	19.2	20.1	244.3	42.8	3702	25.5	579.9
5	0.0605	1.54	180.3	31.6	2980	20.5	19.5	216.1	37.8	3572	24.6	519.4
Avg.			182.3	31.9	2838	19.6	19.5	221.3	38.8	3448	23.8	525.5
S.D.			3.2	0.6	121	0.8	1.0	25.6	4.5	431	3.0	67.1

Spec. #	Cross-Roll Direction											
	Thickness		Yield					Break				
			Tension		Stress		Elongation	Tension		Stress		Elongation
	(in)	(mm)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)
1	0.0595	1.51	182.9	32.0	3074	21.2	16.3	203.7	35.7	3423	23.6	511.2
2	0.0655	1.66	197.0	34.5	3007	20.7	18.2	200.0	35.0	3053	21.0	477.2
3	0.0635	1.61	189.4	33.2	2983	20.6	18.2	202.1	35.4	3183	21.9	490.6
4	0.0670	1.70	196.6	34.4	2934	20.2	18.8	214.9	37.6	3207	22.1	524.0
5	0.0630	1.60	193.9	34.0	3078	21.2	18.7	152.5	26.7	2421	16.7	399.0
Avg.			192.0	33.6	3015	20.8	18.0	194.6	34.1	3057	21.1	480.4
S.D.			5.9	1.0	61	0.4	1.0	24.2	4.2	380	2.6	48.9

Notes:

All tests are performed on Type IV specimens at a test speed of 2 in./min.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.
Thickness measurements are performed in accordance with ASTM D5199 and D5994 for smooth and textured membranes, respectively.
Yield and break elongation values are calculated based on the total cross-head displacement using gauge length values of 33 mm (1.3 in.) and 50 mm (1.97 in.), respectively.
Modulus of elasticity values are not presented.

JW 12/14/01

TENSILE PROPERTIES
ASTM D638 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107766
Sample Number:	6006
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	YIELD: 126 ppi; 12% AND BREAK: 90 ppi; 100%
Date Received:	11/26/01

Spec. #	Roll Direction											
	Thickness		Yield					Break				
			Tension		Stress		Elongation	Tension		Stress		Elongation
	(in)	(mm)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)
1	0.0615	1.56	161.4	28.3	2624	18.1	18.4	219.9	38.5	3576	24.7	585.3
2	0.0620	1.57	170.9	29.9	2757	19.0	19.3	150.0	26.3	2419	16.7	193.2
3	0.0665	1.69	180.3	31.6	2711	18.7	19.3	218.1	38.2	3279	22.6	547.3
4	0.0655	1.66	173.2	30.3	2644	18.2	17.4	230.4	40.3	3517	24.2	594.0
5	0.0665	1.69	169.1	29.6	2543	17.5	18.8	203.0	35.6	3053	21.0	514.2
Avg.			171.0	29.9	2656	18.3	18.7	204.3	35.8	3169	21.8	486.8
S.D.			6.8	1.2	82	0.6	0.8	31.9	5.6	468	3.2	167.2

Spec. #	Cross-Roll Direction											
	Thickness		Yield					Break				
			Tension		Stress		Elongation	Tension		Stress		Elongation
	(in)	(mm)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)
1	0.0610	1.55	170.1	29.8	2789	19.2	17.3	193.0	33.8	3164	21.8	527.5
2	0.0660	1.68	180.7	31.6	2738	18.9	18.9	207.9	36.4	3150	21.7	540.9
3	0.0650	1.65	181.7	31.8	2795	19.3	17.3	230.7	40.4	3549	24.5	607.7
4	0.0610	1.55	167.7	29.4	2749	19.0	20.6	188.9	33.1	3096	21.3	378.8
5	0.0665	1.69	167.7	29.4	2522	17.4	17.1	202.4	35.5	3044	21.0	562.4
Avg.			173.6	30.4	2719	18.7	18.2	204.6	35.8	3201	22.1	523.5
S.D.			7.0	1.2	113	0.8	1.5	16.4	2.9	200	1.4	86.4

Notes:

All tests are performed on Type IV specimens at a test speed of 2 in./min.

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.
Thickness measurements are performed in accordance with ASTM D5199 and D5994 for smooth and textured membranes, respectively.
Yield and break elongation values are calculated based on the total cross-head displacement using gauge length values of 33 mm (1.3 in.) and 50 mm (1.97 in.), respectively.
Modulus of elasticity values are not presented.

JW 12/12/01

TENSILE PROPERTIES

ASTM D638 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107786
Sample Number:	6007
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	YIELD: 126 ppi; 12% AND BREAK: 90 ppi; 100%
Date Received:	11/26/01

Spec. #	Roll Direction											
	Thickness		Yield					Break				
			Tension		Stress		Elongation	Tension		Stress		Elongation
	(in)	(mm)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)
1	0.0650	1.65	181.3	31.7	2789	19.2	19.9	215.1	37.7	3309	22.8	537.4
2	0.0580	1.47	158.9	27.8	2740	18.9	17.9	174.4	30.5	3007	20.7	424.2
3	0.0675	1.71	182.9	32.0	2710	18.7	16.8	199.6	35.0	2957	20.4	471.0
4	0.0650	1.65	190.5	33.4	2930	20.2	17.4	222.0	38.9	3415	23.5	517.8
5	0.0610	1.55	166.7	29.2	2732	18.8	17.7	196.1	34.3	3215	22.2	485.6
Avg.			176.0	30.8	2780	19.2	17.9	201.4	35.3	3181	21.9	487.2
S.D.			12.9	2.3	89	0.6	1.2	18.5	3.2	195	1.3	43.8

Spec. #	Cross-Roll Direction											
	Thickness		Yield					Break				
			Tension		Stress		Elongation	Tension		Stress		Elongation
	(in)	(mm)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)
1	0.0675	1.71	195.8	34.3	2900	20.0	19.7	194.9	34.1	2887	19.9	485.6
2	0.0655	1.66	176.4	30.9	2693	18.6	19.0	223.5	39.1	3412	23.5	599.1
3	0.0690	1.75	186.4	32.6	2701	18.6	19.9	212.8	37.3	3084	21.3	524.3
4	0.0665	1.69	195.5	34.2	2940	20.3	20.0	150.6	26.4	2265	15.6	200.6
5	0.0625	1.59	164.3	28.8	2628	18.1	17.4	200.0	35.0	3200	22.1	565.6
Avg.			183.7	32.2	2772	19.1	19.2	196.4	34.4	2970	20.5	475.0
S.D.			13.4	2.4	138	1.0	1.1	27.9	4.9	437	3.0	159.3

Notes:

All tests are performed on Type IV specimens at a test speed of 2 in./min.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.
Thickness measurements are performed in accordance with ASTM D5199 and D5994 for smooth and textured membranes, respectively.
Yield and break elongation values are calculated based on the total cross-head displacement using gauge length values of 33 mm (1.3 in.) and 50 mm (1.97 in.), respectively.
Modulus of elasticity values are not presented.

JW 12/12/01

TENSILE PROPERTIES

ASTM D638 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107803
Sample Number:	6008
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	YIELD: 126 ppi; 12% AND BREAK: 90 ppi; 100%
Date Received:	11/26/01

Spec. #	Roll Direction											
	Thickness		Yield					Break				
			Tension		Stress		Elongation	Tension		Stress		Elongation
	(in)	(mm)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)
1	0.0650	1.65	185.9	32.6	2860	19.7	19.9	246.4	43.2	3791	26.1	595.2
2	0.0610	1.55	174.2	30.5	2856	19.7	20.6	233.0	40.8	3819	26.3	601.9
3	0.0580	1.47	172.6	30.2	2975	20.5	17.8	141.1	24.7	2432	16.8	304.3
4	0.0660	1.68	193.0	33.8	2924	20.2	19.5	221.4	38.8	3355	23.1	511.3
5	0.0595	1.51	173.6	30.4	2917	20.1	20.8	226.4	39.6	3805	26.2	598.2
Avg.			179.8	31.5	2906	20.0	19.7	213.7	37.4	3440	23.7	522.2
S.D.			9.1	1.6	50	0.3	1.2	41.7	7.3	597	4.1	127.5

Spec. #	Cross-Roll Direction											
	Thickness		Yield					Break				
			Tension		Stress		Elongation	Tension		Stress		Elongation
	(in)	(mm)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)
1	0.0640	1.63	192.4	33.7	3007	20.7	16.8	182.1	31.9	2846	19.6	455.8
2	0.0610	1.55	189.5	33.2	3107	21.4	17.9	215.9	37.8	3540	24.4	569.4
3	0.0640	1.63	201.4	35.3	3147	21.7	18.6	252.4	44.2	3943	27.2	622.8
4	0.0620	1.57	177.0	31.0	2855	19.7	18.9	223.0	39.0	3596	24.8	598.4
5	0.0650	1.65	190.6	33.4	2933	20.2	18.6	213.0	37.3	3277	22.6	522.5
Avg.			190.2	33.3	3010	20.8	18.2	217.3	38.1	3440	23.7	553.8
S.D.			8.7	1.5	121	0.8	0.8	25.1	4.4	408	2.8	66.3

Notes:

All tests are performed on Type IV specimens at a test speed of 2 in./min.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.
Thickness measurements are performed in accordance with ASTM D5199 and D5994 for smooth and textured membranes, respectively.
Yield and break elongation values are calculated based on the total cross-head displacement using gauge length values of 33 mm (1.3 in.) and 50 mm (1.97 in.), respectively.
Modulus of elasticity values are not presented.

JW 12/12/01

INITIAL TEAR RESISTANCE

ASTM D1004 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 103109590
Sample Number:	5901
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	42 lbs
Date Received:	11/14/01

Spec. #	Thickness				Tear Resistance				Tear Strength			
	RD		XD		RD		XD		RD		XD	
	(in)	(mm)	(in)	(mm)	(lb)	(N)	(lb)	(N)	(lb/in)	(N/mm)	(lb/in)	(N/mm)
1	0.0655	1.66	0.0655	1.66	64.9	288.7	59.4	264.0	990.8	173.5	906.1	158.7
2	0.0675	1.71	0.0650	1.65	66.2	294.6	59.6	265.1	981.0	171.8	916.9	160.6
3	0.0670	1.70	0.0630	1.60	60.8	270.5	62.6	278.5	907.5	158.9	993.7	174.0
4	0.0670	1.70	0.0645	1.64	64.3	285.9	63.1	280.8	959.3	168.0	978.6	171.4
5	0.0640	1.63	0.0670	1.70	64.6	287.1	64.5	286.9	1008.6	176.6	962.7	168.6
6	0.0685	1.74	0.0595	1.51	65.4	291.0	59.7	265.4	955.0	167.3	1002.9	175.6
7	0.0655	1.66	0.0625	1.59	62.6	278.3	59.4	264.1	955.3	167.3	949.9	166.4
8	0.0655	1.66	0.0600	1.52	63.5	282.3	62.0	275.9	969.0	169.7	1033.7	181.0
9	0.0610	1.55	0.0615	1.56	59.6	265.2	59.8	266.0	977.4	171.2	972.4	170.3
10	0.0665	1.69	0.0640	1.63	65.3	290.3	59.4	264.1	981.5	171.9	927.7	162.5
Avg.	0.0658	1.67	0.0633	1.61	63.7	283.4	60.9	271.1	968.5	169.6	964.4	168.9
S.D.	0.0021	0.05	0.0024	0.06	2.1	9.5	1.9	8.6	27.2	4.8	40.3	7.1

Notes:

RD: Roll Direction
XD: Cross-Roll Direction

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.
Thickness measurements are performed in accordance with ASTM D5199 and D5994 for smooth and textured membranes, respectively.

12.01

JW 12/12/01

INITIAL TEAR RESISTANCE

ASTM D1004 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 103109606
Sample Number:	5992
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	42 lbs
Date Received:	11/26/01

Spec. #	Thickness				Tear Resistance				Tear Strength			
	RD		XD		RD		XD		RD		XD	
	(in)	(mm)	(in)	(mm)	(lb)	(N)	(lb)	(N)	(lb/in)	(N/mm)	(lb/in)	(N/mm)
1	0.0635	1.61	0.0645	1.64	59.7	265.3	69.9	311.0	939.4	164.5	1084.0	189.8
2	0.0635	1.61	0.0640	1.63	66.3	294.9	58.7	261.1	1044.1	182.8	917.2	160.6
3	0.0630	1.60	0.0630	1.60	54.5	242.5	57.9	257.6	865.4	151.6	919.4	161.0
4	0.0665	1.69	0.0625	1.59	59.3	263.6	58.4	259.8	891.3	156.1	934.4	163.6
5	0.0655	1.66	0.0590	1.50	53.2	236.6	57.2	254.2	812.2	142.2	968.6	169.6
6	0.0645	1.64	0.0645	1.64	61.6	274.1	55.1	245.2	955.3	167.3	854.6	149.7
7	0.0635	1.61	0.0640	1.63	60.5	269.1	62.7	278.9	952.8	166.9	979.7	171.6
8	0.0625	1.59	0.0645	1.64	61.8	275.0	55.3	246.1	989.1	173.2	857.7	150.2
9	0.0655	1.66	0.0660	1.68	66.7	296.6	57.7	256.4	1017.9	178.3	873.5	153.0
10	0.0585	1.49	0.0670	1.70	66.3	295.0	55.4	246.5	1133.7	198.5	827.2	144.9
Avg.	0.0637	1.62	0.0639	1.62	61.0	271.3	58.8	261.7	960.1	168.1	921.6	161.4
S.D.	0.0022	0.06	0.0022	0.05	4.7	20.8	4.5	19.9	92.8	16.2	76.0	13.3

Notes:

RD: Roll Direction
XD: Cross-Roll Direction

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.
Thickness measurements are performed in accordance with ASTM D5199 and D5994 for smooth and textured membranes, respectively.

JW 12/12/01

INITIAL TEAR RESISTANCE

ASTM D1004 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 104108413
Sample Number:	5905
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	42 lbs
Date Received:	11/14/01

Spec. #	Thickness				Tear Resistance				Tear Strength			
	RD		XD		RD		XD		RD		XD	
	(in)	(mm)	(in)	(mm)	(lb)	(N)	(lb)	(N)	(lb/in)	(N/mm)	(lb/in)	(N/mm)
1	0.0580	1.47	0.0590	1.50	52.1	231.5	57.1	254.1	897.4	157.2	968.1	169.5
2	0.0575	1.46	0.0615	1.56	54.0	240.3	55.3	246.1	939.5	164.5	899.5	157.5
3	0.0615	1.56	0.0615	1.56	56.1	249.4	59.2	263.1	911.7	159.7	961.8	168.4
4	0.0650	1.65	0.0570	1.45	57.0	253.5	56.7	252.1	876.9	153.6	994.2	174.1
5	0.0605	1.54	0.0605	1.54	57.1	254.1	51.1	227.1	944.1	165.3	843.8	147.8
6	0.0590	1.50	0.0615	1.56	57.0	253.4	53.9	239.8	965.6	169.1	876.4	153.5
7	0.0575	1.46	0.0605	1.54	55.8	248.2	54.2	241.2	970.4	169.9	896.2	156.9
8	0.0650	1.65	0.0625	1.59	58.6	260.5	52.5	233.3	901.1	157.8	839.2	147.0
9	0.0645	1.64	0.0615	1.56	59.9	266.5	52.4	232.9	929.0	162.7	851.2	149.1
10	0.0630	1.60	0.0625	1.59	54.1	240.6	53.4	237.3	858.7	150.4	853.6	149.5
Avg.	0.0612	1.55	0.0608	1.54	56.2	249.8	54.6	242.7	919.4	161.0	898.4	157.3
S.D.	0.0031	0.08	0.0017	0.04	2.3	10.3	2.5	11.1	36.8	6.5	57.0	10.0

Notes:

RD: Roll Direction
XD: Cross-Roll Direction

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.
Thickness measurements are performed in accordance with ASTM D5199 and D5994 for smooth and textured membranes, respectively.

JW 12/12/01

INITIAL TEAR RESISTANCE

ASTM D1004 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 104108438
Sample Number:	5906
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	42 lbs
Date Received:	11/14/01

Spec. #	Thickness				Tear Resistance				Tear Strength			
	RD		XD		RD		XD		RD		XD	
	(in)	(mm)	(in)	(mm)	(lb)	(N)	(lb)	(N)	(lb/in)	(N/mm)	(lb/in)	(N/mm)
1	0.0650	1.65	0.0640	1.63	59.6	265.2	57.0	253.6	917.2	160.6	890.9	156.0
2	0.0670	1.70	0.0630	1.60	53.9	239.8	56.3	250.3	804.8	140.9	893.2	156.4
3	0.0600	1.52	0.0610	1.55	58.7	261.1	57.7	256.4	978.3	171.3	945.1	165.5
4	0.0610	1.55	0.0605	1.54	55.7	247.9	53.7	238.9	913.4	160.0	887.6	155.4
5	0.0625	1.59	0.0600	1.52	55.3	246.1	57.1	254.0	885.1	155.0	951.7	166.7
6	0.0650	1.65	0.0630	1.60	57.0	253.5	53.3	237.1	876.9	153.6	846.0	148.2
7	0.0620	1.57	0.0645	1.64	58.3	259.4	58.3	259.4	940.6	164.7	904.2	158.3
8	0.0660	1.68	0.0605	1.54	60.5	268.9	57.2	254.2	915.9	160.4	944.6	165.4
9	0.0585	1.49	0.0615	1.56	59.3	263.8	56.5	251.1	1013.7	177.5	917.9	160.7
10	0.0635	1.61	0.0635	1.61	57.1	253.8	56.5	251.3	898.4	157.3	889.8	155.8
Avg.	0.0631	1.60	0.0622	1.58	57.5	256.0	56.3	250.6	914.4	160.1	907.1	158.9
S.D.	0.0027	0.07	0.0016	0.04	2.1	9.3	1.6	7.2	56.9	10.0	33.0	5.8

Notes:

RD: Roll Direction
XD: Cross-Roll Direction

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.
Thickness measurements are performed in accordance with ASTM D5199 and D5994 for smooth and textured membranes, respectively.

JW 12/12/01

INITIAL TEAR RESISTANCE

ASTM D1004 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107690
Sample Number:	5908
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	42 lbs
Date Received:	11/14/01

Spec. #	Thickness				Tear Resistance				Tear Strength			
	RD		XD		RD		XD		RD		XD	
	(in)	(mm)	(in)	(mm)	(lb)	(N)	(lb)	(N)	(lb/in)	(N/mm)	(lb/in)	(N/mm)
1	0.0650	1.65	0.0635	1.61	60.9	270.9	52.8	234.7	936.9	164.1	831.0	145.5
2	0.0630	1.60	0.0625	1.59	62.5	277.8	54.6	243.0	991.3	173.6	873.9	153.0
3	0.0650	1.65	0.0590	1.50	66.2	294.3	56.8	252.7	1018.0	178.3	962.7	168.6
4	0.0655	1.66	0.0590	1.50	62.2	276.7	56.5	251.3	949.6	166.3	957.6	167.7
5	0.0665	1.69	0.0645	1.64	57.5	255.9	60.6	269.6	865.0	151.5	939.5	164.5
6	0.0620	1.57	0.0680	1.73	60.7	270.0	60.3	268.2	979.0	171.5	886.8	155.3
7	0.0630	1.60	0.0635	1.61	57.9	257.4	59.6	265.2	918.6	160.9	938.9	164.4
8	0.0605	1.54	0.0660	1.68	57.2	254.3	63.6	283.0	945.0	165.5	963.9	168.8
9	0.0620	1.57	0.0665	1.69	61.3	272.8	56.6	251.5	989.0	173.2	850.4	148.9
10	0.0615	1.56	0.0630	1.60	62.8	279.3	61.3	272.8	1021.1	178.8	973.3	170.5
Avg.	0.0634	1.61	0.0636	1.61	60.9	270.9	58.3	259.2	961.4	168.4	917.8	160.7
S.D.	0.0020	0.05	0.0029	0.07	2.8	12.4	3.4	14.9	48.2	8.4	52.4	9.2

Notes:

RD: Roll Direction
XD: Cross-Roll Direction

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.
Thickness measurements are performed in accordance with ASTM D5199 and D5994 for smooth and textured membranes, respectively.

JW 12/12/01

INITIAL TEAR RESISTANCE

ASTM D1004 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107696
Sample Number:	5995
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	42 lbs
Date Received:	11/26/01

Spec. #	Thickness				Tear Resistance				Tear Strength			
	RD		XD		RD		XD		RD		XD	
	(in)	(mm)	(in)	(mm)	(lb)	(N)	(lb)	(N)	(lb/in)	(N/mm)	(lb/in)	(N/mm)
1	0.0650	1.65	0.0645	1.64	57.1	253.9	58.1	258.3	878.0	153.8	900.3	157.7
2	0.0620	1.57	0.0650	1.65	54.9	244.0	56.1	249.6	884.7	154.9	863.4	151.2
3	0.0580	1.47	0.0645	1.64	51.3	228.2	50.3	223.7	884.5	154.9	779.8	136.6
4	0.0615	1.56	0.0605	1.54	60.4	268.5	57.9	257.4	981.3	171.9	956.5	167.5
5	0.0615	1.56	0.0640	1.63	51.1	227.3	53.0	235.8	830.9	145.5	828.4	145.1
6	0.0640	1.63	0.0590	1.50	53.6	238.4	51.0	226.9	837.5	146.7	864.7	151.4
7	0.0650	1.65	0.0600	1.52	58.7	261.2	52.8	234.9	903.4	158.2	880.0	154.1
8	0.0630	1.60	0.0635	1.61	60.2	267.9	52.9	235.4	955.9	167.4	833.4	145.9
9	0.0615	1.56	0.0640	1.63	54.3	241.4	54.2	240.9	882.4	154.5	846.1	148.2
10	0.0605	1.54	0.0595	1.51	53.0	235.8	52.6	234.0	876.4	153.5	884.0	154.8
Avg.	0.0622	1.58	0.0625	1.59	55.5	246.7	53.9	239.7	891.5	156.1	863.7	151.3
S.D.	0.0021	0.05	0.0024	0.06	3.5	15.4	2.7	11.9	46.6	8.2	47.3	8.3

Notes:

RD: Roll Direction
XD: Cross-Roll Direction

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.
Thickness measurements are performed in accordance with ASTM D5199 and D5994 for smooth and textured membranes, respectively.

12.12.01 JW 12/12/01

INITIAL TEAR RESISTANCE

ASTM D1004 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107698
Sample Number:	5996
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	42 lbs
Date Received:	11/26/01

Spec. #	Thickness				Tear Resistance				Tear Strength			
	RD		XD		RD		XD		RD		XD	
	(in)	(mm)	(in)	(mm)	(lb)	(N)	(lb)	(N)	(lb/in)	(N/mm)	(lb/in)	(N/mm)
1	0.0620	1.57	0.0595	1.51	60.2	267.6	53.1	236.3	970.5	170.0	892.8	156.3
2	0.0620	1.57	0.0635	1.61	52.1	231.6	54.4	242.0	839.8	147.1	856.7	150.0
3	0.0650	1.65	0.0645	1.64	52.2	232.1	55.1	244.9	802.6	140.6	853.5	149.5
4	0.0625	1.59	0.0575	1.46	52.4	232.9	51.5	228.9	837.6	146.7	895.1	156.8
5	0.0580	1.47	0.0615	1.56	52.3	232.6	50.9	226.5	901.7	157.9	828.0	145.0
6	0.0585	1.49	0.0595	1.51	53.5	237.8	54.1	240.4	913.7	160.0	908.4	159.1
7	0.0630	1.60	0.0610	1.55	54.9	244.0	54.9	244.3	870.6	152.5	900.3	157.7
8	0.0585	1.49	0.0610	1.55	54.5	242.3	61.4	273.2	931.1	163.1	1006.9	176.3
9	0.0600	1.52	0.0620	1.57	54.3	241.6	50.4	224.1	905.3	158.5	812.4	142.3
10	0.0645	1.64	0.0640	1.63	57.0	253.4	54.7	243.4	883.3	154.7	855.0	149.7
Avg.	0.0614	1.56	0.0614	1.56	54.3	241.6	54.0	240.4	885.6	155.1	880.9	154.3
S.D.	0.0025	0.06	0.0022	0.06	2.6	11.5	3.1	13.9	49.7	8.7	54.6	9.6

Notes:

RD: Roll Direction
XD: Cross-Roll Direction

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.
Thickness measurements are performed in accordance with ASTM D5199 and D5994 for smooth and textured membranes, respectively.

12.10.01

JW 12/12/01

INITIAL TEAR RESISTANCE

ASTM D1004 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107717
Sample Number:	5999
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	42 lbs
Date Received:	11/26/01

Spec. #	Thickness				Tear Resistance				Tear Strength			
	RD		XD		RD		XD		RD		XD	
	(in)	(mm)	(in)	(mm)	(lb)	(N)	(lb)	(N)	(lb/in)	(N/mm)	(lb/in)	(N/mm)
1	0.0610	1.55	0.0690	1.75	54.1	240.6	62.3	277.1	886.9	155.3	902.9	158.1
2	0.0660	1.68	0.0650	1.65	60.4	268.5	51.1	227.1	914.4	160.1	785.4	137.5
3	0.0640	1.63	0.0695	1.77	55.1	245.1	61.6	274.0	860.9	150.8	886.3	155.2
4	0.0670	1.70	0.0645	1.64	60.1	267.3	53.9	239.5	897.0	157.1	834.9	146.2
5	0.0635	1.61	0.0650	1.65	57.5	255.8	61.7	274.5	905.5	158.6	949.2	166.2
6	0.0615	1.56	0.0645	1.64	62.2	276.5	53.1	236.0	1010.6	177.0	822.5	144.0
7	0.0655	1.66	0.0680	1.73	54.9	244.0	58.4	259.6	837.4	146.7	858.1	150.3
8	0.0690	1.75	0.0595	1.51	56.2	250.0	51.8	230.4	814.5	142.6	870.6	152.5
9	0.0645	1.64	0.0670	1.70	55.7	247.8	59.2	263.3	863.6	151.2	883.6	154.7
10	0.0685	1.74	0.0605	1.54	63.4	282.0	56.3	250.4	925.5	162.1	930.6	163.0
Avg.	0.0651	1.65	0.0653	1.66	57.9	257.8	56.9	253.2	891.6	156.1	872.4	152.8
S.D.	0.0027	0.07	0.0033	0.08	3.3	14.7	4.3	19.1	54.4	9.5	49.7	8.7

Notes:

RD: Roll Direction
XD: Cross-Roll Direction

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.
Thickness measurements are performed in accordance with ASTM D5199 and D5994 for smooth and textured membranes, respectively.

JW 12/4/01

INITIAL TEAR RESISTANCE

ASTM D1004 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107728
Sample Number:	6001
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	42 lbs
Date Received:	11/26/01

Spec. #	Thickness				Tear Resistance				Tear Strength			
	RD		XD		RD		XD		RD		XD	
	(in)	(mm)	(in)	(mm)	(lb)	(N)	(lb)	(N)	(lb/in)	(N/mm)	(lb/in)	(N/mm)
1	0.0650	1.65	0.0675	1.71	58.8	261.3	57.7	256.4	903.8	158.3	854.1	149.6
2	0.0680	1.73	0.0625	1.59	57.7	256.4	55.4	246.4	847.8	148.5	886.4	155.2
3	0.0680	1.73	0.0685	1.74	60.4	268.5	60.8	270.5	887.5	155.4	887.6	155.4
4	0.0660	1.68	0.0620	1.57	57.8	257.1	57.5	255.8	875.8	153.4	927.4	162.4
5	0.0645	1.64	0.0675	1.71	55.5	246.9	58.4	259.6	860.5	150.7	864.4	151.4
6	0.0630	1.60	0.0635	1.61	54.7	243.1	55.6	247.3	867.5	151.9	875.6	153.3
7	0.0615	1.56	0.0630	1.60	54.9	244.2	56.1	249.3	892.7	156.3	889.7	155.8
8	0.0635	1.61	0.0630	1.60	55.3	246.0	53.5	238.0	870.9	152.5	849.2	148.7
9	0.0675	1.71	0.0620	1.57	55.5	246.9	56.1	249.5	822.2	144.0	904.8	158.5
10	0.0650	1.65	0.0660	1.68	55.2	245.5	53.1	236.2	849.2	148.7	804.5	140.9
Avg.	0.0652	1.66	0.0646	1.64	56.6	251.6	56.4	250.9	867.8	152.0	874.4	153.1
S.D.	0.0022	0.06	0.0025	0.06	1.9	8.6	2.3	10.2	24.2	4.2	33.9	5.9

Notes:

RD: Roll Direction
XD: Cross-Roll Direction

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.
Thickness measurements are performed in accordance with ASTM D5199 and D5994 for smooth and textured membranes, respectively.

JW 12/4/01

INITIAL TEAR RESISTANCE

ASTM D1004 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107744
Sample Number:	6004
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	42 lbs
Date Received:	11/26/01

Spec. #	Thickness				Tear Resistance				Tear Strength			
	RD		XD		RD		XD		RD		XD	
	(in)	(mm)	(in)	(mm)	(lb)	(N)	(lb)	(N)	(lb/in)	(N/mm)	(lb/in)	(N/mm)
1	0.0680	1.73	0.0650	1.65	58.6	260.7	51.9	230.6	861.8	150.9	797.7	139.7
2	0.0655	1.66	0.0610	1.55	58.9	261.8	48.9	217.3	898.5	157.3	800.8	140.2
3	0.0690	1.75	0.0630	1.60	57.4	255.3	50.5	224.6	831.9	145.7	801.6	140.4
4	0.0685	1.74	0.0615	1.56	58.8	261.6	51.1	227.3	858.4	150.3	830.9	145.5
5	0.0665	1.69	0.0630	1.60	58.2	258.7	51.1	227.1	874.4	153.1	810.3	141.9
6	0.0685	1.74	0.0640	1.63	61.4	272.9	48.2	214.4	895.6	156.8	753.1	131.9
7	0.0580	1.47	0.0660	1.68	50.0	222.2	59.1	262.7	861.2	150.8	894.7	156.7
8	0.0590	1.50	0.0670	1.70	53.0	235.8	60.1	267.1	898.3	157.3	896.3	157.0
9	0.0640	1.63	0.0665	1.69	50.9	226.2	57.4	255.1	794.5	139.1	862.4	151.0
10	0.0625	1.59	0.0690	1.75	54.5	242.4	59.0	262.2	872.0	152.7	854.3	149.6
Avg.	0.0650	1.65	0.0646	1.64	56.1	249.7	53.7	238.8	864.7	151.4	830.2	145.4
S.D.	0.0040	0.10	0.0026	0.06	3.8	17.0	4.6	20.5	32.4	5.7	46.2	8.1

Notes:

RD: Roll Direction
XD: Cross-Roll Direction

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.
Thickness measurements are performed in accordance with ASTM D5199 and D5994 for smooth and textured membranes, respectively.

Jw 12/3/01

INITIAL TEAR RESISTANCE

ASTM D1004 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107749
Sample Number:	6005
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	42 lbs
Date Received:	11/26/01

Spec. #	Thickness				Tear Resistance				Tear Strength			
	RD		XD		RD		XD		RD		XD	
	(in)	(mm)	(in)	(mm)	(lb)	(N)	(lb)	(N)	(lb/in)	(N/mm)	(lb/in)	(N/mm)
1	0.0660	1.68	0.0650	1.65	63.5	282.2	53.0	235.5	961.4	168.4	814.6	142.7
2	0.0655	1.66	0.0655	1.66	60.5	269.1	55.6	247.3	923.7	161.8	848.9	148.7
3	0.0605	1.54	0.0660	1.68	61.2	272.2	60.9	270.7	1011.6	177.2	922.0	161.5
4	0.0655	1.66	0.0625	1.59	63.1	280.5	55.3	245.8	962.6	168.6	884.0	154.8
5	0.0625	1.59	0.0645	1.64	56.1	249.5	56.6	251.5	897.6	157.2	876.7	153.5
6	0.0695	1.77	0.0620	1.57	64.3	286.0	57.6	256.0	925.2	162.0	928.2	162.6
7	0.0660	1.68	0.0685	1.74	58.6	260.7	64.8	288.2	887.9	155.5	946.0	165.7
8	0.0615	1.56	0.0635	1.61	54.4	241.8	59.0	262.2	883.7	154.8	928.3	162.6
9	0.0640	1.63	0.0600	1.52	58.1	258.4	53.6	238.4	907.8	159.0	893.3	156.4
10	0.0605	1.54	0.0665	1.69	54.4	241.8	65.1	289.4	898.3	157.3	978.2	171.3
Avg.	0.0642	1.63	0.0644	1.64	59.4	264.2	58.1	258.5	926.0	162.2	902.0	158.0
S.D.	0.0029	0.07	0.0025	0.06	3.7	16.4	4.3	19.1	40.9	7.2	48.3	8.5

Notes:

RD: Roll Direction
XD: Cross-Roll Direction

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.
Thickness measurements are performed in accordance with ASTM D5199 and D5994 for smooth and textured membranes, respectively.

JW 12/4/01

INITIAL TEAR RESISTANCE

ASTM D1004 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107755
Sample Number:	5909
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	42 lbs
Date Received:	11/14/01

Spec. #	Thickness				Tear Resistance				Tear Strength			
	RD		XD		RD		XD		RD		XD	
	(in)	(mm)	(in)	(mm)	(lb)	(N)	(lb)	(N)	(lb/in)	(N/mm)	(lb/in)	(N/mm)
1	0.0610	1.55	0.0680	1.73	62.8	279.1	60.4	268.5	1028.7	180.2	887.5	155.4
2	0.0630	1.60	0.0650	1.65	64.7	287.8	65.2	289.8	1027.0	179.9	1002.3	175.5
3	0.0620	1.57	0.0685	1.74	64.3	285.8	61.5	273.6	1036.3	181.5	897.8	157.2
4	0.0640	1.63	0.0620	1.57	59.6	264.9	55.1	244.9	930.5	163.0	887.9	155.5
5	0.0620	1.57	0.0670	1.70	59.7	265.6	56.6	251.8	962.9	168.6	844.8	147.9
6	0.0685	1.74	0.0690	1.75	66.4	295.1	61.1	271.6	968.6	169.6	884.8	154.9
7	0.0690	1.75	0.0630	1.60	69.0	306.9	57.2	254.2	1000.0	175.1	907.1	158.9
8	0.0660	1.68	0.0655	1.66	63.9	284.0	61.2	272.0	967.4	169.4	933.6	163.5
9	0.0670	1.70	0.0635	1.61	64.3	286.0	64.2	285.6	959.7	168.1	1011.0	177.1
10	0.0660	1.68	0.0640	1.63	59.3	263.8	64.4	286.5	898.5	157.3	1006.3	176.2
Avg.	0.0649	1.65	0.0656	1.66	63.4	281.9	60.7	269.8	978.0	171.3	926.3	162.2
S.D.	0.0028	0.07	0.0025	0.06	3.1	14.0	3.5	15.4	45.0	7.9	59.6	10.4

Notes:

RD: Roll Direction
XD: Cross-Roll Direction

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.
Thickness measurements are performed in accordance with ASTM D5199 and D5994 for smooth and textured membranes, respectively.

JW 12/4/01

INITIAL TEAR RESISTANCE

ASTM D1004 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107766
Sample Number:	6006
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	42 lbs
Date Received:	11/26/01

Spec. #	Thickness				Tear Resistance				Tear Strength			
	RD		XD		RD		XD		RD		XD	
	(in)	(mm)	(in)	(mm)	(lb)	(N)	(lb)	(N)	(lb/in)	(N/mm)	(lb/in)	(N/mm)
1	0.0665	1.69	0.0630	1.60	59.4	264.2	53.3	237.1	893.2	156.4	846.0	148.2
2	0.0670	1.70	0.0635	1.61	62.9	279.8	61.6	273.8	938.8	164.4	969.3	169.7
3	0.0685	1.74	0.0635	1.61	54.0	240.2	52.6	233.8	788.3	138.1	827.6	144.9
4	0.0685	1.74	0.0625	1.59	60.2	267.8	58.4	259.8	878.8	153.9	934.4	163.6
5	0.0660	1.68	0.0670	1.70	56.3	250.2	55.9	248.4	852.3	149.3	833.6	146.0
6	0.0695	1.77	0.0630	1.60	62.3	276.9	61.2	272.2	895.7	156.9	971.4	170.1
7	0.0605	1.54	0.0690	1.75	61.9	275.3	56.8	252.4	1023.1	179.2	822.5	144.0
8	0.0660	1.68	0.0635	1.61	58.7	261.1	61.5	273.6	889.4	155.8	968.5	169.6
9	0.0645	1.64	0.0650	1.65	59.6	264.9	55.9	248.4	923.3	161.7	859.2	150.5
10	0.0600	1.52	0.0675	1.71	52.2	232.2	64.4	286.2	870.0	152.4	953.3	167.0
Avg.	0.0657	1.67	0.0648	1.64	58.7	261.3	58.1	258.6	895.3	156.8	898.6	157.4
S.D.	0.0032	0.08	0.0023	0.06	3.6	15.9	3.9	17.4	60.8	10.6	65.7	11.5

Notes:

RD: Roll Direction
XD: Cross-Roll Direction

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.
Thickness measurements are performed in accordance with ASTM D5199 and D5994 for smooth and textured membranes, respectively.

JW 12/4/01

INITIAL TEAR RESISTANCE

ASTM D1004 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107786
Sample Number:	6007
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	42 lbs
Date Received:	11/26/01

Spec. #	Thickness				Tear Resistance				Tear Strength			
	RD		XD		RD		XD		RD		XD	
	(in)	(mm)	(in)	(mm)	(lb)	(N)	(lb)	(N)	(lb/in)	(N/mm)	(lb/in)	(N/mm)
1	0.0670	1.70	0.0670	1.70	60.7	270.0	63.5	282.2	906.0	158.7	947.0	165.8
2	0.0695	1.77	0.0685	1.74	66.1	294.0	61.0	271.3	951.1	166.6	890.5	156.0
3	0.0660	1.68	0.0690	1.75	56.5	251.3	63.4	281.8	856.1	149.9	918.1	160.8
4	0.0625	1.59	0.0695	1.77	62.9	279.6	62.8	279.1	1005.6	176.1	902.9	158.1
5	0.0705	1.79	0.0650	1.65	70.5	313.6	61.0	271.3	1000.0	175.1	938.5	164.3
6	0.0655	1.66	0.0695	1.77	65.0	289.1	65.9	293.1	992.4	173.8	948.2	166.1
7	0.0650	1.65	0.0655	1.66	54.3	241.5	61.9	275.3	835.4	146.3	945.0	165.5
8	0.0685	1.74	0.0600	1.52	63.2	281.1	55.2	245.3	922.6	161.6	919.2	161.0
9	0.0685	1.74	0.0635	1.61	64.3	286.0	69.6	309.4	938.7	164.4	1095.3	191.8
10	0.0690	1.75	0.0600	1.52	66.0	293.4	54.3	241.3	955.8	167.4	904.2	158.3
Avg.	0.0672	1.71	0.0658	1.67	62.9	280.0	61.8	275.0	936.4	164.0	940.9	164.8
S.D.	0.0025	0.06	0.0036	0.09	4.8	21.2	4.5	20.2	58.1	10.2	58.0	10.2

Notes:

RD: Roll Direction
XD: Cross-Roll Direction

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.
Thickness measurements are performed in accordance with ASTM D5199 and D5994 for smooth and textured membranes, respectively.

JW 12/4/01

INITIAL TEAR RESISTANCE

ASTM D1004 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107803
Sample Number:	6008
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	42 lbs
Date Received:	11/26/01

Spec. #	Thickness				Tear Resistance				Tear Strength			
	RD		XD		RD		XD		RD		XD	
	(in)	(mm)	(in)	(mm)	(lb)	(N)	(lb)	(N)	(lb/in)	(N/mm)	(lb/in)	(N/mm)
1	0.0630	1.60	0.0630	1.60	63.4	281.8	57.0	253.5	1005.6	176.1	904.8	158.4
2	0.0605	1.54	0.0635	1.61	64.1	285.0	61.6	274.1	1059.0	185.5	970.4	169.9
3	0.0615	1.56	0.0640	1.63	57.7	256.7	64.9	288.5	938.2	164.3	1013.3	177.5
4	0.0615	1.56	0.0605	1.54	55.1	245.1	60.6	269.4	895.9	156.9	1001.2	175.3
5	0.0645	1.64	0.0620	1.57	55.0	244.7	55.8	248.0	853.0	149.4	899.2	157.5
6	0.0670	1.70	0.0660	1.68	68.5	304.5	64.8	288.2	1021.6	178.9	981.8	171.9
7	0.0645	1.64	0.0645	1.64	58.9	262.0	59.2	263.1	913.2	159.9	917.1	160.6
8	0.0635	1.61	0.0625	1.59	57.2	254.3	59.9	266.3	900.3	157.7	957.9	167.8
9	0.0610	1.55	0.0665	1.69	62.6	278.3	58.5	260.0	1025.7	179.6	878.9	153.9
10	0.0640	1.63	0.0645	1.64	64.4	286.2	63.0	280.3	1005.5	176.1	977.1	171.1
Avg.	0.0631	1.60	0.0637	1.62	60.7	269.9	60.5	269.2	961.8	168.4	950.2	166.4
S.D.	0.0020	0.05	0.0018	0.05	4.5	20.1	3.1	13.8	69.8	12.2	46.7	8.2

Notes:

RD: Roll Direction
XD: Cross-Roll Direction

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.
Thickness measurements are performed in accordance with ASTM D5199 and D5994 for smooth and textured membranes, respectively.

JW 12/12/01

12/12/01

CARBON BLACK CONTENT

ASTM D1603 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 103109590
Sample Number:	5901
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	2-3%
Date Received:	11/14/01

Specimen Number	Specimen Mass (g)	Crucible Mass (g)	Residue + Crucible Mass After Burning in N_2 (g)	Carbon Black Content (%)
1	0.3209	2.1830	2.1908	2.43
2	0.3243	2.2522	2.2599	2.37
Average				2.40

Notes:

(1) Deviations:
Each test specimen is 0.30±0.05 g.

SD

JW 12/12/01

CARBON BLACK CONTENT

ASTM D1603 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 103109606
Sample Number:	5992
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	2-3%
Date Received:	11/26/01

Specimen Number	Specimen Mass (g)	Crucible Mass (g)	Residue + Crucible Mass After Burning in N_2 (g)	Carbon Black Content (%)
1	0.2728	2.1308	2.1385	2.82
2	0.3098	2.2010	2.2099	2.87
Average				2.85

Notes:

(1) Deviations:
Each test specimen is 0.30±0.05 g.

JW 12/12/01

SD

CARBON BLACK CONTENT

ASTM D1603 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 104108413
Sample Number:	5905
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	2-3%
Date Received:	11/14/01

Specimen Number	Specimen Mass (g)	Crucible Mass (g)	Residue + Crucible Mass After Burning in N_2 (g)	Carbon Black Content (%)
1	0.3056	1.8243	1.8322	2.59
2	0.3499	2.4095	2.4188	2.66
Average				2.62

Notes:

(1) Deviations:
Each test specimen is 0.30±0.05 g.

JW 12/12/01

CARBON BLACK CONTENT

ASTM D1603 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 104108438
Sample Number:	5906
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	2-3%
Date Received:	11/14/01

Specimen Number	Specimen Mass (g)	Crucible Mass (g)	Residue + Crucible Mass After Burning in N_2 (g)	Carbon Black Content (%)
1	0.3444	2.2386	2.2465	2.29
2	0.3264	2.2527	2.2618	2.79
Average				2.54

Notes:

(1) Deviations:
Each test specimen is 0.30±0.05 g.

SD

JW 12/12/01

CARBON BLACK CONTENT

ASTM D1603 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107690
Sample Number:	5908
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	2-3%
Date Received:	11/14/01

Specimen Number	Specimen Mass (g)	Crucible Mass (g)	Residue + Crucible Mass After Burning in N_2 (g)	Carbon Black Content (%)
1	0.2936	2.1539	2.1615	2.59
2	0.3043	2.3296	2.3368	2.37
Average				2.48

Notes:

(1) Deviations:
Each test specimen is 0.30±0.05 g.

JW 12/12/01

SD

CARBON BLACK CONTENT

ASTM D1603 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107696
Sample Number:	5995
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	2-3%
Date Received:	11/26/01

Specimen Number	Specimen Mass (g)	Crucible Mass (g)	Residue + Crucible Mass After Burning in N_2 (g)	Carbon Black Content (%)
1	0.3321	2.0505	2.0583	2.35
2	0.3354	2.1883	2.1955	2.15
Average				2.25

Notes:

(1) Deviations:
Each test specimen is 0.30±0.05 g.

JW 12/12/01

SD

CARBON BLACK CONTENT

ASTM D1603 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107698
Sample Number:	5996
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	2-3%
Date Received:	11/26/01

Specimen Number	Specimen Mass (g)	Crucible Mass (g)	Residue + Crucible Mass After Burning in N_2 (g)	Carbon Black Content (%)
1	0.3284	2.1687	2.1767	2.44
2	0.3068	2.1579	2.1655	2.48
Average				2.46

Notes:

(1) Deviations:
Each test specimen is 0.30±0.05 g.

GD

JW 12/12/01

CARBON BLACK CONTENT

ASTM D1603 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107717
Sample Number:	5999
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	2-3%
Date Received:	11/26/01

Specimen Number	Specimen Mass (g)	Crucible Mass (g)	Residue + Crucible Mass After Burning in N_2 (g)	Carbon Black Content (%)
1	0.2875	2.0575	2.0638	2.19
2	0.3234	2.1910	2.1993	2.57
Average				2.38

Notes:

(1) Deviations:
Each test specimen is 0.30±0.05 g.

CARBON BLACK CONTENT

ASTM D1603 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107728
Sample Number:	6001
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	2-3%
Date Received:	11/26/01

Specimen Number	Specimen Mass (g)	Crucible Mass (g)	Residue + Crucible Mass After Burning in N_2 (g)	Carbon Black Content (%)
1	0.3032	2.1443	2.1529	2.84
2	0.2988	2.2208	2.2280	2.41
Average				2.62

Notes:

(1) Deviations:
Each test specimen is 0.30±0.05 g.

CARBON BLACK CONTENT

ASTM D1603 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107744
Sample Number:	6004
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	2-3%
Date Received:	11/26/01

Specimen Number	Specimen Mass (g)	Crucible Mass (g)	Residue + Crucible Mass After Burning in N_2 (g)	Carbon Black Content (%)
1	0.2986	2.1083	2.1157	2.48
2	0.3209	2.2218	2.2313	2.96
Average				2.72

Notes:

(1) Deviations:
Each test specimen is 0.30±0.05 g.

CARBON BLACK CONTENT

ASTM D1603 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107749
Sample Number:	6005
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	2-3%
Date Received:	11/26/01

Specimen Number	Specimen Mass (g)	Crucible Mass (g)	Residue + Crucible Mass After Burning in N_2 (g)	Carbon Black Content (%)
1	0.3009	2.2385	2.2455	2.33
2	0.2880	2.2547	2.2620	2.53
Average				2.43

Notes:

(1) Deviations:
Each test specimen is 0.30±0.05 g.

CARBON BLACK CONTENT

ASTM D1603 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107755
Sample Number:	5909
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	2-3%
Date Received:	11/14/01

Specimen Number	Specimen Mass (g)	Crucible Mass (g)	Residue + Crucible Mass After Burning in N_2 (g)	Carbon Black Content (%)
1	0.3355	2.2693	2.2777	2.50
2	0.3240	2.1787	2.1864	2.38
Average				2.44

Notes:

(1) Deviations:
Each test specimen is 0.30±0.05 g.

CARBON BLACK CONTENT

ASTM D1603 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107766
Sample Number:	6006
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	2-3%
Date Received:	11/26/01

Specimen Number	Specimen Mass (g)	Crucible Mass (g)	Residue + Crucible Mass After Burning in N_2 (g)	Carbon Black Content (%)
1	0.2913	2.0505	2.0581	2.61
2	0.3016	2.1320	2.1394	2.45
Average				2.53

Notes:

(1) Deviations:
Each test specimen is 0.30±0.05 g.

CARBON BLACK CONTENT

ASTM D1603 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107786
Sample Number:	6007
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	2-3%
Date Received:	11/26/01

Specimen Number	Specimen Mass (g)	Crucible Mass (g)	Residue + Crucible Mass After Burning in N_2 (g)	Carbon Black Content (%)
1	0.3032	2.2574	2.2646	2.37
2	0.3189	2.1988	2.2066	2.45
Average				2.41

Notes:

(1) Deviations:
Each test specimen is 0.30±0.05 g.

CARBON BLACK CONTENT

ASTM D1603 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107803
Sample Number:	6008
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	2-3%
Date Received:	11/26/01

Specimen Number	Specimen Mass (g)	Crucible Mass (g)	Residue + Crucible Mass After Burning in N_2 (g)	Carbon Black Content (%)
1	0.2973	2.1235	2.1309	2.49
2	0.2899	2.3293	2.3364	2.45
Average				2.47

Notes:

(1) Deviations:
Each test specimen is 0.30±0.05 g.

JW 12/12/01

SD

CARBON BLACK DISPERSION
ASTM D5596

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 103109590
Sample Number:	5901
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	CAT 1, 2, OR 3
Date Received:	11/14/01

Specimen Designation	Random Field of View (Rf)	Classification of Carbon Black Dispersion (-)
1	1	Cat.-1
	2	Cat.-2
2	1	Cat.-1
	2	Cat.-1
3	1	Cat.-1
	2	Cat.-1
4	1	Cat.-1
	2	Cat.-1
5	1	Cat.-1
	2	Cat.-1

Notes:

JW 12/12/01

CARBON BLACK DISPERSION
ASTM D5596

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 103109606
Sample Number:	5992
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	CAT 1, 2, OR 3
Date Received:	11/26/01

Specimen Designation	Random Field of View (Rf)	Classification of Carbon Black Dispersion (-)
1	1	Cat.-1
	2	Cat.-1
2	1	Cat.-1
	2	Cat.-1
3	1	Cat.-1
	2	Cat.-1
4	1	Cat.-1
	2	Cat.-1
5	1	Cat.-1
	2	Cat.-1

Notes:

12.12.01

JW 12/12/01

CARBON BLACK DISPERSION

ASTM D5596

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 104108413
Sample Number:	5905
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	CAT 1, 2, OR 3
Date Received:	11/14/01

Specimen Designation	Random Field of View (Rf)	Classification of Carbon Black Dispersion (-)
1	1	Cat.-1
	2	Cat.-1
2	1	Cat.-2
	2	Cat.-1
3	1	Cat.-1
	2	Cat.-1
4	1	Cat.-1
	2	Cat.-1
5	1	Cat.-1
	2	Cat.-1

Notes:

12.01

JW 12/12/01

CARBON BLACK DISPERSION
ASTM D5596

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 104108438
Sample Number:	5906
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	CAT 1, 2, OR 3
Date Received:	11/14/01

Specimen Designation	Random Field of View (Rf)	Classification of Carbon Black Dispersion (-)
1	1	Cat.-1
	2	Cat.-1
2	1	Cat.-1
	2	Cat.-1
3	1	Cat.-1
	2	Cat.-1
4	1	Cat.-1
	2	Cat.-1
5	1	Cat.-1
	2	Cat.-1

Notes:

12.01

JW 12/12/01

CARBON BLACK DISPERSION
ASTM D5596

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107690
Sample Number:	5908
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	CAT 1, 2, OR 3
Date Received:	11/14/01

Specimen Designation	Random Field of View (Rf)	Classification of Carbon Black Dispersion (-)
1	1	Cat.-1
	2	Cat.-1
2	1	Cat.-1
	2	Cat.-1
3	1	Cat.-1
	2	Cat.-1
4	1	Cat.-1
	2	Cat.-1
5	1	Cat.-1
	2	Cat.-1

Notes:

JW 12/12/01

CARBON BLACK DISPERSION

ASTM D5596

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107696
Sample Number:	5995
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	CAT 1, 2, OR 3
Date Received:	11/26/01

Specimen Designation	Random Field of View (Rf)	Classification of Carbon Black Dispersion (-)
1	1	Cat.-1
	2	Cat.-1
2	1	Cat.-1
	2	Cat.-1
3	1	Cat.-1
	2	Cat.-1
4	1	Cat.-1
	2	Cat.-1
5	1	Cat.-1
	2	Cat.-1

Notes:

JW 12/12/01

CARBON BLACK DISPERSION
ASTM D5596

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107698
Sample Number:	5996
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	CAT 1, 2, OR 3
Date Received:	11/26/01

Specimen Designation	Random Field of View (Rf)	Classification of Carbon Black Dispersion (-)
1	1	Cat.-1
	2	Cat.-1
2	1	Cat.-1
	2	Cat.-1
3	1	Cat.-1
	2	Cat.-1
4	1	Cat.-1
	2	Cat.-2
5	1	Cat.-1
	2	Cat.-1

Notes:

JW 12/12/01

CARBON BLACK DISPERSION
ASTM D5596

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107717
Sample Number:	5999
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	CAT 1, 2, OR 3
Date Received:	11/26/01

Specimen Designation	Random Field of View (Rf)	Classification of Carbon Black Dispersion (-)
1	1	Cat.-1
	2	Cat.-1
2	1	Cat.-1
	2	Cat.-1
3	1	Cat.-1
	2	Cat.-1
4	1	Cat.-1
	2	Cat.-1
5	1	Cat.-1
	2	Cat.-1

Notes:

CARBON BLACK DISPERSION
ASTM D5596

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107728
Sample Number:	6001
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	CAT 1, 2, OR 3
Date Received:	11/26/01

Specimen Designation	Random Field of View (Rf)	Classification of Carbon Black Dispersion (-)
1	1	Cat.-1
	2	Cat.-1
2	1	Cat.-1
	2	Cat.-1
3	1	Cat.-1
	2	Cat.-1
4	1	Cat.-1
	2	Cat.-1
5	1	Cat.-1
	2	Cat.-1

Notes:

CARBON BLACK DISPERSION
ASTM D5596

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107744
Sample Number:	6004
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	CAT 1, 2, OR 3
Date Received:	11/26/01

Specimen Designation	Random Field of View (Rf)	Classification of Carbon Black Dispersion (-)
1	1	Cat.-1
	2	Cat.-1
2	1	Cat.-1
	2	Cat.-1
3	1	Cat.-1
	2	Cat.-1
4	1	Cat.-1
	2	Cat.-1
5	1	Cat.-1
	2	Cat.-1

Notes:

CARBON BLACK DISPERSION
ASTM D5596

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107749
Sample Number:	6005
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	CAT 1, 2, OR 3
Date Received:	11/26/01

Specimen Designation	Random Field of View (Rf)	Classification of Carbon Black Dispersion (-)
1	1	Cat.-1
	2	Cat.-1
2	1	Cat.-1
	2	Cat.-1
3	1	Cat.-3
	2	Cat.-1
4	1	Cat.-1
	2	Cat.-1
5	1	Cat.-1
	2	Cat.-1

Notes:

CARBON BLACK DISPERSION
ASTM D5596

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107755
Sample Number:	5909
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	CAT 1, 2, OR 3
Date Received:	11/14/01

Specimen Designation	Random Field of View (Rf)	Classification of Carbon Black Dispersion (-)
1	1	Cat.-1
	2	Cat.-1
2	1	Cat.-1
	2	Cat.-1
3	1	Cat.-1
	2	Cat.-1
4	1	Cat.-1
	2	Cat.-1
5	1	Cat.-1
	2	Cat.-1

Notes:

CARBON BLACK DISPERSION

ASTM D5596

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107766
Sample Number:	6006
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	CAT 1, 2, OR 3
Date Received:	11/26/01

Specimen Designation	Random Field of View (Rf)	Classification of Carbon Black Dispersion (-)
1	1	Cat.-1
	2	Cat.-2
2	1	Cat.-1
	2	Cat.-1
3	1	Cat.-1
	2	Cat.-1
4	1	Cat.-1
	2	Cat.-1
5	1	Cat.-1
	2	Cat.-1

Notes:

CARBON BLACK DISPERSION
ASTM D5596

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107786
Sample Number:	6007
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	CAT 1, 2, OR 3
Date Received:	11/26/01

Specimen Designation	Random Field of View (Rf)	Classification of Carbon Black Dispersion (-)
1	1	Cat.-1
	2	Cat.-1
2	1	Cat.-1
	2	Cat.-1
3	1	Cat.-1
	2	Cat.-1
4	1	Cat.-1
	2	Cat.-1
5	1	Cat.-1
	2	Cat.-1

Notes:

CARBON BLACK DISPERSION
ASTM D5596

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107803
Sample Number:	6008
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	CAT 1, 2, OR 3
Date Received:	11/26/01

Specimen Designation	Random Field of View (Rf)	Classification of Carbon Black Dispersion (-)
1	1	Cat.-1
	2	Cat.-1
2	1	Cat.-1
	2	Cat.-1
3	1	Cat.-1
	2	Cat.-1
4	1	Cat.-1
	2	Cat.-1
5	1	Cat.-1
	2	Cat.-1

Notes:

JW 12/12/01

COMANCO ENVIRONMENTAL CORPORATION
7911 Professional Place, Tampa, Florida 33527
Phone (813)988-8829 Fax (813)988-3720

SUBMITTAL CONTROL FORM

Project:	WEST PASCO COUNTY LANDFILL EXPANSION - CELLS A-3 AND SW-2				
Owner:	Pasco County B.O.C.C.	Project No.	01-063	Project Manager:	John Power
Engineer:	Camp Dresser & McKee	Project No.	6104-28936	Project Manager:	Daniel Strobridge, Q.E.P.
Contractor:	Handex of Florida, Inc.	Project No.	123477	Project Manager:	Gary L. Conaway, P.E.
Subcontractor:	COMANCO Environmental Corp.	Project No.	010-848	Project Manager:	Pablo J. Rivera

COMPLETED BY CONTRACTOR:

Certification Statement: By this submittal, I hereby represent that I have determined and verified all field measurements, field construction criteria, materials, dimensions, catalog numbers and similar data and I have checked and coordinated each item with other applicable approved shop drawings and all Contract requirements.

Signature: PJRiv Date: 02-14-02

Submittal Identifier:	D-02776-017-A	[X]	Original Submittal	[ ]	Supplement
Submitted:	February 14, 2002				
No. of Copies:	8	[ ]	Resubmittal	[ ]	Information Only

Submittal Description:	Conformance Test Results: GSE 60 mil HDPE Textured Liner (Set 2 of 5)
Specification Identifier:	01300, 02776 Section 2.03C
Manufacturer:	GSE Lining Technologies, Inc.
Installer:	COMANCO Environmental Corporation

COMPLETED BY ENGINEER:

No. of Copies Received: _____ No. of Copies Returned: _____

Status:	[ ] Code 1 - Approved	[ ]	Code 4 - Approved As Noted, Resubmit
	[ ] Code 2 - Approved As Noted	[ ]	Code 5 - Not Approved
	[ ] Code 3 - Approved As Noted, Confirm	[ ]	Code 6 - Comments Attached

Engineer Stamp or Remarks Area:

SHOP DRAWING REVIEW

ENGINEER'S REVIEW	RESPONSE REQUIRED OF CONTRACTOR
Approved [X] Not Approved [ ] Approved as Noted [ ] Comments Attached [ ]	Confirm [ ] Resubmit [ ]

The Engineer's review of this shop drawing is limited to the review of dimensions, equipment and materials as presented in the Contract plans, specifications and for design concept. This review does not relieve the Contractor from errors or omissions in this submittal or from the Contractor's responsibility of addressing any deviations from the Contract Documents. The Contractor is responsible for the details and dimensions of fabrication and manufacture, the means, methods, techniques, sequences or procedures of construction and performing the work in a safe manner.
CAMP DRESSER & McKEE INC.

By _____ Date 3/1/02

West Pasco County Landfill Expansion Cells SW-2 and A-3
Installation of Geosynthetics
Materials Conformance Test Results Register

Set 2 - GSE 60 mil HDPE Textured Liner

60 mil HDPE Textured Liner	Thickness	Asperity Height	Density	Tensile Strength	Tear Resistance	Carbon Black Content	Carbon Black Dispersion
104108345	X	X	X	X	X	X	X
104108355	X	X	X	X	X	X	X
104108377	X	X	X	X	X	X	X
104108472	X	X	X	X	X	X	X
105107897	X	X	X	X	X	X	X

THICKNESS

ASTM D5994 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0280
Client Project Number:	N/A
Client/Site ID:	ROLL #: 104108345
Sample Number:	5902
Material Type:	60 mil TEXTURED HDPE
Expected/Specified Value:	54 mil MINIMUM
Date Received:	11/14/01

Specimen Number	Thickness		
	(in)	(mil)	(mm)
1	0.0630	63.0	1.60
2	0.0610	61.0	1.55
3	0.0650	65.0	1.65
4	0.0650	65.0	1.65
5	0.0600	60.0	1.52
6	0.0625	62.5	1.59
7	0.0630	63.0	1.60
8	0.0615	61.5	1.56
9	0.0660	66.0	1.68
10	0.0580	58.0	1.47
Avg.	0.0625	62.5	1.59
S.D.	0.0025	2.5	0.06

Notes:

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

SO 1,9,02 JW 1/9/02

ASPERITY MEASUREMENT OF TEXTURED GEOMEMEBRANES

GRI-GM12

Project Name:	WEST PASCO COUNTY LANDFIIL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL#: 104108345
Sample Number:	5902
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	MIN. 7 MILS
Date Received:	11/14/01

Specimen Number	Asperity Value (mils)
1	31
2	23.5
3	29
4	26
5	30
6	25.5
7	31.5
8	33
9	22
10	25
Average	28
S.D.	3.7

Note:

Tested By: SO Test Date: 1,9,02

Reviewed By: JW Review Date: 1/9/02

DENSITY BY GRADIENT - COLUMN

ASTM D1505 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 104108345
Sample Number:	5902
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	.94 g/cc
Date Received:	11/14/01

Specimen Number	Density @ 23°C (g/cc)
1	0.942
2	0.943
3	0.942
Avg.	0.943

Notes:

Due to the heavy texturing and /or potential air pockets trapped in the structure of the test material, the test specimens are reprocessed and formed utilizing a melt indexer at 190 °C.

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

JD 1/9/02

JW 1/9/02

TENSILE PROPERTIES
ASTM D638 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 104108345
Sample Number:	5902
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	YIELD: 126 ppi; 12% AND BREAK: 90 ppi; 100%
Date Received:	11/14/01

Spec. #	Roll Direction											
	Thickness		Yield					Break				
			Tension		Stress		Elongation	Tension		Stress		Elongation
	(in)	(mm)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)
1	0.0605	1.54	201.6	35.3	3333	23.0	17.0	232.3	40.7	3840	26.5	546.6
2	0.0645	1.64	194.9	34.1	3022	20.8	17.0	256.6	44.9	3979	27.4	620.1
3	0.0580	1.47	188.6	33.0	3252	22.4	17.2	234.4	41.0	4041	27.9	571.3
4	0.0630	1.60	187.2	32.8	2971	20.5	16.9	245.3	43.0	3894	26.8	611.4
5	0.0600	1.52	187.2	32.8	3120	21.5	17.3	195.7	34.3	3262	22.5	467.7
Avg.			191.9	33.6	3140	21.6	17.1	232.9	40.8	3803	26.2	563.4
S.D.			6.3	1.1	152	1.0	0.1	22.9	4.0	312	2.2	61.3

Spec. #	Cross-Roll Direction											
	Thickness		Yield					Break				
			Tension		Stress		Elongation	Tension		Stress		Elongation
	(in)	(mm)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)
1	0.0685	1.74	205.7	36.0	3003	20.7	18.5	151.5	26.5	2211	15.2	168.3
2	0.0615	1.56	187.6	32.8	3050	21.0	16.0	206.3	36.1	3355	23.1	542.4
3	0.0620	1.57	188.4	33.0	3039	21.0	18.2	229.6	40.2	3703	25.5	622.5
4	0.0600	1.52	192.3	33.7	3205	22.1	15.5	171.9	30.1	2865	19.8	448.6
5	0.0610	1.55	184.5	32.3	3025	20.9	16.5	202.1	35.4	3313	22.8	535.5
Avg.			191.7	33.6	3064	21.1	16.9	192.3	33.7	3089	21.3	463.5
S.D.			8.3	1.5	81	0.6	1.3	30.7	5.4	574	4.0	176.1

Notes:

All tests are performed on Type IV specimens at a test speed of 2 in./min.

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.
Thickness measurements are performed in accordance with ASTM D5199 and D5994 for smooth and textured membranes, respectively.
Yield and break elongation values are calculated based on the total cross-head displacement using gauge length values of 33 mm (1.3 in.) and 50 mm (1.97 in.), respectively.
Modulus of elasticity values are not presented.

SD 1,10,02 JW 1/10/02

INITIAL TEAR RESISTANCE

ASTM D1004 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 104108345
Sample Number:	5902
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	42 lbs
Date Received:	11/14/01

Spec. #	Thickness				Tear Resistance				Tear Strength			
	RD		XD		RD		XD		RD		XD	
	(in)	(mm)	(in)	(mm)	(lb)	(N)	(lb)	(N)	(lb/in)	(N/mm)	(lb/in)	(N/mm)
1	0.0630	1.60	0.0655	1.66	59.5	264.4	57.3	255.0	943.7	165.3	875.1	153.3
2	0.0635	1.61	0.0625	1.59	58.6	260.8	58.3	259.1	923.1	161.7	932.0	163.2
3	0.0610	1.55	0.0620	1.57	61.3	272.8	59.1	262.8	1005.2	176.0	952.7	166.9
4	0.0610	1.55	0.0630	1.60	54.1	240.4	60.3	268.3	886.1	155.2	957.5	167.7
5	0.0650	1.65	0.0670	1.70	58.0	257.8	59.3	263.9	891.5	156.1	885.4	155.1
6	0.0640	1.63	0.0615	1.56	55.9	248.4	54.3	241.5	872.7	152.8	882.9	154.6
7	0.0650	1.65	0.0580	1.47	62.3	277.1	52.2	232.1	958.5	167.9	899.5	157.5
8	0.0660	1.68	0.0660	1.68	56.4	250.9	59.1	262.9	854.5	149.7	895.5	156.8
9	0.0600	1.52	0.0615	1.56	62.3	277.0	58.4	259.6	1037.8	181.8	949.1	166.2
10	0.0670	1.70	0.0580	1.47	61.9	275.2	51.9	230.6	923.4	161.7	894.0	156.6
Avg.	0.0636	1.61	0.0625	1.59	59.0	262.5	57.0	253.6	929.7	162.8	912.4	159.8
S.D.	0.0023	0.06	0.0031	0.08	2.9	13.1	3.1	13.7	58.5	10.2	31.9	5.6

Notes:

RD: Roll Direction
XD: Cross-Roll Direction

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.
Thickness measurements are performed in accordance with ASTM D5199 and D5994 for smooth and textured membranes, respectively.

SO 1,9,02 JW 1/9/02

CARBON BLACK CONTENT

ASTM D1603 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 104108345
Sample Number:	5902
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	2-3%
Date Received:	11/14/01

Specimen Number	Specimen Mass (g)	Crucible Mass (g)	Residue + Crucible Mass After Burning in N_2 (g)	Carbon Black Content (%)
1	0.3010	2.1436	2.1515	2.62
2	0.3104	2.2751	2.2831	2.58
Average				2.60

Notes:

(1) Deviations:
Each test specimen is 0.25±0.05 g.

SD 1,9,02

JW 1/9/02

CARBON BLACK DISPERSION
ASTM D5596

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 104108345
Sample Number:	5902
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	CAT 1, 2, OR 3
Date Received:	11/14/01

Specimen Designation	Random Field of View (Rf)	Classification of Carbon Black Dispersion (-)
1	1	Cat.-1
	2	Cat.-1
2	1	Cat.-1
	2	Cat.-1
3	1	Cat.-2
	2	Cat.-1
4	1	Cat.-2
	2	Cat.-1
5	1	Cat.-1
	2	Cat.-1

Notes:

SO 1,9,02

JW 1/9/02

THICKNESS

ASTM D5994 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0280
Client Project Number:	N/A
Client/Site ID:	ROLL #: 104108355
Sample Number:	5903
Material Type:	60 mil TEXTURED HDPE
Expected/Specified Value:	54 mil MINIMUM
Date Received:	11/14/01

Specimen Number	Thickness		
	(in)	(mil)	(mm)
1	0.0615	61.5	1.56
2	0.0590	59.0	1.50
3	0.0660	66.0	1.68
4	0.0645	64.5	1.64
5	0.0580	58.0	1.47
6	0.0670	67.0	1.70
7	0.0630	63.0	1.60
8	0.0620	62.0	1.57
9	0.0615	61.5	1.56
10	0.0640	64.0	1.63
Avg.	0.0627	62.7	1.59
S.D.	0.0029	2.9	0.07

Notes:

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

SD 1,9,02 JW 1/9/02

ASPERITY MEASUREMENT OF TEXTURED GEOMEMEBRANES

GRI-GM12

Project Name:	WEST PASCO COUNTY LANDFIIL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL#: 104108355
Sample Number:	5903
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	MIN. 7 MILS
Date Received:	11/14/01

Specimen Number	Asperity Value (mils)
1	21
2	21.5
3	21
4	14
5	15.5
6	15
7	28.5
8	31
9	21.5
10	21.5
Average	21
S.D.	5.5

Note:

Tested By: SD Test Date: 1,9,02

Reviewed By: JW Review Date: 1/9/02

DENSITY BY GRADIENT - COLUMN

ASTM D1505[1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 104108355
Sample Number:	5903
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	.94 g/cc
Date Received:	11/14/01

Specimen Number	Density @ 23°C (g/cc)
1	0.942
2	0.942
3	0.942
Avg.	0.942

Notes:

Due to the heavy texturing and /or potential air pockets trapped in the structure of the test material, the test specimens are reprocessed and formed utilizing a melt indexer at 190 °C.

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

SO 1/9/02 JW 1/9/02

TENSILE PROPERTIES

ASTM D638 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 104108355
Sample Number:	5903
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	YIELD: 126 ppi; 12% AND BREAK: 90 ppi; 100%
Date Received:	11/14/01

Spec. #	Roll Direction											
	Thickness		Yield					Break				
			Tension		Stress		Elongation	Tension		Stress		Elongation
	(in)	(mm)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)
1	0.0675	1.71	182.1	31.9	2698	18.6	19.0	275.0	48.2	4074	28.1	697.6
2	0.0680	1.73	188.8	33.1	2777	19.1	19.1	275.4	48.2	4050	27.9	652.7
3	0.0625	1.59	173.6	30.4	2777	19.1	18.2	216.3	37.9	3461	23.9	550.4
4	0.0605	1.54	167.3	29.3	2765	19.1	20.0	256.2	44.9	4234	29.2	664.0
5	0.0645	1.64	178.3	31.2	2764	19.1	17.9	264.3	46.3	4098	28.3	670.6
Avg.			178.0	31.2	2756	19.0	18.8	257.4	45.1	3983	27.5	647.1
S.D.			8.2	1.4	33	0.2	0.8	24.3	4.3	301	2.1	56.5

Spec. #	Cross-Roll Direction											
	Thickness		Yield					Break				
			Tension		Stress		Elongation	Tension		Stress		Elongation
	(in)	(mm)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)
1	0.0645	1.64	184.7	32.4	2864	19.7	17.8	222.1	38.9	3444	23.7	599.3
2	0.0660	1.68	189.6	33.2	2873	19.8	18.3	155.6	27.3	2358	16.3	398.0
3	0.0655	1.66	209.5	36.7	3199	22.1	18.0	251.5	44.0	3839	26.5	618.4
4	0.0625	1.59	188.8	33.1	3021	20.8	19.9	230.7	40.4	3691	25.4	618.4
5	0.0595	1.51	184.2	32.3	3095	21.3	19.4	219.4	38.4	3687	25.4	599.3
Avg.			191.4	33.5	3010	20.8	18.7	215.9	37.8	3404	23.5	566.7
S.D.			10.4	1.8	144	1.0	0.9	35.9	6.3	602	4.1	94.8

Notes:

All tests are performed on Type IV specimens at a test speed of 2 in./min.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.
Thickness measurements are performed in accordance with ASTM D5199 and D5994 for smooth and textured membranes, respectively.
Yield and break elongation values are calculated based on the total cross-head displacement using gauge length values of 33 mm (1.3 in.) and 50 mm (1.97 in.), respectively.
Modulus of elasticity values are not presented.

SD 1,9,02

JW 1/9/02

INITIAL TEAR RESISTANCE

ASTM D1004 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 104108355
Sample Number:	5903
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	42 lbs
Date Received:	11/14/01

Spec. #	Thickness				Tear Resistance				Tear Strength			
	RD		XD		RD		XD		RD		XD	
	(in)	(mm)	(in)	(mm)	(lb)	(N)	(lb)	(N)	(lb/in)	(N/mm)	(lb/in)	(N/mm)
1	0.0615	1.56	0.0670	1.70	61.8	274.9	57.9	257.4	1004.9	176.0	863.7	151.3
2	0.0655	1.66	0.0620	1.57	60.1	267.3	55.2	245.5	917.6	160.7	890.3	155.9
3	0.0590	1.50	0.0630	1.60	58.6	260.7	58.9	262.1	993.2	173.9	935.2	163.8
4	0.0595	1.51	0.0655	1.66	57.6	256.3	53.6	238.4	968.4	169.6	818.3	143.3
5	0.0660	1.68	0.0620	1.57	63.0	280.1	56.7	252.3	954.1	167.1	914.8	160.2
6	0.0640	1.63	0.0605	1.54	55.1	245.2	58.4	259.9	861.3	150.8	965.6	169.1
7	0.0645	1.64	0.0615	1.56	54.0	240.3	60.1	267.2	837.5	146.7	976.7	171.1
8	0.0625	1.59	0.0600	1.52	59.4	264.0	55.5	246.7	949.6	166.3	924.5	161.9
9	0.0580	1.47	0.0640	1.63	56.0	249.1	57.0	253.5	965.5	169.1	890.6	156.0
10	0.0610	1.55	0.0665	1.69	56.3	250.4	57.4	255.4	923.0	161.6	863.5	151.2
Avg.	0.0622	1.58	0.0632	1.61	58.2	258.8	57.1	253.9	937.5	164.2	904.3	158.4
S.D.	0.0028	0.07	0.0025	0.06	2.9	13.0	1.9	8.5	54.0	9.5	49.0	8.6

Notes:

RD: Roll Direction
XD: Cross-Roll Direction

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.
Thickness measurements are performed in accordance with ASTM D5199 and D5994 for smooth and textured membranes, respectively.

SD 1,9,02

JW 1/9/02

CARBON BLACK CONTENT

ASTM D1603 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 104108355
Sample Number:	5903
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	2-3%
Date Received:	11/15/01

Specimen Number	Specimen Mass (g)	Crucible Mass (g)	Residue + Crucible Mass After Burning in N_2 (g)	Carbon Black Content (%)
1	0.3091	2.0631	2.0717	2.78
2	0.3002	2.2699	2.2774	2.50
Average				2.64

Notes:

(1) Deviations:
Each test specimen is 0.25±0.05 g.

SD 1,9,02 JW 1/9/02

CARBON BLACK DISPERSION
ASTM D5596

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 104108355
Sample Number:	5903
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	CAT 1, 2, OR 3
Date Received:	11/14/01

Specimen Designation	Random Field of View (Rf)	Classification of Carbon Black Dispersion (-)
1	1	Cat.-1
	2	Cat.-2
2	1	Cat.-1
	2	Cat.-1
3	1	Cat.-1
	2	Cat.-1
4	1	Cat.-1
	2	Cat.-1
5	1	Cat.-1
	2	Cat.-2

Notes:

SO 1,9,02 JW 1/9/02

THICKNESS

ASTM D5994 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0280
Client Project Number:	N/A
Client/Site ID:	ROLL #: 104108377
Sample Number:	5904
Material Type:	60 mil TEXTURED HDPE
Expected/Specified Value:	54 mil MINIMUM
Date Received:	11/14/01

Specimen Number	Thickness		
	(in)	(mil)	(mm)
1	0.0655	65.5	1.66
2	0.0630	63.0	1.60
3	0.0640	64.0	1.63
4	0.0605	60.5	1.54
5	0.0620	62.0	1.57
6	0.0605	60.5	1.54
7	0.0640	64.0	1.63
8	0.0605	60.5	1.54
9	0.0625	62.5	1.59
10	0.0605	60.5	1.54
Avg.	0.0623	62.3	1.58
S.D.	0.0018	1.8	0.05

Notes:

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

JO 1,9,02 JW 1/9/02

ASPERITY MEASUREMENT OF TEXTURED GEOMEMEBRANES

GRI-GM12

Project Name:	WEST PASCO COUNTY LANDFIIL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL#: 104108377
Sample Number:	5904
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	MIN. 7 MILS
Date Received:	11/14/01

Specimen Number	Asperity Value (mils)
1	28.5
2	23
3	27
4	27.5
5	32
6	24.5
7	26
8	28
9	32
10	31.5
Average	28
S.D.	3.1

Note:

Tested By: SO Test Date: 1,9,02

Reviewed By: JW Review Date: 1/9/02

DENSITY BY GRADIENT - COLUMN

ASTM D1505 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 104108377
Sample Number:	5904
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	.94 g/cc
Date Received:	11/14/01

Specimen Number	Density @ 23°C (g/cc)
1	0.943
2	0.942
3	0.941
Avg.	0.942

Notes:

Due to the heavy texturing and /or potential air pockets trapped in the structure of the test material, the test specimens are reprocessed and formed utilizing a melt indexer at 190 °C.

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

SD 1/9/02 JW 1/9/02

TENSILE PROPERTIES

ASTM D638 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 104108377
Sample Number:	5904
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	YIELD: 126 ppi; 12% AND BREAK: 90 ppi; 100%
Date Received:	11/14/01

Spec. #	Roll Direction											
	Thickness		Yield					Break				
			Tension		Stress		Elongation	Tension		Stress		Elongation
	(in)	(mm)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)
1	0.0605	1.54	185.6	32.5	3067	21.1	19.1	256.5	44.9	4239	29.2	647.9
2	0.0600	1.52	176.2	30.9	2937	20.2	23.3	255.8	44.8	4264	29.4	654.5
3	0.0615	1.56	185.4	32.5	3014	20.8	20.3	239.7	42.0	3898	26.9	613.9
4	0.0580	1.47	183.3	32.1	3161	21.8	19.7	222.1	38.9	3830	26.4	566.2
5	0.0595	1.51	168.5	29.5	2832	19.5	20.0	235.6	41.3	3959	27.3	599.6
Avg.			179.8	31.5	3002	20.7	20.5	241.9	42.4	4038	27.8	616.4
S.D.			7.4	1.3	125	0.9	1.6	14.5	2.5	200	1.4	36.2

Spec. #	Cross-Roll Direction											
	Thickness		Yield					Break				
			Tension		Stress		Elongation	Tension		Stress		Elongation
	(in)	(mm)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)
1	0.0600	1.52	183.1	32.1	3052	21.0	20.4	207.2	36.3	3453	23.8	538.7
2	0.0620	1.57	184.8	32.4	2980	20.5	19.8	214.3	37.5	3457	23.8	578.8
3	0.0630	1.60	191.9	33.6	3046	21.0	10.5	209.7	36.7	3328	22.9	530.4
4	0.0620	1.57	180.3	31.6	2908	20.0	18.9	219.5	38.4	3540	24.4	583.8
5	0.0610	1.55	172.0	30.1	2819	19.4	17.8	211.4	37.0	3466	23.9	610.6
Avg.			182.4	31.9	2961	20.4	17.5	212.4	37.2	3449	23.8	568.4
S.D.			7.2	1.3	99	0.7	4.0	4.7	0.8	76	0.5	33.4

Notes:

All tests are performed on Type IV specimens at a test speed of 2 in./min.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.
Thickness measurements are performed in accordance with ASTM D5199 and D5994 for smooth and textured membranes, respectively.
Yield and break elongation values are calculated based on the total cross-head displacement using gauge length values of 33 mm (1.3 in.) and 50 mm (1.97 in.), respectively.
Modulus of elasticity values are not presented.

SD 1,9,02 JW 1/9/02

INITIAL TEAR RESISTANCE

ASTM D1004 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 104108377
Sample Number:	5904
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	42 lbs
Date Received:	11/14/01

Spec. #	Thickness				Tear Resistance				Tear Strength			
	RD		XD		RD		XD		RD		XD	
	(in)	(mm)	(in)	(mm)	(lb)	(N)	(lb)	(N)	(lb/in)	(N/mm)	(lb/in)	(N/mm)
1	0.0655	1.66	0.0625	1.59	62.2	276.7	57.5	255.8	949.6	166.3	920.0	161.1
2	0.0580	1.47	0.0605	1.54	56.0	248.9	53.7	238.9	964.7	168.9	887.6	155.4
3	0.0630	1.60	0.0645	1.64	59.1	262.8	60.4	268.5	937.6	164.2	935.7	163.9
4	0.0630	1.60	0.0640	1.63	61.4	273.1	54.4	241.8	974.6	170.7	849.2	148.7
5	0.0640	1.63	0.0620	1.57	58.3	259.1	58.5	260.1	910.2	159.4	943.1	165.2
6	0.0625	1.59	0.0605	1.54	54.3	241.3	52.2	232.2	868.0	152.0	862.8	151.1
7	0.0605	1.54	0.0615	1.56	60.1	267.1	59.2	263.1	992.6	173.8	961.8	168.4
8	0.0600	1.52	0.0625	1.59	56.0	249.0	59.6	265.0	932.8	163.4	953.1	166.9
9	0.0620	1.57	0.0625	1.59	58.5	260.0	52.5	233.5	942.7	165.1	840.0	147.1
10	0.0605	1.54	0.0605	1.54	56.6	251.9	56.5	251.1	935.9	163.9	933.1	163.4
Avg.	0.0619	1.57	0.0621	1.58	58.2	259.0	56.4	251.0	940.9	164.8	908.6	159.1
S.D.	0.0022	0.06	0.0014	0.04	2.6	11.4	3.0	13.5	34.7	6.1	45.0	7.9

Notes:

RD: Roll Direction
XD: Cross-Roll Direction

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.
Thickness measurements are performed in accordance with ASTM D5199 and D5994 for smooth and textured membranes, respectively.

SD 1,9,02 JW 1/9/02

CARBON BLACK CONTENT

ASTM D1603 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 104108377
Sample Number:	5904
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	2-3%
Date Received:	11/15/01

Specimen Number	Specimen Mass (g)	Crucible Mass (g)	Residue + Crucible Mass After Burning in N_2 (g)	Carbon Black Content (%)
1	0.3076	2.1670	2.1743	2.37
2	0.3075	2.1793	2.1870	2.50
Average				2.44

Notes:

(1) Deviations:
Each test specimen is 0.25±0.05 g.

JO 1,9,02

JW 1/09/02

CARBON BLACK DISPERSION
ASTM D5596

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 104108377
Sample Number:	5904
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	CAT 1, 2, OR 3
Date Received:	11/14/01

Specimen Designation	Random Field of View (Rf)	Classification of Carbon Black Dispersion (-)
1	1	Cat.-1
	2	Cat.-1
2	1	Cat.-1
	2	Cat.-1
3	1	Cat.-2
	2	Cat.-1
4	1	Cat.-1
	2	Cat.-1
5	1	Cat.-1
	2	Cat.-1

Notes:

SO 1,9,02

JW 1/9/02

THICKNESS

ASTM D5994 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0280
Client Project Number:	N/A
Client/Site ID:	ROLL #: 104108472
Sample Number:	5907
Material Type:	60 mil TEXTURED HDPE
Expected/Specified Value:	54 mil MINIMUM
Date Received:	11/14/01

Specimen Number	Thickness		
	(in)	(mil)	(mm)
1	0.0560	56.0	1.42
2	0.0650	65.0	1.65
3	0.0630	63.0	1.60
4	0.0600	60.0	1.52
5	0.0610	61.0	1.55
6	0.0660	66.0	1.68
7	0.0640	64.0	1.63
8	0.0670	67.0	1.70
9	0.0655	65.5	1.66
10	0.0645	64.5	1.64
Avg.	0.0632	63.2	1.61
S.D.	0.0033	3.3	0.08

Notes:

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

SD 1,9,02 JWD 1/9/02

ASPERITY MEASUREMENT OF TEXTURED GEOMEMEBRANES

GRI-GM12

Project Name:	WEST PASCO COUNTY LANDFIIL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 104108477
Sample Number:	5907
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	MIN. 7 MILS
Date Received:	11/14/01

Specimen Number	Asperity Value (mils)
1	23
2	24
3	24.5
4	24
5	32
6	25
7	31
8	35
9	30
10	27
Average	28
S.D.	4.2

Note:

Tested By: SD Test Date: 1,9,02

Reviewed By: JW Review Date: 1/9/02

DENSITY BY GRADIENT - COLUMN

ASTM D1505 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 104108472
Sample Number:	5907
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	.94 g/cc
Date Received:	11/14/01

Specimen Number	Density @ 23°C (g/cc)
1	0.943
2	0.941
3	0.941
Avg.	0.942

Notes:

Due to the heavy texturing and /or potential air pockets trapped in the structure of the test material, the test specimens are reprocessed and formed utilizing a melt indexer at 190 °C.

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

SD 1,9,02 JW 1/9/02

TENSILE PROPERTIES

ASTM D638 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 104108472
Sample Number:	5907
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	YIELD: 126 ppi; 12% AND BREAK: 90 ppi; 100%
Date Received:	11/14/01

Spec. #	Roll Direction											
	Thickness		Yield					Break				
			Tension		Stress		Elongation	Tension		Stress		Elongation
	(in)	(mm)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)
1	0.0560	1.42	1.6	0.3	29	0.2	18.4	246.6	43.2	4403	30.4	664.6
2	0.0620	1.57	178.1	31.2	2872	19.8	16.3	210.5	36.9	3395	23.4	522.7
3	0.0630	1.60	183.8	32.2	2917	20.1	19.3	199.8	35.0	3172	21.9	464.6
4	0.0600	1.52	175.4	30.7	2923	20.2	19.0	198.9	34.8	3315	22.9	511.5
5	0.0610	1.55	169.3	29.7	2776	19.1	17.6	227.0	39.8	3722	25.7	604.6
Avg.			141.6	24.8	2303	15.9	18.1	216.6	37.9	3601	24.8	553.6
S.D.			78.4	13.7	1273	8.8	1.2	20.2	3.5	491	3.4	79.9

Spec. #	Cross-Roll Direction											
	Thickness		Yield					Break				
			Tension		Stress		Elongation	Tension		Stress		Elongation
	(in)	(mm)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)
1	0.0660	1.68	172.6	30.2	2615	18.0	15.1	205.9	36.1	3120	21.5	559.7
2	0.0640	1.63	180.1	31.5	2814	19.4	17.2	217.9	38.2	3404	23.5	559.7
3	0.0670	1.70	176.4	30.9	2633	18.2	15.3	204.1	35.7	3046	21.0	559.7
4	0.0655	1.66	203.1	35.6	3100	21.4	16.5	160.4	28.1	2449	16.9	173.6
5	0.0645	1.64	190.0	33.3	2946	20.3	17.1	194.9	34.1	3022	20.8	520.7
Avg.			184.4	32.3	2822	19.5	16.2	196.6	34.4	3008	20.7	474.7
S.D.			12.3	2.1	207	1.4	1.0	21.8	3.8	348	2.4	169.2

Notes:

All tests are performed on Type IV specimens at a test speed of 2 in./min.

(1) Devistions:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

Thickness measurements are performed in accordance with ASTM D5199 and D5994 for smooth and textured membranes, respectively.

Yield and break elongation values are calculated based on the total cross-head displacement using gauge length values of 33 mm (1.3 in.) and 50 mm (1.97 in.), respectively.

Modulus of elasticity values are not presented.

SO 1,9,02

JW 1/9/02

INITIAL TEAR RESISTANCE

ASTM D1004 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 104108472
Sample Number:	5907
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	42 lbs
Date Received:	11/14/01

Spec. #	Thickness				Tear Resistance				Tear Strength			
	RD		XD		RD		XD		RD		XD	
	(in)	(mm)	(in)	(mm)	(lb)	(N)	(lb)	(N)	(lb/in)	(N/mm)	(lb/in)	(N/mm)
1	0.0640	1.63	0.0615	1.56	59.9	266.2	58.5	260.4	935.2	163.8	951.9	166.7
2	0.0635	1.61	0.0595	1.51	59.8	266.0	57.4	255.3	941.7	164.9	964.7	168.9
3	0.0610	1.55	0.0635	1.61	58.5	260.2	59.6	265.1	959.0	167.9	938.6	164.4
4	0.0600	1.52	0.0650	1.65	58.8	261.3	68.7	305.6	979.2	171.5	1056.9	185.1
5	0.0585	1.49	0.0615	1.56	60.6	269.6	53.7	238.9	1035.9	181.4	873.2	152.9
6	0.0605	1.54	0.0605	1.54	65.5	291.1	60.4	268.5	1081.8	189.5	997.5	174.7
7	0.0570	1.45	0.0640	1.63	57.8	257.1	56.5	251.5	1014.0	177.6	883.4	154.7
8	0.0550	1.40	0.0645	1.64	55.3	245.8	57.9	257.3	1004.5	175.9	896.9	157.1
9	0.0610	1.55	0.0635	1.61	58.5	260.2	58.4	259.8	959.0	167.9	919.7	161.1
10	0.0615	1.56	0.0625	1.59	59.5	264.8	59.6	265.1	968.1	169.5	953.6	167.0
Avg.	0.0602	1.53	0.0626	1.59	59.4	264.2	59.1	262.7	987.9	173.0	943.6	165.3
S.D.	0.0028	0.07	0.0018	0.05	2.6	11.5	3.9	17.2	46.1	8.1	55.5	9.7

Notes:

RD: Roll Direction
XD: Cross-Roll Direction

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.
Thickness measurements are performed in accordance with ASTM D5199 and D5994 for smooth and textured membranes, respectively.

JO 1,9,02 JW 1/9/02

CARBON BLACK CONTENT

ASTM D1603 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 104108472
Sample Number:	5907
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	2-3%
Date Received:	11/14/01

Specimen Number	Specimen Mass (g)	Crucible Mass (g)	Residue + Crucible Mass After Burning in N_2 (g)	Carbon Black Content (%)
1	0.3389	2.2146	2.2237	2.69
2	0.3109	2.2442	2.2515	2.35
Average				2.52

Notes:

(1) Deviations:
Each test specimen is 0.25±0.05 g.

SD 1,9,02

JW 1/9/02

CARBON BLACK DISPERSION
ASTM D5596

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 104108438
Sample Number:	5907
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	CAT 1, 2, OR 3
Date Received:	11/14/01

Specimen Designation	Random Field of View (Rf)	Classification of Carbon Black Dispersion (-)
1	1	Cat.-1
	2	Cat.-2
2	1	Cat.-1
	2	Cat.-1
3	1	Cat.-2
	2	Cat.-1
4	1	Cat.-1
	2	Cat.-2
5	1	Cat.-1
	2	Cat.-1

Notes:

SD 1.9.02

JW 1/9/02

THICKNESS

ASTM D5994 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0280
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107897
Sample Number:	5910
Material Type:	60 mil TEXTURED HDPE
Expected/Specified Value:	54 mil MINIMUM
Date Received:	11/14/01

Specimen Number	Thickness		
	(in)	(mil)	(mm)
1	0.0640	64.0	1.63
2	0.0610	61.0	1.55
3	0.0655	65.5	1.66
4	0.0585	58.5	1.49
5	0.0595	59.5	1.51
6	0.0640	64.0	1.63
7	0.0665	66.5	1.69
8	0.0630	63.0	1.60
9	0.0640	64.0	1.63
10	0.0550	55.0	1.40
Avg.	0.0621	62.1	1.58
S.D.	0.0036	3.6	0.09

Notes:

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

SD 1/9/02 JW 1/9/02

ASPERITY MEASUREMENT OF TEXTURED GEOMEMEBRANES

GRI-GM12

Project Name:	WEST PASCO COUNTY LANDFIIL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107897
Sample Number:	5910
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	MIN. 7 MILS
Date Received:	11/14/01

Specimen Number	Asperity Value (mils)
1	29
2	30
3	50
4	27.5
5	29.5
6	30.5
7	39
8	39.5
9	34
10	30
Average	34
S.D.	7.0

Note:

Tested By: JG Test Date: 1,9,02

Reviewed By: JW Review Date: 1/9/02

DENSITY BY GRADIENT - COLUMN

ASTM D1505[1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107897
Sample Number:	5910
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	.94 g/cc
Date Received:	11/14/01

Specimen Number	Density @ 23°C (g/cc)
1	0.942
2	0.943
3	0.950
Avg.	0.945

Notes:

Due to the heavy texturing and /or potential air pockets trapped in the structure of the test material, the test specimens are reprocessed and formed utilizing a melt indexer at 190 °C.

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

SO 1,9,02 JW 1/9/02

TENSILE PROPERTIES

ASTM D638 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107897
Sample Number:	5910
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	YIELD: 126 ppi; 12% AND BREAK: 90 ppi; 100%
Date Received:	11/14/01

Spec. #	Roll Direction											
	Thickness		Yield					Break				
			Tension		Stress		Elongation	Tension		Stress		Elongation
	(in)	(mm)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)
1	0.0675	1.71	161.2	28.2	2388	16.5	16.3	148.2	25.9	2195	15.1	409.9
2	0.0640	1.63	185.3	32.5	2896	20.0	18.6	222.8	39.0	3481	24.0	563.6
3	0.0680	1.73	185.8	32.5	2732	18.8	18.2	213.0	37.3	3132	21.6	546.5
4	0.0600	1.52	189.4	33.2	3157	21.8	18.1	213.2	37.3	3554	24.5	528.9
5	0.0690	1.75	189.4	33.2	2745	18.9	17.4	207.2	36.3	3003	20.7	499.4
Avg.			182.2	31.9	2784	19.2	17.7	200.9	35.2	3073	21.2	509.7
S.D.			11.9	2.1	280	1.9	0.9	30.0	5.3	542	3.7	60.6

Spec. #	Cross-Roll Direction											
	Thickness		Yield					Break				
			Tension		Stress		Elongation	Tension		Stress		Elongation
	(in)	(mm)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)	(lb/in)	(N/mm)	(psi)	(N/mm^2)	(%)
1	0.0625	1.59	167.5	29.3	2680	18.5	16.5	165.3	28.9	2644	18.2	466.2
2	0.0540	1.37	173.6	30.4	3214	22.2	18.1	189.7	33.2	3513	24.2	553.0
3	0.0640	1.63	201.1	35.2	3142	21.7	17.3	150.0	26.3	2343	16.2	328.3
4	0.0630	1.60	156.7	27.4	2487	17.1	16.5	141.0	24.7	2238	15.4	381.7
5	0.0655	1.66	181.1	31.7	2765	19.1	17.8	143.7	25.2	2194	15.1	207.6
Avg.			176.0	30.8	2858	19.7	17.2	157.9	27.7	2586	17.8	387.4
S.D.			16.6	2.9	310	2.1	0.7	20.1	3.5	547	3.8	131.8

Notes:

All tests are performed on Type IV specimens at a test speed of 2 in./min.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.
Thickness measurements are performed in accordance with ASTM D5199 and D5994 for smooth and textured membranes, respectively.
Yield and break elongation values are calculated based on the total cross-head displacement using gauge length values of 33 mm (1.3 in.) and 50 mm (1.97 in.), respectively.
Modulus of elasticity values are not presented.

1/9/02 1/9/02

INITIAL TEAR RESISTANCE

ASTM D1004 [1]

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107897
Sample Number:	5910
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	42 lbs
Date Received:	11/14/01

Spec. #	Thickness				Tear Resistance				Tear Strength			
	RD		XD		RD		XD		RD		XD	
	(in)	(mm)	(in)	(mm)	(lb)	(N)	(lb)	(N)	(lb/in)	(N/mm)	(lb/in)	(N/mm)
1	0.0635	1.61	0.0640	1.63	57.4	255.3	62.8	279.1	903.9	158.3	980.5	171.7
2	0.0640	1.63	0.0640	1.63	62.0	275.7	56.9	253.2	968.3	169.6	889.4	155.8
3	0.0670	1.70	0.0665	1.69	59.4	264.3	61.6	273.9	886.9	155.3	925.9	162.1
4	0.0610	1.55	0.0635	1.61	60.7	270.1	54.6	242.9	995.4	174.3	859.8	150.6
5	0.0665	1.69	0.0630	1.60	65.0	289.2	61.7	274.5	977.7	171.2	979.7	171.6
6	0.0655	1.66	0.0670	1.70	62.2	276.8	60.2	267.6	949.9	166.4	898.1	157.3
7	0.0645	1.64	0.0640	1.63	62.3	276.9	57.3	255.0	965.1	169.0	895.6	156.8
8	0.0585	1.49	0.0630	1.60	58.4	259.6	63.2	281.0	997.8	174.7	1002.7	175.6
9	0.0640	1.63	0.0550	1.40	65.8	292.8	52.9	235.3	1028.4	180.1	961.8	168.4
10	0.0595	1.51	0.0565	1.44	53.2	236.5	50.2	223.1	893.6	156.5	887.6	155.4
Avg.	0.0634	1.61	0.0627	1.59	60.6	269.7	58.1	258.6	956.7	167.5	928.1	162.5
S.D.	0.0029	0.07	0.0039	0.10	3.7	16.6	4.5	20.0	47.9	8.4	49.3	8.6

Notes:

RD: Roll Direction
XD: Cross-Roll Direction

(1) Deviations:
Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.
The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.
Thickness measurements are performed in accordance with ASTM D5199 and D5994 for smooth and textured membranes, respectively.

JD 1,9,02 JW 1/9/02

CARBON BLACK CONTENT

ASTM D1603 (1)

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107897
Sample Number:	5910
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	2-3%
Date Received:	11/14/01

Specimen Number	Specimen Mass (g)	Crucible Mass (g)	Residue + Crucible Mass After Burning in N_2 (g)	Carbon Black Content (%)
1	0.2828	2.1810	2.1880	2.48
2	0.3275	2.1581	2.1660	2.41
Average				2.44

Notes:

(1) Deviations:
Each test specimen is 0.25±0.05 g.

SB 1,9,02

JW 1/9/02

CARBON BLACK DISPERSION
ASTM D5596

Project Name:	WEST PASCO LANDFILL
Project Number:	GTX-G0281
Client Project Number:	N/A
Client/Site ID:	ROLL #: 105107897
Sample Number:	5910
Material Type:	60 MIL TEXTURED HDPE
Expected/Specified Value:	CAT 1, 2, OR 3
Date Received:	11/14/01

Specimen Designation	Random Field of View (Rf)	Classification of Carbon Black Dispersion (-)
1	1	Cat.-2
	2	Cat.-1
2	1	Cat.-1
	2	Cat.-1
3	1	Cat.-1
	2	Cat.-1
4	1	Cat.-2
	2	Cat.-1
5	1	Cat.-1
	2	Cat.-1

Notes:

JO 1,9,02 JW 1/9/02