HWA GEOSCIENCES INC.

19730-64th AVE W STE 200
Lynnwood, WA 98036-5904
Tel. 425-774-0106

FAXMITTAL

FAXED 9-19-07

Fax: 425-774-2714
Date: September 17, 2007
From: Tony Martin
HWA's Project #: 2007-132-23
Sent To....

Company:	Envirocon	
Attention:	Tom Schnobrich	
Fax No.:	**503-285-6205**	
Phone No.:	503-285-6164	

Number of Pages: 16 (including cover sheet)

ORIGINAL TO FOLLOW BY MAIL	Yes	X No

Subject: **Chevron Edmonds**

Tom,

Please find attached a copy of Field Report FR-FR-001 through FR-008 for the Chevron Edmonds Project.

If you have any questions regarding the above, please call.

Best Regards,

Tony Martin
Office: 425-774-0106
Cell: 206-794-3126

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-001
Date (mm/dd/yy): 8/23/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	**Client Representative**	**Weather**
Envirocon	Tom Schnobrich	Sunny/Warm
Design Authority (engineer or architect of record)	**Design Authority Representative**	**HWA Project Manager**
		Tony Martin
General Contractor	**General Contractor Representative**	**HWA Field Representative**
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD REPORT

SUMMARY OF FIELD TIME SPENT ON PROJECT TODAY:
First Site Visit: Start Travel: 1400 Arrived at Site: 1415 Departed Site: 1615 End Travel: 1630

MISCELLANEOUS ACTIVITIES, OBSERVATIONS AND/OR COMMENTS:
Initial site visit to conduct sampling from on-site stock piles. Also attended on site Safety Class.

Sampling was conducted from a single stockpile today. This stockpile was designated the Upper Stockpile; the initial sample was designated as USP-S-1. The sample was returned to our laboratory for processing.

SIGNATURES:

Signed: _____
HWA Field Representative

Reviewed: _____
HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES

Report#	Item#	Status
na	na	There are no outstanding issues at this time.

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-002
Date (mm/dd/yy): 8/24/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	**Client Representative**	**Weather**
Envirocon	Tom Schnobrich	Sunny/Warm
Design Authority (engineer or architect of record)	**Design Authority Representative**	**HWA Project Manager**
		Tony Martin
General Contractor	**General Contractor Representative**	**HWA Field Representative**
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD REPORT

SUMMARY OF FIELD TIME SPENT ON PROJECT TODAY:
First Site Visit: Start Travel: 1045 Arrived at Site: 1100 Departed Site: 1545 End Travel: 1600 (1/2 hour Lunch)

ACTIVITY BEING INSPECTED: Compaction of material from the Upper Stockpile placed as excavation backfill.
GENERAL LOCATION: Excavation B16, B17, & B18 at the southern end of the site.
DETAILED LOCATION: The specific locations and elevations tested are summarized on the attached 'Field Compaction Test Report'.
TYPE OF INSPECTION: Periodic
DETAILS OF PLACEMENT OF THIS MATERIAL: Based on observations reported to us and upon personal observations, the native soils placed as trench backfill were placed in approximately 8" lifts (uncompacted thickness) and compacted with SD-116 pad foot, single-drum 12-ton compactor.
HWA INSPECTION ACTIVITIES RELATED TO THIS ITEM: HWA conducted nuclear density testing and a physical evaluation of the backfill utilizing a 1/2 inch diameter steel T-handled probe of trench backfill. Both nuclear density testing and our physical evaluation indicated that the backfill material was placed to a well-compacted and dense state. Observations and compaction tests results were reported to Chuck Hyatt of Envirocon as placement and testing continued. Test results are summarized on the attached 'Field Compaction Test Report'.
CONFORMANCE OF THIS ITEM: To the best of the inspector's knowledge, the item inspected was found in conformance with approved plans, specifications and RFIs.

MISCELLANEOUS ACTIVITIES, OBSERVATIONS AND/OR COMMENTS:
Fill soil has shown a widely varied amounts of both the over-sized components (3/4-inch plus) and of the finer-grained components. Estimation of the percent of over-sized components present at any given test location was based on observations only. At all locations, testing or retesting indicated the fill was compacted to the specified degree of compaction or greater.

Total time chargeable to this job is 5.5 hours including the writing of this report

SIGNATURES:

Signed: for JACK
HWA Field Representative

Reviewed:
HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES

Report#	Item#	Status
na	na	There are no outstanding issues at this time.

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-002
Date (mm/dd/yy): 8/24/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	**Client Representative**	**Weather**
Envirocon	Tom Schnobrich	Sunny/Warm
Design Authority (engineer or architect of record)	**Design Authority Representative**	**HWA Project Manager**
		Tony Martin
General Contractor	**General Contractor Representative**	**HWA Field Representative**
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD COMPACTION TEST REPORT - NUCLEAR METHOD

MATERIAL BEING PLACED: *see accompanying field report*

PROJECT IMPROVEMENT TESTED: *see accompanying field report*

Test No.	Detailed Test Location	Elev'n or Depth B.G.**	Probe Depth (in)	Lab Control* (Proctor/Rice/Marshall) ID #	Max. Dens.	Opt. Moist.	Over Size %	Field Test Density Total pcf	Dry pcf	Moist. Moist. %	Relative Compaction Field %	Spec %
1	Excavation B16, 10ft W of Sample Point B16-2	-4ft	8 in	UPS S-1	133.2	7.1	7.7	125.1	120.0	4.3	90	90
2	Excavation B17, 22ft W of Sample Point B17-2	-4ft	12 in	UPS S-1	133.2	7.1	7.7	125.1	120.1	4.2	90	90
3	Excavation B18, 22ft W of Sample Point B18-1	-4ft	12 in	UPS S-1	135.8	7.1	13.4	133.9	126.2	6.1	93	90
4	Excavation B16, 18ft W of Sample Point B16-2	-3.5ft	12 in	UPS S-1	134.5	7.3	10.0	125.7	116.6	7.6	**87**	90
4b	RETEST of Loc #4 following additional compactive efforts there	-3.5ft	12 in	UPS S-1	134.5	7.3	10.0	130.7	122.4	6.8	91	90
5	Excavation B17, 25ft W of Sample Point B17-2	-3.5ft	12 in	UPS S-1	135.8	7.1	13.4	130.7	122.4	6.8	90	90
6	Excavation B16, 25ft W of Sample Point B16-1	-3.ft	12 In	UPS S-1	135.8	7.1	13.4	136.0	128.1	6.2	94	90
7	Excavation B18, 25ft W of Sample Point B18-1	-3.ft	12 in	UPS S-1	133.2	7.7	5.0	129.2	121.4	6.4	91	90
8	Excavation B17, 25ft W of Sample Point B17-2	-3.ft	12 in	UPS S-1	135.8	7.1	13.4	130.7	122.4	6.8	90	90
9												
10												
11												
12												

Test Method: __X__ ASTM D2922/D3017 (soil) ____ ASTM D2950 (asphalt) ____ Other:

Densometer: __X__ Troxler 3440 ____ Troxler 3430 ____ Troxler 3411-B ____ CPN MC1-DR-P

Serial #: 29276 Density Standard Count.: 2598 Moisture Standard Count: 631

*Lab Control: __X__ Standard Proctor ____ Modified Proctor

____ Asphalt Marshall Density ____ Asphalt Maximum Theoretical Density (Rice)

COMMENTS: Test locations and elevations are approximate. Testing provides data only for a specific test location and to a limited depth. Accompanying field report provides additional information. **Depth B.G. indicates depth below grade. Grade means the design finish grade of the current type of fill material being placed. Bolded results indicate compaction below specified value.

Completed By: John H. "Jack" Carlock Reviewed By: Tony Martin

HWA GEOSCIENCES INC.
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Lynnwood, WA 98036
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Fax. 425-774-2714

Field Report No.: FR-003
Date (mm/dd/yy): 8/27/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client: Envirocon	Client Representative: Tom Schnobrich	Weather: Sunny/Warm
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager: Tony Martin
General Contractor: Envirocon	General Contractor Representative: Chuck Hyatt	HWA Field Representative: John H. "Jack" Carlock

FIELD REPORT

SUMMARY OF FIELD TIME SPENT ON PROJECT TODAY:
First Site Visit: Start Travel: 0715 Arrived at Site: 0730 Departed Site: 1130 End Travel: 1140

ACTIVITY BEING INSPECTED: Compaction of material from the Upper Stockpile placed as excavation backfill.
GENERAL LOCATION: Excavation B16, B17, & B18 at the southern end of the site.
DETAILED LOCATION: The specific locations and elevations tested are summarized on the attached 'Field Compaction Test Report'.
TYPE OF INSPECTION: Periodic
DETAILS OF PLACEMENT OF THIS MATERIAL: Based on observations reported to us and upon personal observations, the native soils placed as trench backfill were placed in approximately 8" lifts (uncompacted thickness) and compacted with SD-116 pad foot, single-drum 12-ton compactor.
HWA INSPECTION ACTIVITIES RELATED TO THIS ITEM: HWA conducted nuclear density testing and a physical evaluation of the backfill utilizing a 1/2 inch diameter steel T-handled probe of trench backfill. Both nuclear density testing and our physical evaluation indicated that the backfill material was placed to a well-compacted and dense state. Observations and compaction tests results were reported to Chuck Hyatt of Envirocon as placement and testing continued. Test results are summarized on the attached 'Field Compaction Test Report'.
CONFORMANCE OF THIS ITEM: To the best of the Inspector's knowledge, the item inspected was found in conformance with approved plans, specifications and RFIs.

MISCELLANEOUS ACTIVITIES, OBSERVATIONS AND/OR COMMENTS:
Fill soil has shown a widely varied amounts of both the over-sized components (3/4-inch plus) and of the finer-grained components. Estimation of the percent of over-sized components present at any given test location was based on observations only. At all locations, testing or retesting indicated the fill was placed to the specified degree of compaction or greater.

Approximately 1 hour was spent conducting additional Proctor sampling from the Upper Stockpile. These sample, designated UPS-S-2 and UPS-S-3 respectively, were returned to our Lynnwood laboratory from processing.

Total time chargeable to this job is 4.5 hours but does not included the time for writing this report.

SIGNATURES:
Signed: Tony Martin for Jack
HWA Field Representative

Reviewed:
HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES

Report#	Item#	Status
na	na	There are no outstanding issues at this time.

HWA GEOSCIENCES INC.

19730-64th Avenue West, Suite 200
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Field Report No.: FR-003
Date (mm/dd/yy): 8/27/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	Client Representative	Weather
Envirocon	Tom Schnobrich	Sunny/Warm
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager
		Tony Martin
General Contractor	General Contractor Representative	HWA Field Representative
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD COMPACTION TEST REPORT - NUCLEAR METHOD

MATERIAL BEING PLACED: *see accompanying field report*

PROJECT IMPROVEMENT TESTED: *see accompanying field report*

Test No.	Detailed Test Location	Elev'n or Depth B.G.**	Probe Depth (in)	Lab Control* (Proctor/Rice/Marshall) ID #	Max. Dens.	Opt. Moist.	Over Size %	Field Test Density Total pcf	Density Dry pcf	Moist. Moist. %	Relative Compaction Field %	Spec %
1	Excavation B17, 20ft W of Sample Point B16-2	-1ft	8 in	UPS S-1	135.8	7.1	13.4	130.8	123.9	5.5	91	90
2	Excavation B16, 25ft W of Sample Point B16-2	-1ft	12 in	UPS S-1	135.8	7.1	13.4	130.0	123.2	5.5	91	90
3	Excavation B18, 22ft W of Sample Point B18-1	-.5ft	12 in	UPS S-1	135.8	7.1	13.4	132.7	126.3	6.1	93	90
4	Excavation B17, 20ft W of Sample Point B17-2	Final Grade	12 in	UPS S-1	135.8	7.1	13.4	130.1	123.7	5.2	91	90
5												
6												
7												
8												
9												
10												
11												
12												
13												

Test Method: X ASTM D2922/D3017 (soil) ___ ASTM D2950 (asphalt) ___ Other:

Densometer: X Troxler 3440 ___ Troxler 3430 ___ Troxler 3411-B ___ CPN MC1-DR-P

Serial #: 29276 Density Standard Count.: 2598 Moisture Standard Count: 631

*Lab Control: X Standard Proctor ___ Modified Proctor

___ Asphalt Marshall Density ___ Asphalt Maximum Theoretical Density (Rice)

COMMENTS: Test locations and elevations are approximate. Testing provides data only for a specific test location and to a limited depth. Accompanying field report provides additional information. **Depth B.G. Indicates depth below grade. Grade means the design finish grade of the current type of fill material being placed. Bolded results indicate compaction below specified value.

Completed By: John H. "Jack" Carlock Reviewed By: Tony Martin

HWA GEOSCIENCES INC.
19730 64th Avenue West, Suite 200
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Fax. 425-774-2714

Field Report No.: FR-004
Date (mm/dd/yy): 8/28/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	Client Representative	Weather
Envirocon	Tom Schnobrich	Sunny/Warm
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager
		Tony Martin
General Contractor	General Contractor Representative	HWA Field Representative
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD REPORT

SUMMARY OF FIELD TIME SPENT ON PROJECT TODAY:
First Site Visit: Start Travel: 1515 Arrived at Site: 1530 Departed Site: 1700 End Travel: 1715

ACTIVITY BEING INSPECTED: Compaction of material from the Upper Stockpile.
GENERAL LOCATION: Fill placed as Backfill of excavation for South Slump Tank.
DETAILED LOCATION: The specific locations and elevations tested are summarized on the attached 'Field Compaction Test Report'.
TYPE OF INSPECTION: Periodic
DETAILS OF PLACEMENT OF THIS MATERIAL: Upon arrival on site it was learned from Chuck Hyatt that the contractor had placed an approximately 2 ft thick lift of a granular fill (3/4 washed drain rock) along the floor of the excavation, followed by fill material transported from the Upper Stockpile. It is our understanding that the fill material was placed in lifts no greater than 8-inches in uncompacted thickness, then compacted with SD-116 pad foot, single-drum 12 ton compactor. HWA has no specific knowledge as to the overall depth of the fill placed at this location, however, at the time of our arrival the back fill had been placed to approximately finished grade minus 1 foot. (It should be noted that in this context, "finished grade" means the existing site grade.)
HWA INSPECTION ACTIVITIES RELATED TO THIS ITEM: HWA conducted nuclear density testing and a physical evaluation of the backfill utilizing a 1/2 inch diameter steel T-handled probe of trench backfill. Both nuclear density testing and our physical evaluation indicated that the backfill material was placed to a well-compacted and dense state. Observations and compaction tests results were reported to Chuck Hyatt of Envirocon as placement and testing continued.
Test results are summarized on the attached 'Field Compaction Test Report'.
CONFORMANCE OF THIS ITEM: To the best of the inspector's knowledge, the item inspected was found in conformance with approved plans, specifications and RFIs.

MISCELLANEOUS ACTIVITIES, OBSERVATIONS AND/OR COMMENTS:
Fill soil has shown a widely varied amounts of both the over-sized components (3/4-inch plus) and of the finer-grained components. Estimation of the percent of over-sized components present at any given test location was based on observations only. At all locations, testing or retesting indicated the fill was placed to the specified degree of compaction or greater.

Total time chargeable to this job is 2.5 hours but does not included the time for writing this report.

SIGNATURES:

Signed: for JACK
HWA Field Representative

Reviewed:
HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES

Report#	Item#	Status
na	na	There are no outstanding issues at this time.

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-004
Date (mm/dd/yy): 8/28/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	**Client Representative**	**Weather**
Envirocon	Tom Schnobrich	Sunny/Warm
Design Authority (engineer or architect of record)	**Design Authority Representative**	**HWA Project Manager**
		Tony Martin
General Contractor	**General Contractor Representative**	**HWA Field Representative**
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD COMPACTION TEST REPORT - NUCLEAR METHOD

MATERIAL BEING PLACED: *see accompanying field report*

PROJECT IMPROVEMENT TESTED: *see accompanying field report*

Test No.	Detailed Test Location	Elev'n or Depth B.G.**	Probe Depth (in)	Lab Control* (Proctor/Ricc/Marshall) ID #	Max. Dens.	Opt. Moist.	Over Size %	Field Test Density Total pcf	Dry pcf	Moist. Moist. %	Relative Compaction Field %	Spec %
1	*Excavation for South Slump Tank, northern end of fill.*	*-1ft*	*12 in*	*UPS S-1*	*135.8*	*7.1*	*13.4*	*135.2*	*127.1*	*6.4*	*94*	*90*
2	*excavation for South Slump Tank, southern end of fill.*	*Final Grade*	*12 in*	*UPS S-1*	*135.8*	*7.1*	*13.4*	*136.4*	*127.1*	*7.3*	*94*	*90*
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												

Test Method: X ASTM D2922/D3017 (soil) ____ ASTM D2950 (asphalt) ____ Other:

Densometer: X Troxler 3440 ____ Troxler 3430 ____ Troxler 3411-B ____ CPN MC1-DR-P

Serial #: 29276 Density Standard Count.: 2598 Moisture Standard Count: 631

*Lab Control: X Standard Proctor ____ Modified Proctor

____ Asphalt Marshall Density ____ Asphalt Maximum Theoretical Density (Rice)

COMMENTS: Test locations and elevations are approximate. Testing provides data only for a specific test location and to a limited depth. Accompanying field report provides additional information. **Depth B.G. indicates depth below grade. Grade means the design finish grade of the current type of fill material being placed. Bolded results indicate compaction below specified value.

Completed By: John H. "Jack" Carlock Reviewed By: Tony Martin

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-005
Date (mm/dd/yy): 9/9/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	Client Representative	Weather
Envirocon	Tom Schnobrich	Sunny/Warm
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager
		Tony Martin
General Contractor	General Contractor Representative	HWA Field Representative
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD REPORT

SUMMARY OF FIELD TIME SPENT ON PROJECT TODAY:
First Site Visit: Start Travel: 1500 Arrived at Site: 1515 Departed Site: 1545 End Travel: 1600

ACTIVITY BEING INSPECTED: Compaction of material from the Upper Stockpile.
GENERAL LOCATION: Fill placed as Backfill of Excavation B15.
DETAILED LOCATION: The specific locations and elevations tested are summarized on the attached 'Field Compaction Test Report'.
TYPE OF INSPECTION: Periodic
DETAILS OF PLACEMENT OF THIS MATERIAL: Upon arrival on site it was observed that the contractor was continuing the method of placing a layer of a granular fill (3/4 washed drain rock) along the floor of the excavation prior to placement of fill material from the Upper Stockpile. The fill was being placed in lifts no greater than 8-inches in uncompacted thickness, and compacted with SD-116 pad foot, single-drum 12-ton compactor. HWA has no specific knowledge as to the overall depth of the fill placed at test location #1 or #2, however, at the time of our arrival the backfill had been placed to elevations varying between approximately 5 feet and 3 feet below finished grade. (Note that in this context, "finished grade" means the existing site grade.)
HWA INSPECTION ACTIVITIES RELATED TO THIS ITEM: HWA conducted both nuclear density testing and a physical evaluation of the backfill utilizing a 1/2 inch diameter steel T-handled probe of backfill. Both nuclear density testing and our physical evaluation indicated that the backfill material was placed to a well-compacted and dense state. Test results are summarized on the attached 'Field Compaction Test Report'.
CONFORMANCE OF THIS ITEM: To the best of the inspector's knowledge, the item inspected was found in conformance with approved plans, specifications and RFIs.

MISCELLANEOUS ACTIVITIES, OBSERVATIONS AND/OR COMMENTS: Fill soil has shown a widely varied amounts of both the over-sized (3/4-inch plus) components. Estimation of the percent of over-sized components present at any given test location was based on observations only.
At all locations, testing or retesting indicated the fill was placed to the specified degree of compaction or greater.

Total time chargeable to this job is 1.5 hours including the time for writing this report.

SIGNATURES:

Signed: _____ for J.C. JACK
HWA Field Representative

Reviewed: _____
HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES

Report#	Item#	Status
na	na	There are no outstanding issues at this time.

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-005
Date (mm/dd/yy): 9/9/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	**Client Representative**	**Weather**
Envirocon	Tom Schnobrich	Sunny/Warm
Design Authority (engineer or architect of record)	**Design Authority Representative**	**HWA Project Manager**
		Tony Martin
General Contractor	**General Contractor Representative**	**HWA Field Representative**
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD COMPACTION TEST REPORT - NUCLEAR METHOD

MATERIAL BEING PLACED: *see accompanying field report*

PROJECT IMPROVEMENT TESTED: *see accompanying field report*

Test No.	Detailed Test Location	Elev'n or Depth B.G.**	Probe Depth (in)	Lab Control* (Proctor/Rice/Marshall) ID #	Max. Dens.	Opt. Moist.	Over Size %	Field Test Density Total pcf	Density Dry pcf	Moist. Moist. %	Relative Compaction Field %	Spec %
1	*Excavation B15. Southwestern quadrant of the excavation.*	-4ft	12 in	UPS S-2	137.4	7.1	25.0	135.7	127.1	6.9	93	90
2	*Excavation B15. Northeastern quadrant of the excavation.*	-3ft	12 in	UPS S-2	137.4	7.1	25.0	138.2	129.2	7.0	94	90
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												

Test Method: X ASTM D2922/D3017 (soil) ____ ASTM D2950 (asphalt) ____ Other:

Densometer: X Troxler 3440 ____ Troxler 3430 ____ Troxler 3411-B ____ CPN MC1-DR-P

Serial #: 29276 Density Standard Count.: 2582 Moisture Standard Count: 628

*Lab Control: X Standard Proctor ____ Modified Proctor

____ Asphalt Marshall Density ____ Asphalt Maximum Thooretical Density (Rice)

COMMENTS: Test locations and elevations are approximate. Testing provides data only for a specific test location and to a limited depth. Accompanying field report provides additional information. **Depth B.G. indicates depth below grade. Grade means the design finish grade of the current type of fill material being placed. Bolded results indicate compaction below specified value.

Completed By: John H. "Jack" Carlock Reviewed By: Tony Martin

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-006
Date (mm/dd/yy): 9/6/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client: Envirocon	Client Representative: Tom Schnobrich	Weather: Sunny/Warm
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager: Tony Martin
General Contractor: Envirocon	General Contractor Representative: Chuck Hyatt	HWA Field Representative: John H. "Jack" Carlock

FIELD REPORT

SUMMARY OF FIELD TIME SPENT ON PROJECT TODAY:
First Site Visit: Start Travel: 0800 Arrived at Site: 0815 Departed Site: 0845 End Travel: 0900
Second Site Visit: Start Travel: 1445 Arrived at Site: 1500 Departed Site: 1515 End Travel: 1530

ACTIVITY BEING INSPECTED: Compaction of material from the Upper Stockpile.
GENERAL LOCATION: Fill placed as Backfill of Excavation B15.
DETAILED LOCATION: The specific locations and elevations tested are summarized on the attached 'Field Compaction Test Report'.
TYPE OF INSPECTION: Periodic
DETAILS OF PLACEMENT OF THIS MATERIAL: The fill was being placed in lifts no greater than 8-inches in uncompacted thickness. At the time of our arrival the back fill had been placed to elevations varying between approximately grade and 4 feet below finished grade. (Note that in this context, "finished grade" means the existing site grade.) Placement was accomplished by backing the haul trucks southwards from the northern edge of the excavation down a ramp constructed of fill. As such, the northeastern quadrant of Excavation B15 was backfilled to grade, with the fill tapering to between 3ft and 4ft below grade, before tapering back to grade along the southern rim of the excavation. Based on observations reported to us and upon personal observations, the native soils placed as excavation backfill were placed in lifts no greater than 8-inches in uncompacted thickness, and compacted with SD-116 pad foot, single-drum 12-ton compactor.
HWA INSPECTION ACTIVITIES RELATED TO THIS ITEM: HWA conducted nuclear density testing and a physical evaluation of the backfill utilizing a 1/2 inch diameter steel T-handled probe of trench backfill. Both nuclear density testing and our physical evaluation indicated that the backfill material was placed to a well-compacted and dense state. Observations and compaction tests results were reported to Chuck Hyatt of Envirocon at the conclusion of testing. Test results are summarized on the attached 'Field Compaction Test Report'.
CONFORMANCE OF THIS ITEM: To the best of the inspector's knowledge, the item inspected was found in conformance with approved plans, specifications and RFIs.

MISCELLANEOUS ACTIVITIES, OBSERVATIONS AND/OR COMMENTS:
Second Site Visit: Upon our arrival, approximately 1/2 foot of fill had been place since our morning visit and that lift was only partially placed and compacted. just as I arrived at Excavation 15 the crew was called to a site meeting so placement and compactive efforts were curtailed for the afternoon. As such, no compaction testing was conducted during the second site visit. At all locations, testing or retesting indicated the fill was placed to the specified degree of compaction or greater.

Total time chargeable to this job is 2.0 hours including the time for writing this report.

SIGNATURES:
Signed: John H. "Jack" Carlock
HWA Field Representative

Reviewed:
HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES

Report#	Item#	Status
na	na	There are no outstanding issues at this time.

HWA GEOSCIENCES INC.
10730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-006
Date (mm/dd/yy): 9/6/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	**Client Representative**	**Weather**
Envirocon	Tom Schnobrich	Sunny/Warm
Design Authority (engineer or architect of record)	**Design Authority Representative**	**HWA Project Manager**
		Tony Martin
General Contractor	**General Contractor Representative**	**HWA Field Representative**
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD COMPACTION TEST REPORT - NUCLEAR METHOD

MATERIAL BEING PLACED: *see accompanying field report*

PROJECT IMPROVEMENT TESTED: *see accompanying field report*

Test No.	Detailed Test Location	Elev'n or Depth B.G.**	Probe Depth (In)	Lab Control* (Proctor/Rice/Marshall) ID #	Max. Dens.	Opt. Moist.	Over Size %	Field Test Density Total pcf	Density Dry pcf	Moist. Moist. %	Relative Compaction Field %	Spec %
1	*Backfill of Excavation B14. Center 1/3 of excavation.*	*-4ft*	*12 in*	*UPS S-2*	*133.6*	*8.1*	*12.4*	*128.6*	*121.2*	*6.3*	*91*	*90*
2												
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11												
12												
13												

Test Method: X ASTM D2922/D3017 (soil) ____ ASTM D2950 (asphalt) ____ Other:

Densometer: X Troxler 3440 ____ Troxler 3430 ____ Troxler 3411-B ____ CPN MC1-DR-P

Serial #: 29276 Density Standard Count.: 2582 Moisture Standard Count: 628

*Lab Control: X Standard Proctor ____ Modified Proctor

____ Asphalt Marshall Density ____ Asphalt Maximum Theoretical Density (Rice)

COMMENTS: Test locations and elevations are approximate. Testing provides data only for a specific test location and to a limited depth. Accompanying field report provides additional information. **Depth B.G. indicates depth below grade. Grade means the design finish grade of the current type of fill material being placed. Bolded results indicate compaction below specified value.

Completed By: John H. "Jack" Carlock Reviewed By: Tony Martin

HWA GEOSCIENCES INC.
19730 64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-007
Date (mm/dd/yy): 9/10/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	Client Representative	Weather
Envirocon	Tom Schnobrich	Sunny/Warm
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager
		Tony Martin
General Contractor	General Contractor Representative	HWA Field Representative
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD REPORT

SUMMARY OF FIELD TIME SPENT ON PROJECT TODAY:
First Site Visit: Start Travel: 1455 Arrived at Site: 1505 Departed Site: 1600 End Travel: 1615

ACTIVITY BEING INSPECTED: Compaction of material from the Upper Stockpile.
GENERAL LOCATION: Fill placed as Backfill of Excavation B14 and Excavation B15.
DETAILED LOCATION: The specific locations and elevations tested are summarized on the attached 'Field Compaction Test Report'.
TYPE OF INSPECTION: Periodic
DETAILS OF PLACEMENT OF THIS MATERIAL: **Excavation B14:** The fill was being placed in lifts no greater than 8-inches (uncompacted thickness), then compacted with SD-116 pad foot, single-drum 12-ton compactor.. HWA has no specific knowledge as to the overall depth of the fill placed at test location #1 or #2, however, at the time of our arrival the backfill had been placed to elevations varying between approximately grade and 3 feet below finished grade. (Note that in this context, "finished grade" means the existing site grade.)
HWA INSPECTION ACTIVITIES RELATED TO THIS ITEM: **Excavation B14:** HWA conducted nuclear density testing and a physical evaluation of the backfill utilizing a 1/2 inch diameter steel T-handled probe of the backfill. Both nuclear density testing and our physical evaluation indicated that the excavation backfill material was placed to a well-compacted and dense state.
Excavation B15: At the request of Chuck Hyatt of Envirocon, HWA conducted both nuclear density testing and a physical evaluation utilizing a 1/2 inch diameter steel T-handled probe of the final lift placed in Excavation B15. Test results are summarized on the attached 'Field Compaction Test Report'.
CONFORMANCE OF THIS ITEM: To the best of the inspector's knowledge, the item inspected was found in conformance with approved plans, specifications and RFIs.

MISCELLANEOUS ACTIVITIES, OBSERVATIONS AND/OR COMMENTS:
At all locations, testing indicated the fill was placed to the specified degree of compaction or greater.

Total time chargeable to this job is 2.0 hours including the time for writing this report.

SIGNATURES:

Signed: _____ for Jack
HWA Field Representative

viewed: _____
HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES

Report#	Item#	Status
na	na	There are no outstanding issues at this time.

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-007
Date (mm/dd/yy): 9/10/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	**Client Representative**	**Weather**
Envirocon	Tom Schnobrich	Sunny/Warm
Design Authority (engineer or architect of record)	**Design Authority Representative**	**HWA Project Manager**
		Tony Martin
General Contractor	**General Contractor Representative**	**HWA Field Representative**
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD COMPACTION TEST REPORT - NUCLEAR METHOD

MATERIAL BEING PLACED: *see accompanying field report*

PROJECT IMPROVEMENT TESTED: *see accompanying field report*

Test No.	Detailed Test Location	Elev'n or Depth B.G.**	Probe Depth (in)	Lab Control* (Proctor/Rice/Marshall) ID #	Max. Dens.	Opt. Moist.	Over Size %	Field Test Density Total pcf	Density Dry pcf	Moist. Moist. %	Relative Compaction Field %	Spec %
1	*Excavation B14. Northern quadrant*	*-2ft*	*12 in*	*UPS S-2*	*133.6*	*8.1*	*12.4*	*134.9*	*127.1*	*6.1*	*95*	*90*
2	*Excavation B14. Southern quadrant*	*-4ft*	*12 in*	*UPS S-2*	*133.6*	*8.1*	*12.4*	*131.2*	*123.4*	*6.3*	*92*	*90*
3	*Excavation B15. Western quadrant*	*Final Grade*	*12 in*	*UPS S-2*	*133.6*	*8.1*	*12.4*	*129.9*	*124.5*	*4.3*	*93*	*90*
4	*Excavation B15. Eastern Quadrant..*	*Final Grade*	*12 in*	*UPS S-2*	*133.6*	*8.1*	*12.4*	*131.9*	*125.5*	*5.1*	*94*	*90*
5												
6												
7												
8												
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10												
11												
12												
13												

Test Method: X ASTM D2922/D3017 (soil) ____ ASTM D2950 (asphalt) ____ Other:

Densometer: X Troxler 3440 ____ Troxler 3430 ____ Troxler 3411-B ____ CPN MC1-DR-P

Serial #: 29276 Density Standard Count.: 2579 Moisture Standard Count: 624

*Lab Control: X Standard Proctor ____ Modified Proctor

____ Asphalt Marshall Density ____ Asphalt Maximum Theoretical Density (Rice)

COMMENTS: Test locations and elevations are approximate. Testing provides data only for a specific test location and to a limited depth. Accompanying field report provides additional information. **Depth B.G. indicates depth below grade. Grade means the design finish grade of the current type of fill material being placed. Bolded results indicate compaction below specified value.

Completed By: John H. "Jack" Carlock Reviewed By: Tony Martin

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-008
Date (mm/dd/yy): 9/12/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	Client Representative	Weather
Envirocon	Tom Schnobrich	Sunny/Warm
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager
		Tony Martin
General Contractor	General Contractor Representative	HWA Field Representative
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD REPORT

SUMMARY OF FIELD TIME SPENT ON PROJECT TODAY:
First Site Visit: Start Travel: 0755 Arrived at Site: 0805 Departed Site: 0900 End Travel: 0915

ACTIVITY BEING INSPECTED: Compaction of material from the Upper Stockpile.
GENERAL LOCATION: Fill placed as Backfill of Excavation B14.
DETAILED LOCATION: The specific locations and elevations tested are summarized on the attached 'Field Compaction Test Report'.
TYPE OF INSPECTION: Periodic
DETAILS OF PLACEMENT OF THIS MATERIAL: The fill was being placed in lifts no greater than 8-inches (uncompacted thickness), then compacted with SD-116 pad foot, single-drum 12-ton compactor. HWA has no specific knowledge as to the overall depth of the fill placed at test location #1 or #2, however, at the time of our arrival the back fill had been placed to elevations varying between approximately grade and 1 feet below finished grade. (Note that in this context, "finished grade" means the existing site grade.)
HWA INSPECTION ACTIVITIES RELATED TO THIS ITEM: HWA conducted nuclear density testing and a physical evaluation of the backfill utilizing a 1/2 inch diameter steel T-handled probe of the backfill. Both nuclear density testing and our physical evaluation indicated that the excavation backfill material was placed to a well-compacted and dense state. Test results are summarized on the attached 'Field Compaction Test Report'.
CONFORMANCE OF THIS ITEM: To the best of the inspector's knowledge, the item inspected was found in conformance with approved plans, specifications and RFIs.

MISCELLANEOUS ACTIVITIES, OBSERVATIONS AND/OR COMMENTS:

At all locations, testing or retesting indicated the fill was placed to the specified degree of compaction or greater.

Total time chargeable to this job is 2.0 hours including the time for writing this report.

SIGNATURES:

Signed: _____ Reviewed: _____
HWA Field Representative HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES

Report#	Item#	Status
na	na	There are no outstanding issues at this time.

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-008
Date (mm/dd/yy): 9/12/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	**Client Representative**	**Weather**
Envirocon	Tom Schnobrich	Sunny/Warm
Design Authority (engineer or architect of record)	**Design Authority Representative**	**HWA Project Manager**
		Tony Martin
General Contractor	**General Contractor Representative**	**HWA Field Representative**
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD COMPACTION TEST REPORT - NUCLEAR METHOD

MATERIAL BEING PLACED: *see accompanying field report*

PROJECT IMPROVEMENT TESTED: *see accompanying field report*

Test No.	Detailed Test Location	Elev'n or Depth B.G.**	Probe Depth (in)	Lab Control* (Proctor/Rice/Marshall) ID #	Max. Dens.	Opt. Moist.	Over Size %	Field Test Density Total pcf	Density Dry pcf	Moist. Moist. %	Relative Compaction Field %	Spec %
1	*Excavation B14. Northern quadrant*	*-1ft*	*12 in*	*UPS S-2*	*133.6*	*8.1*	*12.4*	*128.8*	*121.4*	*6.1*	*91*	*90*
2	*Excavation B14. Southern quadrant.*	*final grade*	*12 in*	*UPS S-2*	*133.6*	*8.1*	*12.4*	*131.9*	*124.4*	*6.0*	*93*	*90*
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												

Test Method: X ASTM D2922/D3017 (soil) ____ ASTM D2950 (asphalt) ____ Other:

Densometer: X Troxler 3440 ____ Troxler 3430 ____ Troxler 3411-B ____ CPN MC1-DR-P

Serial #: 29276 Density Standard Count.: 2579 Moisture Standard Count: 624

*Lab Control: X Standard Proctor ____ Modified Proctor

____ Asphalt Marshall Density ____ Asphalt Maximum Theoretical Density (Rice)

COMMENTS: Test locations and elevations are approximate. Testing provides data only for a specific test location and to a limited depth. Accompanying field report provides additional information. **Depth B.G. indicates depth below grade. Grade means the design finish grade of the current type of fill material being placed. Bolded results indicate compaction below specified value.

Completed By: John H. "Jack" Carlock Reviewed By: Tony Martin

HWA GEOSCIENCES INC.

19730-64th AVE W STE 200
Lynnwood, WA 98036-5904
Tel. 425-774-0106

FAXMITTAL

Fax: 425-774-2714

Date: October 2, 2007
From: Tony Martin
HWA's Project #: 2007-132-23
Sent To....

Company:	Envirocon	
Attention:	Tom Schnobrich	
Fax No.:	**503-285-6205**	
Phone No.:	503-285-6164	

Number of Pages: 3 (including cover sheet)

ORIGINAL TO FOLLOW BY MAIL	Yes	X No

Subject: **Chevron Edmonds**

Tom,

Please find attached a copy of Field Report FR-FR-010 for the Chevron Edmonds Project.

If you have any questions regarding the above, please call.

Best Regards,

Tony Martin
Office: 425-774-0106
Cell: 206-794-3126

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-010
Date (mm/dd/yy): 10/2/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client: Envirocon	Client Representative: Tom Schnobrich	Weather: Cloudy/Rain/Cool
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager: Tony Martin
General Contractor: Envirocon	General Contractor Representative: Chuck Hyatt	HWA Field Representative: John H. "Jack" Carlock

FIELD COMPACTION TEST REPORT - NUCLEAR METHOD

MATERIAL BEING PLACED: *see accompanying field report*

PROJECT IMPROVEMENT TESTED: *see accompanying field report*

Test No.	Detailed Test Location	Elev'n or Depth B.G.**	Probe Depth (in)	Lab Control* (Proctor/Rice/Marshall) ID #	Max. Dens.	Opt. Moist.	Over Size %	Field Test Density Total pcf	Density Dry pcf	Moist. Moist. %	Relative Compaction Field %	Spec %
1	*Excavation A-3. Western Half of Northern Quadrant*	-3.0ft	12 in	UPS S-2	137.4	7.1	25.0	142.6	131.4	8.5	96	90
2	*Excavation A-3. Center of Northern Quadrant.*	-3.5ft	12 in	UPS S-2	135.9	7.5	20.0	140.7	129.7	8.5	95	90
3												
4												
5												
6												
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8												
9												
10												
11												
12												
13												

Test Method: X ASTM D2922/D3017 (soil) ____ ASTM D2950 (asphalt) ____ Other:

Densometer: X Troxler 3440 ____ Troxler 3430 ____ Troxler 3411-B ____ CPN MC1-DR-P

Serial #: 29276 Density Standard Count.: 2551 Moisture Standard Count: 627

*Lab Control: X Standard Proctor ____ Modified Proctor

____ Asphalt Marshall Density ____ Asphalt Maximum Theoretical Density (Rice)

COMMENTS: Test locations and elevations are approximate. Testing provides data only for a specific test location and to a limited depth. Accompanying field report provides additional information. **Depth B.G. indicates depth below grade. Grade means the design finish grade of the current type of fill material being placed. Bolded results indicate compaction below specified value.

Completed By: John H. "Jack" Carlock

Reviewed By: Tony Martin

HWA GEOSCIENCES INC.

19730-64th AVE W STE 200
Lynnwood, WA 98036-5904
Tel. 425-774-0106

FAXMITTAL

Fax: 425-774-2714
Date: October 2, 2007
From: Tony Martin
HWA's Project #: 2007-132-23
Sent To....

Company:	Envirocon	
Attention:	Tom Schnobrich	
Fax No.:	**503-285-6205**	
Phone No.:	503-285-6164	

Number of Pages: 3 (including cover sheet)

ORIGINAL TO FOLLOW BY MAIL	Yes	X No

Subject: **Chevron Edmonds**

Tom,

Please find attached a copy of Field Report FR-FR-010 for the Chevron Edmonds Project.

If you have any questions regarding the above, please call.

Best Regards,

Tony Martin
Office: 425-774-0106
Cell: 206-794-3126

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-010
Date (mm/dd/yy): 10/2/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	Client Representative	Weather
Envirocon	Tom Schnobrich	Cloudy/Rain/Cool
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager
		Tony Martin
General Contractor	General Contractor Representative	HWA Field Representative
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD REPORT

SUMMARY OF FIELD TIME SPENT ON PROJECT TODAY:
First Site Visit: Start Travel: 1030 Arrived at Site: 1040 Departed Site: 1140 End Travel: 1155

ACTIVITY BEING INSPECTED: Compaction of material from the Lower, Eastern Stockpile.
GENERAL LOCATION: Fill placed as Backfill of Excavation A-3 (northwestern quadrant).
DETAILED LOCATION: The specific locations and elevations tested are summarized on the attached 'Field Compaction Test Report'.
TYPE OF INSPECTION: Periodic
DETAILS OF PLACEMENT OF THIS MATERIAL: Upon arrival on site it was learned from Chuck Hyatt that the contractor had placed approximately a 4 ft thick lift of a granular fill (3/4 washed drain rock) along the floor of the excavation, followed by fill material transported from the Lower, Eastern Stockpile. We observed that the fill material was placed in lifts no greater than 8-inches in uncompacted thickness, then compacted with SD-116 pad foot, single-drum 12-ton compactor. HWA has no specific knowledge as to the overall depth of the fill placed in the northern 1/4 of Excavation A-3, however, at the time of our arrival, the backfill had been placed to approximately finished grade minus 1.5ft to minus 3.5 foot. (It should be noted that in this context, "finished grade" means the existing site grade.) HWA was able to observe both the placement and the compaction of the fill material represented at test locations #1 and #2.
HWA INSPECTION ACTIVITIES RELATED TO THIS ITEM: HWA conducted nuclear density testing and a physical evaluation of the backfill utilizing a 1/2 inch diameter steel T-handled probe of the backfill. Both nuclear density testing and our physical evaluation indicated that the backfill material was placed to the specified degree of compaction or greater. Test results are summarized on the attached 'Field Compaction Test Report'.
CONFORMANCE OF THIS ITEM: To the best of the inspector's knowledge, the item inspected was found in conformance with approved plans, specifications and RFIs.

MISCELLANEOUS ACTIVITIES, OBSERVATIONS AND/OR COMMENTS:

It is our understanding that the original source for the soil comprising the Lower, Eastern Stockpile is the same source for the soils of the Upper Stockpile (USP).

Total time chargeable to this job is 2.0 hours including the time for writing this report.

SIGNATURES:

Signed: Tony Martin for JACK Reviewed:
HWA Field Representative HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES

Report#	Item#	Status
na	na	There are no outstanding issues at this time.

HWA GEOSCIENCES INC.

19730-64th AVE W STE 200
Lynnwood, WA 98036-5904
Tel. 425-774-0106

FAXMITTAL

Fax: 425-774-2714
Date: October 2, 2007
From: Tony Martin
HWA's Project #: 2007-132-23
Sent To....

Company:	Envirocon		
Attention:	Tom Schnobrich		
Fax No.:	**503-285-6205**		
Phone No.:	503-285-6164		

Number of Pages: 3 (including cover sheet)

ORIGINAL TO FOLLOW BY MAIL	Yes	X No

Subject: **Chevron Edmonds**

Tom,

Please find attached a copy of Field Report FR-FR-009 for the Chevron Edmonds Project.

If you have any questions regarding the above, please call.

Best Regards,

Tony Martin
Office: 425-774-0106
Cell: 206-794-3126

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-009
Date (mm/dd/yy): 9/27/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	Client Representative	Weather
Envirocon	Tom Schnobrich	Cloudy/Warm
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager
		Tony Martin
General Contractor	General Contractor Representative	HWA Field Representative
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD REPORT

SUMMARY OF FIELD TIME SPENT ON PROJECT TODAY:
First Site Visit: Start Travel: 1355 Arrived at Site: 1405 Departed Site: 1445 End Travel: 1500

ACTIVITY BEING INSPECTED: Compaction of material from the Lower, Eastern Stockpile.
GENERAL LOCATION: Fill placed as Backfill of Excavation B14 (western half).
DETAILED LOCATION: The specific locations and elevations tested are summarized on the attached 'Field Compaction Test Report'.
TYPE OF INSPECTION: Periodic
DETAILS OF PLACEMENT OF THIS MATERIAL: The fill was being placed in lifts no greater than 8-inches (uncompacted thickness), then compacted with SD-116 pad foot, single-drum 12-ton compactor. HWA has no specific knowledge as to the overall depth of the fill placed at test location #1 or #2, however, at the time of our arrival the back fill had been placed to elevations varying between approximately grade and 3.5 feet below finished grade. (Note that in this context, "finished grade" means the existing site grade.)
HWA INSPECTION ACTIVITIES RELATED TO THIS ITEM: HWA conducted nuclear density testing and a physical evaluation of the backfill utilizing a 1/2 inch diameter steel T-handled probe of the backfill. Both nuclear density testing and our physical evaluation indicated that the excavation backfill material was placed to a well-compacted and dense state. Test results are summarized on the attached 'Field Compaction Test Report'.
CONFORMANCE OF THIS ITEM: To the best of the inspector's knowledge, the item inspected was found in conformance with approved plans, specifications and RFIs.

MISCELLANEOUS ACTIVITIES, OBSERVATIONS AND/OR COMMENTS:

It is our understanding that the original source for the soil comprising the Lower, Eastern Stockpile is the same source for the soils of the Upper Stockpile (USP).

At all locations, testing indicated the fill was placed to the specified degree of compaction or greater.

Total time chargeable to this job is 1.5 hours including the time for writing this report.

SIGNATURES:

Signed: _____
HWA Field Representative

Reviewed: _____
HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES

Report#	Item#	Status
na	na	There are no outstanding issues at this time.

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-009
Date (mm/dd/yy): 9/27/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client: Envirocon	Client Representative: Tom Schnobrich	Weather: Cloudy/Warm
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager: Tony Martin
General Contractor: Envirocon	General Contractor Representative: Chuck Hyatt	HWA Field Representative: John H. "Jack" Carlock

FIELD COMPACTION TEST REPORT - NUCLEAR METHOD

MATERIAL BEING PLACED: *see accompanying field report*

PROJECT IMPROVEMENT TESTED: *see accompanying field report*

Test No.	Detailed Test Location	Elev'n or Depth B.G.**	Probe Depth (in)	Lab Control* (Proctor/Rice/Marshall) ID #	Max. Dens.	Opt. Moist.	Over Size %	Field Test Density Total pcf	Density Dry pcf	Moist. Moist. %	Relative Compaction Field %	Spec %
1	*Excavation B14. Western Half Southeastern quadrant*	*-1ft*	*12 in*	*UPS S-2*	*133.6*	*8.1*	*12.4*	*131.8*	*124.1*	*6.2*	*93*	*90*
2	*Excavation B14. Western Half Northern quadrant.*	*-3.5ft*	*12 in*	*UPS S-2*	*133.6*	*8.1*	*12.4*	*132.6*	*125.0*	*6.1*	*94*	*90*
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												

Test Method: X ASTM D2922/D3017 (soil) ____ ASTM D2950 (asphalt) ____ Other:

Densometer: X Troxler 3440 ____ Troxler 3430 ____ Troxler 3411-B ____ CPN MC1-DR-P

Serial #: 29276 Density Standard Count.: 2541 Moisture Standard Count: 630

*Lab Control: X Standard Proctor ____ Modified Proctor

____ Asphalt Marshall Density ____ Asphalt Maximum Theoretical Density (Rice)

COMMENTS: Test locations and elevations are approximate. Testing provides data only for a specific test location and to a limited depth. Accompanying field report provides additional information. **Depth B.G. indicates depth below grade. Grade means the design finish grade of the current type of fill material being placed. Bolded results indicate compaction below specified value.

Completed By: John H. "Jack" Carlock Reviewed By: Tony Martin

HWA GEOSCIENCES INC.

19730-64th AVE W STE 200
Lynnwood, WA 98036-5904
Tel. 425-774-0106

FAXMITTAL

Fax: 425-774-2714
Date: October 16, 2007
From: Tony Martin
HWA's Project #: 2007-132-23
Sent To....

Company:	Envirocon	
Attention:	Tom Schnobrich	
Fax No.:	**503-285-6205**	
Phone No.:	503-285-6164	

Number of Pages: 2 (including cover sheet)

ORIGINAL TO FOLLOW BY MAIL	Yes	X No

Subject: **Chevron Edmonds**

Tom,

Please find attached a copy of Field Report FR-FR-016 for the Chevron Edmonds Project.

If you have any questions regarding the above, please call.

Best Regards,

Tony Martin
Office: 425-774-0106
Cell: 206-794-3126

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-016
Date (mm/dd/yy): 10/16/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	Client Representative	Weather
Envirocon	Tom Schnobrich	Cloudy/Cool
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager
		Tony Martin
General Contractor	General Contractor Representative	HWA Field Representative
Envirocon	Chuck Hyatt	Tony Martin

FIELD REPORT

SUMMARY OF FIELD TIME SPENT ON PROJECT TODAY:
First Site Visit: Start Travel: 1515 Arrived at Site: 1545 Departed Site: 1615 End Travel: 1700

MISCELLANEOUS ACTIVITIES, OBSERVATIONS AND/OR COMMENTS:
Because the first sample obtained earlier this day contained over 30% of material on the 3/4" sieve screen, no proctor could be run per ASTM Spec. At the request of the client, a second visit was made to Rinker Materials located in Everett, WA to obtain a second sample of Gravel Borrow being supplied for the above mention project. This sample was also transported to HWA's laboratory for proctor testing.

Total time chargeable to this job is 2.0 hours including the time for writing this report.

SIGNATURES:

Signed: _____
HWA Field Representative

Reviewed: _____
HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES

Report#	Item#	Status
na	na	There are no outstanding issues at this time.

HWA GEOSCIENCES INC.
19730-64th AVE W STE 200
Lynnwood, WA 98036-5904
Tel. 425-774-0106

E-MAILED

FAXMITTAL

Fax: 425-774-2714
Date: October 19, 2007
From: Tony Martin
HWA's Project #: 2007-132-23
Sent To....

Company:	Envirocon	
Attention:	Tom Schnobrich	
Fax No.:	**503-285-6205**	
Phone No.:	503-285-6164	

Number of Pages: 2 (including cover sheet)

ORIGINAL TO FOLLOW BY MAIL	Yes	X No

Subject: **Chevron Edmonds**

Tom,

Please find attached a copy of laboratory Proctor sample AG-2 for the Chevron Edmonds Project.

If you have any questions regarding the above, please call.

Best Regards,

Tony Martin
Office: 425-774-0106
Cell: 206-794-3126

LABORATORY COMPACTION CHARACTERISTICS OF SOIL

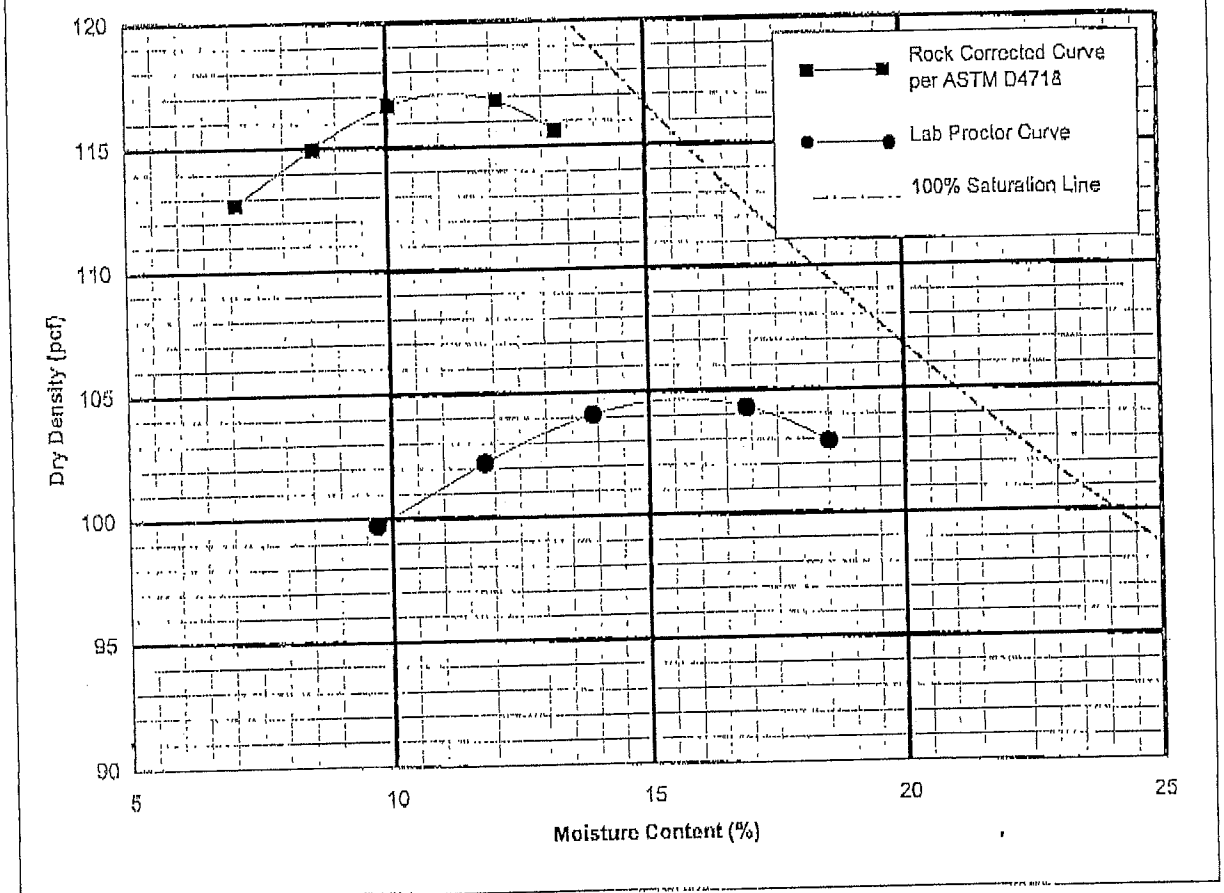
HWA GEOSCIENCES INC.

CLIENT: *Envirocon*
PROJECT: *Chevron Edmonds*
SAMPLE ID: *AG-2*
PROJECT NO: *2007132-T100* Sampled By: *JHC* Tested By: *EJB*
Date Sampled: *10/16/2007* Date Received: *10/16/2007* Date Tested: *10/17/2007*

MATERIAL TYPE OR DESCRIPTION:
Gravel Borrow
MATERIAL SOURCE, SAMPLE LOCATION AND DEPTH:
Rinker Plant in Everett

Designation: [X] ASTM D 698 [ ] ASTM D 1557 Natural Moisture Content: *6.4* %
Method: [ ] A [ ] B [X] C Oversize: *30* % retained on: *3/4* in.
Preparation: [ ] Dry [X] Moist Rammer: [X] Auto [ ] Manual Assumed S.G.: *2.6*

Test Data					
Dry Density (pcf)	*99.7*	*102.2*	*104.1*	*104.3*	*102.9*
Moisture Content (%)	*9.7*	*11.8*	*13.9*	*16.9*	*18.5*



Data Summary*	
Percent Oversize	*30.0%*
Max. Dry Density (pcf)*	*117.3*
Optimum Moisture (%)*	*11.2*

Test Values At Other Oversize Percentages						
0.0%	5.0%	10.0%	15.0%	20.0%	25.0%	30.0%
104.8	*106.7*	*108.7*	*110.7*	*112.8*	*115.0*	*117.3*
15.5	*14.8*	*14.1*	*13.3*	*12.6*	*11.9*	*11.2*

* values corrected for oversize material per ASTM D4718, using assumed Specific Gravity shown and oversize moisture content of 1%

Reviewed By: *George Minassian* FIGURE *1*

HWA GEOSCIENCES INC.
19730-64th AVE W STE 200
Lynnwood, WA 98036-5904
Tel. 425-774-0106

FAXMITTAL

Fax: 425-774-2714
Date: October 19, 2007
From: Tony Martin
HWA's Project #: 2007-132-23
Sent To....

Company:	Envirocon	
Attention:	Tom Schnobrich	
Fax No.:	**503-285-6205**	
Phone No.:	503-285-6164	

Number of Pages: 2 (including cover sheet)

ORIGINAL TO FOLLOW BY MAIL	Yes	X No

Subject: **Chevron Edmonds**

Tom,

Please find attached a copy of laboratory Proctor sample AG-2 for the Chevron Edmonds Project.

If you have any questions regarding the above, please call.

Best Regards,

Tony Martin
Office: 425-774-0106
Cell: 206-794-3126

LABORATORY COMPACTION CHARACTERISTICS OF SOIL

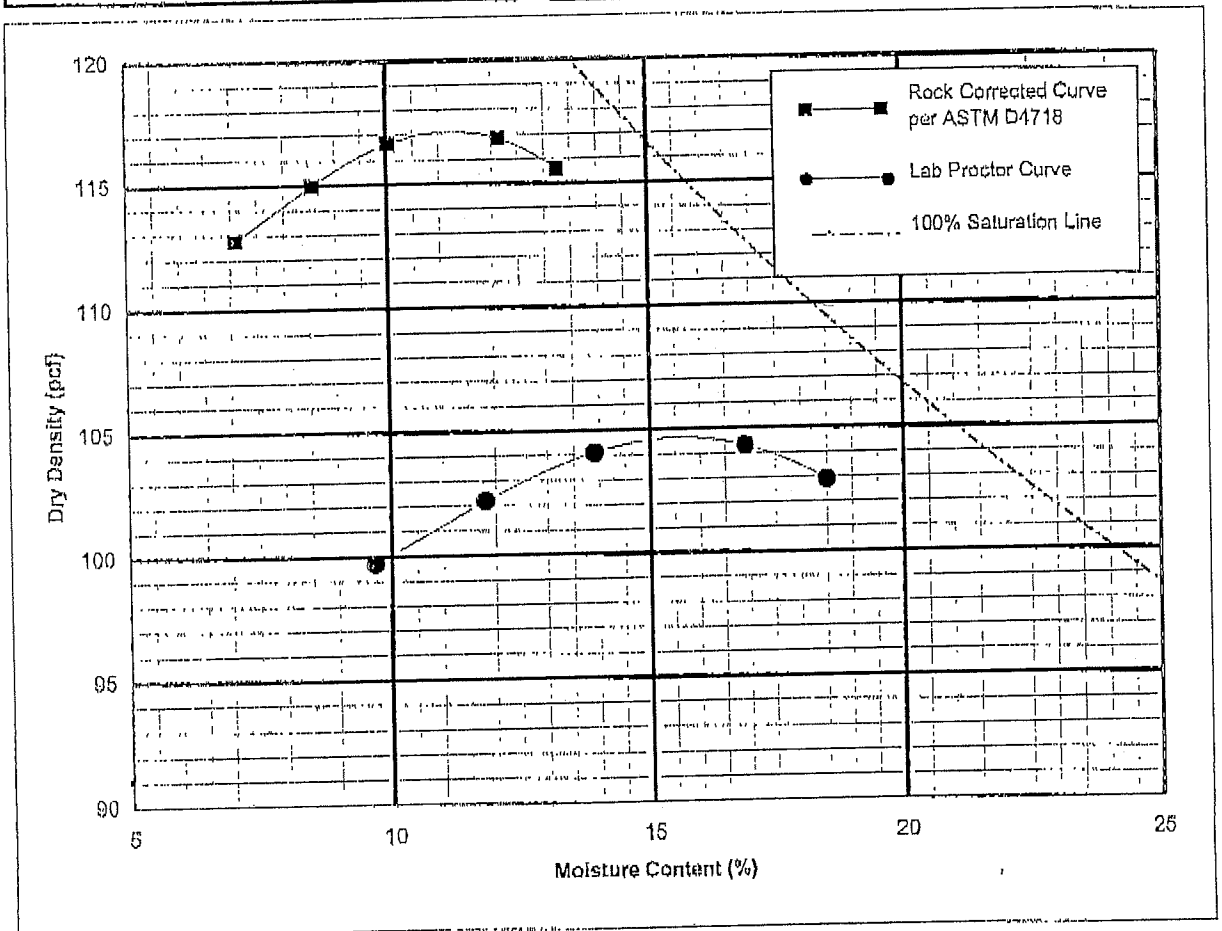
HWA GEOSCIENCES INC.

CLIENT: *Envirocon*
PROJECT: *Chevron Edmonds*
SAMPLE ID: *AG-2*
PROJECT NO: *2007132-T100* Sampled By: *JHC* Tested By: *EJB*
Date Sampled: *10/16/2007* Date Received: *10/16/2007* Date Tested: *10/17/2007*

MATERIAL TYPE OR DESCRIPTION:
Gravel Borrow
MATERIAL SOURCE, SAMPLE LOCATION AND DEPTH:
Rinker Plant in Everett

Designation: [X] ASTM D 698 [ ] ASTM D 1557 Natural Moisture Content: *6.4* %
Method: [ ] A [ ] B [X] C Oversize: *30* % retained on: *3/4* in.
Preparation: [ ] Dry [X] Moist Rammer: [X] Auto [ ] Manual Assumed S.G.: *2.6*

Test Data					
Dry Density (pcf)	*99.7*	*102.2*	*104.1*	*104.3*	*102.9*
Moisture Content (%)	*9.7*	*11.8*	*13.9*	*16.9*	*18.5*



Data Summary*	
Percent Oversize	*30.0%*
Max. Dry Density (pcf)*	*117.3*
Optimum Moisture (%)*	*11.2*

Test Values At Other Oversize Percentages						
0.0%	5.0%	10.0%	15.0%	20.0%	25.0%	30.0%
104.8	*106.7*	*108.7*	*110.7*	*112.8*	*115.0*	*117.3*
15.5	*14.8*	*14.1*	*13.3*	*12.6*	*11.9*	*11.2*

* values corrected for oversize material per ASTM D4718, using assumed Specific Gravity shown and oversize moisture content of 1%

Reviewed By: *George Minassian* FIGURE *1*

HWA GEOSCIENCES INC.

19730-64th AVE W STE 200
Lynnwood, WA 98036-5904
Tel. 425-774-0106

FAXMITTAL

Fax: 425-774-2714
Date: November 1, 2007
From: Tony Martin
HWA's Project #: 2007-132-23
Sent To....

Company:	Envirocon	
Attention:	Tom Schnobrich	
Fax No.:	**503-285-6205**	
Phone No.:	503-285-6164	

Number of Pages: 19 (including cover sheet)

ORIGINAL TO FOLLOW BY MAIL	Yes	X No

Subject: **Chevron Edmonds**

Tom,

Please find attached a copy of Field Reports FR-010 through FR-019 for the Chevron Edmonds Project.

If you have any questions regarding the above, please call.

Best Regards,

Tony Martin
Office: 425-774-0106
Cell: 206-794-3126

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-010
Date (mm/dd/yy): 10/2/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	Client Representative	Weather
Envirocon	Tom Schnobrich	Cloudy/Rain/Cool
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager
		Tony Martin
General Contractor	General Contractor Representative	HWA Field Representative
Envirocon	Chuck Hyatt	John M. "Jack" Carlock

FIELD REPORT

SUMMARY OF FIELD TIME SPENT ON PROJECT TODAY:
First Site Visit: Start Travel: 1030 Arrived at Site: 1040 Departed Site: 1140 End Travel: 1155

ACTIVITY BEING INSPECTED: Compaction of material from the Lower, Eastern Stockpile.
GENERAL LOCATION: Fill placed as Backfill of Excavation A-3, Northern 1/4.
DETAILED LOCATION: The specific locations and elevations tested are summarized on the attached 'Field Compaction Test Report'.
TYPE OF INSPECTION: Periodic
DETAILS OF PLACEMENT OF THIS MATERIAL: Upon arrival on site it was learned from Chuck Hyatt that the contractor had placed approximately a 3ft to 4 ft thick lift of a granular fill (3/4 washed drain rock), with 1ft of the granular layer functioning as a capillary break between the standing water in A-3, and the fill material currently transported from the Lower, Eastern Stockpile and placed as fill in Excavation A-3. We observed that the fill material was placed in lifts approximating 8-inches in uncompacted thickness, then compacted with SD-116 pad foot, single-drum 12-ton compactor. HWA has no specific knowledge as to the overall depth of the fill placed in the northern 1/4 of Excavation A-3, however, at the time of our arrival, the backfill had been placed to depths varying between finished grade to minus 1.5ft, to minus 3.5 foot approximately. (It should be noted that in this context, "finished grade" means the existing site grade.) HWA was able to observe both the placement and the compaction of the fill material represented at test locations #1 and #2.
HWA INSPECTION ACTIVITIES RELATED TO THIS ITEM: HWA conducted nuclear density testing and a physical evaluation of the backfill utilizing a 1/2 inch diameter steel T-handled probe of the backfill. Both nuclear density testing and our physical evaluation indicated that the backfill material was placed to the specified degree of compaction or greater. Test results are summarized on the attached 'Field Compaction Test Report'.
CONFORMANCE OF THIS ITEM: To the best of the inspector's knowledge, the item inspected was found in conformance with approved plans, specifications and RFIs.

MISCELLANEOUS ACTIVITIES, OBSERVATIONS AND/OR COMMENTS:

It is our understanding that the original source for the soil comprising the Lower, Eastern Stockpile is the same source for the soils of the Upper Stockpile (USP).

Total time chargeable to this job is 2.0 hours including the time for writing this report.

SIGNATURES:

Signed: _____ Reviewed: _____
HWA Field Representative HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES

Report#	Item#	Status
na	na	There are no outstanding issues at this time.

HWA GEOSCIENCES INC.
19730 64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-010
Date (mm/dd/yy): 10/2/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client: Envirocon	Client Representative: Tom Schnobrich	Weather: Cloudy/Rain/Cool
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager: Tony Martin
General Contractor: Envirocon	General Contractor Representative: Chuck Hyatt	HWA Field Representative: John H. "Jack" Carlock

FIELD COMPACTION TEST REPORT - NUCLEAR METHOD

MATERIAL BEING PLACED: *see accompanying field report*

PROJECT IMPROVEMENT TESTED: *see accompanying field report*

Test No.	Detailed Test Location	Elev'n or Depth B.G.**	Probe Depth (in)	Lab Control* (Proctor/Rice/Marshall) ID #	Max. Dens.	Opt. Moist.	Over Size %	Field Test Density Total pcf	Density Dry pcf	Moist. Moist. %	Relative Compaction Field %	Spec %
1	*Excavation A-3. 12ft E of W-Bank, 35ft So of N-Bank.*	*-3.0ft*	*12 in*	*UPS S-2*	*137.4*	*7.1*	*25.0*	*142.6*	*131.4*	*8.5*	**96**	*90*
2	*Excavation A-3. 18ft So. of N-Bank, 25ft W. of E-Bank*	*-3.5ft*	*12 in*	*UPS S-2*	*135.9*	*7.5*	*20.0*	*140.7*	*129.7*	*8.5*	**95**	*90*
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												

Test Method: X ASTM D2922/D3017 (soil) ____ ASTM D2950 (asphalt) ____ Other:

Densometer: X Troxler 3440 ____ Troxler 3430 ____ Troxler 3411-B ____ CPN MC1-DR-P

Serial #: 29276 Density Standard Count.: 2551 Moisture Standard Count: 627

*Lab Control: X Standard Proctor ____ Modified Proctor

____ Asphalt Marshall Density ____ Asphalt Maximum Theoretical Density (Rice)

COMMENTS: Test locations and elevations are approximate. Testing provides data only for a specific test location and to a limited depth. Accompanying field report provides additional information. **Depth B.G. indicates depth below grade. Grade means the design finish grade of the current type of fill material being placed. Bolded results indicate compaction below specified value.

Completed By: John H. "Jack" Carlock Reviewed By: Tony Martin

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-011
Date (mm/dd/yy): 10/3/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	**Client Representative**	**Weather**
Envirocon	Tom Schnobrich	Cloudy/Rain/Cool
Design Authority (engineer or architect of record)	**Design Authority Representative**	**HWA Project Manager**
		Tony Martin
General Contractor	**General Contractor Representative**	**HWA Field Representative**
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD REPORT

SUMMARY OF FIELD TIME SPENT ON PROJECT TODAY:
First Site Visit: Start Travel: 1315 Arrived at Site: 1330 Departed Site: 1415 End Travel: 1430

ACTIVITY BEING INSPECTED: Compaction of material from the Lower, Eastern Stockpile.
GENERAL LOCATION: Fill placed as Backfill of Excavation A-3 (northern half).
DETAILED LOCATION: The specific locations and elevations tested are summarized on the attached 'Field Compaction Test Report'.
TYPE OF INSPECTION: Periodic
DETAILS OF PLACEMENT OF THIS MATERIAL: Upon arrival on site it was observed that the contractor was continuing to place approximately a 3ft to 4 ft thick lift of a granular fill (3/4 washed drain rock) as a bridge over the standing 2 to 3 foot of water contained within Excavation A-3. Approximatly 1ft of the granular layer is functioning as a capillary break between the standing water and the fill material currently being transported from the Lower, Eastern Stockpile. We did not observe the placement or compaction of fill material today but we understand that the contractor continued in their established methods of placing the fill in lifts approximating 8-inches in uncompacted thickness, and then compacting it with SD-116 pad foot, single-drum 12-ton compactor. HWA has no specific knowledge as to the overall depth of the fill placed in the northern 1/2 of Excavation A-3, however, at the time of our arrival, the backfill had been placed to approximately finished grade minus 1.5ft to minus 4.5 foot. (It should be noted that in this context, "finished grade" means the existing site grade.)
HWA INSPECTION ACTIVITIES RELATED TO THIS ITEM: HWA conducted nuclear density testing and a physical evaluation of the backfill utilizing a 1/2 inch diameter steel T-handled probe of the backfill. Both nuclear density testing and our physical evaluation indicated that the backfill material was placed to the specified degree of compaction or greater. Test results are summarized on the attached 'Field Compaction Test Report'.
CONFORMANCE OF THIS ITEM: To the best of the inspector's knowledge, the item inspected was found in conformance with approved plans, specifications and RFIs.

MISCELLANEOUS ACTIVITIES, OBSERVATIONS AND/OR COMMENTS:

It is our understanding that the original source for the soil comprising the Lower, Eastern Stockpile is the same source for the soils of the Upper Stockpile (USP).

Total time chargeable to this job is 2.0 hours including the time for writing this report.

SIGNATURES:

Signed: Tony Martin for JACK — HWA Field Representative
Reviewed: — HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES

Report#	Item#	Status
na	na	There are no outstanding issues at this time.

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-011
Date (mm/dd/yy): 10/3/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	**Client Representative**	**Weather**
Envirocon	Tom Schnobrich	Cloudy/Rain/Cool
Design Authority (engineer or architect of record)	**Design Authority Representative**	**HWA Project Manager**
		Tony Martin
General Contractor	**General Contractor Representative**	**HWA Field Representative**
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD COMPACTION TEST REPORT - NUCLEAR METHOD

MATERIAL BEING PLACED: *see accompanying field report*

PROJECT IMPROVEMENT TESTED: *see accompanying field report*

Test No.	Detailed Test Location	Elev'n or Depth B.G.**	Probe Depth (in)	Lab Control* (Proctor/Rice/Marshall) ID #	Max. Dens.	Opt. Moist.	Over Size %	Field Test Density Total pcf	Dry pcf	Moist. Moist. %	Relative Compaction Field %	Spec %
1	Excavation A-3. Northern Half, 18ft W. of E-Bank, 50ft S. of N-Bank	-3.5ft	12 in	UPS S-2	137.4	7.1	25.0	144.0	134.7	6.9	98	90
2	Excavation A-3. Northern Half, 20ft E. of W-Bank, 50ft S. of N-Bank	-3.5ft	12 in	UPS S-2	137.4	7.1	25.0	143.7	134.6	6.7	98	90
3	Excavation A-3. Northern Half, 40ft E. of W-Bank, 50ft S. of N-Bank	-3.0ft	12 in	UPS S-2	137.4	7.1	25.0	140.2	130.9	7.1	95	90
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												

Test Method: X ASTM D2922/D3017 (soil) ___ ASTM D2950 (asphalt) ___ Other:

Densometer: X Troxler 3440 ___ Troxler 3430 ___ Troxler 3411-B ___ CPN MC1-DR-P

Serial #: 29276 Density Standard Count.: 2550 Moisture Standard Count: 631

*Lab Control: X Standard Proctor ___ Modified Proctor

___ Asphalt Marshall Density ___ Asphalt Maximum Theoretical Density (Rice)

COMMENTS: Test locations and elevations are approximate. Testing provides data only for a specific test location and to a limited depth. Accompanying field report provides additional information. **Depth B.G. indicates depth below grade. Grade means the design finish grade of the current type of fill material being placed. Bolded results indicate compaction below specified value.

Completed By: John H. "Jack" Carlock Reviewed By: Tony Martin

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-012
Date (mm/dd/yy): 10/4/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	Client Representative	Weather
Envirocon	Tom Schnobrich	Cloudy/Rain/Cool
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager
		Tony Martin
General Contractor	General Contractor Representative	HWA Field Representative
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD REPORT

SUMMARY OF FIELD TIME SPENT ON PROJECT TODAY:
First Site Visit: Start Travel: 1315 Arrived at Site: 1330 Departed Site: 1420 End Travel: 1435

ACTIVITY BEING INSPECTED: Compaction of material from the Lower, Eastern Stockpile.
GENERAL LOCATION: Fill placed as Backfill of Excavation A-3 (northern & eastern sections).
DETAILED LOCATION: The specific locations and elevations tested are summarized on the attached 'Field Compaction Test Report'.
TYPE OF INSPECTION: Periodic
DETAILS OF PLACEMENT OF THIS MATERIAL: Upon arrival on site it was observed that the contractor was continuing to place a 3ft to 4ft thick lift of a granular fill (3/4 washed drain rock), with approximately 1ft of the granular layer functioning as a capillary break between the standing water in A-3 and the material currently being placed as fill in Excavation A-3. We observed portions of the placement and compaction activities. It was noted that the contractor has broken with their established methods of placing lifts no greater than 8-inches in uncompacted thickness. The lift thickness today appeared to be greater than 1-foot in uncompacted thickness, but the contractor continues compacting the lifts with the SD-116 pad foot, single-drum 12-ton compactor. HWA has no specific knowledge as to the overall depth of the fill placed in the northern 1/2 of Excavation A-3, however, at the time of our arrival, the backfill had been placed to approximately finished grade minus 1.5ft to minus 4.5 foot at leading edge of fill placement.
HWA INSPECTION ACTIVITIES RELATED TO THIS ITEM: HWA conducted nuclear density testing and a physical evaluation of the backfill utilizing a 1/2 inch diameter steel T-handled probe of the backfill. Both nuclear density testing and our physical evaluation indicated that the backfill material was placed to the specified degree of compaction or greater. Test results are summarized on the attached 'Field Compaction Test Report'.
CONFORMANCE OF THIS ITEM: To the best of the inspector's knowledge, the item inspected was found in conformance with approved plans, specifications and RFIs.

MISCELLANEOUS ACTIVITIES, OBSERVATIONS AND/OR COMMENTS:
The compacted fill displayed some heaving and rolling under the weight of the compactor and haul trucks. The areas where the heaving and rolling was observed were subjected to widespread probing with a 1/2 inch diameter steel T-handled probe. The probing suggested that the fill was compacted in accordance with the site specification, suggesting that the heaving and rolling are due to the 3ft to 4ft thick lift of a granular fill below. This observation was reported Chuck Hyatt.
Our observations regarding the increased lift thickness of the fill was reported to Chuck Hyatt, along with our recommendation that lift placement be held to their established range of 8-inches in uncompacted thickness.

Total time chargeable to this job is 2.0 hours including the time for writing this report.

SIGNATURES:

Signed: _____ Reviewed: _____
HWA Field Representative HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES

Report#	Item#	Status
na	na	There are no outstanding issues at this time.

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-012
Date (mm/dd/yy): 10/4/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	Client Representative	Weather
Envirocon	Tom Schnobrich	Cloudy/Rain/Cool
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager
		Tony Martin
General Contractor	General Contractor Representative	HWA Field Representative
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD COMPACTION TEST REPORT - NUCLEAR METHOD

MATERIAL BEING PLACED: *see accompanying field report*

PROJECT IMPROVEMENT TESTED: *see accompanying field report*

Test No.	Detailed Test Location	Elev'n or Depth B.G.**	Probe Depth (in)	Lab Control* (Proctor/Rice/Marshall) ID #	Max. Dens.	Opt. Moist.	Over Size %	Field Test Density Total pcf	Density Dry pcf	Moist. Moist. %	Relative Compaction Field %	Spec %
1	*Excavation A-3, Northern 2/3, 50ft E. of W-Bank, 50ft S. of N-Bank*	*-1.5ft*	*12 in*	*UPS S-3*	*137.4*	*7.1*	*25.0*	*146.3*	*135.6*	*7.9*	**99**	*90*
2	*Excavation A-3, Northern Half, 12ft W. of E-Bank, 50ft S. of N-Bank*	*-3.5ft*	*12 in*	*UPS S-3*	*137.4*	*7.1*	*25.0*	*147.3*	*135.1*	*9.1*	**98**	*90*
3												
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10												
11												
12												

Test Method: X ASTM D2922/D3017 (soil) ____ ASTM D2950 (asphalt) ____ Other:

Densometer: X Troxler 3440 ____ Troxler 3430 ____ Troxler 3411-B ____ CPN MC1-DR-P

Serial #: 292/6 Density Standard Count.: 2550 Moisture Standard Count: 631

*Lab Control: X Standard Proctor ____ Modified Proctor

____ Asphalt Marshall Density ____ Asphalt Maximum Theoretical Density (Rice)

COMMENTS: Test locations and elevations are approximate. Testing provides data only for a specific test location and to a limited depth. Accompanying field report provides additional information. **Depth B.G. indicates depth below grade. Grade means the design finish grade of the current type of fill material being placed. Bolded results indicate compaction below specified value.

Completed By: John H. "Jack" Carlock Reviewed By: Tony Martin

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-013
Date (mm/dd/yy): 10/9/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	Client Representative	Weather
Envirocon	Tom Schnobrich	Cloudy/Rain/Cool
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager
		Tony Martin
General Contractor	General Contractor Representative	HWA Field Representative
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD REPORT

SUMMARY OF FIELD TIME SPENT ON PROJECT TODAY:
First Site Visit: Start Travel: 0945 Arrived at Site: 1000 Departed Site: 1055 End Travel: 1115

ACTIVITY BEING INSPECTED: Compaction of material from the Lower, Eastern Stockpile.
GENERAL LOCATION: Fill placed as Backfill of Excavation A-3, and northern 1/3 of B-13.
DETAILED LOCATION: The specific locations and elevations tested are summarized on the attached 'Field Compaction Test Report'.
TYPE OF INSPECTION: Periodic
DETAILS OF PLACEMENT OF THIS MATERIAL: Upon arrival on site it was observed that the contractor was continuing to place approximately 3ft to 4ft thick lift of a granular fill (3/4 washed drain rock) as a bridge over the standing 2 to 3 foot of water contained within Excavation A-3/B-13, followed by fill material transported from the Lower, Eastern Stockpile. We observed portions of the placement and compaction activities. It was observed that the fill is now being placed in lifts greater than 8-inches in uncompacted thickness, and then compacted with SD-116 pad foot, single-drum 12-ton compactor. HWA has no specific knowledge as to the overall depth of the fill placed in Excavation A-3, however, at the time of our arrival, the backfill had been placed to approximately finished grade minus 1.5ft to finished grade.
At the time of our arrival, the backfill now being placed in excavation B-13 had been placed to approximate finished grade where its Northeastern corner meets Excavation A-3. Test location #2 below was taken in this approximate area.
HWA INSPECTION ACTIVITIES RELATED TO THIS ITEM: HWA conducted nuclear density testing and a physical evaluation of the backfill utilizing a 1/2 inch diameter steel T-handled probe of the backfill. Both nuclear density testing and our physical evaluation indicated that the backfill material was placed to the specified degree of compaction or greater. Test results are summarized on the attached 'Field Compaction Test Report'.
CONFORMANCE OF THIS ITEM: To the best of the inspector's knowledge, the item inspected was found in conformance with approved plans, specifications and RFIs.

MISCELLANEOUS ACTIVITIES, OBSERVATIONS AND/OR COMMENTS:

We observed a change in the amount of oversized components (components > 3/4-inches in diameter).

Total time chargeable to this job is 2.0 hours including the time for writing this report.

SIGNATURES:

Signed: Tony Martin for Jack
HWA Field Representative

Reviewed: George Luiani
HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES

Report#	Item#	Status
na	na	There are no outstanding issues at this time.

HWA GeoSciences Inc.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-013
Date (mm/dd/yy): 10/9/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	**Client Representative**	**Weather**
Envirocon	Tom Schnobrich	Cloudy/Rain/Cool
Design Authority (engineer or architect of record)	**Design Authority Representative**	**HWA Project Manager**
		Tony Martin
General Contractor	**General Contractor Representative**	**HWA Field Representative**
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD COMPACTION TEST REPORT - NUCLEAR METHOD

MATERIAL BEING PLACED: *see accompanying field report*

PROJECT IMPROVEMENT TESTED: *see accompanying field report*

Test No.	Detailed Test Location	Elev'n or Depth B.G.**	Probe Depth (in)	Lab Control* (Proctor/Rice/Marshall) ID #	Max. Dens.	Opt. Moist.	Over Size %	Field Test Density Total pcf	Density Dry pcf	Moist. Moist. %	Relative Compaction Field %	Spec %
1	*Excavation A-3. Northern 1/3, 25ft E. of W-Bank, 45ft S. of N-Bank*	*Final Grade*	*12 in*	*UPS S-3*	*137.4*	*7.1*	*25.0*	*144.4*	*134.7*	*7.2*	*98*	*90*
2	*Excavation =A-3/B13 boundary, 60ft W. of E-Bank, 30ft N. of S-Bank*	*-2.5ft*	*12 in*	*UPS S-3*	*137.4*	*7.1*	*25.0*	*143.7*	*133.0*	*8.0*	*97*	*90*
3	*Excavation A-3. Eastern thrid, 30ft W. of E-Bank, 30ft No. of S-Bank*	*-2.5ft*	*12 in*	*UPS S-3*	*137.4*	*7.1*	*25.0*	*141.5*	*131.1*	*7.9*	*95*	*90*
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13												

Test Method: X ASTM D2922/D3017 (soil) ___ ASTM D2950 (asphalt) ___ Other:

Densometer: X Troxler 3440 ___ Troxler 3430 ___ Troxler 3411-B ___ CPN MC1-DR-P

Serial #: 29276 Density Standard Count.: 2555 Moisture Standard Count: 629

*Lab Control: X Standard Proctor ___ Modified Proctor

___ Asphalt Marshall Density ___ Asphalt Maximum Theoretical Density (Rice)

COMMENTS: Test locations and elevations are approximate. Testing provides data only for a specific test location and to a limited depth. Accompanying field report provides additional information. **Depth B.G. indicates depth below grade. Grade means the design finish grade of the current type of fill material being placed. Bolded results indicate compaction below specified value.

Completed By: John H. "Jack" Carlock Reviewed By: Tony Martin

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-014
Date (mm/dd/yy): 10/11/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	Client Representative	Weather
Envirocon	Tom Schnobrich	Cloudy/Rain/Cool
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager
		Tony Martin
General Contractor	General Contractor Representative	HWA Field Representative
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD REPORT

SUMMARY OF FIELD TIME SPENT ON PROJECT TODAY:
First Site Visit: Start Travel: 0940 Arrived at Site: 0955 Departed Site: 1055 End Travel: 1010

ACTIVITY BEING INSPECTED: Compaction of material from the Lower, Eastern Stockpile.
GENERAL LOCATION: Fill placed as Backfill of Excavation A-3 (central sections).
DETAILED LOCATION: The approximate locations and elevations tested are summarized on the attached 'Field Compaction Test Report'.
TYPE OF INSPECTION: Periodic
DETAILS OF PLACEMENT OF THIS MATERIAL: Upon arrival on site it was observed that the contractor was continuing to place a 3ft to 4ft thick lift of a granular fill (3/4 washed drain rock), with approximately 1ft of the granular layer functioning as a capillary break. The contractor continues compacting the fill with an SD-116 pad foot, single-drum 12-ton compactor. HWA has no specific knowledge as to the overall depth of the fill placed in Excavation A-3, however, at the time of our arrival, the backfill had been placed to between approximately finished grade minus 1.5ft to minus 4.5ft at leading edge of fill placement.
HWA INSPECTION ACTIVITIES RELATED TO THIS ITEM: HWA conducted nuclear density testing and a physical evaluation of the backfill utilizing a 1/2 inch diameter steel T-handled probe of the backfill. Both nuclear density testing and our physical evaluation indicated that the backfill material was placed to the specified degree of compaction or greater. Test results are summarized on the attached 'Field Compaction Test Report'.
CONFORMANCE OF THIS ITEM: To the best of the inspector's knowledge, the item inspected was found in conformance with approved plans, specifications and RFIs.

MISCELLANEOUS ACTIVITIES, OBSERVATIONS AND/OR COMMENTS:
The compacted fill displayed some heaving and rolling under the weight of the compactor and the haul trucks. The areas where the heaving and rolling was observed were subjected to widespread probing with a 1/2 inch diameter steel T-handled probe. The probing suggested that the fill was compacted in accordance with the site specification. This observation was reported to Chuck Hyatt.

Total time chargeable to this job is 2.0 hours including the time for writing this report.

SIGNATURES:

Signed: _____
HWA Field Representative

Reviewed: _____
HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES

Report#	Item#	Status
na	na	There are no outstanding issues at this time.

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-014
Date (mm/dd/yy): 10/11/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	Client Representative	Weather
Envirocon	Tom Schnobrich	Cloudy/Rain/Cool
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager
		Tony Martin
General Contractor	General Contractor Representative	HWA Field Representative
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD COMPACTION TEST REPORT - NUCLEAR METHOD

MATERIAL BEING PLACED: *see accompanying field report*

PROJECT IMPROVEMENT TESTED: *see accompanying field report*

Test No.	Detailed Test Location	Elev'n or Depth B.G.**	Probe Depth (in)	Lab Control* (Proctor/Rice/Marshall) ID #	Max. Dens.	Opt. Moist.	Over Size %	Field Test Density Total pcf	Dry pcf	Moist. Moist. %	Relative Compaction Field %	Spec %
1	*Excavation A-3, Central Area, 100ft E. of the fence at sample point DD.*	*-1ft*	*12 in*	*UPS S-3*	*137.4*	*7.1*	*25.0*	*139.1*	*128.5*	*8.3*	*94*	*90*
2	*Excavation A-3, Central Area, 100ft E. of the fence at sample point EE.*	*Grade*	*12 in*	*UPS S-3*	*137.4*	*7.1*	*25.0*	*140.1*	*129.8*	*7.9*	*94*	*90*
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12												
13												

Test Method: X ASTM D2922/D3017 (soil) ____ ASTM D2950 (asphalt) ____ Other:

Densometer: X Troxler 3440 ____ Troxler 3430 ____ Troxler 3411-B ____ CPN MC1-DR-P

Serial #: 29276 Density Standard Count.: 2550 Moisture Standard Count: 631

*Lab Control: X Standard Proctor ____ Modified Proctor

____ Asphalt Marshall Density ____ Asphalt Maximum Theoretical Density (Rice)

COMMENTS: Test locations and elevations are approximate. Testing provides data only for a specific test location and to a limited depth. Accompanying field report provides additional information. **Depth B.G. indicates depth below grade. Grade means the design finish grade of the current type of fill material being placed. Bolded results indicate compaction below specified value.

Completed By: John H. "Jack" Carlock Reviewed By: Tony Martin

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
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Fax. 425-774-2714

Field Report No.: FR-015
Date (mm/dd/yy): 10/16/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client: Envirocon	Client Representative: Tom Schnobrich	Weather: Cloudy/Cool
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager: Tony Martin
General Contractor: Envirocon	General Contractor Representative: Chuck Hyatt	HWA Field Representative: Tony Martin

FIELD REPORT

SUMMARY OF FIELD TIME SPENT ON PROJECT TODAY:
First Site Visit: Start Travel: 1045 Arrived at Site: 1100 Departed Site: 1130 End Travel: 1200

MISCELLANEOUS ACTIVITIES, OBSERVATIONS AND/OR COMMENTS:
A visit was made to Rinker Materials located in Everett, WA to obtain a sample of Gravel Borrow being supplied for the above mention project. This sample was transported to HWA's laboratory for proctor testing.

Total time chargeable to this job is 1.5 hours including the time for writing this report.

SIGNATURES:

Signed: _____
HWA Field Representative

Reviewed: _____
HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES

Report#	Item#	Status
na	na	There are no outstanding issues at this time.

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-016
Date (mm/dd/yy): 10/16/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	Client Representative	Weather
Envirocon	Tom Schnobrich	Cloudy/Cool
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager
		Tony Martin
General Contractor	General Contractor Representative	HWA Field Representative
Envirocon	Chuck Hyatt	Tony Martin

FIELD REPORT

SUMMARY OF FIELD TIME SPENT ON PROJECT TODAY:
First Site Visit: Start Travel: 1515 Arrived at Site: 1545 Departed Site: 1615 End Travel: 1700

MISCELLANEOUS ACTIVITIES, OBSERVATIONS AND/OR COMMENTS:
Because the first sample obtained earlier this day contained over 30% of material on the 3/4" sieve screen, no proctor could be run per ASTM Spec. At the request of the client, a second visit was made to Rinker Materials located in Everett, WA to obtain a second sample of Gravel Borrow being supplied for the above mention project. This sample was also transported to HWA's laboratory for proctor testing.

Total time chargeable to this job is 2.0 hours including the time for writing this report.

SIGNATURES:

Signed: _____ Reviewed: _____
HWA Field Representative HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES

Report#	Item#	Status
na	na	There are no outstanding issues at this time.

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-017
Date (mm/dd/yy): 10/24/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	Client Representative	Weather
Envirocon	Tom Schnobrich	Cloudy/Rain/Cool
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager
		Tony Martin
General Contractor	General Contractor Representative	HWA Field Representative
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD REPORT

SUMMARY OF FIELD TIME SPENT ON PROJECT TODAY:
First Site Visit: Start Travel: 1335 Arrived at Site: 1341 Departed Site: 1435 End Travel: 1445

ACTIVITY BEING INSPECTED: Compaction of material from the Lower, Eastern Stockpile/Upper Stockpile.
GENERAL LOCATION: Fill placed as Backfill of Excavation A-4 & B-8.
DETAILED LOCATION: The approximate locations and elevations tested are summarized on the attached 'Field Compaction Test Report'.
TYPE OF INSPECTION: Periodic
DETAILS OF PLACEMENT OF THIS MATERIAL: Upon arrival on site it was observed that the contractor was continuing the practice of placing a layer of a granular fill (3/4 washed drain rock) as a capillary break, however the specific thickness of this lift is unknown to HWA. The contractor continues compacting the fill with an SD-116 pad foot, single-drum 12-ton compactor. HWA has no specific knowledge as to the overall depth of the fill placed in either Excavation A-4 & B-8, however, at the time of our arrival, the backfill had been placed to between approximately finished grade and finished grade minus 2.5 foot at leading edge of fill placement.
HWA INSPECTION ACTIVITIES RELATED TO THIS ITEM: HWA conducted nuclear density testing and a physical evaluation of the backfill utilizing a 1/2 inch diameter steel T-handled probe of the backfill. Both nuclear density testing and our physical evaluation indicated that the backfill material was placed to the specified degree of compaction or greater. Test results are summarized on the attached 'Field Compaction Test Report'.
CONFORMANCE OF THIS ITEM: To the best of the inspector's knowledge, the item inspected was found in conformance with approved plans, specifications and RFIs.

MISCELLANEOUS ACTIVITIES, OBSERVATIONS AND/OR COMMENTS:

Total time chargeable to this job is 1.5 hours including the time for writing this report.

SIGNATURES:

Signed: _____ Reviewed: _____
HWA Field Representative HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES

Report#	Item#	Status
na	na	There are no outstanding issues at this time.

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-017
Date (mm/dd/yy): 10/24/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	Client Representative	Weather
Envirocon	Tom Schnobrich	Cloudy/Rain/Cool
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager
		Tony Martin
General Contractor	General Contractor Representative	HWA Field Representative
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD COMPACTION TEST REPORT - NUCLEAR METHOD

MATERIAL BEING PLACED: *see accompanying field report*

PROJECT IMPROVEMENT TESTED: *see accompanying field report*

Test No.	Detailed Test Location	Elev'n or Depth B.G.**	Probe Depth (in)	Lab Control* (Proctor/Rice/Marshall) ID #	Max. Dens.	Opt. Moist.	Over Size %	Field Test Density Total pcf	Density Dry pcf	Moist. Moist. %	Relative Compaction Field %	Spec %
1	*Excavation B-8, 25ft SE of boundary fence at sample point H.*	-2ft	12 in	UPS S-3	137.4	7.1	25.0	139.1	124.9	11.7	91	90
2	*Excavation B-8, 30ft SE of sample point J.*	Grade	12 in	UPS S-3	137.4	7.1	25.0	142.6	128.9	10.6	94	90
3	*Excavation A-4, 50ft SE of sample point J.5*	Grade	12 In	UPS S-3	137.4	7.1	25.0	139.2	126.5	10.0	92	90
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												

Test Method: X ASTM D2922/D3017 (soil) ___ ASTM D2950 (asphalt) ___ Other:

Densometer: X Troxler 3440 ___ Troxler 3430 ___ Troxler 3411-B ___ CPN MC1-DR-P

Serial #: 29276 Density Standard Count.: 2551 Moisture Standard Count: 627

*Lab Control: X Standard Proctor ___ Modified Proctor

___ Asphalt Marshall Density ___ Asphalt Maximum Theoretical Density (Rice)

COMMENTS: Test locations and elevations are approximate. Testing provides data only for a specific test location and to a limited depth. Accompanying field report provides additional information. **Depth B.G. indicates depth below grade. Grade means the design finish grade of the current type of fill material being placed. Bolded results indicate compaction below specified value.

Completed By: John H. "Jack" Carlock Reviewed By: Tony Martin

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-018
Date (mm/dd/yy): 10/30/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	Client Representative	Weather
Envirocon	Tom Schnobrich	Cloudy/Cool
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager
		Tony Martin
General Contractor	General Contractor Representative	HWA Field Representative
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD REPORT

SUMMARY OF FIELD TIME SPENT ON PROJECT TODAY:
First Site Visit: Start Travel: 0805 Arrived at Site: 0820 Departed Site: 0911 End Travel: 0925

ACTIVITY BEING INSPECTED: Compaction of material from the Lower, Eastern Stockpile/Upper Stockpile.
GENERAL LOCATION: Fill placed as Backfill of Excavation A-4 & B-8.
DETAILED LOCATION: The approximate locations and elevations tested are summarized on the attached 'Field Compaction Test Report'.
TYPE OF INSPECTION: Periodic
DETAILS OF PLACEMENT OF THIS MATERIAL: Upon arrival on site it was observed that the capillary break was in place and the fill had been compacted by the SD-116 pad foot, single-drum 12-ton compactor, but no fill placement was currently underway. The thickness of each lift of the fill placed in either Excavation A-4 & B-8 is unknown to HWA, thus HWA has no specific knowledge as to the overall depth of the fill, however, at the time of our arrival, the backfill had been placed to between approximately finished grade and finished grade minus 2.5 foot at leading edge of fill placement.
HWA INSPECTION ACTIVITIES RELATED TO THIS ITEM: HWA conducted nuclear density testing and a physical evaluation of the backfill utilizing a 1/2 inch diameter steel T-handled probe of the backfill. Both nuclear density testing and our physical evaluation indicated that the backfill material was placed to the specified degree of compaction or greater. Test results are summarized on the attached 'Field Compaction Test Report'.
CONFORMANCE OF THIS ITEM: To the best of the inspector's knowledge, the item inspected was found in conformance with approved plans, specifications and RFIs.

MISCELLANEOUS ACTIVITIES, OBSERVATIONS AND/OR COMMENTS:

Total time chargeable to this job is 1.5 hours including the time for writing this report.

SIGNATURES:

Signed: _____
HWA Field Representative

Reviewed: _____
HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES

Report#	Item#	Status
na	na	There are no outstanding issues at this time.

HWA GeoSciences Inc.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-018
Date (mm/dd/yy): 10/30/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	**Client Representative**	**Weather**
Envirocon	Tom Schnobrich	Cloudy/Cool
Design Authority (engineer or architect of record)	**Design Authority Representative**	**HWA Project Manager**
		Tony Martin
General Contractor	**General Contractor Representative**	**HWA Field Representative**
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD COMPACTION TEST REPORT - NUCLEAR METHOD

MATERIAL BEING PLACED: *see accompanying field report*

PROJECT IMPROVEMENT TESTED: *see accompanying field report*

Test No.	Detailed Test Location	Elev'n or Depth B.G.**	Probe Depth (in)	Lab Control* (Proctor/Rice/Marshall) ID #	Max. Dens.	Opt. Moist.	Over Size %	Field Test Density Total pcf	Density Dry pcf	Moist. Moist. %	Relative Compaction Field %	Spec %
1	*Excavation A-4, 100ft SE of boundary fence at sample point G.*	*Grade*	*12 in*	*UPS S-3*	*137.4*	*7.1*	*25.0*	*140.7*	*132.4*	*6.3*	**96**	*90*
2	*Excavation A-4, 90ft SE of boundary fence at sample point I.*	*Grade*	*12 in*	*UPS S-3*	*137.4*	*7.1*	*25.0*	*144.6*	*133.6*	*8.2*	**97**	*90*
3	*Excavation B-8, 30ft SE of sample point G*	*-2ft*	*12 in*	*UPS S-3*	*137.4*	*7.1*	*25.0*	*142.4*	*130.1*	*9.4*	**95**	*90*
4												
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6												
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10												
11												
12												
13												

Test Method: X ASTM D2922/D3017 (soil) ___ ASTM D2950 (asphalt) ___ Other:

Densometer: X Troxler 3440 ___ Troxler 3430 ___ Troxler 3411-B ___ CPN MC1-DR-P

Serial #: 29276 Density Standard Count.: 2551 Moisture Standard Count: 627

*Lab Control: X Standard Proctor ___ Modified Proctor

___ Asphalt Marshall Density ___ Asphalt Maximum Theoretical Density (Rice)

COMMENTS: Test locations and elevations are approximate. Testing provides data only for a specific test location and to a limited depth. Accompanying field report provides additional information. **Depth B.G. indicates depth below grade. Grade means the design finish grade of the current type of fill material being placed. Bolded results indicate compaction below specified value.

Completed By: John H. "Jack" Carlock Reviewed By: Tony Martin

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-019
Date (mm/dd/yy): 10/31/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client: Envirocon	Client Representative: Tom Schnobrich	Weather: Partly Cloudy/Cool
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager: Tony Martin
General Contractor: Envirocon	General Contractor Representative: Chuck Hyatt	HWA Field Representative: John H. "Jack" Carlock

FIELD REPORT

SUMMARY OF FIELD TIME SPENT ON PROJECT TODAY:
First Site Visit: Start Travel: 1625 Arrived at Site: 1640 Departed Site: 1725 End Travel: 1740

ACTIVITY BEING INSPECTED: Compaction of Gravel Borrow import placed as excavation backfill.
GENERAL LOCATION: Fill placed as Backfill of Excavation B-8.
DETAILED LOCATION: The approximate locations and elevations tested are summarized on the attached 'Field Compaction Test Report'.
TYPE OF INSPECTION: Periodic
DETAILS OF PLACEMENT OF THIS MATERIAL: Upon arrival on site it was observed that the contractor was engaged in placing a layer of a granular fill (3/4 washed drain rock) as a capillary break. Placement of the gravel borrow fill had ended for the day. The fill had been compacted by the SD-116 pad foot, single-drum 12-ton compactor. The thickness of each lift of the fill placed in either Excavation B-8 is unknown to us, and HWA has no specific knowledge as to the overall depth of the fill, however, at the time of our arrival, the backfill had been placed to finished grade.
HWA INSPECTION ACTIVITIES RELATED TO THIS ITEM: HWA conducted nuclear density testing and a physical evaluation of the backfill utilizing a 1/2 inch diameter steel T-handled probe of the backfill. Both nuclear density testing and our physical evaluation indicated that the backfill material was placed to the specified degree of compaction or greater. Test results are summarized on the attached 'Field Compaction Test Report'.
CONFORMANCE OF THIS ITEM: To the best of the inspector's knowledge, the item inspected was found in conformance with approved plans, specifications and RFIs.

MISCELLANEOUS ACTIVITIES, OBSERVATIONS AND/OR COMMENTS:

Total time chargeable to this job is 1.5 hours including the time for writing this report.

SIGNATURES:

Signed: Tony Martin for Jack Reviewed:
HWA Field Representative HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES

Report#	Item#	Status
na	na	There are no outstanding issues at this time.

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-019
Date (mm/dd/yy): 10/31/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	**Client Representative**	**Weather**
Environcon	Tom Schnobrich	Partly Cloudy/Cool
Design Authority (engineer or architect of record)	**Design Authority Representative**	**HWA Project Manager**
		Tony Martin
General Contractor	**General Contractor Representative**	**HWA Field Representative**
Environcon	Chuck Hyatt	John H. "Jack" Carlock

FIELD COMPACTION TEST REPORT - NUCLEAR METHOD

MATERIAL BEING PLACED: *see accompanying field report*

PROJECT IMPROVEMENT TESTED: *see accompanying field report*

Test No.	Detailed Test Location	Elev'n or Depth B.G.**	Probe Depth (in)	Lab Control* (Proctor/Rice/Marshall) ID #	Max. Dens.	Opt. Moist.	Over Size %	Field Test Density Total pcf	Dry pcf	Moist. Moist. %	Relative Compaction Field %	Spec %
1	*Excavation B-8. 25ft SE of fence at sample point F/G.*	*Grade*	*12 in*	*UPS S-3*	*117.3*	*11.2*	*30.0*	*127.0*	*114.2*	*11.2*	*97*	*90*
2	*Excavation B-8. 40ft SE of boundary fence at sample point F.*	*Grade*	*12 in*	*UPS S-3*	*117.3*	*11.2*	*30.0*	*126.0*	*113.8*	*10.7*	*97*	*90*
3												
4												
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9												
10												
11												
12												
13												

Test Method: X ASTM D2922/D3017 (soil) ___ ASTM D2950 (asphalt) ___ Other:

Densometer: X Troxler 3440 ___ Troxler 3430 ___ Troxler 3411-B ___ CPN MC1-DR-P

Serial #: 29276 Density Standard Count.: 2554 Moisture Standard Count: 625

*Lab Control: X Standard Proctor ___ Modified Proctor

___ Asphalt Marshall Density ___ Asphalt Maximum Theoretical Density (Rice)

COMMENTS: Test locations and elevations are approximate. Testing provides data only for a specific test location and to a limited depth. Accompanying field report provides additional information. **Depth B.G. indicates depth below grade. Grade means the design finish grade of the current type of fill material being placed. Bolded results indicate compaction below specified value.

Completed By: John H. "Jack" Carlock Reviewed By: Tony Martin

HWA GEOSCIENCES INC.

19730-64th AVE W STE 200
Lynnwood, WA 98036-5904
Tel. 425-774-0106

FAXMITTAL

Fax: 425-774-2714
Date: November 7, 2007
From: Tony Martin
HWA's Project #: 2007-132-23
Sent To....

Company:	Envirocon	
Attention:	Tom Schnobrich	
Fax No.:	**503-285-6205**	
Phone No.:	503-285-6164	

Number of Pages: 7 (including cover sheet)

ORIGINAL TO FOLLOW BY MAIL	Yes	X No

Subject: **Chevron Edmonds**

Tom,

Please find attached a copy of Field Reports FR-019 (revised) through FR-021 for the Chevron Edmonds Project.

If you have any questions regarding the above, please call.

Best Regards,

Tony Martin
Office: 425-774-0106
Cell: 206-794-3126

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-019 REVISED
Date (mm/dd/yy): 10/31/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	Client Representative	Weather
Envirocon	Tom Schnobrich	Partly Cloudy/Cool
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager
		Tony Martin
General Contractor	General Contractor Representative	HWA Field Representative
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD REPORT

SUMMARY OF FIELD TIME SPENT ON PROJECT TODAY:
First Site Visit: Start Travel: 1625 Arrived at Site: 1640 Departed Site: 1725 End Travel: 1740

ACTIVITY BEING INSPECTED: Compaction of Gravel Borrow import placed as excavation backfill.
GENERAL LOCATION: Fill placed as Backfill of Excavation B-8.
DETAILED LOCATION: The approximate locations and elevations tested are summarized on the attached 'Field Compaction Test Report'.
TYPE OF INSPECTION: Periodic
DETAILS OF PLACEMENT OF THIS MATERIAL: Upon arrival on site it was observed that the contractor was engaged in placing a layer of a granular fill (3/4 washed drain rock) as a capillary break. Placement of the gravel borrow fill had ended for the day. The fill had been compacted by the SD-116 pad foot, single-drum 12-ton compactor. The thickness of each lift of the fill placed in either Excavation B-8 is unknown to us, and HWA has no specific knowledge as to the overall depth of the fill, however, at the time of our arrival, the backfill had been placed to finished grade.
HWA INSPECTION ACTIVITIES RELATED TO THIS ITEM: HWA conducted nuclear density testing and a physical evaluation of the backfill utilizing a 1/2 inch diameter steel T-handled probe of the backfill. Both nuclear density testing and our physical evaluation indicated that the backfill material was placed to the specified degree of compaction or greater. Test results are summarized on the attached 'Field Compaction Test Report'.
CONFORMANCE OF THIS ITEM: To the best of the inspector's knowledge, the item inspected was found in conformance with approved plans, specifications and RFIs.

MISCELLANEOUS ACTIVITIES, OBSERVATIONS AND/OR COMMENTS:

Total time chargeable to this job is 1.5 hours including the time for writing this report.

SIGNATURES:

Signed: _____
HWA Field Representative

Reviewed: _____
HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES

Report#	Item#	Status
na	na	There are no outstanding issues at this time.

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-019 REVISED
Date (mm/dd/yy): 10/31/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	Client Representative	Weather
Envirocon	Tom Schnobrich	Partly Cloudy/Cool
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager
		Tony Martin
General Contractor	General Contractor Representative	HWA Field Representative
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD COMPACTION TEST REPORT - NUCLEAR METHOD

MATERIAL BEING PLACED: *see accompanying field report*

PROJECT IMPROVEMENT TESTED: *see accompanying field report*

Test No.	Detailed Test Location	Elev'n or Depth B.G.**	Probe Depth (in)	Lab Control* (Proctor/Rice/Marshall) ID #	Max. Dens.	Opt. Moist.	Over Size %	Field Test Density Total pcf	Dry pcf	Moist. Moist. %	Relative Compaction Field %	Spec %
1	*Excavation B-8, 25ft SE of fence at sample point F/G.*	*Grade*	*12 in*	*AG-1*	*117.3*	*11.2*	*30.0*	*127.0*	*114.2*	*11.2*	97	*90*
2	*Excavation B-8. 40ft SE of boundary fence at sample point F.*	*Grade*	*12 in*	*AG-1*	*117.3*	*11.2*	*30.0*	*126.0*	*113.8*	*10.7*	97	*90*
3												
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8												
9												
10												
11												
12												
13												

Test Method: X ASTM D2922/D3017 (soil) ___ ASTM D2950 (asphalt) ___ Other:

Densometer: X Troxler 3440 ___ Troxler 3430 ___ Troxler 3411-B ___ CPN MC1-DR-P

Serial #: 29276 Density Standard Count.: 2554 Moisture Standard Count: 625

*Lab Control: X Standard Proctor ___ Modified Proctor

___ Asphalt Marshall Density ___ Asphalt Maximum Theoretical Density (Rice)

COMMENTS: Test locations and elevations are approximate. Testing provides data only for a specific test location and to a limited depth. Accompanying field report provides additional information. **Depth B.G. indicates depth below grade. Grade means the design finish grade of the current type of fill material being placed. Bolded results indicate compaction below specified value.

Completed By: John H. "Jack" Carlock Reviewed By: Tony Martin

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-020
Date (mm/dd/yy): 11/5/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	Client Representative	Weather
Envirocon	Tom Schnobrich	Partly Cloudy/Cool
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager
		Tony Martin
General Contractor	General Contractor Representative	HWA Field Representative
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD REPORT

SUMMARY OF FIELD TIME SPENT ON PROJECT TODAY:
First Site Visit: Start Travel: 1515 Arrived at Site: 1530 Departed Site: 1640 End Travel: 1655

ACTIVITY BEING INSPECTED: Compaction of Gravel Borrow import placed as excavation backfill..
GENERAL LOCATION: Fill placed as Backfill of Excavation A-4, B-20/A-1.
DETAILED LOCATION: The approximate locations and elevations tested are summarized on the attached 'Field Compaction Test Report'.
TYPE OF INSPECTION: Periodic
DETAILS OF PLACEMENT OF THIS MATERIAL: Upon arrival on site it was observed that the contractor was engaged in placing the gravel borrow fill over the capillary break (3/4 washed drain rock). The fill was being compacted by the SD-116 pad foot, single-drum 12-ton compactor. The thickness of each lift of the fill placed in either excavation varies and thus is unknown to us, and HWA has no specific knowledge as to the overall depth of the fill, however, at the time of our arrival, the backfill had been placed to finished grade.
HWA INSPECTION ACTIVITIES RELATED TO THIS ITEM: HWA conducted nuclear density testing and a physical evaluation of the backfill utilizing a 1/2 inch diameter steel T-handled probe of the backfill. Both nuclear density testing and our physical evaluation indicated that the backfill material was placed to the specified degree of compaction or greater. Test results are summarized on the attached 'Field Compaction Test Report'.
CONFORMANCE OF THIS ITEM: To the best of the inspector's knowledge, the item inspected was found in conformance with approved plans, specifications and RFIs.

MISCELLANEOUS ACTIVITIES, OBSERVATIONS AND/OR COMMENTS:

Total time chargeable to this job is 1.5 hours including the time for writing this report.

SIGNATURES:

Signed: _____
HWA Field Representative

Reviewed: _____
HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES

Report#	Item#	Status
na	na	There are no outstanding issues at this time.

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-020
Date (mm/dd/yy): 11/5/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	Client Representative	Weather
Envirocon	Tom Schnobrich	Partly Cloudy/Cool
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager
		Tony Martin
General Contractor	General Contractor Representative	HWA Field Representative
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD COMPACTION TEST REPORT - NUCLEAR METHOD

MATERIAL BEING PLACED: *see accompanying field report*

PROJECT IMPROVEMENT TESTED: *see accompanying field report*

Test No.	Detailed Test Location	Elev'n or Depth B.G.**	Probe Depth (in)	Lab Control* (Proctor/Rice/Marshall) ID #	Max. Dens.	Opt. Moist.	Over Size %	Field Test Density Total pcf	Density Dry pcf	Moist. Moist. %	Relative Compaction Field %	Spec %
1	*Excavation B-20* Extreme SE Corner.	-6ft	12 in	AG-1	117.3	11.2	30.0	124.8	115.6	8.0	99	90
2	*Excavation A-1.* Testing at Sample Point G-19.	-7ft	12 in	AG-1	117.3	11.2	30.0	123.4	117.4	5.2	100	90
3	*Excavation A-4.* 50ft West of eastern bank.	Grade	12 in	AG-1	117.3	11.2	30.0	123.7	116.2	6.5	99	90
4	*Excavation A-4.* 25ft West of eastern bank.	-3ft	12 in	AG-1	117.3	11.2	30.0	121.0	114.3	5.8	97	90
5												
6												
7												
8												
9												
10												
11												
12												
13												

Test Method: X ASTM D2922/D3017 (soil) ___ ASTM D2950 (asphalt) ___ Other:

Densometer: X Troxler 3440 ___ Troxler 3430 ___ Troxler 3411-B ___ CPN MC1-DR-P

Serial #: 29276 Density Standard Count.: 2554 Moisture Standard Count: 625

*Lab Control: X Standard Proctor ___ Modified Proctor

___ Asphalt Marshall Density ___ Asphalt Maximum Theoretical Density (Rice)

COMMENTS: Test locations and elevations are approximate. Testing provides data only for a specific test location and to a limited depth. Accompanying field report provides additional information. **Depth B.G. indicates depth below grade. Grade means the design finish grade of the current type of fill material being placed. Bolded results indicate compaction below specified value.

Completed By: John H. "Jack" Carlock Reviewed By: Tony Martin

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-021
Date (mm/dd/yy): 11/6/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	Client Representative	Weather
Envirocon	Tom Schnobrich	Cloudy/Cool
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager
		Tony Martin
General Contractor	General Contractor Representative	HWA Field Representative
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD COMPACTION TEST REPORT - NUCLEAR METHOD

MATERIAL BEING PLACED: *see accompanying field report*

PROJECT IMPROVEMENT TESTED: *see accompanying field report*

Test No.	Detailed Test Location	Elev'n or Depth B.G.**	Probe Depth (in)	Lab Control* (Proctor/Rice/Marshall) ID #	Max. Dens.	Opt. Moist.	Over Size %	Field Test Density Total pcf	Dry pcf	Moist. Moist. %	Relative Compaction Field %	Spec %
1	*Excavation B-20 Extreme SE Corner.*	*-3.5ft*	*12 in*	*AG-1*	*117.3*	*11.2*	*30.0*	*121.6*	*112.1*	*7.9*	*96*	*90*
2	*Excavation A-1. Grid lines H at 20 (central area of A-1).*	*-4ft*	*12 in*	*AG-1*	*117.3*	*11.2*	*30.0*	*123.8*	*116.4*	*6.4*	*99*	*90*
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												

Test Method: X ASTM D2922/D3017 (soil) ___ ASTM D2950 (asphalt) ___ Other:

Densometer: X Troxler 3440 ___ Troxler 3430 ___ Troxler 3411-B ___ CPN MC1-DR-P

Serial #: 29276 Density Standard Count.: 2552 Moisture Standard Count: 630

*Lab Control: X Standard Proctor ___ Modified Proctor

___ Asphalt Marshall Density ___ Asphalt Maximum Theoretical Density (Rice)

COMMENTS: Test locations and elevations are approximate. Testing provides data only for a specific test location and to a limited depth. Accompanying field report provides additional information. **Depth B.G. indicates depth below grade. Grade means the design finish grade of the current type of fill material being placed. Bolded results indicate compaction below specified value.

Completed By: John H. "Jack" Carlock Reviewed By: Tony Martin

HWA GEOSCIENCES INC.

19730-64th AVE W STE 200
Lynnwood, WA 98036-5904
Tel. 425-774-0106

FAXMITTAL

Fax: 425-774-2714
Date: November 13, 2007
From: Tony Martin
HWA's Project #: 2007-132-23
Sent To....

Company:	Envirocon	
Attention:	Tom Schnobrich	
Fax No.:	**503-285-6205**	
Phone No.:	503-285-6164	

Number of Pages: 7 (including cover sheet)

ORIGINAL TO FOLLOW BY MAIL	Yes	X No

Subject: **Chevron Edmonds**

Tom,

Please find attached a copy of Field Reports FR-022 through FR-024 for the Chevron Edmonds Project.

If you have any questions regarding the above, please call.

Best Regards,

Tony Martin
Office: 425-774-0106
Cell: 206-794-3126

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-022
Date (mm/dd/yy): 11/7/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name: Chevron Edmonds	Location or Address of Project: Edmonds, WA	Permit No.
Client: Envirocon	Client Representative: Tom Schnobrich	Weather: Cloudy/Cool
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager: Tony Martin
General Contractor: Envirocon	General Contractor Representative: Chuck Hyatt	HWA Field Representative: John H. "Jack" Carlock

FIELD REPORT

SUMMARY OF FIELD TIME SPENT ON PROJECT TODAY:
First Site Visit: Start Travel: 1530 Arrived at Site: 1543 Departed Site: 1610 End Travel: 1621

ACTIVITY BEING INSPECTED: Compaction of Gravel Borrow import placed as excavation backfill.
GENERAL LOCATION: Fill placed as Backfill of Excavation B-20/A-1.
DETAILED LOCATION: The approximate locations and elevations tested are summarized on the attached 'Field Compaction Test Report'.
TYPE OF INSPECTION: Periodic
DETAILS OF PLACEMENT OF THIS MATERIAL: Upon arrival on site it was observed that the contractor was engaged in placing the gravel borrow fill over the capillary break (3/4 washed drain rock). The fill was being compacted by the SD-116 pad foot, single-drum 12-ton compactor. The thickness of each lift of the fill placed in either excavation varies and thus is unknown to us, and HWA has no specific knowledge as to the overall depth of the fill, however, at the time of our arrival, the backfill had been placed to finished grade.
HWA INSPECTION ACTIVITIES RELATED TO THIS ITEM: HWA conducted nuclear density testing and a physical evaluation of the backfill utilizing a 1/2 inch diameter steel T-handled probe of the backfill. Both nuclear density testing and our physical evaluation indicated that the backfill material was placed to the specified degree of compaction or greater. Test results are summarized on the attached 'Field Compaction Test Report'.
CONFORMANCE OF THIS ITEM: To the best of the inspector's knowledge, the item inspected was found in conformance with approved plans, specifications and RFIs.

MISCELLANEOUS ACTIVITIES, OBSERVATIONS AND/OR COMMENTS:

Total time chargeable to this job is 1.5 hours including the time for writing this report.

SIGNATURES:

Signed: _____
HWA Field Representative

Reviewed: _____
HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES

Report#	Item#	Status
na	na	There are no outstanding issues at this time.

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-022
Date (mm/dd/yy): 11/7/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	**Client Representative**	**Weather**
Envirocon	Tom Schnobrich	Cloudy/Cool
Design Authority (engineer or architect of record)	**Design Authority Representative**	**HWA Project Manager**
		Tony Martin
General Contractor	**General Contractor Representative**	**HWA Field Representative**
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD COMPACTION TEST REPORT - NUCLEAR METHOD

MATERIAL BEING PLACED: *see accompanying field report*

PROJECT IMPROVEMENT TESTED: *see accompanying field report*

Test No.	Detailed Test Location	Elev'n or Depth B.G.**	Probe Depth (in)	Lab Control* (Proctor/Rice/Marshall) ID #	Max. Dens.	Opt. Moist.	Over Size %	Field Test Density Total pcf	Density Dry pcf	Moist. Moist. %	Relative Compaction Field %	Spec %
1	*Excavation A-1,* Extreme NE Corner. (No Stationing Available)	-2ft	12 in	AG-1	117.3	11.2	30.0	119.3	112.4	6.1	96	90
2	*Excavation A-1/B-20. Southern Central Area. (No Sta. Available)*	Top of Fill	12 in	AG-1	117.3	11.2	30.0	123.8	116.4	6.4	99	90
3	*Excavation B-20,* Extreme SE Corner. (No Stationing Available)	-2ft	12 in	AG-1	117.3	11.2	30.0	118.9	112.1	6.1	96	90
4												
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6												
7												
8												
9												
10												
11												
12												
13												

Test Method: X ASTM D2922/D3017 (soil) ____ ASTM D2950 (asphalt) ____ Other:

Densometer: X Troxler 3440 ____ Troxler 3430 ____ Troxler 3411-B ____ CPN MC1-DR-P

Serial #: 29276 Density Standard Count.: 2548 Moisture Standard Count: 632

*Lab Control: X Standard Proctor ____ Modified Proctor

____ Asphalt Marshall Density ____ Asphalt Maximum Theoretical Density (Rice)

COMMENTS: Test locations and elevations are approximate. Testing provides data only for a specific test location and to a limited depth. Accompanying field report provides additional information. **Depth B.G. indicates depth below grade. Grade means the design finish grade of the current type of fill material being placed. Bolded results indicate compaction below specified value.

Completed By: John H. "Jack" Carlock Reviewed By: Tony Martin

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-023
Date (mm/dd/yy): 11/9/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name: Chevron Edmonds	Location or Address of Project: Edmonds, WA	Permit No.:
Client: Envirocon	Client Representative: Tom Schnobrich	Weather: Cloudy/Cool
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager: Tony Martin
General Contractor: Envirocon	General Contractor Representative: Chuck Hyatt	HWA Field Representative: John H. "Jack" Carlock

FIELD REPORT

SUMMARY OF FIELD TIME SPENT ON PROJECT TODAY:
First Site Visit: Start Travel: 1510 Arrived at Site: 1520 Departed Site: 1155 End Travel: 1607

ACTIVITY BEING INSPECTED: Compaction of Gravel Borrow import placed as excavation backfill.
GENERAL LOCATION: Fill placed as Backfill of Excavation A-4 and A-1/B-20.
DETAILED LOCATION: The approximate locations and elevations tested are summarized on the attached 'Field Compaction Test Report'.
TYPE OF INSPECTION: Periodic
DETAIL S OF PLACEMENT OF THIS MATERIAL: Upon arrival on site it was observed that fill placement in the central area of A-4 was complete, thus no placement activities were observed by HWA. The thickness of each lift of the fill placed in this excavation is unknown to us, and HWA has no specific knowledge as to the overall depth of the fill. At the time of our arrival, the backfill had been placed to finished grade.
HWA INSPECTION ACTIVITIES RELATED TO THIS ITEM: HWA conducted nuclear density testing and a physical evaluation of the backfill utilizing a 1/2 inch diameter steel T-handled probe of the backfill. Both nuclear density testing and our physical evaluation indicated that the backfill material was placed to the specified degree of compaction or greater. Test results are summarized on the attached 'Field Compaction Test Report'.
CONFORMANCE OF THIS ITEM: To the best of the inspector's knowledge, the item inspected was found in conformance with approved plans, specifications and RFIs.

MISCELLANEOUS ACTIVITIES, OBSERVATIONS AND/OR COMMENTS:

Total time chargeable to this job is 1.5 hours including the time for writing this report.

SIGNATURES:

Signed: _____
HWA Field Representative

Reviewed: _____
HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES

Report#	Item#	Status
na	na	There are no outstanding issues at this time.

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-023
Date (mm/dd/yy): 11/9/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name: Chevron Edmonds	Location or Address of Project: Edmonds, WA	Permit No.:
Client: Envirocon	Client Representative: Tom Schnobrich	Weather: Cloudy/Cool
Design Authority (engineer or architect of record):	Design Authority Representative:	HWA Project Manager: Tony Martin
General Contractor: Envirocon	General Contractor Representative: Chuck Hyatt	HWA Field Representative: John H. "Jack" Carlock

FIELD COMPACTION TEST REPORT - NUCLEAR METHOD

MATERIAL BEING PLACED: *see accompanying field report*

PROJECT IMPROVEMENT TESTED: *see accompanying field report*

Test No.	Detailed Test Location	Elev'n or Depth B.G.**	Probe Depth (in)	Lab Control* (Proctor/Rice/Marshall) ID #	Max. Dens.	Opt. Moist.	Over Size %	Field Test Density Total pcf	Dry pcf	Moist. Moist. %	Relative Compaction Field %	Spec %
1	*Excavation A-4,* Approximately 150ft E. of Western fence @ Line "I".	*Top of Fill*	*12 in*	*AG-1*	*117.3*	*11.2*	*30.0*	*124.2*	*115.5*	*7.5*	*98*	*90*
2	*Excavation A-1/B-20.* South East Corner. (No Sta. Available)	*Top of Fill*	*12 in*	*AG-1*	*117.3*	*11.2*	*30.0*	*121.7*	*115.4*	*5.5*	*98*	*90*
3												
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13												

Test Method: X ASTM D2922/D3017 (soil) ___ ASTM D2950 (asphalt) ___ Other:

Densometer: X Troxler 3440 ___ Troxler 3430 ___ Troxler 3411-B ___ CPN MC1-DR-P

Serial #: 29276 Density Standard Count.: 2545 Moisture Standard Count: 630

*Lab Control: X Standard Proctor ___ Modified Proctor

___ Asphalt Marshall Density ___ Asphalt Maximum Theoretical Density (Rice)

COMMENTS: Test locations and elevations are approximate. Testing provides data only for a specific test location and to a limited depth. Accompanying field report provides additional information. **Depth B.G. indicates depth below grade. Grade means the design finish grade of the current type of fill material being placed. Bolded results indicate compaction below specified value.

Completed By: John H. "Jack" Carlock

Reviewed By: Tony Martin

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-024
Date (mm/dd/yy): 11/13/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name: Chevron Edmonds	Location or Address of Project: Edmonds, WA	Permit No.
Client: Envirocon	Client Representative: Tom Schnobrich	Weather: Clear/Cool
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager: Tony Martin
General Contractor: Envirocon	General Contractor Representative: Chuck Hyatt	HWA Field Representative: John H. "Jack" Carlock

FIELD REPORT

SUMMARY OF FIELD TIME SPENT ON PROJECT TODAY:
First Site Visit: Start Travel: 0930 Arrived at Site: 0940 Departed Site: 1040 End Travel: 1052

ACTIVITY BEING INSPECTED: Compaction of Gravel Borrow import placed as excavation backfill.
GENERAL LOCATION: Fill placed as Backfill of Excavation A-1/B-20.
DETAILED LOCATION: The approximate locations and elevations tested are summarized on the attached 'Field Compaction Test Report'.
TYPE OF INSPECTION: Periodic
DETAILS OF PLACEMENT OF THIS MATERIAL: The thickness of each lift of the fill placed in this excavation is unknown to us, and HWA has no specific knowledge as to the overall depth of the fill. No placement activities were underway at the time of our arrival. Fill was placed to between 2ft and 2.5ft above the top of the capillary break in the area tested today.
HWA INSPECTION ACTIVITIES RELATED TO THIS ITEM: HWA conducted nuclear density testing and a physical evaluation of the backfill utilizing a 1/2 inch diameter steel T-handled probe of the backfill. Both nuclear density testing and our physical evaluation indicated that the backfill material was placed to the specified degree of compaction or greater. Test results are summarized on the attached 'Field Compaction Test Report'.
CONFORMANCE OF THIS ITEM: To the best of the inspector's knowledge, the item inspected was found in conformance with approved plans, specifications and RFIs.

MISCELLANEOUS ACTIVITIES, OBSERVATIONS AND/OR COMMENTS:

Total time chargeable to this job is 2.5 hours including the time for writing this report.

SIGNATURES:

Signed: _____
HWA Field Representative

Reviewed: _____
HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES

Report#	Item#	Status
na	na	There are no outstanding issues at this time.

HWA GEOSCIENCES INC.

19730-64th AVE W STE 200
Lynnwood, WA 98036-5904
Tel. 425-774-0106

FAXMITTAL

Fax: 425-774-2714
Date: November 27, 2007
From: Tony Martin
HWA's Project #: 2007-132-23
Sent To....

Company:	Envirocon	
Attention:	Tom Schnobrich	
Fax No.:	**503-285-6205**	
Phone No.:	503-285-6164	

Number of Pages: 3 (including cover sheet)

ORIGINAL TO FOLLOW BY MAIL	Yes	X No

Subject: **Chevron Edmonds**

Tom,

Please find attached a copy of Field Reports FR-025 for the Chevron Edmonds Project.

If you have any questions regarding the above, please call.

Best Regards,

Tony Martin
Office: 425-774-0106
Cell: 206-794-3126

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-025
Date (mm/dd/yy): 11/26/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	Client Representative	Weather
Envirocon	Tom Schnobrich	Clear/Cool
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager
		Tony Martin
General Contractor	General Contractor Representative	HWA Field Representative
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD REPORT

SUMMARY OF FIELD TIME SPENT ON PROJECT TODAY:
First Site Visit: Start Travel: 1000 Arrived at Site: 1015 Departed Site: 1110 End Travel: 1120

ACTIVITY BEING INSPECTED: Compaction of Gravel Borrow import placed as excavation backfill.
GENERAL LOCATION: Fill placed as Backfill of Excavation A-1.
DETAILED LOCATION: The approximate locations and elevations tested are summarized on the attached 'Field Compaction Test Report'.
TYPE OF INSPECTION: Periodic
DETAILS OF PLACEMENT OF THIS MATERIAL: The thickness of each lift of the fill placed in this excavation is unknown to us, and HWA has no specific knowledge as to the overall depth of the fill. Placement activities were underway at the time of our arrival, but no compaction efforts were observed. Fill was placed to between 2ft above the top of the capillary break or to 1.5ft below final grade in the areas tested today.
HWA INSPECTION ACTIVITIES RELATED TO THIS ITEM: HWA conducted nuclear density testing and a physical evaluation of the backfill utilizing a 1/2 inch diameter steel T-handled probe of the backfill. Both nuclear density testing and our physical evaluation indicated that the backfill material was placed to the specified degree of compaction or greater. Test results are summarized on the attached 'Field Compaction Test Report'.
CONFORMANCE OF THIS ITEM: To the best of the inspector's knowledge, the item inspected was found in conformance with approved plans, specifications and RFIs.

MISCELLANEOUS ACTIVITIES, OBSERVATIONS AND/OR COMMENTS:

Total time chargeable to this job is 2.0 hours including the time for writing this report.

SIGNATURES:

Signed: _____
HWA Field Representative

Reviewed: _____
HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES

Report#	Item#	Status
na	na	There are no outstanding issues at this time.

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-025
Date (mm/dd/yy): 11/26/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	Client Representative	Weather
Envirocon	Tom Schnobrich	Clear/Cool
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager: Tony Martin
General Contractor	General Contractor Representative	HWA Field Representative
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD COMPACTION TEST REPORT - NUCLEAR METHOD

MATERIAL BEING PLACED: *see accompanying field report*

PROJECT IMPROVEMENT TESTED: *see accompanying field report*

Test No.	Detailed Test Location	Elev'n or Depth B.G.**	Probe Depth (in)	Lab Control* (Proctor/Rice/Marshall) ID #	Max. Dens.	Opt. Moist.	Over Size %	Field Test Density Total pcf	Dry pcf	Moist. Moist. %	Relative Compaction Field %	Spec %
1	*Excavation A-1*, Central Area at grid line 17, 75ft N of A-1's southern bank	-3ft	12 in	AG-1	117.3	11.2	30.0	125.1	118.4	5.4	101	90
2	*Excavation A-1*, Central Area at grid line 18, 60ft N of A-1's southern bank	-1.5ft	12 in	AG-1	117.3	11.2	30.0	124.6	118.0	5.6	101	90
3	*Excavation A-1*, Central Area at grid line 18.5, 35ft S. of A-1's northern bank	-3.0ft	12 in	AG-1	117.3	11.2	30.0	118.7	111.8	6.0	95	90
4												
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11												
12												
13												

Test Method: X ASTM D2922/D3017 (soil) ___ ASTM D2950 (asphalt) ___ Other:

Densometer: X Troxler 3440 ___ Troxler 3430 ___ Troxler 3411-B ___ CPN MC1-DR-P

Serial #: 29276 Density Standard Count.: 2565 Moisture Standard Count: 632

*Lab Control: X Standard Proctor ___ Modified Proctor

___ Asphalt Marshall Density ___ Asphalt Maximum Theoretical Density (Rice)

COMMENTS: Test locations and elevations are approximate. Testing provides data only for a specific test location and to a limited depth. Accompanying field report provides additional information. **Depth B.G. indicates depth below grade. Grade means the design finish grade of the current type of fill material being placed. Bolded results indicate compaction below specified value.

Completed By: John H. "Jack" Carlock Reviewed By: Tony Martin

HWA GEOSCIENCES INC.
19730-64th AVE W STE 200
Lynnwood, WA 98036-5904
Tel. 425-774-0106

FAXMITTAL

Fax: 425-774-2714
Date: January 2, 2008
From: Tony Martin
HWA's Project #: 2007-132-23
Sent To...

Company:	Envirocon	
Attention:	Tom Schnobrich	
Fax No.:	**503-285-6205**	
Phone No.:	503-285-6164	

Number of Pages: 7 (including cover sheet)

ORIGINAL TO FOLLOW BY MAIL	Yes	X No

Subject: **Chevron Edmonds**

Tom,

Please find attached a copy of Field Reports FR-026, FR-027 and FR-028 for the Chevron Edmonds Project.

If you have any questions regarding the above, please call.

Best Regards,

Tony Martin
Office: 425-774-0106
Cell: 206-794-3126

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-026
Date (mm/dd/yy): 11/27/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	Client Representative	Weather
Envirocon	Tom Schnobrich	Clear/Cool
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager
		Tony Martin
General Contractor	General Contractor Representative	HWA Field Representative
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD REPORT

SUMMARY OF FIELD TIME SPENT ON PROJECT TODAY:
First Site Visit: Start Travel: 1445 Arrived at Site: 1500 Departed Site: 1550 End Travel: 1603

ACTIVITY BEING INSPECTED: Compaction of Gravel Borrow import placed as excavation backfill.
GENERAL LOCATION: Fill placed as Backfill of Excavation A-1 and B-6.
DETAILED LOCATION: The approximate locations and elevations tested are summarized on the attached 'Field Compaction Test Report'.
TYPE OF INSPECTION: Periodic
DETAILS OF PLACEMENT OF THIS MATERIAL: The thickness of each lift of the fill placed in this excavation is unknown to us, and HWA has no specific knowledge as to the overall depth of the fill. Placement activities were underway at the time of our arrival, but no compaction efforts were observed. Fill was placed to between 2ft above the top of the capillary break or to 2.0ft below final grade in the areas tested today.
HWA INSPECTION ACTIVITIES RELATED TO THIS ITEM: HWA conducted nuclear density testing and a physical evaluation of the backfill utilizing a 1/2 inch diameter steel T-handled probe of the backfill. Both nuclear density testing and our physical evaluation indicated that the backfill material was placed to the specified degree of compaction or greater. Test results are summarized on the attached 'Field Compaction Test Report'.
CONFORMANCE OF THIS ITEM: To the best of the inspector's knowledge, the item inspected was found in conformance with approved plans, specifications and RFIs.

MISCELLANEOUS ACTIVITIES, OBSERVATIONS AND/OR COMMENTS:

HWA obtained one sample (designated AG-2) of the gravel borrow import and returned it to our laboratory for Proctor testing.

Total time chargeable to this job is 2.0 hours including the time for writing this report.

SIGNATURES:

Signed: _____ Reviewed: _____
HWA Field Representative HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES

Report#	Item#	Status
na	na	There are no outstanding issues at this time.

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-026
Date (mm/dd/yy): 11/27/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	**Client Representative**	**Weather**
Envirocon	Tom Schnobrich	Clear/Cool
Design Authority (engineer or architect of record)	**Design Authority Representative**	**HWA Project Manager**
		Tony Martin
General Contractor	**General Contractor Representative**	**HWA Field Representative**
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD COMPACTION TEST REPORT - NUCLEAR METHOD

MATERIAL BEING PLACED: *see accompanying field report*

PROJECT IMPROVEMENT TESTED: *see accompanying field report*

Test No.	Detailed Test Location	Elev'n or Depth B.G.**	Probe Depth (in)	Lab Control* (Proctor/Rice/Marshall) ID #	Max. Dens.	Opt. Moist.	Over Size %	Field Test Density Total pcf	Density Dry pcf	Moist. Moist. %	Relative Compaction Field %	Spec %
1	*Excavation B-6.* at grid line 17.5, 35ft south of B-G's northern bank	-5ft	12 in	AG-1	117.3	11.2	30.0	125.8	118.6	6.1	**101**	90
2	*Excavation A-1* .Central Area at grid line 17, mid-point of excavation.	-3ft	12 in	AG-1	117.3	11.2	30.0	124.2	115.5	7.5	**98**	90
3	*Excavation A-1* .Central Area at grid line 20, 15ft No. of A-1's southern bank	-2ft	12 in	AG-1	117.3	11.2	30.0	126.7	118.2	7.2	**101**	90
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												

Test Method: X ASTM D2922/D3017 (soil) ____ ASTM D2950 (asphalt) ____ Other:

Densometer: X Troxler 3440 ____ Troxler 3430 ____ Troxler 3411-B ____ CPN MC1-DR-P

Serial #: 29276 Density Standard Count.: 2555 Moisture Standard Count: 632

*Lab Control: X Standard Proctor ____ Modified Proctor

____ Asphalt Marshall Density ____ Asphalt Maximum Theoretical Density (Rice)

COMMENTS: Test locations and elevations are approximate. Testing provides data only for a specific test location and to a limited depth. Accompanying field report provides additional information. **Depth B.G. indicates depth below grade. Grade means the design finish grade of the current type of fill material being placed. Bolded results indicate compaction below specified value.

Completed By: John H. "Jack" Carlock Reviewed By: Tony Martin

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-027
Date (mm/dd/yy): 11/29/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	Client Representative	Weather
Envirocon	Tom Schnobrich	Clear/Cool
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager
		Tony Martin
General Contractor	General Contractor Representative	HWA Field Representative
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD REPORT

SUMMARY OF FIELD TIME SPENT ON PROJECT TODAY:
First Site Visit: Start Travel: 1530 Arrived at Site: 1540 Departed Site: 1640 End Travel: 1655

ACTIVITY BEING INSPECTED: Compaction of Gravel Borrow import placed as excavation backfill.
GENERAL LOCATION: Fill placed as Backfill of Excavation A-1 and B-6.
DETAILED LOCATION: The approximate locations and elevations tested are summarized on the attached 'Field Compaction Test Report'.
TYPE OF INSPECTION: Periodic
DETAILS OF PLACEMENT OF THIS MATERIAL: The thickness of each lift of the fill placed in this excavation is unknown to us, and HWA has no specific knowledge as to the overall depth of the fill. Placement activities were underway at the time of our arrival, but no compaction efforts were observed. Fill was placed to between 2ft above the top of the capillary break or to 2.0ft below final grade in the areas tested today.
HWA INSPECTION ACTIVITIES RELATED TO THIS ITEM: HWA conducted nuclear density testing and a physical evaluation of the backfill utilizing a 1/2 inch diameter steel T-handled probe of the backfill. Both nuclear density testing and our physical evaluation indicated that the backfill material was placed to the specified degree of compaction or greater. Test results are summarized on the attached 'Field Compaction Test Report'.
CONFORMANCE OF THIS ITEM: To the best of the inspector's knowledge, the item inspected was found in conformance with approved plans, specifications and RFIs.

MISCELLANEOUS ACTIVITIES, OBSERVATIONS AND/OR COMMENTS:

Total time chargeable to this job is 2.0 hours including the time for writing this report.

SIGNATURES:

Signed: _____
HWA Field Representative

Reviewed: _____
HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES

Report#	Item#	Status
na	na	There are no outstanding issues at this time.

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-027
Date (mm/dd/yy): 11/29/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	Client Representative	Weather
Envirocon	Tom Schnobrich	Clear/Cool
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager
		Tony Martin
General Contractor	General Contractor Representative	HWA Field Representative
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD COMPACTION TEST REPORT - NUCLEAR METHOD

MATERIAL BEING PLACED: *see accompanying field report*

PROJECT IMPROVEMENT TESTED: *see accompanying field report*

Test No.	Detailed Test Location	Elev'n or Depth B.G.**	Probe Depth (in)	Lab Control* (Proctor/Rice/Marshall) ID #	Max. Dens.	Opt. Moist.	Over Size %	Field Test Density Total pcf	Dry pcf	Moist. Moist. %	Relative Compaction Field %	Spec %
1	*Excavation B-6.* Center area at grid line 16, 20ft so. of B-6's northern bank	-2.5ft	12 in	AG-2	120.2	11.5	25.0	126.0	117.3	7.4	98	90
2	*Excavation B-6/B-20-1 boundary.* 45ft So. of northern back.	-4ft	12 in	AG-2	120.2	11.5	25.0	128.5	119.3	7.7	99	90
3	*Excavation A-1.* Central Area at grid line 16, 15ft No. of A-1's southern bank	-1ft	12 in	AG-2	120.2	11.5	25.0	124.5	116.9	6.5	97	90
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												

Test Method: X ASTM D2922/D3017 (soil) ____ ASTM D2950 (asphalt) ____ Other:

Densometer: X Troxler 3440 ____ Troxler 3430 ____ Troxler 3411-B ____ CPN MC1-DR-P

Serial #: 29276 Density Standard Count.: 2555 Moisture Standard Count: 632

*Lab Control: X Standard Proctor ____ Modified Proctor

____ Asphalt Marshall Density ____ Asphalt Maximum Theoretical Density (Rice)

COMMENTS: Test locations and elevations are approximate. Testing provides data only for a specific test location and to a limited depth. Accompanying field report provides additional information. **Depth B.G. indicates depth below grade. Grade means the design finish grade of the current type of fill material being placed. Bolded results indicate compaction below specified value.

Completed By: John H. "Jack" Carlock Reviewed By: Tony Martin

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-028
Date (mm/dd/yy): 12/6/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client: Envirocon	Client Representative: Tom Schnobrich	Weather: Clear/Cool
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager: Tony Martin
General Contractor: Envirocon	General Contractor Representative: Chuck Hyatt	HWA Field Representative: John H. "Jack" Carlock

FIELD REPORT

SUMMARY OF FIELD TIME SPENT ON PROJECT TODAY:
First Site Visit: Start Travel: 1415 Arrived at Site: 1425 Departed Site: 1520 End Travel: 1532

ACTIVITY BEING INSPECTED: Compaction of Gravel Borrow import placed as excavation backfill.
GENERAL LOCATION: Fill placed as Backfill of Excavation B-20 and B-6.
DETAILED LOCATION: The approximate locations and elevations tested are summarized on the attached 'Field Compaction Test Report'.
TYPE OF INSPECTION: Periodic
DETAILS OF PLACEMENT OF THIS MATERIAL: The thickness of each lift of the fill placed in this excavation is unknown to us, and HWA has no specific knowledge as to the overall depth of the fill. Placement activities were underway at the time of our arrival, but no compaction efforts were observed. Fill was placed to final grade at the time of my arrival.
HWA INSPECTION ACTIVITIES RELATED TO THIS ITEM: HWA conducted nuclear density testing and a physical evaluation of the backfill utilizing a 1/2 inch diameter steel T-handled probe of the backfill. Both nuclear density testing and our physical evaluation indicated that the backfill material was placed to the specified degree of compaction or greater. Test results are summarized on the attached 'Field Compaction Test Report'.
CONFORMANCE OF THIS ITEM: To the best of the inspector's knowledge, the item inspected was found in conformance with approved plans, specifications and RFIs.

MISCELLANEOUS ACTIVITIES, OBSERVATIONS AND/OR COMMENTS:

Total time chargeable to this job is 2.0 hours including the time for writing this report.

SIGNATURES:

Signed: _____
HWA Field Representative

Reviewed: _____
HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES

Report#	Item#	Status
na	na	There are no outstanding issues at this time.

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-028
Date (mm/dd/yy): 12/6/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	**Client Representative**	**Weather**
Envirocon	Tom Schnobrich	Clear/Cool
Design Authority (engineer or architect of record)	**Design Authority Representative**	**HWA Project Manager**
		Tony Martin
General Contractor	**General Contractor Representative**	**HWA Field Representative**
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD COMPACTION TEST REPORT - NUCLEAR METHOD

MATERIAL BEING PLACED: *see accompanying field report*

PROJECT IMPROVEMENT TESTED: *see accompanying field report*

Test No.	Detailed Test Location	Elev'n or Depth B.G.**	Probe Depth (in)	Lab Control* (Proctor/Rice/Marshall) ID #	Max. Dens.	Opt. Moist.	Over Size %	Field Test Density Total pcf	Dry pcf	Moist. Moist. %	Relative Compaction Field %	Spec %
1	*Excavation B-6/B-20 boundary,* 45ft So. of northern back.	*Final Grade*	*12 in*	*AG-2*	*123.7*	*10.3*	*33.6*	*128.7*	*115.4*	*11.5*	**93**	*90*
2	*Excavation B-20-1,* On Gridline 15.5 at the Very center of excavation.	*Final Grade*	*12 in*	*AG-2*	*123.7*	*10.3*	*33.6*	*131.8*	*120.1*	*9.7*	**97**	*90*
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												

Test Method: X ASTM D2922/D3017 (soil) ____ ASTM D2950 (asphalt) ____ Other:

Densometer: X Troxler 3440 ____ Troxler 3430 ____ Troxler 3411-B ____ CPN MC1-DR-P

Serial #: 29276 Density Standard Count.: 2555 Moisture Standard Count: 632

*Lab Control: X Standard Proctor ____ Modified Proctor

____ Asphalt Marshall Density ____ Asphalt Maximum Theoretical Density (Rice)

COMMENTS: Test locations and elevations are approximate. Testing provides data only for a specific test location and to a limited depth. Accompanying field report provides additional information. **Depth B.G. indicates depth below grade. Grade means the design finish grade of the current type of fill material being placed. Bolded results indicate compaction below specified value.

Completed By: John H. "Jack" Carlock Reviewed By: Tony Martin

HWA GEOSCIENCES INC.

19730-64th AVE W STE 200
Lynnwood, WA 98036-5904
Tel. 425-774-0106

FAXMITTAL

Fax: 425-774-2714
Date: January 10, 2008
From: Tony Martin
HWA's Project #: 2007-132-23
Sent To....

Company:	Envirocon	
Attention:	Tom Schnobrich	
Fax No.:	**503-285-6205**	
Phone No.:	503-285-6164	

Number of Pages: 5 (including cover sheet)

ORIGINAL TO FOLLOW BY MAIL	Yes	X No

Subject: **Chevron Edmonds**

Tom,

Please find attached a copy of Field Reports FR-031 and FR-032 for the Chevron Edmonds Project.

If you have any questions regarding the above, please call.

Best Regards,

Tony Martin
Office: 425-774-0106
Cell: 206-794-3126

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-031
Date (mm/dd/yy): 1/4/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	Client Representative	Weather
Envirocon	Tom Schnobrich	Cold/Rain
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager
		Tony Martin
General Contractor	General Contractor Representative	HWA Field Representative
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD REPORT

SUMMARY OF FIELD TIME SPENT ON PROJECT TODAY:
First Site Visit: Start Travel: 1400 Arrived at Site: 1422 Departed Site: 1500 End Travel: 1515

ACTIVITY BEING INSPECTED: Compaction of Gravel Borrow import placed as excavation backfill.
GENERAL LOCATION: Fill placed as Backfill of Excavation B-20.
DETAILED LOCATION: The approximate locations and elevations tested are summarized on the attached 'Field Compaction Test Report'.
TYPE OF INSPECTION: Periodic
DETAILS OF PLACEMENT OF THIS MATERIAL: The thickness of each lift of the fill placed in this excavation is unknown to us, and HWA has no specific knowledge as to the overall depth of the fill. No placement activities were underway during our site visit, and no compaction efforts were observed. .
HWA INSPECTION ACTIVITIES RELATED TO THIS ITEM: HWA conducted nuclear density testing and a physical evaluation of the backfill utilizing a 1/2 inch diameter steel T-handled probe. Both nuclear density testing and our physical evaluation indicated that the backfill material had been placed to the specified degree of compaction or greater. Test results are summarized on the attached 'Field Compaction Test Report'.
CONFORMANCE OF THIS ITEM: To the best of the inspector's knowledge, the item inspected was found in conformance with approved plans, specifications and RFIs.

MISCELLANEOUS ACTIVITIES, OBSERVATIONS AND/OR COMMENTS:

Stated locations are approximations at best.

Total time chargeable to this job is 2.0 hours including the time for writing this report.

SIGNATURES:

Signed: Tony Martin for Jack
HWA Field Representative

Reviewed:
HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES
Report# Item# Status
None at this time.

HWA GeoSciences Inc.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-031
Date (mm/dd/yy): 1/4/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	**Client Representative**	**Weather**
Envirocon	Tom Schnobrich	Cold/Rain
Design Authority (engineer or architect of record)	**Design Authority Representative**	**HWA Project Manager**
		Tony Martin
General Contractor	**General Contractor Representative**	**HWA Field Representative**
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD COMPACTION TEST REPORT - NUCLEAR METHOD

MATERIAL BEING PLACED: *see accompanying field report*

PROJECT IMPROVEMENT TESTED: *see accompanying field report*

Test No.	Detailed Test Location	Elev'n or Depth B.G.**	Probe Depth (in)	Lab Control* (Proctor/Rice/Marshall) ID #	Max. Dens.	Opt. Moist.	Over Size %	Field Test Density Total pcf	Dry pcf	Moist. Moist. %	Relative Compaction Field %	Spec %
1	*Excavation B-20*, approximate location is the intersection of L-Line at 9.5-Line.	*Grade*	*12 in*	*AG-2*	*123.7*	*10.3*	*33.6*	*127.7*	*116.1*	*11.0*	*94*	*90*
2	*Excavation B-20*, approximate location is the intersection of G-Line at 9.5-Line.	*Grade*	*12 in*	*AG-2*	*123.7*	*10.3*	*33.6*	*129.9*	*116.0*	*12.0*	*94*	*90*
3	*Excavation B-20*, approximate location is the intersection of K-Line at 9-Line.	*Grade*	*12 in*	*AG-2*	*123.7*	*10.3*	*33.6*	*131.4*	*114.9*	*14.4*	*93*	*90*
4	*Excavation B-20*, approximate loc. is the intersection of M-Line at 11.5-Line.	*-1ft*	*12 in*	*AG-2*	*123.7*	*10.3*	*33.6*	*126.6*	*113.6*	*11.5*	*92*	*90*
5	*Excavation B-20*, approximate loc. is the intersection of M-Line at 15-Line.	*Grade*	*12 in*	*AG-2*	*123.7*	*10.3*	*33.6*	*129.7*	*116.4*	*11.4*	*94*	*90*
6												
7												
8												
9												
10												
11												
12												
13												

Test Method: X ASTM D2922/D3017 (soil) ____ ASTM D2950 (asphalt) ____ Other:

Densometer: X Troxler 3440 ____ Troxler 3430 ____ Troxler 3411-B ____ CPN MC1-DR-P

Serial #: 29276 Density Standard Count.: 2529 Moisture Standard Count: 622

*Lab Control: X Standard Proctor ____ Modified Proctor

____ Asphalt Marshall Density ____ Asphalt Maximum Theoretical Density (Rice)

COMMENTS: Test locations and elevations are approximate. Testing provides data only for a specific test location and to a limited depth. Accompanying field report provides additional information. **Depth B.G. indicates depth below grade. Grade means the design finish grade of the current type of fill material being placed. Bolded results indicate compaction below specified value.

Completed By: John H. "Jack" Carlock Reviewed By: Tony Martin

HWA GEOSCIENCES INC.
19730-64th AVE W STE 200
Lynnwood, WA 98036-5904
Tel. 425-774-0106

FAXMITTAL

Fax: 425-774-2714
Date: January 10, 2008
From: Tony Martin
HWA's Project #: 2007-132-23
Sent To....

Company:	Envirocon	
Attention:	Tom Schnobrich	
Fax No.:	**503-285-6205**	
Phone No.:	503-285-6164	

Number of Pages: 5 (including cover sheet)

ORIGINAL TO FOLLOW BY MAIL	Yes	X No

Subject: **Chevron Edmonds**

Tom,

Please find attached a copy of Field Reports FR-031 and FR-032 for the Chevron Edmonds Project.

If you have any questions regarding the above, please call.

Best Regards,

Tony Martin
Office: 425-774-0106
Cell: 206-794-3126

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-031
Date (mm/dd/yy): 1/4/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	Client Representative	Weather
Envirocon	Tom Schnobrich	Cold/Rain
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager
		Tony Martin
General Contractor	General Contractor Representative	HWA Field Representative
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD REPORT

SUMMARY OF FIELD TIME SPENT ON PROJECT TODAY:
First Site Visit: Start Travel: 1400 Arrived at Site: 1422 Departed Site: 1500 End Travel: 1515

ACTIVITY BEING INSPECTED: Compaction of Gravel Borrow import placed as excavation backfill.
GENERAL LOCATION: Fill placed as Backfill of Excavation B-20.
DETAILED LOCATION: The approximate locations and elevations tested are summarized on the attached 'Field Compaction Test Report'.
TYPE OF INSPECTION: Periodic
DETAILS OF PLACEMENT OF THIS MATERIAL: The thickness of each lift of the fill placed in this excavation is unknown to us, and HWA has no specific knowledge as to the overall depth of the fill. No placement activities were underway during our site visit, and no compaction efforts were observed. .
HWA INSPECTION ACTIVITIES RELATED TO THIS ITEM: HWA conducted nuclear density testing and a physical evaluation of the backfill utilizing a 1/2 inch diameter steel T-handled probe. Both nuclear density testing and our physical evaluation indicated that the backfill material had been placed to the specified degree of compaction or greater. Test results are summarized on the attached 'Field Compaction Test Report'.
CONFORMANCE OF THIS ITEM: To the best of the inspector's knowledge, the item inspected was found in conformance with approved plans, specifications and RFIs.

MISCELLANEOUS ACTIVITIES, OBSERVATIONS AND/OR COMMENTS:

Stated locations are approximations at best.

Total time chargeable to this job is 2.0 hours including the time for writing this report.

SIGNATURES:

Signed: Tony Martin for Jack
HWA Field Representative

Reviewed:
HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES
Report# Item# Status
None at this time.

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-031
Date (mm/dd/yy): 1/4/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	**Client Representative**	**Weather**
Envirocon	Tom Schnobrich	Cold/Rain
Design Authority (engineer or architect of record)	**Design Authority Representative**	**HWA Project Manager**
		Tony Martin
General Contractor	**General Contractor Representative**	**HWA Field Representative**
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD COMPACTION TEST REPORT - NUCLEAR METHOD

MATERIAL BEING PLACED: *see accompanying field report*

PROJECT IMPROVEMENT TESTED: *see accompanying field report*

Test No.	Detailed Test Location	Elev'n or Depth B.G.**	Probe Depth (in)	Lab Control* (Proctor/Rice/Marshall) ID #	Max. Dens.	Opt. Moist.	Over Size %	Field Test Density Total pcf	Density Dry pcf	Moist. Moist. %	Relative Compaction Field %	Spec %
1	*Excavation B-20,* approximate location is the intersection of L-Line at 9.5-Line.	Grade	12 in	AG-2	123.7	10.3	33.6	127.7	116.1	11.0	94	90
2	*Excavation B-20,* approximate location is the intersection of G-Line at 9.5-Line.	Grade	12 in	AG-2	123.7	10.3	33.6	129.9	116.0	12.0	94	90
3	*Excavation B-20,* approximate location is the intersection of K-Line at 9-Line.	Grade	12 in	AG-2	123.7	10.3	33.6	131.4	114.9	14.4	93	90
4	*Excavation B-20,* approximate loc. is the intersection of M-Line at 11.5-Line.	-1ft	12 in	AG-2	123.7	10.3	33.6	126.6	113.6	11.5	92	90
5	*Excavation B-20,* approximate loc. is the intersection of M-Line at 15-Line.	Grade	12 in	AG-2	123.7	10.3	33.6	129.7	116.4	11.4	94	90
6												
7												
8												
9												
10												
11												
12												
13												

Test Method: X ASTM D2922/D3017 (soil) ___ ASTM D2950 (asphalt) ___ Other:

Densometer: X Troxler 3440 ___ Troxler 3430 ___ Troxler 3411-B ___ CPN MC1-DR-P

Serial #: 29276 Density Standard Count.: 2529 Moisture Standard Count: 622

*Lab Control: X Standard Proctor ___ Modified Proctor

___ Asphalt Marshall Density ___ Asphalt Maximum Theoretical Density (Rice)

COMMENTS: Test locations and elevations are approximate. Testing provides data only for a specific test location and to a limited depth. Accompanying field report provides additional information. **Depth B.G. indicates depth below grade. Grade means the design finish grade of the current type of fill material being placed. Bolded results indicate compaction below specified value.

Completed By: John H. "Jack" Carlock Reviewed By: Tony Martin

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-032
Date (mm/dd/yy): 1/9/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	Client Representative	Weather
Envirocon	Tom Schnobrich	Cold Partly Cloudy
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager
		Tony Martin
General Contractor	General Contractor Representative	HWA Field Representative
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD REPORT

SUMMARY OF FIELD TIME SPENT ON PROJECT TODAY:
First Site Visit: Start Travel: 1400 Arrived at Site: 1415 Departed Site: 1500 End Travel: 1510

ACTIVITY BEING INSPECTED: Compaction of Gravel Borrow import placed as excavation backfill.
GENERAL LOCATION: Fill placed as Backfill of Excavation B-20.
DETAILED LOCATION: The approximate locations and elevations tested are summarized on the attached 'Field Compaction Test Report'.
TYPE OF INSPECTION: Periodic
DETAILS OF PLACEMENT OF THIS MATERIAL: The thickness of each lift of the fill placed in this excavation is unknown to us, and HWA has no specific knowledge as to the overall depth of the fill. No placement activities were underway during our site visit, and no compaction efforts were observed. .
HWA INSPECTION ACTIVITIES RELATED TO THIS ITEM: HWA conducted nuclear density testing and a physical evaluation of the backfill utilizing a 1/2 inch diameter steel T-handled probe. Both nuclear density testing and our physical evaluation indicated that the backfill material had been placed to the specified degree of compaction or greater. Test results are summarized on the attached 'Field Compaction Test Report'.
CONFORMANCE OF THIS ITEM: To the best of the inspector's knowledge, the item inspected was found in conformance with approved plans, specifications and RFIs.

MISCELLANEOUS ACTIVITIES, OBSERVATIONS AND/OR COMMENTS:

Stated locations are approximations at best.

Total time chargeable to this job is 1.5 hours including the time for writing this report.

SIGNATURES:

Signed: Tony Martin for JACK
HWA Field Representative

Reviewed:
HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES
Report# Item# Status
None at this time.

HWA GeoSciences Inc.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-032
Date (mm/dd/yy): 1/9/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name: Chevron Edmonds	Location or Address of Project: Edmonds, WA	Permit No.
Client: Envirocon	Client Representative: Tom Schnobrich	Weather: Cold Partly Cloudy
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager: Tony Martin
General Contractor: Envirocon	General Contractor Representative: Chuck Hyatt	HWA Field Representative: John H. "Jack" Carlock

FIELD COMPACTION TEST REPORT - NUCLEAR METHOD

MATERIAL BEING PLACED: *see accompanying field report*

PROJECT IMPROVEMENT TESTED: *see accompanying field report*

Test No.	Detailed Test Location	Elev'n or Depth B.G.**	Probe Depth (in)	Lab Control* (Proctor/Rice/Marshall) ID #	Max. Dens.	Opt. Moist.	Over Size %	Field Test Density Total pcf	Dry pcf	Moist. Moist. %	Relative Compaction Field %	Spec %
1	*Excavation B-20,* approximate location is the intersection of J-Line at 9.5-Line.	*Grade*	*12 in*	*AG-2*	*123.7*	*10.3*	*33.6*	*133.0*	*119.8*	*11.0*	*97*	*90*
2	*Excavation B-20,* approximate loc. is the intersection of K.5-Line at 10.5-Line.	*Grade*	*12 in*	*AG-2*	*123.7*	*10.3*	*33.6*	*131.9*	*116.0*	*11.3*	*94*	*90*
3	*Excavation B-20,* approximate location is the intersection of L-Line at 15-Line.	*Grade*	*12 in*	*AG-2*	*123.7*	*10.3*	*33.6*	*127.5*	*115.6*	*10.3*	*93*	*90*
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												

Test Method: X ASTM D2922/D3017 (soil) ____ ASTM D2950 (asphalt) ____ Other:

Densometer: X Troxler 3440 ____ Troxler 3430 ____ Troxler 3411-B ____ CPN MC1-DR-P

Serial #: 29276 Density Standard Count.: 2552 Moisture Standard Count: 624

*Lab Control: X Standard Proctor ____ Modified Proctor

____ Asphalt Marshall Density ____ Asphalt Maximum Theoretical Density (Rice)

COMMENTS: Test locations and elevations are approximate. Testing provides data only for a specific test location and to a limited depth. Accompanying field report provides additional information. **Depth B.G. indicates depth below grade. Grade means the design finish grade of the current type of fill material being placed. Bolded results indicate compaction below specified value.

Completed By: John H. "Jack" Carlock Reviewed By: Tony Martin

HWA GEOSCIENCES INC.

19730-64th AVE W STE 200
Lynnwood, WA 98036-5904
Tel. 425-774-0106

FAXMITTAL

Fax: 425-774-2714
Date: January 18, 2008
From: Tony Martin
HWA's Project #: 2007-132-23
Sent To....

Company:	Envirocon	
Attention:	Tom Schnobrich	
Fax No.:	**503-285-6205**	
Phone No.:	503-285-6164	

Number of Pages: 5 (including cover sheet)

ORIGINAL TO FOLLOW BY MAIL	Yes	X No

Subject: **Chevron Edmonds**

Tom,

Please find attached a copy of Field Reports FR-029 and FR-030 for the Chevron Edmonds Project.

If you have any questions regarding the above, please call.

Best Regards,

Tony Martin
Office: 425-774-0106
Cell: 206-794-3126

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-029
Date (mm/dd/yy): 12/19/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	Client Representative	Weather
Envirocon	Tom Schnobrich	Cold/Rain
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager
		Tony Martin
General Contractor	General Contractor Representative	HWA Field Representative
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD REPORT

SUMMARY OF FIELD TIME SPENT ON PROJECT TODAY:
First Site Visit: Start Travel: 0835 Arrived at Site: 0855 Departed Site: 0955 End Travel: 1010

ACTIVITY BEING INSPECTED: Compaction of Gravel Borrow import placed as excavation backfill.
GENERAL LOCATION: Fill placed as Backfill of Excavation B-20.
DETAILED LOCATION: The approximate locations and elevations tested are summarized on the attached 'Field Compaction Test Report'.
TYPE OF INSPECTION: Periodic
DETAILS OF PLACEMENT OF THIS MATERIAL: The thickness of each lift of the fill placed in this excavation is unknown to us, and HWA has no specific knowledge as to the overall depth of the fill. No placement activities were underway during our site visit, and no compaction efforts were observed. .
HWA INSPECTION ACTIVITIES RELATED TO THIS ITEM: HWA conducted nuclear density testing and a physical evaluation of the backfill utilizing a 1/2 inch diameter steel T-handled probe of the backfill. Both nuclear density testing and our physical evaluation indicated that the backfill material had not been placed to the specified degree of compaction or greater. Test results are summarized on the attached 'Field Compaction Test Report'.
CONFORMANCE OF THIS ITEM: To the best of the inspector's knowledge, the item inspected was found in conformance with approved plans, specifications and RFIs, with the exception of the following non-conformance items: The four locations tested failed to meet the specified minimum degree of compaction. Test results were reported to Chuck Hyatt of Envirocon. HWA informed Mr. Hyatt that the fill (gravel borrow) was both overly wet and in the case of test location #3, the material most likely was subjected to little compactive effort prior to our testing. HWA made the recommendation that the fill at these four test locations be removed before any further placement at these locations.

MISCELLANEOUS ACTIVITIES, OBSERVATIONS AND/OR COMMENTS:

Total time chargeable to this job is 2.5 hours including the time for writing this report.

SIGNATURES:

Signed: _____
HWA Field Representative

Reviewed: _____
HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES

Report#	Item#	Status
FR-029	1	Un-resolved. The four locations tested failed to meet the specified minimum degree of compaction.

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-029
Date (mm/dd/yy): 12/19/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name: Chevron Edmonds	Location or Address of Project: Edmonds, WA	Permit No.:
Client: Enviracon	Client Representative: Tom Schnobrich	Weather: Cold/Rain
Design Authority (engineer or architect of record):	Design Authority Representative:	HWA Project Manager: Tony Martin
General Contractor: Enviracon	General Contractor Representative: Chuck Hyatt	HWA Field Representative: John H. "Jack" Carlock

FIELD COMPACTION TEST REPORT - NUCLEAR METHOD

MATERIAL BEING PLACED: *see accompanying field report*

PROJECT IMPROVEMENT TESTED: *see accompanying field report*

Test No.	Detailed Test Location	Elev'n or Depth B.G.**	Probe Depth (in)	Lab Control* (Proctor/Rice/Marshall) ID #	Max. Dens.	Opt. Moist.	Over Size %	Field Test Density Total pcf	Dry pcf	Moist. Moist. %	Relative Compaction Field %	Spec %
1	*Excavation B-20, approximate location is the intersection of H-Line at 13-Line.*	-1.5ft	12 in	AG-2	123.7	10.3	33.6	125.6	107.6	16.7	**87**	90
2	*Excavation B-20, approximate location is the intersection of J-Line at 14-Line.*	-2ft	12 in	AG-2	123.7	10.3	33.6	121.6	105.8	15.8	**86**	90
3	*Excavation B-20, approximate location is the intersection of K-Line at 17-Line.*	-2ft	12 in	AG-2	123.7	10.3	33.6	111.1	95.8	16.0	**77**	90
4	*Excavation B-20, approximate location is the intersection of M-Line at 17-Line.*	-1.5ft	12 in	AG-2	123.7	10.3	33.6	117.5	103.6	13.4	**84**	90
5												
6												
7												
8												
9												
10												
11												
12												
13												

Test Method: X ASTM D2922/D3017 (soil) ____ ASTM D2950 (asphalt) ____ Other:

Densometer: X Troxler 3440 ____ Troxler 3430 ____ Troxler 3411-B ____ CPN MC1-DR-P

Serial #: 29276 Density Standard Count.: 2555 Moisture Standard Count: 632

*Lab Control: X Standard Proctor ____ Modified Proctor

____ Asphalt Marshall Density ____ Asphalt Maximum Theoretical Density (Rice)

COMMENTS: Test locations and elevations are approximate. Testing provides data only for a specific test location and to a limited depth. Accompanying field report provides additional information. **Depth B.G. indicates depth below grade. Grade means the design finish grade of the current type of fill material being placed. Bolded results indicate compaction below specified value.

Completed By: John H. "Jack" Carlock Reviewed By: Tony Martin

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel: 425-774-0106
Fax: 425-774-2714

Field Report No.: FR-030
Date (mm/dd/yy): 1/2/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name: Chevron Edmonds	Location or Address of Project: Edmonds, WA	Permit No.
Client: Envirocon	Client Representative: Tom Schnobrich	Weather: Cold/Rain
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager: Tony Martin
General Contractor: Envirocon	General Contractor Representative: Chuck Hyatt	HWA Field Representative: John H. "Jack" Carlock

FIELD REPORT

SUMMARY OF FIELD TIME SPENT ON PROJECT TODAY:
First Site Visit: Start Travel: 1235 Arrived at Site: 1245 Departed Site: 1358 End Travel: 1410

ACTIVITY BEING INSPECTED: Compaction of Gravel Borrow import placed as excavation backfill.
GENERAL LOCATION: Fill placed as Backfill of Excavation B-20.
DETAILED LOCATION: The approximate locations and elevations tested are summarized on the attached 'Field Compaction Test Report'.
TYPE OF INSPECTION: Periodic
DETAILS OF PLACEMENT OF THIS MATERIAL: The thickness of each lift of the fill placed in this excavation is unknown to us, and HWA has no specific knowledge as to the overall depth of the fill. No placement activities were underway during our site visit, and no compaction efforts were observed. .
HWA INSPECTION ACTIVITIES RELATED TO THIS ITEM: HWA conducted nuclear density testing and a physical evaluation of the backfill utilizing a 1/2 inch diameter steel T-handled probe of the backfill. Both nuclear density testing and our physical evaluation indicated that the backfill material had been placed to the specified degree of compaction or greater. Test results are summarized on the attached 'Field Compaction Test Report'.
CONFORMANCE OF THIS ITEM: To the best of the inspector's knowledge, the item inspected was found in conformance with approved plans, specifications and RFIs.

MISCELLANEOUS ACTIVITIES, OBSERVATIONS AND/OR COMMENTS:

Today's testing was conducted in the same general areas as the four location tested on December 19, 2007, however, stated locations are approximations at best.

Total time chargeable to this job is 2.5 hours including the time for writing this report.

SIGNATURES:

Signed: _____
HWA Field Representative

Reviewed: _____
HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES

Report#	Item#	Status
FR-029	1	Resolved. Resolved. The material at the four failed test locations has been removed. The fill below the test location was subjected to further compactive efforts.

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-030
Date (mm/dd/yy): 1/2/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	Client Representative	Weather
Envirocon	Tom Schnobrich	Cold/Rain
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager
		Tony Martin
General Contractor	General Contractor Representative	HWA Field Representative
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD COMPACTION TEST REPORT - NUCLEAR METHOD

MATERIAL BEING PLACED: *see accompanying field report*

PROJECT IMPROVEMENT TESTED: *see accompanying field report*

Test No.	Detailed Test Location	Elev'n or Depth B.G.**	Probe Depth (in)	Lab Control* (Proctor/Rice/Marshall) ID #	Max. Dens.	Opt. Moist.	Over Size %	Field Test Density Total pcf	Density Dry pcf	Moist. Moist. %	Relative Compaction Field %	Spec %
1	*Excavation B-20,* approximate location is the intersection of H-Line at 13-Line.	-3ft	12 in	AG-2	123.7	10.3	33.6	125.5	112.7	11.3	91	90
2	*Excavation B-20,* approximate location is the intersection of J-Line at 14-Line.	-4ft	12 in	AG-2	123.7	10.3	33.6	129.6	119.6	8.4	97	90
3	*Excavation B-20,* approximate location is the intersection of K-Line at 17-Line.	-4ft	12 in	AG-2	123.7	10.3	33.6	125.1	114.4	9.4	92	90
4	*Excavation B-20,* approximate location is the intersection of M-Line at 17-Line.	-2.5ft	12 in	AG-2	123.7	10.3	33.6	125.7	113.3	10.9	92	90
5												
6												
7												
8												
9												
10												
11												
12												
13												

Test Method: X ASTM D2922/D3017 (soil) ____ ASTM D2950 (asphalt) ____ Other:

Densometer: X Troxler 3440 ____ Troxler 3430 ____ Troxler 3411-B ____ CPN MC1-DR-P

Serial #: 29278 Density Standard Count.: 2555 Moisture Standard Count: 632

*Lab Control: X Standard Proctor ____ Modified Proctor

____ Asphalt Marshall Density ____ Asphalt Maximum Theoretical Density (Rice)

COMMENTS: Test locations and elevations are approximate. Testing provides data only for a specific test location and to a limited depth. Accompanying field report provides additional information. **Depth B.G. indicates depth below grade. Grade means the design finish grade of the current type of fill material being placed. Bolded results indicate compaction below specified value.

Completed By: John H. "Jack" Carlock Reviewed By: Tony Martin

HWA GEOSCIENCES INC.

19730-64th AVE W STE 200
Lynnwood, WA 98036-5904
Tel. 425-774-0106

FAXMITTAL

Fax: 425-774-2714
Date: February 5, 2008
From: Tony Martin
HWA's Project #: 2007-132-23
Sent To....

Company:	Envirocon	
Attention:	Tom Schnobrich	
Fax No.:	**503-285-6205**	
Phone No.:	503-285-6164	

Number of Pages: 2 (including cover sheet)

ORIGINAL TO FOLLOW BY MAIL	Yes	X No

Subject: **Chevron Edmonds**

Tom,

Please find attached a copy of laboratory test data for sample AG-3 (Proctor results) Field Reports FR-029 and FR-030 for the Chevron Edmonds Project.

If you have any questions regarding the above, please call.

Best Regards,

Tony Martin
Office: 425-774-0106
Cell: 206-794-3126

E-MAILED
2-5-08
Tom S.

LABORATORY COMPACTION CHARACTERISTICS OF SOIL

HWA GEOSCIENCES INC.

CLIENT: *Envirocon* SAMPLE ID: *AG-3*

PROJECT: *Chevron Edmonds*

PROJECT NO: *2007132-T100* Sampled By: *JHC* Tested By: *AAC*

Date Sampled: *1/30/2008* Date Received: *1/30/2008* Date Tested: *1/31/2008*

MATERIAL TYPE OR DESCRIPTION:
Gravel Borrow

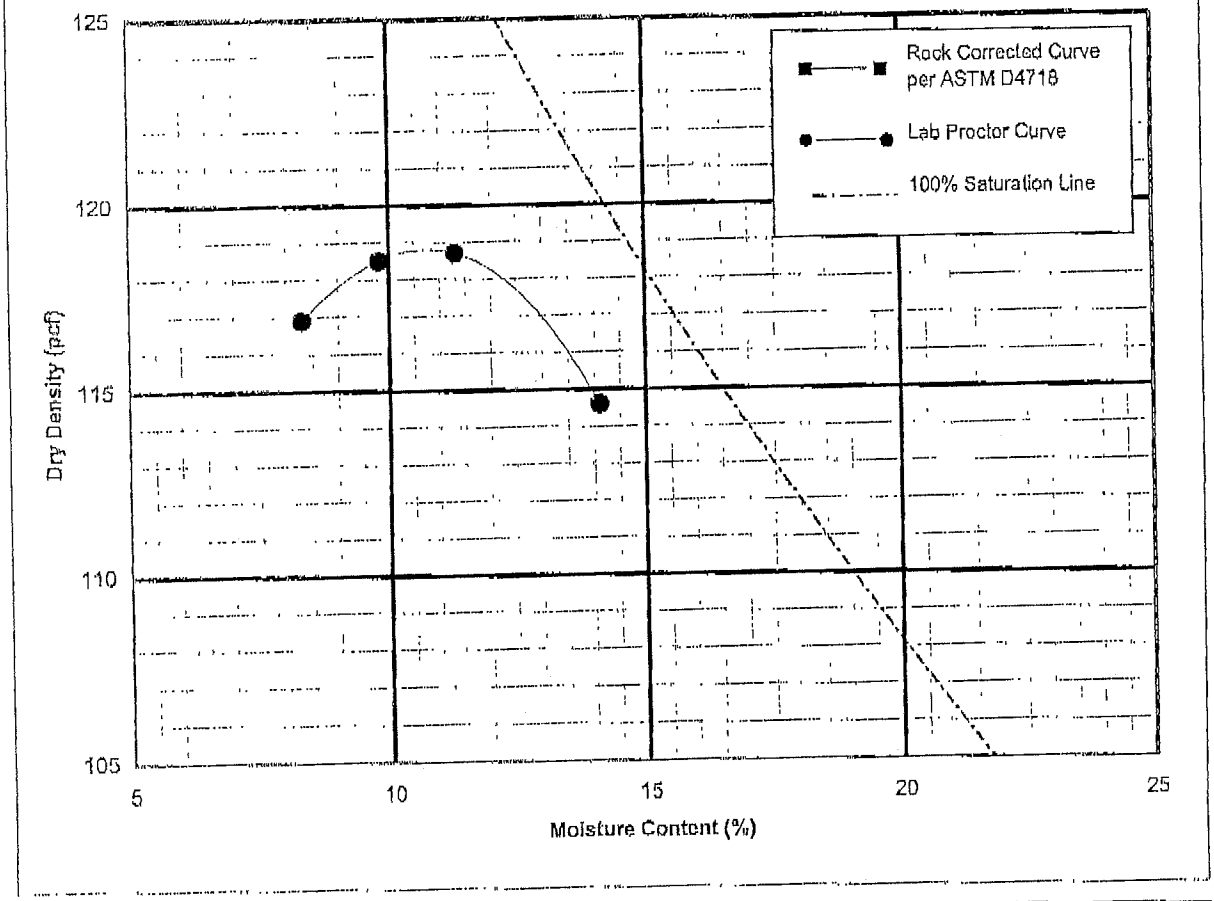
MATERIAL SOURCE, SAMPLE LOCATION AND DEPTH:
Rinker Plant in Everett, NW Agg # 1875- On Site Stockpile

Designation: [X] ASTM D 698 [ ] ASTM D 1557 Natural Moisture Content: *11.3* %

Method: [ ] A [ ] B [X] C Oversize: *4.6* % retained on: *3/4* in.

Preparation: [ ] Dry [X] Moist Rammer: [X] Auto [ ] Manual Assumed S.G.: *2.65*

Test Data					
Dry Density (pcf)	*116.9*	*118.5*	*118.7*	*114.6*	
Moisture Content (%)	*8.3*	*9.8*	*11.3*	*14.1*	



Data Summary*	
Percent Oversize	<5%
Max. Dry Density (pcf)*	*118.8*
Optimum Moisture (%)*	*11.0*

Test Values At Other Oversize Percentages						
0.0%	5.0%	10.0%	15.0%	20.0%	25.0%	30.0%
118.8	*120.5*	*122.2*	*124.0*	*125.9*	*127.8*	*129.8*
11.0	*10.5*	*10.0*	*9.5*	*9.0*	*8.5*	*8.0*

* Values corrected for oversize material per ASTM D4718, using assumed Specific Gravity shown and oversize moisture content of 1%

Reviewed By: *George Minassian* FIGURE *1*

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-035
Date (mm/dd/yy): 2/14/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	Client Representative	Weather
Envirocon	Tom Schnobrich	Clear & Cool
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager
		Tony Martin
General Contractor	General Contractor Representative	HWA Field Representative
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD REPORT

SUMMARY OF FIELD TIME SPENT ON PROJECT TODAY:
First Site Visit: Start Travel: 1400 Arrived at Site: 1410 Departed Site: 1500 End Travel: 1510

ACTIVITY BEING INSPECTED: Compaction of Gravel Borrow import placed as excavation backfill.
GENERAL LOCATION: Fill placed as Backfill of Excavation B-20.
DETAILED LOCATION: The approximate locations and elevations tested are summarized on the attached 'Field Compaction Test Report'.
TYPE OF INSPECTION: Periodic
DETAILS OF PLACEMENT OF THIS MATERIAL: The thickness of each lift of the fill placed in this excavation is unknown to us, and HWA has no specific knowledge as to the overall depth of the fill. No placement activities were underway during our site visit, and no compaction efforts were observed. .
HWA INSPECTION ACTIVITIES RELATED TO THIS ITEM: HWA conducted nuclear density testing and a physical evaluation of the backfill utilizing a 1/2 inch diameter steel T-handled probe. Both nuclear density testing and our physical evaluation indicated that the backfill material had been placed to the specified degree of compaction or greater. Test results are summarized on the attached 'Field Compaction Test Report'.
CONFORMANCE OF THIS ITEM: To the best of the inspector's knowledge, the item inspected was found in conformance with approved plans, specifications and RFIs.

MISCELLANEOUS ACTIVITIES, OBSERVATIONS AND/OR COMMENTS:

Total time chargeable to this job is 1.5 hours including the time for writing this report.

SIGNATURES:

Signed: _____ Reviewed: _____
HWA Field Representative HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES
Report# Item# Status
None at this time.

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-035
Date (mm/dd/yy): 2/14/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	**Client Representative**	**Weather**
Envirocon	Tom Schnobrich	Clear & Cool
Design Authority (engineer or architect of record)	**Design Authority Representative**	**HWA Project Manager**
		Tony Martin
General Contractor	**General Contractor Representative**	**HWA Field Representative**
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD COMPACTION TEST REPORT - NUCLEAR METHOD

MATERIAL BEING PLACED: *see accompanying field report*

PROJECT IMPROVEMENT TESTED: *see accompanying field report*

Test No.	Detailed Test Location	Elev'n or Depth B.G.**	Probe Depth (in)	Lab Control* (Proctor/Rice/Marshall) ID #	Max. Dens.	Opt. Moist.	Over Size %	Field Test Density Total pcf	Dry pcf	Moist. %	Relative Compaction Field %	Spec %
1	*Excavation A-1/B-20,* approximate location is L-Line at 11-Line.	*Grade*	*12 in*	*AG-3*	*122.2*	*10.0*	*10.0*	*131.1*	*117.6*	*11.5*	*96*	*90*
2	*Excavation A-1/B-20,* approximate location is N-Line at 11-Line.	*Grade*	*12 in*	*AG-3*	*124.0*	*9.5*	*15.0*	*128.9*	*117.6*	*9.7*	*95*	*90*
3	*Excavation B-20,* approximate location is P-Line at 10-Line.	*-2ft*	*12 in*	*AG-3*	*124.0*	*9.5*	*15.0*	*129.0*	*118.7*	*8.7*	*96*	*90*
4	*Excavation B-20,* approximate location is O-Line at 12-Line.	*-2ft*	*12 in*	*AG-3*	*125.9*	*9.0*	*20.0*	*136.1*	*125.7*	*8.3*	*100*	*90*
5	*Excavation B-20,* approximate location is S-Line at 6-Line.	*-5ft*	*12 in*	*AG-3*	*122.2*	*10.0*	*10.0*	*119.5*	*109.5*	*5.2*	*90*	*90*
6												
7												
8												
9												
10												
11												
12												
13												

Test Method: X ASTM D2922/D3017 (soil) ____ ASTM D2950 (asphalt) ____ Other:

Densometer: X Troxler 3440 ____ Troxler 3430 ____ Troxler 3411-B ____ CPN MC1-DR-P

Serial #: 29276 Density Standard Count.: 2522 Moisture Standard Count: 626

*Lab Control: X Standard Proctor ____ Modified Proctor

____ Asphalt Marshall Density ____ Asphalt Maximum Theoretical Density (Rice)

COMMENTS: Test locations and elevations are approximate. Testing provides data only for a specific test location and to a limited depth. Accompanying field report provides additional information. **Depth B.G. indicates depth below grade. Grade means the design finish grade of the current type of fill material being placed. Bolded results indicate compaction below specified value.

Completed By: John H. "Jack" Carlock Reviewed By: Tony Martin

HWA GEOSCIENCES INC.

19730-64th AVE W STE 200
Lynnwood, WA 98036-5904
Tel. 425-774-0106

FAXMITTAL

Fax: 425-774-2714
Date: February 18, 2008
From: Tony Martin
HWA's Project #: 2007-132-23
Sent To....

Company:	Envirocon	
Attention:	Tom Schnobrich	
Fax No.:	503-285-6205	
Phone No.:	503-285-6164	

Number of Pages: 3 (including cover sheet)

ORIGINAL TO FOLLOW BY MAIL	Yes	X No

Subject: **Chevron Edmonds**

Tom,

Please find attached a copy of Field Report FR-035 for the Chevron Edmonds Project.

If you have any questions regarding the above, please call.

Best Regards,

Tony Martin
Office: 425-774-0106
Cell: 206-794-3126

HWA GEOSCIENCES INC.

19730-64th AVE W STE 200
Lynnwood, WA 98036-5904
Tel. 425-774-0106

FAXMITTAL

Fax: 425-774-2714
Date: February 18, 2008
From: Tony Martin
HWA's Project #: 2007-132-23
Sent To....

Company:	Envirocon	
Attention:	Tom Schnobrich	
Fax No.:	503-285-6205	
Phone No.:	503-285-6164	

Number of Pages: 3 (including cover sheet)

ORIGINAL TO FOLLOW BY MAIL	Yes	X No

Subject: **Chevron Edmonds**

Tom,

Please find attached a copy of Field Report FR-035 for the Chevron Edmonds Project.

If you have any questions regarding the above, please call.

Best Regards,

Tony Martin
Office: 425-774-0106
Cell: 206-794-3126

E-MAILED
2-18-08
Tom S.

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-035
Date (mm/dd/yy): 2/14/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	Client Representative	Weather
Envirocon	Tom Schnabrich	Clear & Cool
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager Tony Martin
General Contractor	General Contractor Representative	HWA Field Representative
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD REPORT

SUMMARY OF FIELD TIME SPENT ON PROJECT TODAY:
First Site Visit: Start Travel: 1400 Arrived at Site: 1410 Departed Site: 1500 End Travel: 1510

ACTIVITY BEING INSPECTED: Compaction of Gravel Borrow import placed as excavation backfill.
GENERAL LOCATION: Fill placed as Backfill of Excavation B-20.
DETAILED LOCATION: The approximate locations and elevations tested are summarized on the attached 'Field Compaction Test Report'.
TYPE OF INSPECTION: Periodic
DETAILS OF PLACEMENT OF THIS MATERIAL: The thickness of each lift of the fill placed in this excavation is unknown to us, and HWA has no specific knowledge as to the overall depth of the fill. No placement activities were underway during our site visit, and no compaction efforts were observed. .
HWA INSPECTION ACTIVITIES RELATED TO THIS ITEM: HWA conducted nuclear density testing and a physical evaluation of the backfill utilizing a 1/2 inch diameter steel T-handled probe. Both nuclear density testing and our physical evaluation indicated that the backfill material had been placed to the specified degree of compaction or greater. Test results are summarized on the attached 'Field Compaction Test Report'.
CONFORMANCE OF THIS ITEM: To the best of the inspector's knowledge, the item inspected was found in conformance with approved plans, specifications and RFIs.

MISCELLANEOUS ACTIVITIES, OBSERVATIONS AND/OR COMMENTS:

Total time chargeable to this job is 1.5 hours including the time for writing this report.

SIGNATURES:

Signed: _____
HWA Field Representative

Reviewed: _____
HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES
Report# Item# Status
None at this time.

HWA GeoSciences Inc.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-035
Date (mm/dd/yy): 2/14/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	Client Representative	Weather
Envirocon	Tom Schnobrich	Clear & Cool
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager
		Tony Martin
General Contractor	General Contractor Representative	HWA Field Representative
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD COMPACTION TEST REPORT - NUCLEAR METHOD

MATERIAL BEING PLACED: *see accompanying field report*

PROJECT IMPROVEMENT TESTED: *see accompanying field report*

Test No.	Detailed Test Location	Elev'n or Depth B.G.**	Probe Depth (in)	Lab Control* (Proctor/Rice/Marshall) ID #	Max. Dens.	Opt. Moist.	Over Size %	Field Test Density Total pcf	Density Dry pcf	Moist. Moist. %	Relative Compaction Field %	Spec %
1	*Excavation A-1/B-20,* approximate location is L-Line at 11-Line.	Grade	12 in	AG-3	122.2	10.0	10.0	131.1	117.6	11.5	96	90
2	*Excavation A-1/B-20,* approximate location is N-Line at 11-Line.	Grade	12 in	AG-3	124.0	9.5	15.0	128.9	117.6	9.7	95	90
3	*Excavation B-20,* approximate location is P-Line at 10-Line.	-2ft	12 in	AG-3	124.0	9.5	15.0	129.0	118.7	8.7	96	90
4	*Excavation B-20,* approximate location is O-Line at 12-Line.	-2ft	12 in	AG-3	125.9	9.0	20.0	136.1	125.7	8.3	100	90
5	*Excavation B-20,* approximate location is S-Line at 6-Line.	-5ft	12 in	AG-3	122.2	10.0	10.0	119.5	109.5	5.2	90	90
6												
7												
8												
9												
10												
11												
12												
13												

Test Method: X ASTM D2922/D3017 (soil) ___ ASTM D2950 (asphalt) ___ Other:

Densometer: X Troxler 3440 ___ Troxler 3430 ___ Troxler 3411-B ___ CPN MC1-DR-P

Serial #: 29276 Density Standard Count.: 2522 Moisture Standard Count: 626

*Lab Control: X Standard Proctor ___ Modified Proctor

___ Asphalt Marshall Density ___ Asphalt Maximum Theoretical Density (Rice)

COMMENTS: Test locations and elevations are approximate. Testing provides data only for a specific test location and to a limited depth. Accompanying field report provides additional information. **Depth B.G. indicates depth below grade. Grade means the design finish grade of the current type of fill material being placed. Bolded results indicate compaction below specified value.

Completed By: John H. "Jack" Carlock Reviewed By: Tony Martin

HWA GEOSCIENCES INC.
19730-64th AVE W STE 200
Lynnwood, WA 98036-5904
Tel. 425-774-0106

FAXMITTAL

Fax: 425-774-2714
Date: February 27, 2008
From: Tony Martin
HWA's Project #: 2007-132-23
Sent To....

Company:	Envirocon		
Attention:	Tom Schnobrich		
Fax No.:	**503-285-6205**		
Phone No.:	503-285-6164		

Number of Pages: 7 (including cover sheet)

ORIGINAL TO FOLLOW BY MAIL	Yes	X No

Subject: **Chevron Edmonds**

Tom,

Please find attached a copy of Field Reports FR-036, FR-037 & FR-038, for the Chevron Edmonds Project.

If you have any questions regarding the above, please call.

Best Regards,

Tony Martin
Office: 425-774-0106
Cell: 206-794-3126

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-036
Date (mm/dd/yy): 2/18/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name: Chevron Edmonds	Location or Address of Project: Edmonds, WA	Permit No.
Client: Envirocon	Client Representative: Tom Schnobrich	Weather: Clear & Cool
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager: Tony Martin
General Contractor: Envirocon	General Contractor Representative: Chuck Hyatt	HWA Field Representative: John H. "Jack" Carlock

FIELD REPORT

SUMMARY OF FIELD TIME SPENT ON PROJECT TODAY:
First Site Visit: Start Travel: 1425 Arrived at Site: 1435 Departed Site: 1525 End Travel: 1535

ACTIVITY BEING INSPECTED: Compaction of Gravel Borrow import placed as excavation backfill.
GENERAL LOCATION: Fill placed as Backfill of Excavation A-2 and B-20.
DETAILED LOCATION: The approximate locations and elevations tested are summarized on the attached 'Field Compaction Test Report'.
TYPE OF INSPECTION: Periodic
DETAILS OF PLACEMENT OF THIS MATERIAL: Upon arrival on site it was observed that the contractor had placed a layer of a granular fill (3/4 washed drain rock) of undetermined thickness to bridge the standing water within this excavation; approximately 1ft of this granular layer is functioning as a capillary break. The contractor was both placing the imported Gravel Borrow fill and compacting it with an SD-116 pad foot, single-drum 12-ton compactor. The thickness of each lift of the fill placed in this excavation is unknown to us, and we have no specific knowledge as to the overall depth of the fill.
HWA INSPECTION ACTIVITIES RELATED TO THIS ITEM: HWA conducted nuclear density testing and a physical evaluation of the backfill utilizing a 1/2 inch diameter steel T-handled probe. Both nuclear density testing and our physical evaluation indicated that the backfill material had been placed to the specified degree of compaction or greater. Test results are summarized on the attached 'Field Compaction Test Report'.
CONFORMANCE OF THIS ITEM: To the best of the inspector's knowledge, the item inspected was found in conformance with approved plans, specifications and RFIs.

MISCELLANEOUS ACTIVITIES, OBSERVATIONS AND/OR COMMENTS:

Total time chargeable to this job is 2.0 hours including the time for writing this report.

SIGNATURES:

Signed: _____
HWA Field Representative

Reviewed: _____
HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES
Report# Item# Status
None at this time.

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-036
Date (mm/dd/yy): 2/18/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	Client Representative	Weather
Envirocon	Tom Schnobrich	Clear & Cool
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager
		Tony Martin
General Contractor	General Contractor Representative	HWA Field Representative
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD COMPACTION TEST REPORT - NUCLEAR METHOD

MATERIAL BEING PLACED: *see accompanying field report*

PROJECT IMPROVEMENT TESTED: *see accompanying field report*

Test No.	Detailed Test Location	Elev'n or Depth B.G.**	Probe Depth (in)	Lab Control* (Proctor/Rice/Marshall) ID #	Max. Dens.	Opt. Moist.	Over Size %	Field Test Density Total pcf	Dry pcf	Moist. Moist. %	Relative Compaction Field %	Spec %
1	*Excavation A-1/B-20*, approximate location is P-Line at 11-Line.	*Grade*	*12 in*	*AG-3*	*124.0*	*9.5*	*15.0*	*129.6*	*119.6*	*8.3*	*96*	*90*
2	*Excavation A-1/B-20*, approximate location is Q-Line at 11-Line.	*Grade*	*12 in*	*AG-3*	*124.0*	*9.5*	*15.0*	*123.7*	*114.1*	*8.4*	*92*	*90*
3	*Excavation B-20*, approximate location is Q-Line at 10-Line.	*-2ft*	*12 in*	*AG-3*	*124.0*	*9.5*	*15.0*	*126.4*	*117.2*	*7.8*	*95*	*90*
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												

Test Method: X ASTM D2922/D3017 (soil) ___ ASTM D2950 (asphalt) ___ Other:

Densometer: X Troxler 3440 ___ Troxler 3430 ___ Troxler 3411-B ___ CPN MC1-DR-P

Serial #: 29276 Density Standard Count.: 2532 Moisture Standard Count: 631

*Lab Control: X Standard Proctor ___ Modified Proctor

___ Asphalt Marshall Density ___ Asphalt Maximum Theoretical Density (Rice)

COMMENTS: Test locations and elevations are approximate. Testing provides data only for a specific test location and to a limited depth. Accompanying field report provides additional information. **Depth B.G. indicates depth below grade. Grade means the design finish grade of the current type of fill material being placed. Bolded results indicate compaction below specified value.

Completed By: John H. "Jack" Carlock

Reviewed By: Tony Martin

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-037
Date (mm/dd/yy): 2/18/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name: Chevron Edmonds	Location or Address of Project: Edmonds, WA	Permit No.
Client: Envirocon	Client Representative: Tom Schnobrich	Weather: Clear & Cool
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager: Tony Martin
General Contractor: Envirocon	General Contractor Representative: Chuck Hyatt	HWA Field Representative: John H. "Jack" Carlock

FIELD REPORT

SUMMARY OF FIELD TIME SPENT ON PROJECT TODAY:
First Site Visit: Start Travel: 1310 Arrived at Site: 1320 Departed Site: 1415 End Travel: 1425

ACTIVITY BEING INSPECTED: Compaction of Gravel Borrow import placed as excavation backfill.
GENERAL LOCATION: Fill placed as Backfill of Excavation B-20.
DETAILED LOCATION: The approximate locations and elevations tested are summarized on the attached 'Field Compaction Test Report'.
TYPE OF INSPECTION: Periodic
DETAILS OF PLACEMENT OF THIS MATERIAL: Upon arrival on site it was observed that the contractor had placed a layer of a granular fill (3/4 washed drain rock) of undetermined thickness to bridge the standing water within this excavation, with approximately 1ft of the granular layer functioning as a capillary break. The contractor was placing the imported Gravel Borrow fill, then compacting it with an SD-116 pad foot, single-drum 12-ton compactor. The thickness of each lift of the fill placed in this excavation is unknown to us, and we have no specific knowledge as to the overall depth of the fill.
HWA INSPECTION ACTIVITIES RELATED TO THIS ITEM: HWA conducted nuclear density testing and a physical evaluation of the backfill utilizing a 1/2 inch diameter steel T-handled probe. Both nuclear density testing and our physical evaluation indicated that the backfill material had been placed to the specified degree of compaction or greater. Test results are summarized on the attached 'Field Compaction Test Report'.
CONFORMANCE OF THIS ITEM: To the best of the inspector's knowledge, the item inspected was found in conformance with approved plans, specifications and RFIs.

MISCELLANEOUS ACTIVITIES, OBSERVATIONS AND/OR COMMENTS:

Total time chargeable to this job is 2.0 hours including the time for writing this report.

SIGNATURES:

Signed: _____
HWA Field Representative

Reviewed: _____
HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES
Report# Item# Status
None at this time.

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-037
Date (mm/dd/yy): 2/18/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name: Cheyron Edmonds	Location or Address of Project: Edmonds, WA	Permit No.:
Client: Envirocon	Client Representative: Tom Schnobrich	Weather: Clear & Cool
Design Authority (engineer or architect of record):	Design Authority Representative:	HWA Project Manager: Tony Martin
General Contractor: Envirocon	General Contractor Representative: Chuck Hyatt	HWA Field Representative: John H. "Jack" Carlock

FIELD COMPACTION TEST REPORT - NUCLEAR METHOD

MATERIAL BEING PLACED: *see accompanying field report*

PROJECT IMPROVEMENT TESTED: *see accompanying field report*

Test No.	Detailed Test Location	Elev'n or Depth B.G.**	Probe Depth (in)	Lab Control* (Proctor/Rice/Marshall) ID #	Max. Dens.	Opt. Moist.	Over Size %	Field Test Density Total pcf	Density Dry pcf	Moist. Moist. %	Relative Compaction Field %	Spec %
1	*Excavation A-1/B-20*, approximate location is *R.5*-Line at 6-Line.	-3ft	12 in	AG-3	125.9	9.0	20.0	135.1	124.2	8.8	99	90
2	*Excavation A-1/B-20*, approximate location is N.5-Line at 10.5-Line.	Grade	12 in	AG-3	125.9	9.0	20.0	136.6	126.4	8.1	100	90
3	*Excavation B-20*, approximate location is Q-Line at 8-Line.	-1ft	12 in	AG-3	124.0	9.5	15.0	122.2	112.4	8.7	91	90
4	*Excavation A-2*, approximate location is T-Line at 8-Line.	-2ft	12 in	AG-3	124.0	9.5	15.0	127.5	119.3	6.9	96	90
5	*Excavation A-2*, approximate location is T.5-Line at 10-Line.	-2ft	12 in	AG-3	124.0	9.5	15.0	121.2	111.8	8.5	90	90
6												
7												
8												
9												
10												
11												
12												
13												

Test Method: X ASTM D2922/D3017 (soil) ____ ASTM D2950 (asphalt) ____ Other:

Densometer: X Troxler 3440 ____ Troxler 3430 ____ Troxler 3411-B ____ CPN MC1-DR-P

Serial #: 29276 Density Standard Count.: 2532 Moisture Standard Count: 623

*Lab Control: X Standard Proctor ____ Modified Proctor

____ Asphalt Marshall Density ____ Asphalt Maximum Theoretical Density (Rice)

COMMENTS: Test locations and elevations are approximate. Testing provides data only for a specific test location and to a limited depth. Accompanying field report provides additional information. **Depth B.G. indicates depth below grade. Grade means the design finish grade of the current type of fill material being placed. Bolded results indicate compaction below specified value.

Completed By: John H. "Jack" Carlock

Reviewed By: Tony Martin

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-038
Date (mm/dd/yy): 2/26/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name: Chevron Edmonds	Location or Address of Project: Edmonds, WA	Permit No.
Client: Envirocon	Client Representative: Tom Schnobrich	Weather: Clear & Cool
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager: Tony Martin
General Contractor: Envirocon	General Contractor Representative: Chuck Hyatt	HWA Field Representative: John H. "Jack" Carlock

FIELD REPORT

SUMMARY OF FIELD TIME SPENT ON PROJECT TODAY:
First Site Visit: Start Travel: 1310 Arrived at Site: 1320 Departed Site: 1415 End Travel: 1425

ACTIVITY BEING INSPECTED: Compaction of Gravel Borrow import placed as excavation backfill.
GENERAL LOCATION: Fill placed as Backfill of Excavation B-11,B-9, B-10.
DETAILED LOCATION: The approximate locations and elevations tested are summarized on the attached 'Field Compaction Test Report'.
TYPE OF INSPECTION: Periodic
DETAILS OF PLACEMENT OF THIS MATERIAL: Upon arrival on site it was observed that the contractor had placed a layer of a granular fill (3/4 washed drain rock) of undetermined thickness to bridge the standing water within this excavation. The thickness of each lift of the fill placed in this excavation is unknown to us, and we have no specific knowledge as to the overall depth of the fill. No placement or compaction activities were observed during today's site visit.
HWA INSPECTION ACTIVITIES RELATED TO THIS ITEM: HWA conducted nuclear density testing and a physical evaluation of the backfill utilizing a 1/2 inch diameter steel T-handled probe. Both nuclear density testing and our physical evaluation indicated that the backfill material had been placed to the specified degree of compaction or greater. Test results are summarized on the attached 'Field Compaction Test Report'.
CONFORMANCE OF THIS ITEM: To the best of the inspector's knowledge, the item inspected was found in conformance with approved plans, specifications and RFIs.

MISCELLANEOUS ACTIVITIES, OBSERVATIONS AND/OR COMMENTS:

Total time chargeable to this job is 1.5 hours including the time for writing this report.

SIGNATURES:

Signed: _____
HWA Field Representative

Reviewed: _____
HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES
Report# Item# Status
None at this time.

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-038
Date (mm/dd/yy): 2/26/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	Client Representative	Weather
Envirocon	Tom Schnobrich	Clear & Cool
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager
		Tony Martin
General Contractor	General Contractor Representative	HWA Field Representative
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD COMPACTION TEST REPORT - NUCLEAR METHOD

MATERIAL BEING PLACED: *see accompanying field report*

PROJECT IMPROVEMENT TESTED: *see accompanying field report*

Test No.	Detailed Test Location	Elev'n or Depth B.G.**	Probe Depth (in)	Lab Control* (Proctor/Rice/Marshall) ID #	Max. Dens.	Opt. Moist.	Over Size %	Field Test Density Total pcf	Dry pcf	Moist. %	Relative Compaction Field %	Spec %
1	*Excavation B-11*, approximate location is S-Line at 11.5-Line.	-3.5ft	12 in	AG-3	122.2	10.0	10.0	122.4	113.3	8.1	93	90
2	*Excavation B-11*, approximate location is U-Line at 9-Line.	Grade	12 in	AG-3	125.9	9.0	20.0	126.9	119.1	6.5	95	90
3	*Excavation B-9*, approximate location is Q-Line at 6-Line.	-4ft	12 in	AG-3	122.2	10.0	10.0	121.9	116.1	5.0	95	90
4	*Excavation B-9*, approximate location is O-Line at 2-Line.	-4ft	12 in	AG-3	122.2	10.0	10.0	121.6	110.5	10.0	90	90
5	*Excavation B-9/B-10*, approximate location is L-Line at 2-Line.	-1.5ft	12 in	AG-3	124.0	9.5	15.0	123.9	114.5	8.2	92	90
6	*Excavation B-10*, approximate location is K.5-Line at 6-Line.	-1ft	12 in	AG-3	124.0	9.5	15.0	124.1	116.3	6.7	94	90
7												
8												
9												
10												
11												
12												
13												

Test Method: X ASTM D2922/D3017 (soil) ____ ASTM D2950 (asphalt) ____ Other:

Densometer: X Troxler 3440 ____ Troxler 3430 ____ Troxler 3411-B ____ CPN MC1-DR-P

Serial #: 29276 Density Standard Count.: 2531 Moisture Standard Count: 625

*Lab Control: X Standard Proctor ____ Modified Proctor

____ Asphalt Marshall Density ____ Asphalt Maximum Theoretical Density (Rice)

COMMENTS: Test locations and elevations are approximate. Testing provides data only for a specific test location and to a limited depth. Accompanying field report provides additional information. **Depth B.G. indicates depth below grade. Grade means the design finish grade of the current type of fill material being placed. Bolded results indicate compaction below specified value.

Completed By: John H. "Jack" Carlock Reviewed By: Tony Martin

HWA GEOSCIENCES INC.

19730-64th AVE W STE 200
Lynnwood, WA 98036-5904
Tel. 425-774-0106

FAXMITTAL

Fax: 425-774-2714
Date: March 10, 2008
From: Tony Martin
HWA's Project #: 2007-132-23
Sent To....

Company:	Envirocon	
Attention:	Tom Schnobrich	
Fax No.:	**503-285-6205**	
Phone No.:	503-285-6164	

Number of Pages: 7 (including cover sheet)

ORIGINAL TO FOLLOW BY MAIL	Yes	X No

Subject: **Chevron Edmonds**

Tom,

Please find attached a copy of Field Reports FR-039, FR-040 & FR-041, for the Chevron Edmonds Project.

If you have any questions regarding the above, please call.

Best Regards,

Tony Martin
Office: 425-774-0106
Cell: 206-794-3126

E-MAILED
3-10-08
Tom S.

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-039
Date (mm/dd/yy): 2/28/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	Client Representative	Weather
Envirocon	Tom Schnobrich	Light Rain/Cool
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager
		Tony Martin
General Contractor	General Contractor Representative	HWA Field Representative
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD REPORT

SUMMARY OF FIELD TIME SPENT ON PROJECT TODAY:
First Site Visit: Start Travel: 0805 Arrived at Site: 0820 Departed Site: 0910 End Travel: 0925

ACTIVITY BEING INSPECTED: Compaction of Gravel Borrow import placed as excavation backfill.
GENERAL LOCATION: Fill placed as Backfill of Excavation B-11,B-9 & B-10.
DETAILED LOCATION: The approximate locations and elevations tested are summarized on the attached 'Field Compaction Test Report'.
TYPE OF INSPECTION: Periodic
DETAILS OF PLACEMENT OF THIS MATERIAL: Upon arrival on site it was observed that the contractor was engaged in both placement and compaction activities. The imported Gravel Borrow fill was placed by end-dumping then graded into place using a John Deere 700-Class bull-dozer; compaction was accomplished using an Ingersoll-Rand SD-116 pad-foot, single-drum 12-ton compactor. The thickness of each lift of the fill placed was observed to be between 1-foot and 18-inches thick, but the overall depth of the fill is unknown to us.
HWA INSPECTION ACTIVITIES RELATED TO THIS ITEM: HWA conducted nuclear density testing and a physical evaluation of the backfill utilizing a 1/2 inch diameter steel T-handled probe. Both nuclear density testing and our physical evaluation indicated that the backfill material had been placed to the specified degree of compaction or greater. Test results are summarized on the attached 'Field Compaction Test Report'.
CONFORMANCE OF THIS ITEM: To the best of the inspector's knowledge, the item inspected was found in conformance with approved plans, specifications and RFIs.

MISCELLANEOUS ACTIVITIES, OBSERVATIONS AND/OR COMMENTS:

Total time chargeable to this job is 2.0 hours including the time for writing this report.

SIGNATURES:

Signed: _____
HWA Field Representative

Reviewed: _____
HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES
Report# Item# Status
None at this time.

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-039
Date (mm/dd/yy): 2/28/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	Client Representative	Weather
Envirocon	Tom Schnobrich	Light Rain/Cool
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager
		Tony Martin
General Contractor	General Contractor Representative	HWA Field Representative
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD COMPACTION TEST REPORT - NUCLEAR METHOD

MATERIAL BEING PLACED: *see accompanying field report*

PROJECT IMPROVEMENT TESTED: *see accompanying field report*

Test No.	Detailed Test Location	Elev'n or Depth B.G.**	Probe Depth (in)	Lab Control* (Proctor/Ricc/Marshall) ID #	Max. Dens.	Opt. Moist.	Over Size %	Field Test Density Total pcf	Dry pcf	Moist. %	Relative Compaction Field %	Spec %
1	*Excavation B-9*, approximate location is M-Line at 3.5-Line.	-1ft	12 in	AG-3	122.2	10.0	10.0	124.2	115.2	7.8	94	90
2	*Excavation B-10*, approximate location is L-Line at 4-Line.	-1ft	12 in	AG-3	125.9	9.0	20.0	126.8	116.4	8.9	92	90
3	*Excavation B-11*, approximate location is T-Line at 12-Line.	-3ft	12 in	AG-3	122.2	10.0	10.0	125.7	115.6	8.5	95	90
4	*Excavation B-11*, approximate location is R-Line at 14-Line.	-4ft	12 in	AG-3	122.2	10.0	10.0	128.0	116.2	10.1	95	90
5												
6												
7												
8												
9												
10												
11												
12												
13												

Test Method: X ASTM D2922/D3017 (soil) ____ ASTM D2950 (asphalt) ____ Other:

Densometer: X Troxler 3440 ____ Troxler 3430 ____ Troxler 3411-B ____ CPN MC1-DR-P

Serial #: 29276 Density Standard Count.: 2540 Moisture Standard Count: 625

*Lab Control: X Standard Proctor ____ Modified Proctor

____ Asphalt Marshall Density ____ Asphalt Maximum Theoretical Density (Rice)

COMMENTS: Test locations and elevations are approximate. Testing provides data only for a specific test location and to a limited depth. Accompanying field report provides additional information. **Depth B.G. indicates depth below grade. Grade means the design finish grade of the current type of fill material being placed. Bolded results indicate compaction below specified value.

Completed By: John H. "Jack" Carlock Reviewed By: Tony Martin

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-040
Date (mm/dd/yy): 2/29/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	Client Representative	Weather
Envirocon	Tom Schnobrich	Light Rain/Cool
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager
		Tony Martin
General Contractor	General Contractor Representative	HWA Field Representative
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD REPORT

SUMMARY OF FIELD TIME SPENT ON PROJECT TODAY:
First Site Visit: Start Travel: 1315 Arrived at Site: 1333 Departed Site: 1440 End Travel: 1455

ACTIVITY BEING INSPECTED: Compaction of Gravel Borrow import placed as excavation backfill.
GENERAL LOCATION: Fill placed as Backfill of Excavation B-11, B-9 & B-10.
DETAILED LOCATION: The approximate locations and elevations tested are summarized on the attached 'Field Compaction Test Report'.
TYPE OF INSPECTION: Periodic
DETAILS OF PLACEMENT OF THIS MATERIAL: Upon arrival on site it was observed that the contractor was engaged in both placement and compaction activities. The imported Gravel Borrow fill was placed by end-dumping then graded into place using a John Deere 700-Class bull-dozer; compaction was accomplished using an Ingersoll-Rand SD-116 pad foot, single-drum 12-ton compactor. The thickness of each lift of the fill placed was observed to be between 1-foot and 18-inches thick, but the overall depth of the fill is unknown to us.
HWA INSPECTION ACTIVITIES RELATED TO THIS ITEM: HWA conducted nuclear density testing and a physical evaluation of the backfill utilizing a 1/2 inch diameter steel T-handled probe. Both nuclear density testing and our physical evaluation indicated that the backfill material had been placed to the specified degree of compaction or greater. Test results are summarized on the attached 'Field Compaction Test Report'.
CONFORMANCE OF THIS ITEM: To the best of the inspector's knowledge, the item inspected was found in conformance with approved plans, specifications and RFIs.

MISCELLANEOUS ACTIVITIES, OBSERVATIONS AND/OR COMMENTS:

Total time chargeable to this job is 2.0 hours including the time for writing this report.

SIGNATURES:

Signed: _____
HWA Field Representative

Reviewed: _____
HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES
Report# Item# Status
None at this time.

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-040
Date (mm/dd/yy): 2/29/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client: Envirocon	Client Representative: Tom Schnobrich	Weather: Light Rain/Cool
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager: Tony Martin
General Contractor: Envirocon	General Contractor Representative: Chuck Hyatt	HWA Field Representative: John H. "Jack" Carlock

FIELD COMPACTION TEST REPORT - NUCLEAR METHOD

MATERIAL BEING PLACED: *see accompanying field report*

PROJECT IMPROVEMENT TESTED: *see accompanying field report*

Test No.	Detailed Test Location	Elev'n or Depth B.G.**	Probe Depth (in)	Lab Control* (Proctor/Rice/Marshall) ID #	Max. Dens.	Opt. Moist.	Over Size %	Field Test Density Total pcf	Dry pcf	Moist. Moist. %	Relative Compaction Field %	Spec %
1	*Excavation B-9*, approximate location is O-Line at 8-Line.	-3ft	12 in	AG-3	122.2	10.0	10.0	125.4	115.2	8.9	94	90
2	*Excavation B-11*, approximate location is R-Line at 14-Line.	-1ft	12 in	AG-3	124.0	9.5	15.0	121.7	112.2	8.7	90	90
3	*Excavation B-11*, approximate location is O.5-Line at 16-Line.	-1ft	12 in	AG-3	122.2	10.0	10.0	125.9	116.8	7.5	96	90
4	*Excavation B-11*, approximate location is R-Line at 14-Line.	-3ft	12 in	AG-3	124.0	9.5	15.0	130.0	121.3	10.1	98	90
5												
6												
7												
8												
9												
10												
11												
12												
13												

Test Method: X ASTM D2922/D3017 (soil) ___ ASTM D2950 (asphalt) ___ Other:

Densometer: X Troxler 3440 ___ Troxler 3430 ___ Troxler 3411-B ___ CPN MC1-DR-P

Serial #: 29276 Density Standard Count.: 2540 Moisture Standard Count: 625

*Lab Control: X Standard Proctor ___ Modified Proctor

___ Asphalt Marshall Density ___ Asphalt Maximum Theoretical Density (Rice)

COMMENTS: Test locations and elevations are approximate. Testing provides data only for a specific test location and to a limited depth. Accompanying field report provides additional information. **Depth B.G. indicates depth below grade. Grade means the design finish grade of the current type of fill material being placed. Bolded results indicate compaction below specified value.

Completed By: John H. "Jack" Carlock Reviewed By: Tony Martin

HWA GeoSciences Inc.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-041
Date (mm/dd/yy): 3/4/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	Client Representative	Weather
Envirocon	Tom Schnobrich	Clear/Cool
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager
		Tony Martin
General Contractor	General Contractor Representative	HWA Field Representative
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD REPORT

SUMMARY OF FIELD TIME SPENT ON PROJECT TODAY:
First Site Visit: Start Travel: 1515 Arrived at Site: 1530 Departed Site: 1640 End Travel: 1655

ACTIVITY BEING INSPECTED: Compaction of Gravel Borrow import placed as excavation backfill.
GENERAL LOCATION: Fill placed as Backfill of Excavation B-11, B-9 & B-10.
DETAILED LOCATION: The approximate locations and elevations tested are summarized on the attached 'Field Compaction Test Report'.
TYPE OF INSPECTION: Periodic
DETAILS OF PLACEMENT OF THIS MATERIAL: Upon arrival on site it was observed that the contractor was engaged in both placement and compaction activities. The imported Gravel Borrow fill was placed by end-dumping then graded into place using a John Deere 700-Class bull-dozer, and compaction was accomplished using an Ingersoll-Rand SD-116 pad foot, single-drum 12-ton compactor. The thickness of each lift of the fill placed was observed to be between 1-foot and 18-inches thick, but the overall depth of the fill is unknown to us.
HWA INSPECTION ACTIVITIES RELATED TO THIS ITEM: HWA conducted nuclear density testing and a physical evaluation of the backfill utilizing a 1/2 inch diameter steel T-handled probe. Both nuclear density testing and our physical evaluation indicated that the backfill material had been placed to the specified degree of compaction or greater. Test results are summarized on the attached 'Field Compaction Test Report'.
CONFORMANCE OF THIS ITEM: To the best of the inspector's knowledge, the item inspected was found in conformance with approved plans, specifications and RFIs.

MISCELLANEOUS ACTIVITIES, OBSERVATIONS AND/OR COMMENTS:

Total time chargeable to this job is 2.0 hours including the time for writing this report.

SIGNATURES:

Signed: _____ Reviewed: _____
HWA Field Representative HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES
Report# Item# Status
None at this time.

HWA GEOSCIENCES INC.
19730 64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-041
Date (mm/dd/yy): 3/4/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	**Client Representative**	**Weather**
Envirocon	Tom Schnobrich	Clear/Cool
Design Authority (engineer or architect of record)	**Design Authority Representative**	**HWA Project Manager**
		Tony Martin
General Contractor	**General Contractor Representative**	**HWA Field Representative**
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD COMPACTION TEST REPORT - NUCLEAR METHOD

MATERIAL BEING PLACED: *see accompanying field report*

PROJECT IMPROVEMENT TESTED: *see accompanying field report*

Test No.	Detailed Test Location	Elev'n or Depth B.G.**	Probe Depth (in)	Lab Control* (Proctor/Rice/Marshall) ID #	Max. Dens.	Opt. Moist.	Over Size %	Field Test Density Total pcf	Dry pcf	Moist. Moist. %	Relative Compaction Field %	Spec %
1	*Excavation B-9*, approximate location is *N*-Line at 5-Line.	Grade	12 in	AG-3	125.9	9.0	20.0	130.8	122.5	6.8	97	90
2	*Excavation B-10*, approximate location is *L.5*-Line at 4-Line.	Grade	12 In	AG-3	125.9	9.0	20.0	131.5	123.4	6.6	98	90
3	*Excavation B-11*, approximate location is T-Line at 12-Line.	Grade	12 in	AG-3	125.9	9.0	20.0	131.9	121.9	8.2	97	90
4	*Excavation B-11*, approximate location is R-Line at 14-Line.	Grade	12 In	AG-3	125.9	9.0	20.0	127.7	119.2	7.1	95	90
5	*Excavation B-11*, approximate location is M-Line at 13-Line.	Grade	12 In	AG-3	125.9	9.0	20.0	129.2	119.8	7.8	95	90
6												
7												
8												
9												
10												
11												
12												
13												

Test Method: X ASTM D2922/D3017 (soil) ___ ASTM D2950 (asphalt) ___ Other:

Densometer: X Troxler 3440 ___ Troxler 3430 ___ Troxler 3411-B ___ CPN MC1-DR-P

Serial #: 29276 Density Standard Count.: 2523 Moisture Standard Count: 624

*Lab Control: X Standard Proctor ___ Modified Proctor

___ Asphalt Marshall Density ___ Asphalt Maximum Theoretical Density (Rice)

COMMENTS: Test locations and elevations are approximate. Testing provides data only for a specific test location and to a limited depth. Accompanying field report provides additional information. **Depth B.G. indicates depth below grade. Grade means the design finish grade of the current type of fill material being placed. Bolded results indicate compaction below specified value.

Completed By: John H. "Jack" Carlock Reviewed By: Tony Martin

HWA GEOSCIENCES INC.

19730-64th AVE W STE 200
Lynnwood, WA 98036-5904
Tel. 425-774-0106

FAXMITTAL

Fax: 425-774-2714
Date: March 13, 2008
From: Tony Martin
HWA's Project #: 2007-132-23
Sent To....

Company:	Envirocon	
Attention:	Tom Schnobrich	
Fax No.:	**503-285-6205**	
Phone No.:	503-285-6164	

Number of Pages: 4 (including cover sheet)

ORIGINAL TO FOLLOW BY MAIL	Yes	X No

Subject: **Chevron Edmonds**

Tom,

Please find attached a copy of Field Reports FR-042 & FR-043, for the Chevron Edmonds Project.

If you have any questions regarding the above, please call.

Best Regards,

Tony Martin
Office: 425-774-0106
Cell: 206-794-3126

E-MAILED
3-13-08
Tom S.

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-043
Date (mm/dd/yy): 3/6/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name: Chevron Edmonds	Location or Address of Project: Edmonds, WA	Permit No.:
Client: Envirocon	Client Representative: Tom Schnobrich	Weather: Clear/Cool
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager: Tony Martin
General Contractor: Envirocon	General Contractor Representative: Chuck Hyatt	HWA Field Representative: John H. "Jack" Carlock

FIELD REPORT

SUMMARY OF FIELD TIME SPENT ON PROJECT TODAY:
First Site Visit: Start Travel: 1035 Arrived at Site: 1045 Departed Site: 1110 End Travel: 1125

ACTIVITY BEING INSPECTED: Compaction of Gravel Borrow Import placed as excavation backfill.
GENERAL LOCATION: Fill placed as Backfill of Excavation B-2.
DETAILED LOCATION: The approximate locations and elevations tested are summarized on the attached 'Field Compaction Test Report'.
TYPE OF INSPECTION: Periodic
DETAILS OF PLACEMENT OF THIS MATERIAL: Upon arrival on site it was observed that the contractor was engaged in both placement and compaction activities. The imported Gravel Borrow fill was placed by end-dumping then graded into place using a John Deere 700-Class bull-dozer, and compaction was accomplished using an Ingersoll-Rand SD-116 pad foot, single-drum 12-ton compactor. The thickness of each lift of the fill placed was observed to be between 1-foot and 18-inches thick, but the overall depth of the fill is unknown to us.
HWA INSPECTION ACTIVITIES RELATED TO THIS ITEM: HWA conducted nuclear density testing and a physical evaluation of the backfill utilizing a 1/2 inch diameter steel T-handled probe. Both nuclear density testing and our physical evaluation indicated that the backfill material had been placed to the specified degree of compaction or greater. Test results are summarized on the attached 'Field Compaction Test Report'.
CONFORMANCE OF THIS ITEM: To the best of the inspector's knowledge, the item inspected was found in conformance with approved plans, specifications and RFIs.

MISCELLANEOUS ACTIVITIES, OBSERVATIONS AND/OR COMMENTS:

Total time chargeable to this job is 1.5 hours including the time for writing this report.

SIGNATURES:

Signed: _____
HWA Field Representative

Reviewed: _____
HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES
Report# Item# Status
None at this time.

HWA GeoSciences Inc.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-043
Date (mm/dd/yy): 3/6/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	Client Representative	Weather
Envirocon	Tom Schnobrich	Clear/Cool
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager
		Tony Martin
General Contractor	General Contractor Representative	HWA Field Representative
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD COMPACTION TEST REPORT - NUCLEAR METHOD

MATERIAL BEING PLACED: *see accompanying field report*

PROJECT IMPROVEMENT TESTED: *see accompanying field report*

Test No.	Detailed Test Location	Elev'n or Depth B.G.**	Probe Depth (in)	Lab Control* (Proctor/Rice/Marshall) ID #	Max. Dens.	Opt. Moist.	Over Size %	Field Test Density Total pcf	Dry pcf	Moist. %	Relative Compaction Field %	Spec %
1	*Excavation B-2,* approximate location is E-Line at 36-Line.	-3ft	12 in	AG-3	125.9	9.0	20.0	127.6	117.0	9.1	93	90
2	*Excavation B-10,* approximate location is F-Line at 39-Line.	-4ft	12 in	AG-3	125.9	9.0	20.0	131.7	119.6	10.1	95	90
3	*Excavation B-11,* approximate location is G-Line at 37-Line.	-6ft	12 in	AG-3	127.8	8.5	25.0	137.9	127.2	8.4	100	90
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												

Test Method: X ASTM D2922/D3017 (soil) ____ ASTM D2950 (asphalt) ____ Other:

Densometer: X Troxler 3440 ____ Troxler 3430 ____ Troxler 3411-B ____ CPN MC1-DR-P

Serial #: 29276 Density Standard Count.: 2525 Moisture Standard Count: 626

*Lab Control: X Standard Proctor ____ Modified Proctor

____ Asphalt Marshall Density ____ Asphalt Maximum Theoretical Density (Rice)

COMMENTS: Test locations and elevations are approximate. Testing provides data only for a specific test location and to a limited depth. Accompanying field report provides additional information. **Depth B.G. indicates depth below grade. Grade means the design finish grade of the current type of fill material being placed. Bolded results indicate compaction below specified value.

Completed By: John H. "Jack" Carlock Reviewed By: Tony Martin

HWA GEOSCIENCES INC.

19730-64th AVE W STE 200
Lynnwood, WA 98036-5904
Tel. 425-774-0106

FAXMITTAL

Fax: 425-774-2714
Date: March 13, 2008
From: Tony Martin
HWA's Project #: 2007-132-23
Sent To,...

Company:	Envirocon	
Attention:	Tom Schnobrich	
Fax No.:	**503-285-6205**	
Phone No.:	503-285-6164	

Number of Pages: 4 (including cover sheet)

ORIGINAL TO FOLLOW BY MAIL	Yes	X No

Subject: **Chevron Edmonds**

Tom,

Please find attached a copy of Field Reports FR-042 & FR-043, for the Chevron Edmonds Project.

If you have any questions regarding the above, please call.

Best Regards,

Tony Martin
Office: 425-774-0106
Cell: 206-794-3126

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-043
Date (mm/dd/yy): 3/6/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	Client Representative	Weather
Envirocon	Tom Schnobrich	Clear/Cool
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager
		Tony Martin
General Contractor	General Contractor Representative	HWA Field Representative
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD REPORT

SUMMARY OF FIELD TIME SPENT ON PROJECT TODAY:
First Site Visit: Start Travel: 1035 Arrived at Site: 1045 Departed Site: 1110 End Travel: 1125

ACTIVITY BEING INSPECTED: Compaction of Gravel Borrow import placed as excavation backfill.
GENERAL LOCATION: Fill placed as Backfill of Excavation B-2.
DETAILED LOCATION: The approximate locations and elevations tested are summarized on the attached 'Field Compaction Test Report'.
TYPE OF INSPECTION: Periodic
DETAILS OF PLACEMENT OF THIS MATERIAL: Upon arrival on site it was observed that the contractor was engaged in both placement and compaction activities. The imported Gravel Borrow fill was placed by end-dumping then graded into place using a John Deere 700-Class bull-dozer, and compaction was accomplished using an Ingersoll-Rand SD-116 pad foot, single-drum 12-ton compactor. The thickness of each lift of the fill placed was observed to be between 1-foot and 18-inches thick, but the overall depth of the fill is unknown to us.
HWA INSPECTION ACTIVITIES RELATED TO THIS ITEM: HWA conducted nuclear density testing and a physical evaluation of the backfill utilizing a 1/2 inch diameter steel T-handled probe. Both nuclear density testing and our physical evaluation indicated that the backfill material had been placed to the specified degree of compaction or greater. Test results are summarized on the attached 'Field Compaction Test Report'.
CONFORMANCE OF THIS ITEM: To the best of the inspector's knowledge, the item inspected was found in conformance with approved plans, specifications and RFIs.

MISCELLANEOUS ACTIVITIES, OBSERVATIONS AND/OR COMMENTS:

Total time chargeable to this job is 1.5 hours including the time for writing this report.

SIGNATURES:

Signed: _____
HWA Field Representative

Reviewed: _____
HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES
Report# Item# Status
None at this time.

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-043
Date (mm/dd/yy): 3/6/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	**Client Representative**	**Weather**
Envirocon	Tom Schnobrich	Clear/Cool
Design Authority (engineer or architect of record)	**Design Authority Representative**	**HWA Project Manager**
		Tony Martin
General Contractor	**General Contractor Representative**	**HWA Field Representative**
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD COMPACTION TEST REPORT - NUCLEAR METHOD

MATERIAL BEING PLACED: *see accompanying field report*

PROJECT IMPROVEMENT TESTED: *see accompanying field report*

Test No.	Detailed Test Location	Elev'n or Depth B.G.**	Probe Depth (in)	Lab Control* (Proctor/Rice/Marshall) ID #	Max. Dens.	Opt. Moist.	Over Size %	Field Test Density Total pcf	Density Dry pcf	Moist. Moist. %	Relative Compaction Field %	Spec %
1	*Excavation B-2*, approximate location is E-Line at 36-Line.	-3ft	12 in	AG-3	125.9	9.0	20.0	127.6	117.0	9.1	93	90
2	*Excavation B-10*, approximate location is F-Line at 39-Line.	-4ft	12 in	AG-3	125.9	9.0	20.0	131.7	119.6	10.1	95	90
3	*Excavation B-11*, approximate location is G-Line at 37-Line.	-6ft	12 in	AG-3	127.8	8.5	25.0	137.9	127.2	8.4	100	90
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												

Test Method: X ASTM D2922/D3017 (soil) ____ ASTM D2950 (asphalt) ____ Other:

Densometer: X Troxler 3440 ____ Troxler 3430 ____ Troxler 3411-B ____ CPN MC1-DR-P

Serial #: 29276 Density Standard Count.: 2525 Moisture Standard Count: 626

*Lab Control: X Standard Proctor ____ Modified Proctor

____ Asphalt Marshall Density ____ Asphalt Maximum Theoretical Density (Rice)

COMMENTS: Test locations and elevations are approximate. Testing provides data only for a specific test location and to a limited depth. Accompanying field report provides additional information. **Depth B.G. Indicates depth below grade. Grade means the design finish grade of the current type of fill material being placed. Bolded results indicate compaction below specified value.

Completed By: John H. "Jack" Carlock Reviewed By: Tony Martin

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-044
Date (mm/dd/yy): 3/11/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name: Chevron Edmonds	Location or Address of Project: Edmonds, WA	Permit No.:
Client: Envirocon	Client Representative: Tom Schnobrich	Weather: Rain/Cool
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager: Tony Martin
General Contractor: Envirocon	General Contractor Representative: Chuck Hyatt	HWA Field Representative: John H. "Jack" Carlock

FIELD REPORT

SUMMARY OF FIELD TIME SPENT ON PROJECT TODAY:
First Site Visit: Start Travel: 1520 Arrived at Site: 1532 Departed Site: 1550 End Travel: 1604

MISCELLANEOUS ACTIVITIES, OBSERVATIONS AND/OR COMMENTS:
At the time of my arrival on site, I observed that no placement or compaction efforts were currently underway anywhere on site. I further observed that access/egress routes to Excavation B-2 had been removed. I met with Chuck Hyatt to discuss testing options and the status of future placement activities. Based on our discussion it was agreed that further compaction testing of the fill placed in Excavation B-2 will wait until backfill operations of Excavation B-3 begin on 03/14/2008.

Total time chargeable to this job is 1.0 hours including the time for writing this report.

SIGNATURES:

Signed: _____
HWA Field Representative

Reviewed: _____
HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES
Report# Item# Status
None at this time.

HWA GEOSCIENCES INC.

19730-64th AVE W STE 200
Lynnwood, WA 98036-5904
Tel. 425-774-0106

FAXMITTAL

E-MAILED 3-19 TS

Fax: 425-774-2714
Date: March 19, 2008
From: Jack Carlock
HWA's Project #: 2007-132-23
Sent To....

Company:	Envirocon	
Attention:	Tom Schnobrich	
Fax No.:	503-285-6205	
Phone No.:	503-285-6164	

Number of Pages: 8 (including cover sheet)

ORIGINAL TO FOLLOW BY MAIL	Yes	X No

Subject: **Chevron Edmonds**

Tom,

Please find attached a copy of Field Reports FR-044 & FR-045, for the Chevron Edmonds Project. I have also attached revised copies of a copy of Field Reports FR-042 & FR-043, since those previously submitted to you listed the correct grid-points, but list the wrong excavation designation number.

If you have any questions regarding the above, please call.

Best Regards,

Jack Carlock
Office: 425-774-0106
Cell: 206-794-3950

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-042 - Revised
Date (mm/dd/yy): 3/5/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name Chevron Edmonds	Location or Address of Project Edmonds, WA	Permit No.
Client Envirocon	Client Representative Tom Schnobrich	Weather Clear/Cool
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager Tony Martin
General Contractor Envirocon	General Contractor Representative Chuck Hyatt	HWA Field Representative John H. "Jack" Carlock

FIELD REPORT

SUMMARY OF FIELD TIME SPENT ON PROJECT TODAY:
First Site Visit: Start Travel: 1428 Arrived at Site: 1440 Departed Site: 1525 End Travel: 1535

ACTIVITY BEING INSPECTED: Compaction of Gravel Borrow import placed as excavation backfill.
GENERAL LOCATION: Fill placed as Backfill of Excavation B-2.
DETAILED LOCATION: The approximate locations and elevations tested are summarized on the attached 'Field Compaction Test Report'.
TYPE OF INSPECTION: Periodic
DETAILS OF PLACEMENT OF THIS MATERIAL: Upon arrival on site it was observed that the contractor was engaged in both placement and compaction activities. The imported Gravel Borrow fill was placed by end-dumping then graded into place using a John Deere 700-Class bull-dozer, and compaction was accomplished using an Ingersoll-Rand SD-116 pad foot, single-drum 12-ton compactor. The thickness of each lift of the fill placed was observed to be between 1-foot and 18-inches thick, but the overall depth of the fill is unknown to us.
HWA INSPECTION ACTIVITIES RELATED TO THIS ITEM: HWA conducted nuclear density testing and a physical evaluation of the backfill utilizing a 1/2 inch diameter steel T-handled probe. Both nuclear density testing and our physical evaluation indicated that the backfill material had been placed to the specified degree of compaction or greater. Test results are summarized on the attached 'Field Compaction Test Report'.
CONFORMANCE OF THIS ITEM: To the best of the inspector's knowledge, the item inspected was found in conformance with approved plans, specifications and RFIs.

MISCELLANEOUS ACTIVITIES, OBSERVATIONS AND/OR COMMENTS:

Total time chargeable to this job is 1.5 hours including the time for writing this report.

SIGNATURES:

Signed: _____
HWA Field Representative

Reviewed: _____
HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES
Report# Item# Status
None at this time.

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-042 - Revised
Date (mm/dd/yy): 3/5/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	Client Representative	Weather
Envirocon	Tom Schnobrich	Clear/Cool
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager
		Tony Martin
General Contractor	General Contractor Representative	HWA Field Representative
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD COMPACTION TEST REPORT - NUCLEAR METHOD

MATERIAL BEING PLACED: *see accompanying field report*

PROJECT IMPROVEMENT TESTED: *see accompanying field report*

Test No.	Detailed Test Location	Elev'n or Depth B.G.**	Probe Depth (in)	Lab Control* (Proctor/Rice/Marshall) ID #	Max. Dens.	Opt. Moist.	Over Size %	Field Test Density Total pcf	Dry pcf	Moist. Moist. %	Relative Compaction Field %	Spec %
1	*Excavation B-2, approximate location is F-Line at 38-Line.*	-7ft	12 in	AG-3	124.0	9.5	15.0	133.0	122.1	9.0	98	90
2	*Excavation B-2, approximate location is F.5-Line at 35-Line.*	-6ft	12 in	AG-3	125.9	9.0	20.0	130.2	119.0	9.4	95	90
3	*Excavation B-2, approximate location is E-Line at 33-Line.*	-6ft	12 in	AG-3	124.0	9.5	15.0	129.5	121.9	7.5	98	90
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												

Test Method: X ASTM D2922/D3017 (soil) ____ ASTM D2950 (asphalt) ____ Other:

Densometer: X Troxler 3440 ____ Troxler 3430 ____ Troxler 3411-B ____ CPN MC1-DR-P

Serial #: 29276 Density Standard Count.: 2525 Moisture Standard Count: 626

*Lab Control: X Standard Proctor ____ Modified Proctor

____ Asphalt Marshall Density ____ Asphalt Maximum Theoretical Density (Rice)

COMMENTS: Test locations and elevations are approximate. Testing provides data only for a specific test location and to a limited depth. Accompanying field report provides additional information. **Depth B.G. indicates depth below grade. Grade means the design finish grade of the current type of fill material being placed. Bolded results indicate compaction below specified value.

Completed By: John H. "Jack" Carlock Reviewed By: Tony Martin

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-043 - Revised
Date (mm/dd/yy): 3/6/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	Client Representative	Weather
Envirocon	Tom Schnobrich	Clear/Cool
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager
		Tony Martin
General Contractor	General Contractor Representative	HWA Field Representative
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD REPORT

SUMMARY OF FIELD TIME SPENT ON PROJECT TODAY:
First Site Visit: Start Travel: 1035 Arrived at Site: 1045 Departed Site: 1110 End Travel: 1125

ACTIVITY BEING INSPECTED: Compaction of Gravel Borrow import placed as excavation backfill.
GENERAL LOCATION: Fill placed as Backfill of Excavation B-2.
DETAILED LOCATION: The approximate locations and elevations tested are summarized on the attached 'Field Compaction Test Report'.
TYPE OF INSPECTION: Periodic
DETAILS OF PLACEMENT OF THIS MATERIAL: Upon arrival on site it was observed that the contractor was engaged in both placement and compaction activities. The imported Gravel Borrow fill was placed by end-dumping then graded into place using a John Deere 700-Class bull-dozer, and compaction was accomplished using an Ingersoll-Rand SD-116 pad foot, single-drum 12-ton compactor. The thickness of each lift of the fill placed was observed to be between 1-foot and 18-inches thick, but the overall depth of the fill is unknown to us.
HWA INSPECTION ACTIVITIES RELATED TO THIS ITEM: HWA conducted nuclear density testing and a physical evaluation of the backfill utilizing a 1/2 inch diameter steel T-handled probe. Both nuclear density testing and our physical evaluation indicated that the backfill material had been placed to the specified degree of compaction or greater. Test results are summarized on the attached 'Field Compaction Test Report'.
CONFORMANCE OF THIS ITEM: To the best of the inspector's knowledge, the item inspected was found in conformance with approved plans, specifications and RFIs.

MISCELLANEOUS ACTIVITIES, OBSERVATIONS AND/OR COMMENTS:

Total time chargeable to this job is 1.5 hours including the time for writing this report.

SIGNATURES:

Signed: _____
HWA Field Representative

Reviewed: _____
HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES
Report# Item# Status
None at this time.

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-043 - Revised
Date (mm/dd/yy): 3/6/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	**Client Representative**	**Weather**
Envirocon	Tom Schnobrich	Clear/Cool
Design Authority (engineer or architect of record)	**Design Authority Representative**	**HWA Project Manager**
		Tony Martin
General Contractor	**General Contractor Representative**	**HWA Field Representative**
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD COMPACTION TEST REPORT - NUCLEAR METHOD

MATERIAL BEING PLACED: *see accompanying field report*

PROJECT IMPROVEMENT TESTED: *see accompanying field report*

Test No.	Detailed Test Location	Elev'n or Depth B.G.**	Probe Depth (in)	Lab Control* (Proctor/Rice/Marshall) ID #	Max. Dens.	Opt. Moist.	Over Size %	Field Test Density Total pcf	Density Dry pcf	Moist. Moist. %	Relative Compaction Field %	Spec %
1	*Excavation B-2, approximate location is E-Line at 36-Line.*	*-3ft*	*12 in*	*AG-3*	*125.9*	*9.0*	*20.0*	*127.6*	*117.0*	*9.1*	*93*	*90*
2	*Excavation B-2, approximate location is F-Line at 39-Line.*	*-4ft*	*12 in*	*AG-3*	*125.9*	*9.0*	*20.0*	*131.7*	*119.6*	*10.1*	*95*	*90*
3	*Excavation B-2, approximate location is G-Line at 37-Line.*	*-6ft*	*12 in*	*AG-3*	*127.8*	*8.5*	*25.0*	*137.9*	*127.2*	*8.4*	*100*	*90*
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												

Test Method: X ASTM D2922/D3017 (soil) ___ ASTM D2950 (asphalt) ___ Other:

Densometer: X Troxler 3440 ___ Troxler 3430 ___ Troxler 3411-B ___ CPN MC1-DR-P

Serial #: 29276 Density Standard Count.: 2525 Moisture Standard Count: 626

*Lab Control: X Standard Proctor ___ Modified Proctor

___ Asphalt Marshall Density ___ Asphalt Maximum Theoretical Density (Rice)

COMMENTS: Test locations and elevations are approximate. Testing provides data only for a specific test location and to a limited depth. Accompanying field report provides additional information. **Depth B.G. indicates depth below grade. Grade means the design finish grade of the current type of fill material being placed. Bolded results indicate compaction below specified value.

Completed By: John H. "Jack" Carlock Reviewed By: Tony Martin

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-044
Date (mm/dd/yy): 3/11/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	Client Representative	Weather
Envirocon	Tom Schnobrich	Rain/Cool
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager
		Tony Martin
General Contractor	General Contractor Representative	HWA Field Representative
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD REPORT

SUMMARY OF FIELD TIME SPENT ON PROJECT TODAY:
First Site Visit: Start Travel: 1520 Arrived at Site: 1532 Departed Site: 1550 End Travel: 1604

MISCELLANEOUS ACTIVITIES, OBSERVATIONS AND/OR COMMENTS:
At the time of my arrival on site, I observed that no placement or compaction efforts were currently underway anywhere on site. I further observed that access/egress routes to Excavation B-2 had been removed. I met with Chuck Hyatt to discuss testing options and the status of future placement activities. Based on our discussion it was agreed that further compaction testing of the fill placed in Excavation B-2 will wait until backfill operations of Excavation B-3 begin on 03/14/2008.

Total time chargeable to this job is 1.0 hours including the time for writing this report.

SIGNATURES:

Signed: _____
HWA Field Representative

Reviewed: _____
HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES
Report# Item# Status
None at this time.

HWA GeoSciences Inc.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-774-2714

Field Report No.: FR-045
Date (mm/dd/yy): 3/17/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	Client Representative	Weather
Envirocon	Tom Schnobrich	Clear/Cool
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager
		Tony Martin
General Contractor	General Contractor Representative	HWA Field Representative
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD REPORT

SUMMARY OF FIELD TIME SPENT ON PROJECT TODAY:
First Site Visit: Start Travel: 1248 Arrived at Site: 1302 Departed Site: 1355 End Travel: 1410

ACTIVITY BEING INSPECTED: Compaction of Gravel Borrow import placed as excavation backfill.
GENERAL LOCATION: Fill placed as Backfill of Excavation B-2.
DETAILED LOCATION: The approximate locations and elevations tested are summarized on the attached 'Field Compaction Test Report'.
TYPE OF INSPECTION: Periodic
DETAILS OF PLACEMENT OF THIS MATERIAL: Upon arrival on site it was observed that the contractor was neither placing nor compacting the Gravel Borrow fill. Based on a conversation with Chuck Hyatt, the fill had been placed to grade within Excavation B-2, with only final grading left to be completed.
HWA INSPECTION ACTIVITIES RELATED TO THIS ITEM: HWA conducted nuclear density testing and a physical evaluation of the backfill utilizing a 1/2 inch diameter steel T-handled probe. Both nuclear density testing and our physical evaluation indicated that the backfill material had been placed to the specified degree of compaction or greater. Test results are summarized on the attached 'Field Compaction Test Report'.
CONFORMANCE OF THIS ITEM: To the best of the inspector's knowledge, the item inspected was found in conformance with approved plans, specifications and RFIs.

MISCELLANEOUS ACTIVITIES, OBSERVATIONS AND/OR COMMENTS:

Total time chargeable to this job is 2.0 hours including the time for writing this report.

SIGNATURES:

Signed: _____
HWA Field Representative

Reviewed: _____
HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES
Report# Item# Status
None at this time.

HWA GEOSCIENCES INC.
19730-64th Avenue West, Suite 200
Lynnwood, WA 98036
Tel. 425-774-0106
Fax. 425-771-2714

Field Report No.: FR-045
Date (mm/dd/yy): 3/17/2007
HWA Project No.: 2007-132-23
HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	Client Representative	Weather
Envirocon	Tom Schnobrich	Clear/Cool
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager
		Tony Martin
General Contractor	General Contractor Representative	HWA Field Representative
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD COMPACTION TEST REPORT - NUCLEAR METHOD

MATERIAL BEING PLACED: *see accompanying field report*

PROJECT IMPROVEMENT TESTED: *see accompanying field report*

Test No.	Detailed Test Location	Elev'n or Depth B.G.**	Probe Depth (in)	Lab Control* (Proctor/Rice/Marshall) ID #	Max. Dens.	Opt. Moist.	Over Size %	Field Test Density Total pcf	Dry pcf	Moist. Moist. %	Relative Compaction Field %	Spec %
1	*Excavation B-2, approximate location is E-Line at 31-Line.*	*grade*	*12 in*	*AG-3*	*127.8*	*8.5*	*25.0*	*127.6*	*117.0*	*9.1*	**92**	*90*
2	*Excavation B-2, approximate location is E.5-Line at 33-Line.*	*grade*	*12 in*	*AG-3*	*127.8*	*8.5*	*25.0*	*129.8*	*120.6*	*7.6*	**94**	*90*
3	*Excavation B-2, approximate location is F-Line at 36-Line.*	*grade*	*12 in*	*AG-3*	*125.9*	*9.0*	*20.0*	*129.1*	*119.8*	*7.8*	**95**	*90*
4	*Excavation B-2, approximate location is F.5-Line at 36-Line.*	*grade*	*12 in*	*AG-3*	*125.9*	*9.0*	*20.0*	*129.7*	*119.5*	*8.5*	**95**	*90*
5	*Excavation B-2, approximate location is E.5-Line at 39-Line.*	*grade*	*12 in*	*AG-3*	*127.8*	*8.5*	*25.0*	*128.9*	*119.5*	*7.9*	**94**	*90*
6												
7												
8												
9												
10												
11												
12												
13												

Test Method: X ASTM D2922/D3017 (soil) ____ ASTM D2950 (asphalt) ____ Other:

Densometer: X Troxler 3440 ____ Troxler 3430 ____ Troxler 3411-B ____ CPN MC1-DR-P

Serial #: 29276 Density Standard Count: 2527 Moisture Standard Count: 022

*Lab Control: X Standard Proctor ____ Modified Proctor

____ Asphalt Marshall Density ____ Asphalt Maximum Theoretical Density (Rice)

COMMENTS: Test locations and elevations are approximate. Testing provides data only for a specific test location and to a limited depth. Accompanying field report provides additional information. **Depth B.G. indicates depth below grade. Grade means the design finish grade of the current type of fill material being placed. Bolded results indicate compaction below specified value.

Completed By: John H. "Jack" Carlock Reviewed By: Tony Martin

PROPOSAL: Beaverton Creek Channel Enhancement

AVISON ROCK QUARRY – PO BOX 419, MOLALLA, OR 97038
33999 South Ball Road, Molalla, Oregon 97038
Quarry Office, Scales, Sales: 503-829-9001 - FAX: 503-829-5998
Quarry Hours: Monday-Friday 7:30am-4:00pm; Saturday 7:30am-12:00 noon or by arrangement

DATE: 3-18-2008 **BID DATE: 3-25-2008**

Contractor:
Fax: Phone: Cell
Site:
Prices Per Ton S. Ball Road Quarry – Molalla, Oregon

Product	Qty.	Unit Price	Haul Rate	Total Delivered
36"- 42"	260 each	$ 39.95	$ 17.00	$ 56.95 with solo

Notes:

- Approximate weight of each boulder 2,500 to 3,000#.
- Project prices assume project duration to be no more than six months from date of this quote. Prices subject to change after six months from date of this quote unless negotiated at time of submittal of a signed proposal or purchase order.
- Truck Standby / Wait Time Charged at Standard Hourly Rates per 15 minutes. Trucking rates subject to change due to fuel pricing volatility
- Product payment based on material hauled over certified scales at Avison Rock Quarry. Payment to be made net 10 days or as previously arranged. Prices quoted DO NOT INCLUDE adding any moisture to products!
- A complete description of Avison Rock Quarry's Terms and Conditions of Agreement which govern sales of Avison rock products are covered in Avison Rock Quarry Credit Application and Agreement. For charge accounts an Avison Rock Quarry Credit Application and Agreement must be submitted and approved prior to sale and/or shipment.
- Load tickets are provided at the scale to drivers. Contractor is to provide on job site collection of load tickets. Additional copies of tickets and/or tabulation of tickets will require a minimum service charge at office hourly rates of $65 per hour.
- This quote is contingent upon acceptance within 10 days of the bid date on this proposal.

Avison Rock Quarry is source compliant for base aggregates for the Oregon Department of Transportation.

Authorized Signature Mike Murray Dated 3-18-2008

Acceptance _____ Dated _____