

FAXMITTAL

Fax: 425-774-2714

Date:

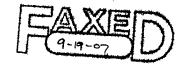
September 17, 2007

From:

Tony Martin

HWA's Project #: 2007-132-23

Sent To....



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

DOLL TO		and the same of th
Company:	Envirocon	77.
Attention:	Tom Schnobrich	
Fax No.:	503-285-6205	- I Am an
Phone No.:	503-285-6164	

Number of Pages: 16 (including cover sheet)

ORIGINAL TO FOLLOW BY MAIL	Yes	X No	
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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



19730-64th Avenue Wost, Suite 200

Lynnwood, WA 98036 Tel. 425-774-0106

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

HWA Task No.:

Field Report No.:

Project Namo	Location or Address of Project	Pormit 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
Coneral Contractor	General Contractor Representative	HWA Fleid (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:

HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES

Roport# Item# Status

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19730-54th Avenue West, Suite 200

Lynnwood, WA 98036 Tel. 425-774-0106

Field Report No.:

FR-002 8/24/2007

Date (mm/dd/yy): 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 Tost 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 rotesting 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

	 مرکب	Representative	Reviewed: HWA Project Er	ngineel or Reviewer
		UNRESOLVED ISSUES	Company of the compan	
Report#	Ilem#	Status		
na	па	There are no outstanding issues at this time.		



19730-64th Avenue West, Suite 200

Lynnwood, WA 98036 Tel. 425-774-0106

Field Report No.: Date (mm/dd/yy);

FR-002 . 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	Wealher
Envirocon	Tom Schnobrich	Sunny/Warm
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager
		Tony Martin
General Cantractor	General Contractor Representative	HWA Field Representative
Envirocan	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

- HAR1.													
		Élev'n Lab Control*								Field Test			
		or	Probe						Density Moist.		Compaction		
Test		Depth	Depth	1D	Max.	Opt.	Over	Total	Dry	Moist.	Field	Spec	
No.	Detailed Test Location	B.G.**	(in)	#	Dens.	Moist.	Size %	pcf	pcf	%	_ %	%	
1	Excavation B16, 18ft 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	Excavalion B18, 22ft W of Sample Point B18-1	-411	12 in	UPS S-1	135.8	7.1	13.4	133.9	126.2	6.1	93	90	
4	Excavation B16, 18lt W of Sample Point B16-2	-3.5ft	12 in	UPS S-1	131.5	7.3	10.0	125.7	116.6	7.6	87	90	
4h	RETEST of Loc #4 following additional compactive afforts 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	
0	Excavation B16, 25ft W of Sample Point B10-1	-3.ft	12 In	UPS S-1	135.8	7.1	13.4	136.0	128.1	6.2	94	90	
,	Excavation B18, 25it 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	
	Excavation B17, 25/I 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	
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Test Method	X	ASTM D2922/D3	1017 (soil)			ASTM D	2950 (as	sphalt)		· · · · · · · · · · · · · · · · · · ·	Other:		V	
Densomoler:	<u> </u>	Troxler 3440		Troxler	3430		Troxler 3	3411-B			CPN MO	1-DR-P		
	Serial #:	29276	Density :	Standard	d Count.:	2598		Moistur	Standar	d Count:	631			
*Lab Control:	X	Standard Proctor	r			Madified	Proctor					•		
Accompanying	field report ill material	Asphalt Marshall ons and elevations t provides addition being placed. Bo ted By: John F	s are appr nal informa olded resu	ition.	Depth B. ate comp	provides G. indicat	data onl cs depth low spec	ly for a s below g ified valu	rade. Gra	st locatio ade mear	n and to ns the de	a limited sign finis	deplh. h grade (of the



19730-64th Avenue West, Suite 200

Lynnwood, WA 98036 Tel. 425-774-0106

Field Report No.: Date (mm/dd/yy):

FR-003 8/27/2007 2007-132-23

HWA Project No.: HWA Task No.:

Fraied Name	Location or Address of Project	Permit No.
Cheyron Edmonds	Edmonds, WA	
Client	Client Representative	Weather
Enviracon	Tom Schnobrich	Sunny/Warm
Design Authority (ongineer or architect of record)	Design Authority Representative	HWA Project Managor
Design Manorey (originate at obstitute)		Tony Martin
General Contractor	General Contractor Representative	HWA Field Representative
Envirocan	Chuck Hyatt	John H. "Jack" Carlock

FIELD REPORT

SUMMARY OF FIELD TIME SPENT ON PROJECT TODAY:

Start Travel: 0715 Arrived at Site: 0730 Departed Site: 1130 End Travel: 1140 First Site Visit:

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 wore 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. Tost 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:

HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES

Report# Item# Status

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HWAGEOSCIENCES INC. FDx. 425-774-2714

19730-64th Avenue West, Suite 200 Lynnwood, WA 98036

Tel. 425-774-0106

FR-003 Field Report No.: Date (mm/dd/yy): HWA Project No.:

8/27/2007 2007-132-23

HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Clien	Client Representative	Weather
Envirocon	Tom Schnobrich	Sunny/Warm
Ducign Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager
		Tony Martin
Serieral 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

	ECT IMPROVEMENT TESTED.		compai									
		Elev'n			Lab C	ontroi*		F	ield Tes	Rela	ativo	
		or	Probe	(Pro	(Proctor/Rice/Marshall)			Density		Moist.	Comp	action
Test	·	Depth	Depth	ID	Max.	Opt.	Over	Total	Dry	Moist.	Field	Spec
No.	Detailed Tost Location	B.G.**	(in)	#	Dens.	Moist.	Size %	pcf	pcf	%	%	%
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	-1 ít	12 in	UPS S-1	135.8	7.1	13.4	130.0	123.2	5.5	91	90
3	t:xcavation 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
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Test Meth	nod X	ASTM ()2922/D	3017 (soil)		ASTM C	2950 (as	phalt)	· · · · · · ·		Olher:			
Densome	ler: X	X Troxler 3440 Troxler 343				Troxler 3	3411-B			CPN MC1-DR-P			
	Serial #	29276	Density Standar	d Count.:	2598		Moisturo	Slandar	d Count	631			
*Lab Con	Irol: X	Standard Procto	or		Modified	i Proctor							
Accompa	nying field repor	t provides additio	ll Density as are approximate al information. ** colded results indic	Depth B.	provide: G. Indica	tes depth	ly for a si below gi	pecific tes rade, Gra	st location	n and lo	a limited sign finls	depth. h grade d	of the
	Comple	Completed By: John H. "Jack" Carlock				Reviewed By: Tony Martin							-



19730-64th Avenua West, Suite 200

Lynnwood, WA 98036 Tcl. 425-774-0106

Field Report No.: Date (mm/dd/yy):

FR-004 8/28/2007 2007-132-23

HWA Project No.:

HWA Task No.:

Project Name	Location of Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	Client Representativo	Weather
Envirocon	Tom Schnobrich	Sunny/Warm
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager
		Tony Martin
General Controctor	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 \$D-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

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:

HWA Field Représentative

HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES

Report# Item# Status

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HWAGEOSCIENCES INC. Fax. 425-774-2714

19730-64th Avenue West, Suite 200

Lynnwood, WA 98036 Tel. 425-774-0106

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

HWA Project No.: HWA Task No.;

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	Client Ropresentative	Wealher
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

Clicat		1 '	presentativ					Cuppu	11 Mm ====			
Enviro	CON uthority (engineer or architect of record)		chnobri		VP			HWA Pro	/Warm	per		
Design	difficility (engition of admitted of record)	Design 1	21/10/11/	,,,,,coor,nan	,,			Топу М	Martin	-		
General C		1	Contractor	Represent	tative		·····	HWA Fie	ld Represo	ntalive		
Enviro		Chuck								" Carlo	<u>sk</u>	
	FIELD COMPA	CTION	I TES	T REP	ORT	- NUC	LEAR	MET	HOD			
MATE	RIAL BEING PLACED: see a	ccompa	nying fi	eld repo	ort							
PROJ	ECT IMPROVEMENT TESTED:	see ac	compa	nying fi	eld repo	ort						
[[Elev'n			Lab C	ontrol*			ield Te	st	Reli	ative
		or	Probe	(Pro	octor/Ric		hall)		nsily	Moist.	Comp	action
Test		Depth	Depth	ID	Max.	Opt.	Over	Total	Dry	Moist.	Field	Spec
No.	Detailed Test Location	B.G.**	(in)	#	Dens.	Moist.	Size %	pcf	pcf	%	%	%
1	Excavation for South Slump Tank, northern end of fill.	-1ft	12 ln	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
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Tost Me	thad X ASTM D2922/D3017 (soi	1)		ASTM C	2950 (as	phalt)			Other:			
Donsom		_Troxler 3		2520	Troxler		· C1		CPN MC	C1-DR-P		
	Serial #: 29276 Donsity	y Standard	Count.:	2098		MOISTHE	Standar	a Count!	031			

Test Method	X	ASTM D2922/D30	017 (soil)	ASTM D2950 (a:	sphalt)	Other:
Donsomaler:	X	Troxler 3440	Troxler 3430	Troxler	3411-B	_CPN MC1-DR-P
	Serial #:	29276	Density Standard Count.:	2598	Moisture Standard Count:	631
"Lah Control:	X	Standard Proctor	-	Modified Proctor	ı	
Accompanying (field repor	l provides addition	are approximate. Testing	provides data or G. indicates depti		
	Comple	ted By: John H	I. "Jack" Carlock		Reviewed By: Tony M	Martin

Reviewed By: Tony Martin



19730-64th Avenuc Wost, Sulte 200

Lynnwood, WA 98036 Tel. 425-774-0106

Field Report No.: Date (mm/dd/yy): FR-005 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: HWA Project Engineer or Reviewer HWA Field RE

SUMMARY OF UNRESOLVED ISSUES

Report# Item# Status

HWAGEOSCIENCES INC. Fax. 425-774-2714

19730-64th Avenue West, Sulle 200

Lynnwood, WA 98036 Tel. 125-774-0106

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

HWA Project No.: HWA Task No.:

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

FIELD COMPACTION TEST REPORT - NUCLEAR METHOD

MATERIAL I	BEING	PLACED:
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see accompanying field report

PROJECT IMPROVEMENT TESTED.

see accompanying field report

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		or	Probe	(Pro	octor/Ric	ce/Mars	hall)		sity	Moist.	Comp	
Test	·	Depth	Depth	D	Max.	Opt.	Over	1 1	Dry	Moist.	Field	Spec
No.	Detailed Test Location	B.G.**	(in)	#	Dens.	Moist.	Sizo %	pcf	pcf	%	%	%
1	Excavation B15. Southwestem quadrant of the excavation.	-411	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.	-3ſt	12 in	UPS S-2	137.4	7.1	25.0	138.2	129.2	7.0	94	90
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4												
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11											-	
12	410											
13												

'-					JiJ								
Test Method	X	ASTM D2922/D	3017 (soll)		_ASTM D	2950 (aspha	alt)			Olher:			
Densomeler:	×	Troxler 3440	Tro	xlcr 3430		Troxler 3411	1-B			CPN MC	1-DR-P		
	Serial #:	29276	Density Star	ndard Count.	2582	Mo	Islura S	tandard C	ount:	628			
"Lab Control:	X	Standard Procto	Γ	F-12-2-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	Modified	Proctor							
Accompanying	Test locati	_Asphalt Marshallons and elevation T provides addition I being placed. B	is are approxi nal information	n. **Depth B	g provides .G. indical	es depth bel	or a spo low grad	cific test lo lo. Grade	calion	and to	a limited sign finis	depth. sh grade (of the
	Comple	Hed By: John	H. "Jack" C	arlock		Re	viewe	d By: To	ny M	fartin			



19730-64th Avenue West, Suite 200

Lynnwood, WA 98036 Tel. 425-774-0108

Field Report No.:

FR-006 9/6/2007

Date (mm/dd/yy): 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)	Dasign Authority Representative	HWA Project Manager
Liesigh Manionty (engineer of the initial of the		Tony Martin
General Contractor	General Contractor Representative	ItWA Field Representative
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD REPORT

SUMMARY OF FIELD TIME SPENT ON PROJECT TODAY:

Start Travel: 0800 Arrived at Site: 0815 Departed Site: 0845 End Travel: 0900 First Site Visit: 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, singledrum 12-ion 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 sile 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 releating 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:5 HWA Field Representative

HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES

Report# Itom# Status

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HWAGEOSCIENCES INC. Fax. 425-774-2714

10730-64th Avenue Wost, Suite 200

Lynnwood, WA 98036

Tel. 425-774-0106

Field Report No.:

FR-006 9/6/2007

Date (mm/dd/yy): 2007-132-23 HWA Project No.:

HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	Client Representativo	Wesiher
Envirocon	Tom Schnobrich	Sunny/Warm
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager
THE SIGN MORNING (CLICHIONS OF RECYMENT OF LOSSIES)		Tony Martin
Seneral Confractor	General Contractor Representative	HWA Field Representative
Enviracan	Chuck Hyatl	John H. "Jack" Carlock

FIELD COMPACTION TEST REPORT - NUCLEAR METHOD

MATERIAL BEING PLACED:	see accompanying field report	
PROJECT IMPROVEMENT TEST	ED: see accompanying field report	
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		or	Probe		ctor/Ric			Density Mois			Comp	
Test		Depth	Depth	ID	Max.	Opt.	Over	Total	Dry	Moist.	Field	Spec
No.	Detailed Test Location	B.G.**	(ln)	#	Dens.	Moist.	Size %	pcf	pcf	%	%	%
1	Backfill of Excavation B14. Center 1/3 of excavation.	-4ft	12 in	UPS S-	133.6	8.1	12.4	128.8	121.2	6.3	91	90
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Denson	eter:	X	Troxler 3440		Troxler	3430		Troxler 3	8411 - B			CPN MC	C1-DR-P		
		Serial #:	29276	Density	Standar	d Count.:	2582		Moisture	Standar	d Count:	628			
*Lah Co	ntrol:	×	Standard Procto	r			Modified	l Proctor						•	
Accomo	anvina (ield report	Asphalt Marshal ons and elevation to provides addition being placed. B	s are app nat inform	ation. 🏲	Depth B.	g provide: G. indica	tes depth	ly for a s below g	pecific te rade, Gri	st locatio	n and to	a limited sign finis	depth. h grade (of the
	-	Comple	ted Bv: John	H. "Jack	" Carlo	ck			Reviev	ved By:	Tony N	Martin_			_



19730-64th Avenue West, Sulte 200

Lyririwood, WA 98036 Tol. 425-774-0106

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

HWA Project No.: HWA Task No.:

Project Name	Localion or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Chent	Client Representative	Weather
Enviracon	Tom Schnobrich	Sunny/Warm
Design Authority (engineer or architect of record)	Design Authority Roprosentative	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:

Start Travel: 1455 Arrived at Site: 1505 Departed Site: 1600 End Travel: 1615 First Site Visit:

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 8inches (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 wellcompacted 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:

HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES

Report# Item# Status

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EWA.

HWAGEOSCIENCES INC. Fax. 425-774-2714

19730-04th Avenue Woot, Suite 200

Lynnwood, WA 98036

Tel. 425-774-0106

Field Report No.: Date (mm/dd/yy):

FR-007 9/10/2007 2007-132-23

HWA Project No.: HWA Task No.:

Project Namo	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	Client Representative	Weather
Enviración	Tom Schnobrich	Sunny/Warm
Dosign Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager
Dobigit / titility (Gright Det 21 desirement of 1 desire)	, ,	Tony Martin
Guneral Confractor	General Contractor Representative	HWA Field Representative
Envirocan	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

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Tale or give present		Elev'n			Lab C	ontrol*			ield Tes		1	alive
		or	Probe	(Pro	octor/Ric	e/Marsl	nall)		sity	Moist.		action
Test		Depth	Depth	ID	Max.	Opt.	Over	Total	Dry	Moist.	Field	Spec
No.	Detailed Test Location	B.G.**	(in)	#	Dens.	Moist.	Size %	pcf	pcf	%	%	%
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	-4fi	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
1	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
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Test Method X ASTM D2922/D3017 (soil) ASTM D2950 (asphalt) Other: Densormeter: X Troxler 3440 Troxler 3430 Troxler 3411-B CPN MC1-DR-P Serial #: 29276 Density Standard Count.: 2579 Moisture Standard Count.: 624 *Lab Centrol: X Standard Proctor Modified Proctor Asphalt Marshall Density Asphalt Maximum Theoretical Density (Ricc) 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	10			ĺ	İ		l					<u> </u>	<u> </u>	J.,
Serial #: 29276 Density Standard Count.: 2579 Moisture Standard Count: 624 *Leb Control: X Standard Proctor Modified Proctor Asphalt Marshall Density Asphalt Maximum Theoretical Density (Ricc) 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 to current type of fill material being placed. Bolded results indicate compaction below specified value.	Test Melhod	X	ASTM D2922/D36	017 (soil)		ASTM	2950 (as	phalt)			Other:		-/-	
*Leh Control: X Standard Proctor Asphalt Marshall Density 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 to current type of fill material being placed. Bolded results indicate compaction below specified value.	Densometer:	X	Troxler 3440	Tre	oxler 3430		Troxler 3	3411-B	_		CPN MC	C1-DR-P		
Asphall Marshall Density Asphall Maximum Theoretical Density (Ricc) 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 to current type of fill material being placed. Bolded results indicate compaction below specified value.		Serial #:	29276	Density Sta	andard Count.:	2579	-	Moisture	∍ Standaṛd	Count:	624			
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 to current type of fill material being placed. Bolded results indicate compaction below specified value.	*Lab Control:	X	Slandard Proctor			Modilie	d Proctor							
Completed By: John H. "Jack" Carlock Reviewed By: Tony Martin	Accompanylog	field repor	ons and elevations t provides addition	are approx	on. "Depth B.	g provide G. indica	s data oni tes depth	ly for a s _i below g	pecific test rade. Grad	location	and to	a limited sign fints	depth. sh grade	of the
						-				Tony N	1artin			_



19730-64th Avenue West, Suite 200

Lynnwood, WA 98036

Tel, 425-774-0106

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	Clicni Representativo	Weather
Envirocon	Tom Schnobrich	Sunny/Warm
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Managur
		Tony Martin
General Controctor	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 Sito: 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: ~

HWA Field/Représentative

HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES

Report# Item# Status

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HWAGEOSCIENCES INC. FUX. 125-774-2714

19730-64th Avenue West, Suite 200

Lynnwood, WA 98036 Tcl. 425-774-0106

Field Report No.: Date (mm/dd/yy):

FR-008 9/12/2007 HWA Project No.: 2007-132-23

HWA Task No.:

Project Name	Location or Address of Project	Parmil No.
Chevron Edmonds	Edmonds, WA	
Client	Client Representative	Weathur
Envirocan	Tom Schnobrich	Sunny/Warm
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager
being in this (original or a contract or a series		Tony Martin
General Contractor	General Contractor Representative	HWA Field Reprusontative
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD COMPACTION TEST REPORT - NUCLEAR METHOD

MATERIAL BEING PLACED:	soe accompanying field report	
PROJECT IMPROVEMENT TESTE	D: see accompanying field report	

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Test		Depih	Depth		Max.	Opt.	Over	Total	Dry	Moist.	Field	Spec
No.	Detailed Test Location	B.G.**	(in)	#	Dens.	Moist.	Size %	pcf	pcf	%	%	%
1	Excavalion B14. Northern quadrant	-1N	12 in	UPS S-2	133.6	8.1	12.1	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
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Test Method	X	ASTM D2922/D3	017 (soil)			ASTM D	2950 (as	phalt)			Other:			
Densometer:	X	Troxler 3440	_	Troxicr 34	30		Troxler 3	3411-B		·	CPN MC	1-DR-P		
	Serial #:	29276	Densily	Standard C	Count.:	2579		Moisture S	itandard C	ount: _	624			
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	Comple	ted By: John H	н. "Jack	" Carlock	、			Reviewe	d By: <u>T</u> c	ony M	lartin			_



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	s X No
	N 140

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 I-IWAGEOSCIENCES INC. Fax. 425-774-2714

19730-64th Avenue West, Suite 200

Lynnwood, WA 98036 Tcl. 425-774-0106

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	
Cilent	Client Répresentative	Wealher
Envirocon	Tom Schnobrich	Cloudy/Rain/Cool
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager
Obsign Kamorny (engineer ar aremizer er reserv)		Tony Martin
General Contractor	General Contractor Representative	John H. "Jack" Carlock
Frivirocon	Chuck Hyalt	OCENTAIN COOK CALL

FIELD COMPACTION TEST REPORT - NUCLEAR METHOD

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MATERIAL BEING PLACE	see accompanying field report

see accompanying field report PROJECT IMPROVEMENT TESTED:

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WITH LANCE CANDENS COMPAN	1 to the control of t	Elev'n				ontrol*		Field Test			Relative	
		or Probe (Proctor/Rice/Marshall)				Moist.						
Test		Depth	Depth	ID OIL	Max.	Opt.	Over	Total	Dry	Moist.	Field	Spec
No.	Detailed Test Location	B.G.**	(in)	#	Dens.	Moist.	Size %	pcf	pcf	%	%	%
	Expavation A-3. Western Half of			UPS	427.4	7.1	25.0	142.6	131.4	8.5	96	90
1	Northern Quadrant	-3.0ft	12 in	S-2	137.4	1.1	20.0	142.0	101.4	0.0		
	Excavation A-3.			UPS	405.0	7.0	20.0	140.7	129.7	8.5	95	90
2	Center of Northern Quadrant.	-3.5ft	12 in	S-2	135.9	7.5	20.0	140.7	149.1	0.5	30	
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Tost Method	X	ASTM D2922/D3	017 (soil)		ASTMI)2950 (as	sphall)	-		Omer.			
Derisometer:	X	Troxlar 3440		xlcr 3430		Troxler :		-		CPN MC1	-DR-P		
	Serial #:	29276	Density Sta	indard Count.:	2551	_	Moisture	Standard	d Count:	627			
*Laḥ Control:	X	Standard Proctor			-	d Proctor							
		Asphall Marshall	Density		Asphalt	Maximur	n Theora	lical Dens	ily (Rice)) sand to a	limited	depth.	
	field some	_Asphall Marshall ons and elevations t provides addition I being placed. Bo	al mormatic	տ, Դագելութ.	ن. اا البال	ices acpa	1 0000		ade mear	ns the dosi	gn linis	h grado	of the
And and Alba and		eled By: John H			_		Review	ved By:	Tony N	Martin			_



FAXMITTAL

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

Fax: 425-774-2714

Date:

October 2, 2007

From:

Tony Martin

HWA's Project #: 2007-132-23

Sent To....

DOIL TO	المراجع الم	Fig. 2 Section 1 (Section 2) and 1 Section 2 (Section 2) a
Company:	Envirocon	
Attention:	Tom Schnobrich	
Fax No.:	503-285-6205	
Phone No.:	503-285-6164	

Number of Pages: 3 (including cover sheet)

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- 1	ORIGINAL TO FOLLOW BY MAIL	Yes	V MO
Ţ	OKIGINAL TO LOPPO A DI MITTE		
1.			

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



19730-64th Avenuc Wost, Suite 200

Lynnwood, WA 98036 Tel. 425-774-0106

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

HWA Task No.:

W	Location or Address of Project	Permit No.		
Project Name Chevron Edmonds	Edmonds, WA	Weather		
Client	Client Representative Tom Schnobrich	Cloudy/Rain/Cool		
Envirocon Design Authority (unginoer 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:

Start Travel: 1030 Arrived at Site: 1040 Departed Site: 1140 End Travel: 1155 First Site Visit:

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, singledrum 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: HWA Field Representative JACK Reviewed:

HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES

Report# Item# Status

na



FAXMITTAL

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

Fax: 425-774-2714

Date:

October 2, 2007

From:

Tony Martin

HWA's Project #: 2007-132-23

Sent To....

SCRE LO		
Company:	Envirocon	
Attention:	Tom Schnobrich	ĺ
1 10 10 10 10 10 10 10 10 10 10 10 10 10	503-285-6205	
Phone No.:	503-285-6164]

Number of Pages: 3 (including cover sheet)

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	P. W. Charles and Approximately and the Control of	٠,	X No	1
	ORIGINAL TO FOLLOW BY MAIL	Yes	X NO	-
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	V			

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



19730-64th Avenue West, Suite 200

Lynnwood, WA 98036

Tel. 42G-774-0106

Fax. 425-774-2714

Field Report No.: Date (mm/dd/yy): FR-009 9/27/2007

2007-132-23 HWA Project No.:

HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	Weather
dient dient	Client Representative Tom Schnobrich	Cloudy/Warm
Envirocan Dusign Authority (engineer or architect of rocord)	Dosign Authority Representative	HWA Project Manager
Exedigit Antion of Tangon et al.		Tony Martin
Canaral Contractor	General Contractor Representative Chuck Hyatt	John H. "Jack" Carlock
Envirocon	Ondok riyak	

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 Fleid Répresentative

HWA Project Engineer or Reviews

SUMMARY OF UNRESOLVED ISSUES

Report# Item# Status

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19730-64th Avenue West, Suite 200

Lynnwood, WA 98036

Tel. 125-774-0106

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

HWA Project No.: HWA Task No.:

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

FIELD COMPACTION TEST REPORT - NUCLEAR METHOD

MATERIAL	BEING	PL	ACED:
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see accompanying field report

companying field report

PROJE	ECT IMPROVEMENT TESTED:	366 ac	сотіраі	lyning ne	7102 1000							
	A STATE OF THE STA	Elev'n		Lab Control*				Field Test		1	alive	
		or	Probe	(Pro	ctor/Ric		nall)	Der	isity	Moist.	Comp	
		Depth	Depth		Max.	Opt.	Over	Total	Dry	Moist.		Spec
Test	Detailed Test Location	B.G.**	(in)	#	Dens.		Size %	pcf	pcf	%	%	%
No.	Excavation B14. Western Half			UPS		8.1	12.4	131.8	121.1	6.2	93	90
1	Southeastorn quadrant	-1ft	12 in	S-2	133.6	0.1	12.4	131.0	12.1.1	0.2		
	Excavation B14. Western Half		40 /	UPS	133.6	8.1	12.4	132.6	125.0	6.1	94	90
2	Northern quadrant.	-3.5ft	12 in	S-2	133.0	0.7	72.0	702.0				
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			The second secon			
Test Mulhod	X	ASTM D2922/D3	017 (soil)	ASTM D295	0 (asphalt)	Other:
LEST MOUNTO		ASTM D2922/D3017 (soil) ASTM D2950 (asphalt) Troxier 3440 Troxier 3430 Troxier 3411-B CPN MC1-DR-P Asphalt Marshall Density Asphalt Marshall Density Asphalt Maximum Theoretical Density (Rice) Cations and elevations are approximate. Testing provides data only for a specific test location and to a limited depth. Port providus additional information. "Depth B.G. indicates depth below grade. Grade means the design finish grade of a provided By: Tony Martin Reviewed By: Tony Martin				
Densometer:	X	Troxler 3440	Traxler 3430	110		
2 , 3 , 1, 3 , 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	Serial #:	29276	Density Standard Count.:	2541	Moisture Stan	dard Count: 630
*Lab Control:	X	Standard Proctor		-		
		Asphalt Marshall	Density	Asphall Max	imum Theoretical D	Density (Rice) a test location and to a limited depth.
COMMENTS:	Test locali	ons and elevation:	s are approximate. Testing	provides da	La urily ion a speeding	Grade means the design finish grade of the
	field roper	i providae addilini	ial information. "Depth of	G. Illulcates t	Jelytti beson dirace.	Giade means the dealgh milen state of the
Manual Control of London				•	Reviewed 8	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

IIWA's Project #: 2007-132-23

Sent To

	DOME TOILE			THE PERSON NAMED IN COLUMN TO THE PE
	Company:	Envirocon		Project Control of the Control of th
	Attention:	Tom Schnobrich	TVING CONTRACTOR	(*I/K)
	Fax No.:	503-285-6205		
1	Phone No.:	503-285-6164	, , , , , , , , , , , , , , , , , , , ,	

Number of Pages: 2 (including cover sheet)

ORIGINAL TO FOLLOW BY MAIL	Yes	X No	١
			_

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

Offico: 425-774-0106 Cell: 206-794-3126



HWAGEOSCIENCES INC. Fax. 425-774-2714

19730-64th Avenue West, Suite 200

Lynnwood, WA 98036

Tel. 425-774-0106

Field Report No.: Date (mm/dd/yy): 10/16/2007

HWA Project No.: 2007-132-23

HWA Task No.:

Project Name	Location of Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Ciloril	Client Representative	Wealher
Envirocon	Tom Schnobrigh	Cloudy/Cool
Dosign Anthority (project or architect of record)	Design Authority Representative	HWA Project Manager
	,	Tony Martin
General Contractor	General Contractor Representativo	HVVA Field Reprosontative
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 Everott, 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:

HWA Field Repre

Reviewed:

HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES

Report# Item# Status

na





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....

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Company:	Envirocon	, масша.
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Fax No.:	503-285-6205	and the second s
Phone No.:	503-285-6164	THE STATE OF THE S

Number of Pages: 2 (including cover sheet)

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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

GLIENT: Envirocon		HWACEOSCIENCES INC.
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:	W. WEN	
Gravel Borrow		
MATERIAL SOURCE, SAMPLE LOCAT	TON AND DEPTH:	
Rinkor Plant in Everett		
Designation: X ASTM D 698	ASTM D 1557 Natu	ral Moisture Content: 6.4 %
Method: A B	XC Oversize: 30	% retained on: <u>3/4</u> in.
Mornogram —	Rammer: X Auto Manual	
Preparation: Dry X Moist	Kalliner, A rate	
	Test Data	400.0
Dry Density (pcf) 99.7	102.2 104.1	104.3 102.9 16.9 18.5
Moisture Content (%) 9.7	11.8 13.9	70.9
64	V Lating	
120	A CONTRACTOR OF THE PARTY OF TH	
1 1 1		Rock Corrected Curve per ASTM D4718
		·
115	•	Lab Proctor Curve
		100% Saturation Line
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Dry Density (pod)		
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5 10	15	20 25
	Moisture Content (%)	•
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	AND THE PROPERTY OF THE PROPER	O Descriptions

Data Summary	, A;
Percont 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		
		(5)	total accomplished	poisture conte	of 1%			

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

Reviewed By: George Minassian

FIGURE 1

FAX NO. 4257742714

FAXMITTAL

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

Fax: 425-774-2714

Date:

October 19, 2007

From:

Tony Martin

IIWA's Project #: 2007-132-23

Sent To....

Sent 10	Attended to the second of the	
Company:	Unvirocon	YANG
	Tom Schnobrich	MENT
Fax No.:	503-285-6205	And a transfer
Phone No.:	503-285-6164	A CONTRACTOR OF THE PROPERTY O

Number of Pages: 2 (including cover sheet)

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Subject: Chevron Edmonds

Tom,

Please find attached a copy of laboratory Proctor sample ΛG -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

CT 15"33 15W	P13	•			HWAGEOSC	CIENCES INC.
-	Envirocon	Edmonds			SAMPLE ID:	AG-2
PROJECT			950	mpled By: JHC	Tested 8	3v: <i>EJB</i>
	NO: 20071 plod: 10/16/	ウムーフ (100 ウムハブ	Date Received:	10/16/2007	Date Tested:	10/17/2007
Date Sam			Date Noodivod.			174
ł		ESCRIPTION:	•			
Gravel Bo	L SOURCE	SAMPLELOCA	TION AND DEPTI-	4		
	ant in Everett	St. MAN. Impire processes				
		DESCRIPTION OF THE PROPERTY OF		N	al Majatura Canta	ent: 6.4 %
Designation	on: X ASTM	D 698	ASTM D 155	•	ral Moisture Conte	
Method:	A	B	XC	Oversize: 30		
Preparation	on: Dry	X Moist	Rammer: X Au	to Manual	Assumed \$.	G.: <u>2.6</u>
	L. C			4 m		
		00.7	Test Da 102.2	104.1	104.3	102.9
Dry Dens	ily (pcl)	99.7 9.7	11.8	13.9	16.9	18,5
Moisinie	Content (%)	9.7	77.0	I FREE PRO LANGE		
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a) C		10	William III	15	20	25
	5	ĮŪ		Content (%)	,	
			Ministrale		·	

Data Summary	y't
Percent Oversize	30,0%
Max. Dry Density (pcf)*	117,3
Optimum Moisture (%)*	11.2

Ţ		Test V	alues At C	ther Over	size Perce	ntages	
	0.0%	5.0%	10.0%	15,0%	20.0%	25.0%	30.0%
ł	104.8	106.7	108.7	110.7	112.8	115.0	117.3
Į	15.5	14.8	14.1	13.3	12.6	11.9	11.2
J		15-16-	Canally shows	and oversize t	noisture conte	nt of 1%	

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

FAXMITTAL

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

Fax: 425-774-2714

Date:

November 1, 2007

From:

Tony Martin

IIWA's Project #: 2007-132-23

Sent To....

37/ 1/4/	
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	
- 1	**************************************			

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



19730-64th Avenuc West, Suite 200 Lynnwood, WA 98036 Tel. 425-774 0105

Fax. 425-774-2714

Field Report No.: FR Date (mm/dd/yy): 10

FR-010 10/2/2007 2007-132-23

HWA Project No.: HWA Task No.:

Project Name	Location or Address of Project	Permit Na.
Chevron Edmonds	Edmonds, WA	
Clicnt	Client Representative	Weallier
Envirocon	Torn 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, 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:

HWA Field Representative

Reviewed:

HWA Project Engineer of Reviewer

SUMMARY OF UNRESOLVED ISSUES

Report# Item# Status

ทล

HWAGEOSCIENCES INC. Fax. 425-774-2714

19730 64th Avenue West, Sulto 200

Lynnwood, WA 98036 Tcl. 425-774-0106

HWA Project No.:

Field Report No.: Date (mm/dd/yy):

FR-010 10/2/2007 2007-132-23

HWA Task No.:

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

Enviro	201		chnopri					HWA Proi	// Call // C			
Denign Ar	Illiority (engineer or architect of record)	Design Au	thority Rep	prosontativ	/ e			Tony M	-	= [
Conversi	oniractor	General C	ontractor F	Reprosonti	alive			HWA Field		nlaliye		
Enviro		Chuck		101/1000						" Carloo	k	
	FIELD COMPA			REP	ORT -	NUC	LEAR	MET	HOD			
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PROJ	ECT IMPROVEMENT TESTED:	see ac	сотры	iyirig (it					ANI L			
	***************************************	Elev'n			Lab Co		115	777	icld Tes			ative
		or	Probe	<u>-</u>	octor/Ric			Total	isity Dry	Moist. Moist.	Field	action Spec
Test	Datated Took Longton	Depth B.G.**	Depth (in)	ID #	Max. Dens.	Opt.	Over Size %) 1	pcf	%	%	%
No.	Detailed Test Location Excavation A-3. 12it E of W-Bank,	D.G.		UPS		_						
1	35ft So of N-Bank.	-3.0ſt	12 in	\$-2	137.4	7.1	25.0	142.5	131.4	8.5	96	90
2	Excavalion A-3. 18ft So. of N-Bank, 25ft W. of E-Bank	-3.5 <i>î</i> î	12 in	UPS \$-2	135.9	7.5	20.0	140.7	129.7	8.5	95	90
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Tost M				_VO 1141	Troxler				-	C1-DR-P		
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^Lab C				_ IVIOditie	d Proctor	· · · · · · · · · · · · · · · · · · ·		anth. 759	\			
	Asphalt Marshall Densit ENTS: Test locations and elevations are a	y ************************************	Tools	_Asphal	re qaya o LiMaximii	m Theor	encal Dei enerific b	nsity (Ric	ະ) on and Fo	a limited	dooth.	
COMM	ENTS: Test locations and elevations are appaying field report provides additional infor	malion *	*Dephi B	g provide .G. indic:	ates dent	h below	grade. G	rade mes	ans the d	esign finla	h grado	of the
AUGUM	panying field report provides additional mon	sults indic	cate com	paction b	elow spe	cified va	luo.			-		

Test Method	X	ASTM D2922/D30)17 (soil)	_ASTM D29	50 (asphait)	Other:	
Densometer:	X	Troxler 3440	Troxler 3430	Tr	oxler 3411-B	CPN MC1-DR-P	
	Serial #:	29276	Density Standard Count.:	2551	Moisture Sta	andard Count: 627	
*Lab Control:	_ X	Standard Proctor		Modified Pr	roclor		
Accompanying	Test location	provides addition	i are approximate. Lestino	provides di G. indicates	depth below grade	l Density (Rice) ific test location and to a limited depth, e. Grade means the design finish grade of the	he
	Comple	ted By: <u>John F</u>	l. "Jack" Carlock	_	Reviewed	By: Tony Marlin	



19730-64th Avenue West, Sullo 200 Lynnwood, WA 98036 Tel. 425-774-0106

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

HWA Task No.:

Lyloled Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Chent	Client Representativo	Wealher
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:

HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES

Report# Iten# Status

na

HWAGEOSCIENCES INC. Fax. 425-774-2714

19730-64th Avenue West, Suile 200

Lynnwood, WA 98036 Tel. 425-774-0106

Field Report No.; Date (mm/dd/yy):

FR-011 10/3/2007 2007-132-23

HWA Project No.: HWA Task No.:

[firoject Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	Client Representativo	Wealher
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
Envirocan	Chuck Hyatt	John H. "Jack" Carlock

FIELD COMPACTION TEST REPORT - NUCLEAR METHOD

MATERIAL BEING PLACED:

see accompanying field report

see accompanying field report PROJECT IMPROVEMENT TESTED:

1	THE PARTY OF THE P	Elev'n		· · · · · · · · · · · · · · · · · · ·	Lab Co	ontrol*		F	ield Tes		Refa	ative
		or	Probe					nsity Moist.		Compaction		
Test		Depth	Depth	ם	Max.	Opt.	Over	1 1	Dry	Moist.	Field	Spec
No.	Detailed Test Location	B.G.**	(in)	#	Dens.	Moist.	Size %	pcf	pcf	%	_ %	%
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-Gank, 50ft S. of N-Bank	-3.0ft	12 in	UPS \$-2	137.4	7.1	25.0	140.2	130.9	7.1	95	90
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Test Method	X ASTM D2922/D	3017 (sail)	ASTM D2950 (as	phalt)		Other:			
Densometer:	X Troxler 3440	Troxler 3430	Troxler:	3411-B	, , , , , , , , , , , , , , , , , , , ,	CPN MC	1-DR-P		
	Serial #: 29276	Density Standard Count.:	2550	Moisture St	andard Count:	631			
*Lab Control:	X Slandard Proce	or	Modified Proctor						
Accompanying fi current type of fil	eld report provides addition	ns are approximate. Testing onal Information. **Dopth B. Bolded results indicate comp	G. indicates depth	ly for a spec i below gradi cified value.	ific test locatio	n and to a ns the de	i limited sign finis	deptin. h grado d	of the



19730-64th Avenue West, Suite 200 Lynnwood, WA 98036 Tel. 425-774-0106

Field Report No.: Date (mm/dd/yy):

FR-012 10/4/2007 2007-132-23

HWA Project No.: HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Chont	Cliont 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 Fleid Representative
Enviracon	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 Thandled 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: 🔊

HWA Field Representative

HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES

Report# Item# Status

HWAGEOSCIENCES INC. Fax. 425-774-0108

19730-64th Avenue West, Suite 200

Lynnwood, WA 98036

Field Report No.: FR-012

Date (mm/dd/yy): 10/4/2007 HWA Project No.: 2007-132-23

HWA Task No.:

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

General C Environ	Chuck Hyatt					John H. "Jack" Carlock						
ma r	FIELD COMPA	CTION	TEST	r REP	ORT -	NUC	LEAR	METH	HOD			
MATE		compai										
	ECT IMPROVEMENT TESTED:				eld repo	ort						
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		or	Probe		octor/Ric		nall)	Der		Moist.	Comp	
Test		Depth	Depth		Max.	Opt.	Over		Dry	Moist.	Field	Spec
No.	Detailed Test Location	B.G.**	(in)	#	Dens.	Moist.	Size %	pcf	pcf	%	%	%
1	Excavation A-3. Northern 2/3, 50ft E. of W-Bank, 50ft S. of N-Bank	-1.5ft	12 in	UPS 5-3	137.4	7.1	25.0	146.3	135.6	7.9	99	90
2	faxcavation A-3. Northern Half, 12ft W. of E-Bank, 50ft S. of N-Bank	-3.5ft	12 in	UP\$ \$-3	137.4	7.1	25.0	147.3	135.1	9.1	98	90
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Test Mo	thod X ASTM D2922/D3017 (50	-1 ii)		ASTM	D2950 (a	sphalt)	<u> </u>		Other:		11	
Densor	#VI		3430		Troxler	3411-B			СРИ М	Ç1-DR-P		
Tr (1/4 4)		– y Standar			**		e Standa	rd Count	- : 631			
"Lab C	party				– d Procto					-		
	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 re Completed By: John H. "Jac	sults indic k" Carlo	ate com ock	paction b	elow spe	Revie	wed By	Tony	Martin			-



19730-64th Avenuc West, Suite 200

Lynnwood, WA 98036 Tel. 425-774-0106

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

HWA Project No.: HWA Task No.:

Project Name	Location or Address of Project	Permil No.
Chevron Edmonds	Edmonds, WA	
CIDAL	Client Representative	Woather
Envirocon	Tom Schnobrich	Cloudy/Rain/Cool
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager
The state of the s		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, singledrum 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;

HWA Field

SUMMARY OF UNRESOLVED ISSUES

Report# Item# Status

na

19730-64th Avenue West, Suite 200

Lynnwood, WA 98036 Tel. 425-774-0106

Field Report No.: Date (mm/dd/yy):

FR-013 10/9/2007

HWA Task No.:

HWA Project No.: 2007-132-23

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

Client	TIME THE STATE OF	1	resentativ					Weather	114m - 12m	. ,		
Enviro	con						Cloudy/Rain/Cool HWA Project Manager					
Design A	uthority (engineer or architect of record)	Design Authority Representative HWA Project Manager Tony Martin										
YAS-1	Contractor	General Contractor Representative ITWA Field Representative						nlative				
Enviro		Chuck		represent	2014		i			" Carlo	ck	
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	FIELD COMPA					- หมู่	LEAR	INIE II	HOD			
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PROJ.	ECT IMPROVEMENT TESTED:	sco ac	compai	nying fie	eld repo	ort						
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		or	Proba	(Pro	octor/Ric		hall)	Der	sity	Moist.	Comp	action
Test		Depth	Depth		Max.	Öpt.	Over	Total	Dry	Moist.	Field	Spec
No.	Detailed Test Location	B.G.**	(in)	#	Dens.		Size %	pcf	pcf	%	%	%
	Excavation A-3. Northern 1/3, 25ft E.	Final		UP\$				144.4	134.7	7,2	98	90
1	of W-Bank, 45ft S. of N-Bank	Grade	12 in	\$-3	137.4	7.1	25.0	144.4	134.7	7,2	90	30
2	Excavation ≈A-3/B13 boundary, 60ft W. of E-Bank, 30ft N. of S-Bank	-2.5 <i>î</i> l	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 \$-3	137.4	7.1	25.0	141.5	131.1	7.9	95	90
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Test M	othod X ASTM D2922/D3017 (so	II)		_ASTM ()2950 (a	sphalt)			Other:			
Densor	moter; X Troxler 3440	Troxler	3430		_Troxler	3411-B			_CPN M	C1-DR-F		
	Sorial #: 29276 Densit	— y Standoi	d Count.	2555	_	Molstur	e Standa	rd Count	: 629	-		
*Lab C				_	d Proctor		alical Dec	reily /Dia	۵۱			

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Test Method	X	ASTM D2922/D30)17 (soll)		ASTM D2950 (a	sphalt)		Olher:	1178
Densometer:	X	Troxler 3440	Ti	roxler 3430	Troxler	3411-B		CPN MC1-DR-F	
	Sorial #:	29276	Density St	andord Count.:	2555	Molsture Star	ndard Count:	629	
*Lab Control:	X	Standard Proctor			Modified Proctor				
Accompanying	Test location	Asphalt Marshall ons and elevalions provides addition being placed. Bo	are appro	on. **Depth B.	G. Indicates depti	nly for a specifi h below grade.	c test location	e) In and to a limited d Ins the design finish	lepth. grade of the
	Comple	ted Bv: John I-	l. "Jack" i	Carlock		Reviewed I	By: Tony N	<i>Martin</i>	

19730-64th Avenue West, Suite 200

Lynnwood, WA 98036 Tel. 425-774-0106

Field Report No.: Date (mm/dd/yy):

FR-014 10/11/2007

HWA Project No.: HWA Task No .:

2007-132-23

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	Clicnt Representative	VVcather
Enviracon	Tom Schnobrich	Cloudy/Rain/Cool
Dusign Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager
	ļ ķ	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, singledrum 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:

HWA Field Rebrešentativ

HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES

Report# Item# Status

19730-64th Avenue West, Suite 200

Lynnwood, WA 98036 Tel. 425-774-0105

Field Report No.: Date (mm/dd/yy):

FR-014 10/11/2007 2007-132-23

HWA Project No.: HWA Task No.:

 Permit No.
Weather
Cloudy/Rain/Cool

Location or Address of Project Project Namo Edmonds, WA Chevron Edmonds Client Representative Client Tom Schnobrich Envirocon HWA Project Manager Design Authority Representative Design Authority (engineer or architect of record)

	PACTALATES HIS	Clander C	antrastes !	Japanena	ativo			HIMA Field		nlalive		
General C Enviro		General Contractor Representative Chuck Hyatt						HWA Field Representative John H. "Jack" Carlock				
Date of the state	FIELD COMPA			REP	ORT -	NUC	LEAR	METI	dOb			777111111111111111111111111111111111111
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	ECT IMPROVEMENT TESTED:				eld ropc	ort						
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		OL PURE	Probe	(Pro	octor/Ric		hall)		isity	Moist.	1	action
Test	·	Depth	Depth	Ü	Мах,	Opt.	Over	Total	Dry	Moist.	Field	Spec
No.	Detailed Test Location	B.G,**	(in)	#	Dens.	Moist.	Size %	pcf	pcf	%	%	%
1	Fxcavation A-3. Gentral Arca, 100/t E. of the fence at sample point DD.	-1 <i>It</i>	12 in	UP\$ \$-3	137,4	7.1	25.0	139.1	128.5	8.3	94	90
2	Excavalion A-3. Central Area, 100ft E. of the fence at sample point EE.	Grade	12 in	UPS \$-3	137.4	7.1	25.0	140.1	129.8	7.9	94	90
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Tost M	ethod X ASTM D2922/D3017 (sc	oil)		ASTM	D2950 (a	sphalt)			_Other:			
Denso	meter: X Troxler 3440	Troxler	3430	-	Troxler	3411-B			_CPN M	IC1-DR-P		
	Serial #: 2927G Densi	ty Standa	rd Count.	: 2550		Moistu	re Standa	ırd Coun	t: <u>631</u>	_		
*Lab C	ontrol: X Standard Proctor				d Procto							
	Asphalt Marshall Densit	у	T'sat'	Asphal	t Maximu	ım Theor	etical Der	nsity (Ric	on and h	ı a limilad	l denth	
COMM Accorr	TENTS: Test locations and elevations are a panying field report provides additional info	pproximat mation. *	*Depth 🗄	I.G. indic	ates dept	h below	grade. G	rade me	ans the c	lesign fini	sh grade	of the

, -														127
Tost Method	X	ASTM D2922/D3	017 (soil)			ASTM D	2950 (as	phalt)			Other:			
Densometer:	X	Troxler 3440		Troxler 3	430		Troxler 3	3411-B	,		CPN MC	11-DR-P		
	Serial #:	29276	Density	Standard	Count.:	2550		Moisture	Standar	d Count:	631			
*Lab Control:	X_	Standard Proctor		,		Modified	l Proctor							
Accompanying	Test locati	Asphalt Marshall ons and elevations t provides addition I being placed. Bo	are appi al Informi	ation. **[Depth B.	provide: G. indica	tes depth	ly for a sp below gi	pecific tes rade. Gra	st locatio	n and to :	a limited s sign finis	depth. h grade (of the
	Comple	eted By: John H	l, "Jack	" Carlo	ck	,		Reviev	ved By:	Топу Л	/artin		· · · · · · · · · · · · · · · · · · ·	_



19730-64th Avenue West, Suite 200

Lynnwood, WA 98036

Tel. 425-774-0106

Field Report No.:

FR-015 10/16/2007

Date (mm/dd/yy): HWA Project No.:

2007-132-23 HWA Task No.:

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

FIELD REPORT

SUMMARY OF FIELD TIME SPENT ON PROJECT TODAY:

Start Travel: 1045 Arrived at Site: 1100 Departed Site: 1130 End Travel: 1200 First Site Visit:

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:

HWA Field Représentati

Reviewed:

HWA Project Engineer or Reviewe

SUMMARY OF UNRESOLVED ISSUES

Report# Item# Status



19730-64th Avenue West, Suite 200 Lynnwood, WA 98036

Tol. 425-774-0106

Field Report No.: Date (mm/dd/yy):

FR-016 10/16/2007 2007-132-23

HWA Project No.: HWA Task No.:

Project Name	Location of Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	Client Representative	Weather
Envirocon	Tom Schnobrich	Cloudy/Cool
Dusign Authority (engineer or architect of record)	Dosign Authority Representative	HWA Project Manager
		Tony Martin
General Contractor	General Controctor 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 Everetl, 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 Repa

HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES

Report# Item# Status

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19730-64th Avenue Wost, Suite 200

Lynnwood, WA 98036 Tul. 425-774-0106

Field Report No.: Date (mm/dd/yy):

FR-017 10/24/2007

HWA Project No.:

2007-132-23

HWA Task No.;

Project Name	Location or Address of Project	Permil No.
Chevron Edmonds	Edmonds, WA	
Client	Client Representative	Weather
Enviracon	Tom Schnobrich	Cloudy/Rain/Cool
Design Authority (engineer or architect of record)	Dusign Authority Rupresentative	HWA Project Manager
		Tony Martin
Conural 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:

HWAT icld-Kepresentative

HWA Project Engineer or Reviewed

SUMMARY OF UNRESOLVED ISSUES

Report# Item# Status

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19730-64th Avenue West, Suite 200

Lynnwood, WA 98036 Tel. 425-774-0106

Field Report No.: Date (mm/dd/yy):

FR-017 10/24/2007

HWA Project No.:

2007-132-23

HWA Task No.:

Project Name	Location or Addices 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
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see accompanying field report PROJECT IMPROVEMENT TESTED:

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Į.	,	or	Probe	(Pro	octor/Ric	ce/Mars	hall)		rsily	Moist.	Comp	Compaction	
Tost		Depth	Depth	(I)	Max.	Opt.	Over	Total	Dry	Moist.	Field	Spec	
No.	Detailed Test Location	B.G.**	(in)	#	Dens.	Moist.	Size %	pcf	pcf	%	%	%	
1	Excavation B-8, 25ft SE of boundary fence at sample point H.	-2/1	12 in	UPS S-3	137.4	7.1	25.0	139.1	124.9	11.7	91	90	
2	Excavation E-8 . 30/L SE of sample point J .	Grada	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 în	UPS S-3	137.4	7.1	25.0	139.2	126.5	10.0	92	90	
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Teal Meti	hod	X	ASTM D2922/D3	017 (soil)			ASTM D	2950 (as	phalt)			Other:	1		
Densomo	eter;	X	Troxler 3440	PT - 10-11	Troxler 3	3430		Troxier 3	3411-B	-	·	CPN MC	パ-DR-P		
		Serial #:	29276	Density	Standard	d Count.:	2551		erujeioM	Standard	Count:	627			
*Lab Con	trol:	X	Standard Proglar				Modified	Proctor							
Asphalt Marshall Density 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.									of the						
		Comple	ted By: John F	ł. "Jack	" Carlo	ck			Review	red By:	Tony M	lartin		L.	

19730-64th Avenue West, Suite 200

Lynnwood, WA 98036 Tel. 425-774-0106

Field Report No.:

FR-018 10/30/2007

HWA Project No.:

Date (mm/dd/yy): 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 Managur
including the distribution of Englishand of Fourth		Tony Martin
General Contractor	General Contractor Representative	HWA Field Representative
Enviração	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:

HWA Field Representative

HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES

Report# Item# Status

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19730-04th Avenue West, Suite 200

Lynnwood, WA 98036 Tel. 425-774-0106

Field Report No.: FR-018 Date (mm/dd/yy):

10/30/2007

HWA Project No.: 2007-132-23

HWA Task No.:

The state of the s	Location or Address of Project	IPermit No.
Project Name Chevron Edmands	Edmonds, WA	
Client	Client Representative	Wealher
Envirocon	Tom Schnobrich	Cloudy/Cool
Design Authority (engineer or architect of record)	Design Authority Representativo	HWA Project Manager
		Tony Martin
Goneral Contractor	Goneral Contractor Representative	HWA Field Representative
Envirocan	Chuck Hyatt	John H. "Jack" Carlock

Client	S-P-II		resentativ					Veather Cool						
Enviro	СОП		chnobri					Cloudy/Cool RWA Project Manager						
Design Ad	utharity (engineer or architect of record)	Design Au	Ilhority Rep	oresentaliv	/C		ļ		rony Martin					
	A STATE OF THE STA	Coperal C	antractor F	Corresent	ative					Representative				
Goneral C Enviro		Chuck		(-picson	-117			John H			sk			
L-11711 (2)	5-11-11 PR A-7-0-15-15-15-15-15-15-15-15-15-15-15-15-15-			T REPORT - NUCLEAR METHOD										
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MATE	RIAL BEING PLACED: <u>see ac</u>	compai	nying fie	eld repo	ort									
PROJE	ECT IMPROVEMENT TESTED:	see ac	compar	nying fic	eld repo	ort					· · · · · · · · · · · · · · · · · · ·			
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		or	Probe	(Pro	octor/Ric		hall)		sity	Moist.	1	action		
Tout		Depth	Depth	ID.	Max.	Opt.	Over		Dry	Moist.	Field	Spec		
Test No.	Detailed Tost Location	B,G.**	(in)	#	Dens.	Moist.	i I	1	pcf	%	%	%		
140.	Excavation A-4. 100ft SE of	1		UPS					400.4		06	00		
1	boundary fence at sample point G.	Grade	12 in	S-3	137.4	7.1	25.0	140.7	132.4	6.3	96	90		
	Excavation A-4. 90ft SE of		1	UPS	107.4	7.4	25.0	144.6	133.6	8.2	97	90		
2	boundary fence at sample point l.	Grade	12 in	5-3	137.4	7.1	20.0	144.0	755.0	0.2	97	30		
<u> </u>	Excavation B-8, 30ft SE of sample	74	d 7 in	UP\$	137.4	7.1	25.0	142.4	130.1	9.4	95	90		
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Test Mollind X ASTM D2922/D3017 (soil)					D2950 (a				_Other:					
Densometer: X Troxler 3440 Troxler 3430					_Troxler	3411-B			_CPN M	C1-DR-P	ı			
	La constant de la con	ty Standa	rd Count.	: 2551	_	ulaioM	rc Slanda	ard Count	: 627					
*Lab Control: X Standard Proctor					- ed Procla	٢								
Lau C	Action The Property of the Pro	_			etical De	nsity (Rid	e)							
C CANA	Asphalt Marshall Densit ENTS: Test locations and clevations are at	as mixorar	e. Testin	a provid	es data o	nly for a	specific to	est locati	on and to	a limited	depth.			
۱۱۷۱۷ کی جی	response field connect provides additional infor	mation *	*Dooth B	.G. indic	atos deni	h below	grade. G	rade mea	ans the d	esign fini	sh grade	of the		

	THE PERSON NAMED IN	Manual Control of the	AND RES .V.		HARACA.	X	
Test Mellind	Х	ASTM D2922/D30	017 (soil)	AS	STM D2950 (as	phall)	Other:
Densometer:	X	Troxler 3440	Traxler	3430	Troxler (3411-B	CPN MC1-DR-P
	Sorial #:	29276	Density Standar	d Count.: 20	551	Moisture Standard Count:	627
*Lab Control:	×	Standard Proctor		M	odified Proclar		
Δετοιροσονίσο	Test locatio	Asphalt Marshall one and clavalions provides addilion being placed. Bo	are approximate al information. *	a. Testing pr Dopth B.G.	rovides data on indicatos depth	n Theoretical Density (Rice ily for a specific test locatio i below grade. Grade mea cified value.	e) n and to a limited depth. ns the design finish grade of the
,,		ted By: John F				Reviewed By: Tony N	Martin



19730-64th Avonue West, Suite 200

Lynnwood, WA 98036 Tel. 425~774-0106 Fax, 425-774-2714 Field Report No.: Date (mm/dd/yy): FR-019 10/31/2007 2007-132-23

HWA Project No.: HWA Task No.:

HWA	GEOSCIENCES IN	C.

Project Name	Location or Address of Project	Permit No.			
Cheyron Edmonds	Edmonds, WA				
Chorn	Client Representative	Weather			
Envirocon	Tom Schnobrich	Partly Cloudy/Cool			
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager			
1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2		Tony Martin			
General Contractor	General Contractor Representative	HWA Field Representativo			
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: \ white

HWA Field Représentative

FOR JACK Reviewed:

HWA Project Engineer or Reviewe

SUMMARY OF UNRESOLVED ISSUES

Report# Item# Status

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19730-64th Avenue West, Suite 200

Lynnwood, WA 98036 Tel. 425-774-0106

Field Report No.: Date (mm/dd/yy):

FR-019 10/31/2007

HWA Project No.: 2007-132-23

HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Cheyron Edmonds	Edmonds, WA	
Client	Client Representative	Weather
Envirocon	Tom Schnobrich	Partly Cloudy/Cool
Dusign Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager
Letting to the far all was or a source of the same		Tony Martin
General Contractor	General Contractor Representative	HWA Fleid Representative
Envirogen	Chuck Hyatt	John H. "Jack" Carlock

Client	,		nesemany					Marthy Claudy/Card					
Envirod	dan		chnobri			<u></u>		Partly Cloudy/Cool HWA Project Manager					
ມີບູ້ຮູ້ເອກ ∧ເ	illiority (engineer or architect of record)	Design Ar.	nhority Reg	oresentativ	re					er			
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<u>Enviro</u> g	con	Chuck								00,100	711		
	FIELD COMPAC	CTION	TEST	(REP	ORT -	NUC	LEAR	MEII	HOD				
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PROJE	CT IMPROVEMENT TESTED:	see ac	compai	ıying fie						,			
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		or	Probe			ce/Marsi			rsily	Moist.	Comp		
Test	<i>,</i>	Depth	Depth	ID :	Max.	Opt.	Over	Total	Dry	Moist.	Field	Spec	
No.	Detailed Test Location	B,G,**	(in)_	#	Dens.	Moist.	Size %	pcf	pcf	<u>%_</u>	%	%	
1	Excavation B-8, 25/t SE of fence at sample point F/G.	Grade	12 in	UP\$ \$-3	117.3	11.2	30.0	127.0	114.2	11.2	97	90	
2	Excavation B-8. 40IL 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	
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Test M	othort X ASTM D2922/D3017 (so	_ASTM	D2950 (a	sphalt)			_Other:						
Densometer; X Troxler 3440 Troxler 3430					Troxler	3411-B			CPN M	C1-DR-P			
Serial #: 29276 Density Standard Count					_	Moistur	e Standa	ard Count	t: <u>625</u>				
*Lab C	The state of the s		1.00	ed Procto	г								
	Asphalt Marshall Density	/		Asphal	t Maximu	ım Theor	etical De	nsity (Ric	ce)				

1						W		1444
Test Mothort	X	ASTM D2922/D3	017 (soil)	· ·	ASTM D	2950 (asphalt)		Other:
Densometer:	X	- Troxler 3440	T:	roxler 3430		Troxler 3411-B		.CPN MC1-DR-P
	Serial #:	29276	Density St	tandard Count.:	2554	Moisture Standard	d Count:	625
*Lab Control:	Х	Standard Proptor			Modified	Proctor		
Asphalt Marshall Density Asphalt Maximum Theoretical Density COMMENTS: Tost locations and elevations are approximate, Testing provides data only for a specific Accompanying field report provides additional information. **Depth B.G. indicates depth below grade, current type of fill material being placed. Bolded results indicate compaction below specified value.								n and to a limited depth.
••		eled Bv: John F				Reviewed By:	Tony I	Martin

FAXMITTAL

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

Fax: 425-774-2714

Date:

November 7, 2007

From:

Tony Martin

IIWA's Project #: 2007-132-23

Sent To....

Company:	Envirocon	
	Tom Schnobrich	7- Will
Fax No.:	503-285-6205	W 4
	503-285-6164	1 A A A A A A A A A A A A A A A A A A A

Number of Pages: 7 (including cover sheet)

78/10/2017		
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



19730-64th Avenue West, Soile 200

Lynnwood, WA 98036

Tel. 425-774-0106

Field Report No.:

FR-019 REVISED

Date (mm/dd/yy): HWA Project No.: 10/31/2007 2007-132-23

HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	Clicnt Representative	Woalher
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 Rupresenjative
Enviracon	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:

HWA Project Engineer/or

SUMMARY OF UNRESOLVED ISSUES

Report# Ilem# Status

19730-64th Avenue West, Suite 200

Lynnwood, WA 98036 Tel. 425-774-0105

Field Report No.: Date (mm/dd/yy):

FR-019 REVISED

10/31/2007 HWA Project No.: 2007-132-23

HWA Task No.:

Project Name	Localion or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Chent	Client Representative	Weather
Envirocon	Tom Schnobrich	Partly Cloudy/Cool
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager
and office to transfer the state of the stat		. Tony Martin
General Contractor	General Contractor Representative	I IWA Field Representative
Enviracon	Chuck Hyatt	John H. "Jack" Carlock

Enviro	con	Tom Schnobrich							Partly Cloudy/Cool						
Design A	uthority (engineer or architect of record)	Deslgn ∧ı	Ilhorily Re	presentati	/e		Ì	HWA Project Manager Tony Martin							
	Contractor	Gorges C	cneral Contractor Representative						HWA Field Representative						
Enviro		Chuck		John H. "Jack" Carlock											
Lat IVH O	FIELD COMPA			rDED	OPT.	MUC	LEAR	MET	HOD						
						1100		. !#!! 1 !	1.00						
			nying fle												
PROJ	ECT IMPROVEMENT TESTED:	see ac	compai	nying fi	eld repo	ort									
	The court of the c	Elev'n			Lab C	ontrol*		F	ield Te	st	1	Relative			
		or Probe (Proctor/Rice/Marshall)								Moist.		action			
Test		Depth	1 ' 1	1	Max.	Opt.	Over	Total	Dry	Moist.	Field	Spec			
No.	Detailed Test Location	B.G.**	(in)	#	Dens.	Moist.	Size %	pcf	pcf	%	%	%			
1	Excavation B-8, 25ft SE of fence at sample point F/G.	Grado	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.	Grada	12 in	AG-1	117.3	11.2	30.0	126.0	113.8	10.7	97	90			
3															
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Test M	1 c nod X ASTM D2922/D3017 (50	<u> </u>	-	MTSA	D2950 (a	aphall)			Other:		,	17			
Denso		", Troxler	3430	_	Troxler	-		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	CPN M	C1-DR-P					
POHOU		_	rd Count.	2554	-		re Standa	ard Count							
*Lab C		, – 11311413	, a count.		 id Proctoi					-					
	Asphalt Marshall Density				t Maximu	m Theor	etical De	nsity (Ric	:e)						
COMN	MENTS: Test locations and elevations are apparaging field report provides additional infor	proximat	c, Testin *Depth B	g provide G. indle	es dala o ales dept	nly for a h below	specific t grade, G	est locati Irade me:	on and to ans the d	a limited esign fini	deplh. sh grade	of the			

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Test Melhod	X	ASTM D2922/D36)17 (soil)		_ASTM [)2950 (as	iphall)	7877		Other.		
Densometer:	X	Traxler 3140	Trox	ler 3430		Troxler 3	3411 _" B			CPN MC1	I-DR-P	
	Serial #:	29276	Density Stan	dard Count.	2554	_	Moisture	e Standard	d Count:	625		
*Lab Control:		Standard Proctor										
COMMENTS: \	Test location	l provides addition	i are approxim al Information	Troxler 3430 Troxler 3411-B CPN MC1-DR-P Standard Count.: 2554 Moisture Standard Count: 625 Modified Proctor Asphalt Maximum Theoretical Density (Rice) oximate. Testing provides data only for a specific test location and to a limited depth. ation. "Depth B.G. indicates depth below grade. Grade means the design finish grade of the lits indicate compaction below specified value.								
	Comple	ted By: John F	I. "Jack" Ca	rlock			Review	ved By:	Tony I	√arlin		



19730-64th Avanua West, Suite 200

Lynnwood, WA 98036 Tel. 425-774-0106

Field Report No.: Date (mm/dd/yy): FR-020 11/5/2007

HWA Project No.:

2007-132-23 HWA Task No.:

Project Name	Location or Address of Project	Pernit No.
Chevron Edmonds	Edmonds, WA	
Client	Client Representativo	Wealher
Envirocon	Tom Schnobrich	Partly Cloudy/Cool
Design Authority (engineer or architect of record)	Dosign Authority Representative	HWA Project Manager
Design Millions (eliginates of Alonnost elization)		Tony Martin
General Contractor	General Contractor Representative	HWA Field Representative
Enviracon	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:

HWA Project Engineer or ⊈e}vi€wcr

SUMMARY OF UNRESOLVED ISSUES

Report# Item# Status

19730-64th Avenue West, Suite 200

Lyrinwood, WA 98036 Tel. 425-774-0106

Field Report No.: Date (mm/dd/yy):

FR-020 11/5/2007 2007-132-23 HWA Project No.:

HWA Task No.:

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

Enviro	20(1)	CHITODH					HWA Project Manager						
Design Au	thority (engineer or architect of record)	Design Authority Representative						Tony Martin					
		General Contractor Representative						HWA Field Representative					
General C		Chuck		John H. "Jack" Carlock									
Enviro	COIT					KII I CO							
	FIELD COMPAC	CHON	IES	KEP	ORI-	NUC	LEAK	IAIC	עטר				
MATE	RIAL BEING PLACED: 500 ac	compai	nying fie	eld repo	ort					J			
	ECT IMPROVEMENT TESTED:	see aç	compai	nying fi	eld repo	ort							
	Control of the contro			, X,X	Lab C				ield Tes		Rela	tivo	
		Elev'n		(17)			lanii)		sity	Moist.	Comp		
		or Probe (Proctor/Rice/Marshall) Depth Depth ID Max. Opt. Over						Total		Moist.	Fleld	Spec	
Test		Depth	Depth	it	Max.		Size %		pcf	%	%	%	
No.	Detailed Tost Location	B,G,**	(in)	#	Dens.	MOIST.	3126 76	70,					
1	Excavation B-20 Extreme SE Corner.	-6ft	12 in	AG-1	117.3	11.2	30.0	124.8	115.G	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 castern bank.	-3ft	12 in	AG-1	117.3	11.2	30.0	121.0	114,3	5,8	97	90	
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11	THE RESIDENCE OF THE PROPERTY	<u> </u>					ļ				<u> </u>	ļ	
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11-10-11 A	ethod X ASTM D2922/D3017 (so	ii/		ASTM	D2950 (a	sphalt)			Other;				
Test M	www.	"/ Traxlei			Troxica				– CPN M	IC1-DR-P	ì		
Donso		_					re Standa	ard Cour					
	Serial #: 29276 Densil	y Standa	ird Count				ie danu	aid Coun	. <u>vev</u>				
"Lab C	control: X Standard Proctor				ed Proeto								
	Asphalt Marshall Density	,		Aspha	it Maximu	ım Theo	ctical De	nsily (Rid	e)				

Test Method	X	ASTM D2922/D3	017 (soil)	ASTM D2950 (asp	halt)	Other;
	X	Troxler 3440	Troxler 3430	Troxicr 3/	411-B	CPN MC1-DR-P
	Serial #:	29276	Density Standard Count.:	2554	Moisture Standard Co	ount: 625
*Lab Control:	×	Standard Proctor	<u> </u>	Modified Proctor		
COMMENTS: T	field renari	romides addition	Densily s are approximate. Tosling nal Information. **Depth B. olded results indicate comp	G, indicates depin	DEION BLYCE. GINGE	(Rice) ocation and to a limited depth. I means the design finish grade of the
					Davinsand Dur To	any Mortin

Completed By: John H. "Jack" Carlock

Reviewed By: Tony Martin

19730-64th Avenue West, Suite 200

Lynnwood, WA 98035 Tel. 425-774-0106

Field Report No.: Date (mm/dd/yy):

FR-021 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	Cliont Representative	Weather
Envirocon	Tom Schnobrich	Cloudy/Cool
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager
		Tony Martin
General Contrictor	General Contractor Representative	HWA Field Representative
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

Client	77. 840	Tanana and Tanana							Weather						
Enviro		Tom Schnobrich						Cloudy/Cool HWA Project Manager							
Dosign At	thority (engineer or architect of record)	Design Authority Representative						Tony Martin							
General C	on steel as	Caparal C	Contractor	Represent:	alive			HWA Field Representative							
Enviro		General Contractor Representative Chuck Hyaft						John H. "Jack" Carlock							
		CTION TEST REPORT - NUCLEAR METHOD													
						NUC	LEAR	14475 1 1	пор						
MATE	RIAL BEING PLACED: see ac	compa	nying fi	eld repo	ort										
PROJE	ECT IMPROVEMENT TESTED:	see ac	compa	nying fie	eld repo	ort									
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		or	l Probel	(Pro	octor/Ric		nall)		isily	Moist.		action			
Test		Dopth	' '	ID	Max.	Opt.	Over	Total	Dry	Moist.	Field	Spec			
No.	Dotailed Test Localion	B.G.**		#	Dens.		Size %		pcf	%	%	%			
140.	Excavation B-20 Extreme SE							•			0.0				
1	Corner.	-3.5ft	12 in	ΛG-1	117.3	11.2	30.0	121,6	112.1	7.9	96	90			
2	Excavation A-1. Grid lines H at 20 (contral area of A-1).	-4ft	12 in	AG-1	117.3	11.2	30.0	123.8	116.4	6.4	99	90			
3	TYA FA														
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Tost M			2400	- MO VI					_	C1-DR-P					
Densor		Troxler			_Troxler		AL 1		_	○ 1P(Y-)					
	11/10/01/1-1-1	y Standai	rd Count,				e Standa	ra Count	. 630	_					
*Lab C	ontrol: X Standard Proctor			_ Modifie	d Proclar	-									
	Asphalt Marshall Density	/	*	Asphal	t.Maximu	m Theore	etical Der	sity (Ric	e)						
COMM Accorn	ENTS: Test locations and elevations are appaying field report provides additional infor	proximate	e. Toslin *Depih B	g provida .G. indica	es data or otes dept	nly for a ક h below લ	specific (d grade, G	st location rade mea	on and to ans the d	a limited esign finis	depth. sh grade	of the			

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Tast Metho	od X	ASTM D2922/D3	017 (soil)			ASTM D2	950 (asp	ahalt)		Other:		
Densomek	ert X	Troxler 3440		Troxler 3	3430	T	roxler 3	411-B		CPN MC	:1-DR-P	
	Scrial #:	29276	Density	Standard	Count.;	2552	1	Moisture Standard	d Count:	630		
*Lab Contr	rol: X	Standard Proctor				Modified F	Proctor					
Asphalt Marshall Density 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

HWAHWA GEOSCIENCES INC.

FAXMITTAL

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

Fax: 425-774-2714

Date:

November 13, 2007

From:

Tony Martin

HWA's Project #: 2007-132-23

Sent To....

	CACITE TO ****	A PARTIES OF THE PART	l
1	Company:	Envirocon	1
	Attention:	Tom Schnobrich	1
		503-285-6205	1
	Phone No.:	503-285-6164	

Number of Pages: 7 (including cover sheet)

		41-1-10-4(P.0)V	
	ORIGINAL TO FOLLOW BY MAIL	Yes	X No
1	O ************************************		

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 HWAGEOSCIENCES INC.

19730-64th Avenue West, Suite 200

Lynnwood, WA 98036

Tel. 425-774-0108

Fax, 425-774-2714

Field Report No.:

FAX NO. 4257742714

FR-022 11/7/2007

Date (mm/dd/yy): HWA Project No.:

2007-132-23

HWA Task No.:

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

FIELD REPORT

SUMMARY OF FIELD TIME SPENT ON PROJECT TODAY:

Start Travel: 1530 Arrived at Site: 1543 Departed Site: 1610 End Travel: 1621 First Site Visit:

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 fool, 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 lime chargeable to this job is 1.5 hours including the time for writing this report.

SIGNATURES:

Signed: -

HWA Field Representative

HWA Project Engineer or Reviews

SUMMARY OF UNRESOLVED ISSUES

Report# Item# Status

nana

19730-64th Avenue West, Suite 200

Lynnwood, WA 98036 Tel. 425-774-0106

Field Report No.: Date (mm/dd/yy):

FR-022 11/7/2007 HWA Project No.: 2007-132-23

HWA Task No.:

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

1988 BU MINDOURY (BURNINGS) OF BUSINESS AS 1 = 200 = 3			Tony Martin									
Seneral Contractor			General Contractor Representative General Contractor Representative John H. "Jack" Carlock									
Envirod		CTION TEST REPORT - NUCLEAR METHOD										
*******	FIELD COMPA	CTION	TEST	REP	ORT -	NUC	LEAR	METH	(QD		•	
4 A T'EE'	RIAL BEING PLACED: See at	ccompai	nying fie	eld repo	ort							
	CT IMPROVEMENT TESTED:				eld repo	rt		.,				
- FQOJE	OT HALF LOOK PLANE (4)	Elev'n			Lab Co			F	ield Tos	st	Rela	
		OL CIGALI	Probe	(Pro	octor/Ric		nali)	Der		Moist.	Comp	
- 		Depth	i ' I	ID	Мах.	Opt.	Over	Total	Dry	Moist.	Field	Spec
Test No.	Detailed Test Location	B.G.**		11	Dens.	Moist.	Size %	pcf	pcf	%	%	%
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, Extremo SE Comer. (No Stationing Available)	-2ft	12 In	AG-1	117.3	11.2	30.0	118.9	112.1	6.1	96	90
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13	1,10		-LICOCHISH W-11 (-				U		Other	<u></u>	- A STANKALA	
Test N	Melhod X ASTM D2922/D3017 (ASTM	1 D2950 (_	P		MC1-DR-	ല	
Dense	ornoter: X Troxler 3440	Troxionsily Stand	or 3430 land Cour	nt.: 2548	Troxle	er 3411-E Moist	i ure Stanc	dard Cour			,	
	Control: X Standard Proctor			Modif	 ied Proct alt Maxim	um Tha	oretical D	ensilv (R	ice)	,		
	Asphalt Marshall Deni MENTS: 'Test locations and elevations are	sily _{- anotoxim}	ale. Test			I fam.	a anaoifia	tast loca	tion and	to a limite	ed depth.	ر_ ڈ دار ہ
Vcco	MENTS: Test locations and elevations are mpanying field report provides additional in	formation. I results in	**Depth dicate co	B.G. indi	icates do below sp	pth belov occified v	v grade. value.	Grade m	eans the	design fi	nish grad	e of the
Accompanying field report provides additional information. Depart to be a specified value. current type of fill material being placed. Bolded results Indicate compaction below specified value. Completed By: John H. "Jack" Carlock Reviewed By: Tony Martin												

esting provides data only for a specific test location and to a limited depth. th B.G. indicates depth below grade. Grade means the design finish grade of the compaction below specified value.
Reviewed By: Tony Martin



19730-64th Avenue West, Suite 200

Lynnwood, WA 98036 Tel. 425-774-0106

Field Report No.: Date (mm/dd/yy): FR-023 11/9/2007

2007-132-23 HWA Project No.:

HWAGEOSCIENCES INC. Fax. 425-774-2714

HWA Task No.:

No. of the second secon	Location or Address of Project	Permit No.
Project Name	Edmonds, WA	
Chevron Edmonds	Client Representative	Weather Cool
Environn	Tom Schnobrich	Cloudy/Cool HWA Project Manager
Design Authority (engineer or architect of record)	Design Authority Representative	Tony Martin
460 740	Genoral Contractor Representative	IHWA Field Representative
Chaneral Contractor	Chuck Hyatt	John H. "Jack" Carlock
(Envirocon)	Officion ray but	

FIELD REPORT

SUMMARY OF FIELD TIME SPENT ON PROJECT TODAY:

Start Travel: 1510 Arrived at Site: 1520 Departed Site: 1155 End Travel: 1607 First Site Visit:

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

DETAILS 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

HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES

Report# Item# Status

ran

19730-64th Avenue West, Suite 200 Lynnwood, WA 98036 Tel. 425-774-0106

Field Report No.: FR-023 Date (mm/dd/yy): HWA Project No.:

11/9/2007 2007-132-23

HWA Task No.:

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

Tom Schnobrich			Cloudy/Cool								
nvirocon	rOCON HWA Project Manager			er							
sign Authority (engineer or architeol of record)	1					Tony Martin .					
eneral Contractor	General Contractor Representativo HWA Field Representativo			de							
Chuck Hyatt John H. "Jack" Carlock						<u>N</u>					
FIELD COMPA	CTION	TEST	REP	ORT -	NUC	LEAR	METH	4OD			
	ecompar	ndra Ve	ald reno	ort.							
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ROJECT IMPROVEMENT TESTED:	see ac	compar	nying fie	на гөрс	ort						
Name of the Parties o	Elev'n			Lab C				ield Tes		Rela	
	or	Probe	(Pro	ctor/Ric				sity	Moist.	Comp	
Tool	Depth	Depth		Мах.	Opt.	Over	Total	Dry	Moist.	Field	Spec
Test Detailed Test Location Detailed Test	B.G.**	(in)	#	Dens.	Moist.	Size %	pcf	pcf	%	%	%
No. Detailed Test Location Excavation A-4, Approximately 1508		12 in	AG-1	117.3	11.2	30,0	124.2	115.5	7.5	98	90
1 E. of Western fence @ Line "I".	Fill	12111	AG*/	111.0	11.50						
Excavation A-1/B-20. South East	Top of	12 in	AG-1	117.3	11.2	30.0	121.7	115.4	5.5	98	90
Corner, (No Sta. Available)	Fill	16.111	73.0		ļ. ''	<u> </u>		 	 		
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A CONTRACTOR OF THE PROPERTY O	<u>, l</u>		ARTM	D2950 (asphalit		H	Other:		annual field (Fig. 1)	
Test Method X ASTM D2922/D3017 (er 3411•B				AC1-DR-	Þ	
Densomoter: X Troxler 3440	- A STOREY	er 3430		roxid			lord Cour		TO SEE A SEE A		
Serial #: 29276 Den	sity Stand	ard Coun		-		ure Stanc	iato Coul	IL 000			
*Lab Control: X Standard Proctor				ied Proct							
1 11/4 A A	sity		Aspha	nixaM JI	um Theo	retical D	ensity (R	ice)	L 11-0-14-0	ed danth	
Asphalt Marshall Density COMMENTS: Test locations and elevations are Accompanying field report provides additional in	·		- a nonelle	rich only	only for a	a snecific	test loca	uon and 1	o a iimiiic	տ գորելը։	
COMMENTS: Test tocations and elevarians are	approxima	me. Test	III hinn	JUE USIE	_ 11_ b - 1	t way yo	Crade m	ans the	daslan fir	rish arad	le of the

Completed By: John H. "Jack" Carlock

Reviewed By: Tony Martin



19730-04th Avenue West, Suite 200

Lynnwood, WA 98036 Tel. 425-774-0106

Field Report No.: Date (mm/dd/yy):

FR-024 11/13/2007 2007-132-23 HWA Project No.:

HWA Task No.:

Figure of M. P. M. D. M.	Location or Address of Project	Permit No.
Project Name Chevron Edmonds	Edmonds, WA	Weather
Client	Client Representative	Clear/Cool
Envirocon Design Authority (engineer or architect of record)	Torn Schnobrich Design Authority Representative	HWA Project Manager
Design Authority (engineer of artificetral reserve)		Tony Martin
General Contractor	General Contractor Representative	HWA Field Representative John H. "Jack" Carlock
Envirocan	Chuck Hyatt	JOHN III. DOOR DELINE

FIELD REPORT

SUMMARY OF FIELD TIME SPENT ON PROJECT TODAY:

Start Travel: 0930 Arrived at Site: 0940 Departed Site: 1040 End Travel: 1052 First Sile Visit:

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. Tost 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: g HWA Field Representative

HWA Project Engineer or Reviews

SUMMARY OF UNRESOLVED ISSUES

Report# Item# Status na

FAXMITTAL

19730-64th AVE W 5TE 200 Lynnwood, WA 98036-5904 Tel. 425-774-0106

Fax: 425-774-2714

Date:

November 27, 2007

From:

Tony Martin

IIWA's Project #: 2007-132-23

Sent To....

	THE PART WAS A LIGHT CONTROL OF THE PART O	77761117
Company:	Envirocon	
Attention:	Tom Schnobrich	
	503-285-6205	
Phone No.:	503-285-6164	

Number of Pages: 3 (including cover sheet)

	4.9	3737	i
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



19730-64th Avenue West, Suite 200

Lynnwood, WA 98036 Tel. 425-774-0106

Fax. 425-774-2714

Field Report No.: Date (mm/dd/vv): FR-025 11/26/2007

HWA Project No.: 2007-132-23
HWA Task No.:

John H. "Jack" Carlock

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
Goneral Contractor	General Contractor Representative	HWA Fleid Representative

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.

Chuck Hyatt

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

Envirocon

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:

Reviewed:

HWA Project Engineer of Reviewer

SUMMARY OF UNRESOLVED ISSUES

Report# Item# Status

na n

19730-64th Avenue West, Suite 200

Lynnwood, WA 98036 Tel. 425-774-0106

Field Report No.: Date (mm/dd/yy):

FR-025 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	
Clicint	Client Ropresentative	Weather
Enviracon	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

	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Elev'n	Lab C	ontroi*		F	ield Te	st	Rela	ative		
		or	Probe		octor/Ric					Moist.		
Test	Fb. 4 -74 1 -75	Depth	Depth	*	Max.	Opt.	Over	Total	Dry	Moist.	Field	Spec
No.	Detailed Test Location	B.G.**	(in)_	#	Dens.	Moist.	Size %	pcf	pcf	%	_ %	%
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	Exervation 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, 35it 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
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Test Mot	hod	X ASTM D2922/D3017 (soil)				44	ASTM D2950 (asphall)					Other:				
Densome	eter:	X	Troxicr 3440	Ţ'r	oxler 340	30		Troxler 3	3411-B			CPN MC	1-DR-P			
	5	Scriul#;	29276	Density St	andard C	Count.:	2555		Moisture	Standar	d Count:	632	,			
*Lab Con	ıtral:	X	Standard Proctor		***	·	Modified	Proctor								
Accompa	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.															
	С	omple	led By: <u>John F</u>	ł. "Jack" (Carlock	ζ			Review	red By:	Tony N	/lartin		<u> </u>	•	

FAXMITTAL

19730-64th AVE W STE 200 Lynnwood, WA 98036-5904 Tel. 4Z5-774-0106

Fax: 425-774-2714

Date:

January 2, 2008

From:

Tony Martin

IIWA's Project #: 2007-132-23

Sent To ...

CAPTE I DATE		S PORT AND EAST AND AND AND AND AND AND AND AND AND AND	
Company:	Envirocon	COLOR MANAGEMENT TO THE COLOR OF THE COLOR O	_
Attention:	Tom Schnobrich	11110000000	_
Fax No.:	503-285-6205	PROBLEM ACCOUNTS	_
Phone No.:	503-285-6164		

Number of Pages: 7 (including cover sheet)

ORIGINAL TO FOLLOW BY MAIL	Yes	X No
1		

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.
HWA GEOSCIENCES INC.

19730-64th Avenue Wost, Suite 200

Lynnwood, WA 98036 Tel. 425-771-0106 Fax. 425-774-2714 Field Report No.: Date (mm/dd/yy):

FR-026 11/27/2007 2007-132-23

HWA Project No.: HWA Task No.:

Project Name	Location or Address of Project	Permit No,				
Chevron Edmonds	Edmonds, WA					
Client	Client Representative	Wealher				
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: ____x

HWA Field Representative

Reviewed:

HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES

Report# Item# Status

na n

19730-64th Avenue West, Suite 200

Lynnwood, WA 98036 Tel. 425-774-0106

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

HWA Project No.: HWA Task No.:

Project Namo	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	Client Representativu	Wealher
Envirocon	Tom Schnobrich	Clear/Cool
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager
Design y for the first of the second		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 neid report
PROJECT IMPROVEMENT TESTI	ED: see accompanying field report

	ATTI Justine	Elev'n				ontro *			ield Tes	Relative		
		or	Probe		ctor/Ric		V	Density		Moist.	Comp	
Tost		Depth	Depth	ID	Max.	Opt,	Over	Total	Dry	Moist. %	Field %	Spec %
No.	Detailed Test Location	B.G.**	(in)	#	Dens.	Moist.	Size %	pcf	pcf	70	-	70
1	Excavation 0-6, at grid line 17.5, 35ft south of B-6's northern bank	-5ft	12 ln	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. Contral 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
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Test Method X ASTM D2922/D3017 (soil)					, w	ASTM D	2950 (as	phalt)		Other:					
Densom	¢{er:	X	Troxler 3440	T	roxler 34	30		Troxlor 3	411-B		M	CPN MO	C1-DR-P		
		Serial #:	29276	Density S	tandard (Count.:	2555		Moisture	: Standar	d Count:	632	-		
*Lab Cor	ntrol;	X	Standard Proctor		_		Modified								
			Asphalt Marshall	Density	_		Asphalt Maximum Theoretical Density (Rice)								
Accorda	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.														
		Comple	eted By: <u>John F</u>	l. "Jack"	Carloc	k	-		Reviev	ved By:	Tony I	Martin			



General Contractor

Envirocon

19730-64th Avenue West, Suite 200

General Contractor Representative

Lynnwood, WA 98036

Tel. 425-774-0106

Field Report No.: Date (mm/dd/yy):

FR-027 11/29/2007 HWA Project No.: 2007-132-23

HWA Task No.:

HWA Field Representative

John H. "Jack" Carlock

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	Client Representative	Wealher
Envirocon	Tom Schnobrich	Clear/Cool
Deplan Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager
The Digit / Citizenty (Congression 4) or a more of the con-	, · ·	Tony Martin

FIELD REPORT

SUMMARY OF FIELD TIME SPENT ON PROJECT TODAY:

Start Travel; 1530, Arrived at Site: 1540, Departed Site: 1640, End Travel; 1655 First Site Visit:

ACTIVITY BEING INSPECTED: Compaction of Gravel Borrow import placed as excavation backfill.

Chuck Hyatt

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:

HWA Field Kepresentative

Reviewed:

HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES

Report# Item# Status

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ทอ

19730-64th Avenue West, Suite 200

Lynnwood, WA 98036 Tel. 425-774-0106

Field Report No.: Date (mm/dd/yy):

FR-027

11/29/2007 HWA Project No.: 2007-132-23

HWA Task No.:

Il roject Namo	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	Client Representative	Weather
Envirocon	Tom Schnobrich	Clear/Cool
Design Authority (engineer of architect of record)	Design Authority Representative	HWA Project Manager
Dealth Minotify (1999) and production as seemed		Tony Martin
General Contractor	General Contractor Representative	HWA Field Representative
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

Seneral d		General C Chuck		Roprosenta	tive			HWA Fiek John H		_{ntative} " Carloc	ck	
HINNO	FIELD COMPAC			REP	ORT -	NUC	LEAR	METHOD				
МАТЕ		compai										Z4481
	CT IMPROVEMENT TESTED:	see ac	compai	rying fie	eld repo	ort						
	- 17 11 11 16 1	Elev'n			Lab C	ontrol*			ield Tes			ative
		or	Probe			e/Marsi		<u></u>	sity	Moist.		action
"Fost	D. J. V J. Turat I. o coling	Depth B.G.**	Depth (in)	Qí #	Max. Dens.	Opt, Moist.	Over Size %	Total pcf	Dry pcf	Moist. %	Field %	Spec %
No.	Detailed Test Location Excavation B=6. Center area at grid line			AG-2	120.2	11.5	25.0	126,0	117.3	7.4	98	90
1	16, 200 so, of B-6's northern bank	-2.5/t	12 in	AG-2	120.2	11.0	20.0	120.0	177.0		-	
2	<i>Excavation 6-6/6-20-1 boundary,</i> 45ft So, of northern back.	-411	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, 15/t No. of A-1's southern bank	-1[[12 in	AG-2	120.2	11.5	25.0	124.5	116.9	6.5	97	90
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Test N	lethod X ASTM D2922/D3017 (sc	nil)	u.L.	∧STM	D2950 (a	asphalt)			Other:		14000	
	meter; X Troxler 3440	Troxic	3430		Troxica	13411-B		,,	_CPN N	IC1-DR-F)	
		 t y Standa	rd Count	.; 2555		Moistu	ire Stand	ard Coun	t: <u>632</u>			
*Lab (Control: X Standard Proctor				ad Procto							
	Asphalt Marshall Densit	у	Table	Aspha	lt Maximu	um Theol	retical Do	ensity (Ric	e) on and b	o a limited	i depih.	
Ancon	MENTS: Test locations and olovations are all apanying field report provides additional information of the fill material being placed. Bolded re-	mation.	Debru B	3. હ , ભવાદ	ares ach	IN DOIDA	AINAR.	Frade me	ans the d	design fin	ish grade	of the
currer	Completed By: John H. "Ja			_	·			y: Tony	Martin			

Reviewed	Ву:	Tony Martin	



19730-64th Avenue Wost, Suite 200

Lynnwood, WA 98036 Tcl. 425-774-0106 Fax. 425-774-2714 Field Report No.: Date (mm/dd/yy): FR-028 12/6/2007 2007-132-23

HWA Project No.: HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	Client Representative	Weather
Enviraçon	Tom Schnobrich	Clear/Cool
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager
Design Admitivity (Sugmeet of architectron record)	7 117	Tony Martin
General Conjugator	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: 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:

 Reviewed:

HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES

Report# Item# Status

na n

N.M.

19730-64th Avenue West, Suite 200

Lynnwood, WA 98036

Tel. 425-774-0106 HWAGEOSCIENCES INC. 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.:

Projuct 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	Ganeral Contractor Representative	HWA Field Representative
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

Client	71 [[[] [] [] [] [] [] [] [] [Client Rop	rosentativ	e				Weather				
≅nviro	oon	Tom S	chnobri	ch				Clear/0				
Design At	ithority (engineer or architect of record)	Deşign Αι	Illiority Re	presentativ	/e			HWA Project Manager				
				va				Tony M	lartin			
	Pontractor		ontractor l	Represent	alive			HWA Field		niative '' Carloc	nle.	
Enviro		Chuck								. Салос	<u> </u>	
	FIELD COMPA	CTION	TES	r Rep	ORT -	· NUC	LEAR	MET	HOD			
		compai										
PROJE	ECT IMPROVEMENT TESTED:	see ac	сотра	nying fie								
	1) 50 14	Elev'n			Lab C				ield Tes		ł .	ative
		or	Probe	(Pro	octor/Ric				sity	Moist.	Comp	
Test	,	Depth	Depth	QI	Max.	Opt.	Over	1	Dry	Moist.	Field	Spec
No.	Detailed Test Location	B.G.**	(in)	#	Dens.	Moist.	Size %	pcf	pcf	%	%	%
1	Excavation E-6/B-20 boundary, 45ft So. of northern back.	Final Grado	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	- Control of the Cont											
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13					<u> </u>					J		<u></u>
Test M	ethod X ASTM D2922/D3017 (so	il)		ASTM	D2950 (a	sphalt)			Olher:			
Densor		Troxler	3430	-		3411-B			- CPN M	C1-DR-P		
Delia0		Itomor ly Standa		2555			re Standa	rd Count	_			÷
*Lab C	iontrol: X Standard Proctor				d Procto							
	Asphalt Marshall Density	У		_ Asphal	t Maximu	m Theor	etical De	nsity (Ric	e)	_ 17 14	4	
COMIV Accord	IENTS: Yest locations and elevations are appropriately field report provides additional infor	proximat mation. *	e. Testin *Depth B	g provide I.G. indic	es data o atos depi	nly for a : h below	specific te grade. G	est locatio rade mea	on and to ans the d	a iimited esign fini:	uepin. sh grade	of tho

		-		
Densameter:	X Troxler 3440	Troxler 3430	Troxler 3411-B	CPN MC1-DR-P
	Scrial #: 29276	Density Standard Count.:	2555 Moisture Sta	ndard Count: 632
*Lab Control:	X Standard Proc	.01	Modified Proctor	
	Asphalt Marsh	all Density	Asphalt Maximum Theoretical	Density (Rice) ic test location and to a limited depth.
COMMENTS	Tost locations and elevatio	ons are approximate. Testing	provides data only for a specif	ic test location and to a limited depth.
Accompanying	field report provides additi	onal information. **Depth B.C Bolded results indicate compa	6. indicatos depth below grade	. Grade means the design finish grade o
	Completed By: John	H. "Jack" Carlock	Reviewed	By: Tony Martin

HWA GEOSCIENCES INC.

FAXMITTAL

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

Fax: 425-774-2714

Date: From:

January 10, 2008

Τc

Tony Martin

HWA's Project #: 2007-132-23

Sent To...

EXCURE A STREET	Visit in the second of the sec	100
Company:	Envirocon	110
Attention:	Tom Schnobrich	NATE OF PARTY OF PART
Fax No.:	503-285-6205	THAT I THAT
Phone No.:	503-285-6164	- NW - Law

Number of Pages: 5 (including cover sheet)

	- TRUMPING TO THE TRUMPING TO			- 1
	ORIGINAL TO FOLLOW BY MAIL	Yes	X No	
- [u

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

19730-64th Avenue West, Sulle 200 Lynnwood, WA 98030

Tel. 425-774 0106

Field Report No.: Date (mm/dd/yy):

FR-031 1/4/2007 HWA Project No.: 2007-132-23

HWA Task No.;

Projuct 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
Desiry (Managery (Magenties of Englished of Comme)		Tony Martin
Conoral Controllor	General Contractor Representative	HWA Field Representative
Envirocon	Chuck Hyall	John H. "Jack" Carlock

FIELD REPORT

SUMMARY OF FIELD TIME SPENT ON PROJECT TODAY:

First Site Visit:

Start Travel: 1400 Arrived at Sile: 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 INSPEC'TION: 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: HWA Field Representative

HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES

Report# Item# Status None at this time.

19730-64th Avenue West, Suite 200

Lynnwood, WA 98036 Tel. 425-774-0106

Field Report No.: Date (mm/dd/yy):

FR-031 1/4/2007

HWA Project No.: 2007-132-23 HWA Task No.:

Location or Address of Project	Permit No.
Edmonds, WA	
Client Representative	Weather
Tom Schnobrich	Cold/Rain
Design Authority Representative	HWA Project Manager
	Tony Martin
General Contractor Representative	HWA Field Rupresentative
Chuck Hyatt	John H. "Jack" Carlock
	Edmothds, WA Client Representative Tom Schnobrich Design Authority Representative General Contractor Representative

FIELD COMPACTION TEST REPORT - NUCLEAR METHOD

MATERIAL BEING PLACED:

see accompanying field report

see accompanying field report PROJECT IMPROVEMENT TESTED:

21/44/2017	The state of the s	Elev'n			Lab Control*			Field Test			Relative	
		QΓ	Probe		octor/Ric			Density Mois				
Test		Depth	Depth	ID "	Max.	Opt.	Over	Total	Dry	Moist.	Field	Spec
No.	Dotailed Test Location	B,G.**	(in)	#	Dens.	Moist.	Size %	_ pcf	pcf	%	%	%
1	Exertistion 8-20, 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	Excuvation B-20, approximate location is the Intersection of G-Line at 9.5-Line.	Gradu	12 in	AG-2	123.7	10.3	33,6	129.9	116.0	12.0	94	90
3	Execuation 8-20, approximate location is the intersection of K-Line at 9-Line.	Grado	12 ln	AG-2	123,7	10.3	33.6	131.4	114.9	14.4	93	90
4	Example 11.5-Line at 11.5-Line.	-1ft	12 in	ΛG-2	123.7	10.3	33.6	126.6	113.6	11.5	92	90
5	Excavation E-20, approximate loc. is the intersection of M-Line at 15-Line.	Grado	12 in	AG-2	123.7	10.3	33.6	129.7	116.4	11.4	94	90
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Test Method	X	ASTM D2922/D30)17 (soil)		ASTM □2950 (as	sphalt)	Other:
Densomotor:	X	Troxler 3440	Troxler	3430	Troxler :	3411-B	CPN MC1-DR-P
	Serial #:	29276	Density Standar	d Count.:	2529	Moisture Standard Count:	622
*Lab Control:	х	Standard Proctor			Modified Proctor		
		IladersM IladqaA	Density		Asphalt Maximur	m Theoretical Density (Rice)
へいしょれんにんじょう・・	Teetlocalid	sas and ploudions	: are anoroximate	. Tesling	provides data on	ly for a specific test location	n and to a limited depth.
Accompanying	field report	provides addition	al information. 🔭	'Dopth B.	G. indicates depth	n below grade. Grade mear	ns the design finish grade of the
current type of	fill malerial	being placed. Bo	ided results indic	ate comp	action below spec	cified value.	
		ted By: John H				Reviewed By: Tony N	Martin

HWA GEOSCIENCES INC.

FAXMITTAL

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

Fax: 425-774-2714

Date:

January 10, 2008

From:

Tony Martin

HWA's Project #: 2007-132-23

Sent To....

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

Number of Pages: 5 (including cover sheet)

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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

19730-54th Avenue West, Suite 200 Lynnwood, WA 98036 Tel. 425-774-0106

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	
Clien(Client Representative	Weathur
Envirocon	Tom Schnobrich	Cold/Rain
Design Authority (engineer or architect of record)	Dusign Authority Representative	HWA Project Manager
Something the family for the first manner of the family of		Tony Martin
General Contractor	General Contractor Representative	HWA Field Representative
Envirgeon	Chuck Hyatt	John H. "Jack" Carlock

FIELD REPORT

SUMMARY OF FIELD TIME SPENT ON PROJECT TODAY:

Start Travel: 1400 Arrived at Site: 1422 Departed Site: 1500 End Travel: 1515 First Sile Visit:

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:

HWA Field Representative

HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES

Report# Item# Status

19730-64th Avenue West, Stitle 200

Lynnwood, WA 98036 Tel. 425-774-0106

Field Report No.: Date (mm/dd/yy):

FR-031 1/4/2007 2007-132-23 HWA Project No.:

HWA Task No.:

THE RESERVE THE PROPERTY OF TH			
Project Name	Location or Address of Project	Permit No.	
Cheyron Edmonds	Edmonds, WA		
Client	Client Representative	Weather	
Envirocon	Tom Schnobrich	Cold/Rain	
	Design Authority Representative	HWA Project Manager	
	Client Representative Tom Schnobrich	Cold/Rain	_

Tony Martin HWA Field Representative Goneral Contractor Representativo John H. "Jack" Carlock Chuck Hyall

FIELD COMPACTION TEST REPORT - NUCLEAR METHOD

MATERIAL BEING PLACED:

Ceneral Contractor

Envirocon

see accompanying field report

see accompanying field report PROJECT IMPROVEMENT TESTED:

1.176201	ECTIMPROVEMENT TESTED:	100 do	0011113411	7711153 110	на герс							
NACE AND ASSESSED.	All the state of t	Elev'n		Lab Control*				Field Test			Rela	ï
ì		or	Probe		octor/Ric				isily	Moist.	Comp	
Tost		Depth	Depth	1	Max.	Opt.	Over	Total	₿ry	Moist.	Field	Spec
No.	Detailed Test Location	B.G.**	(in)	#	Dens.	Moist.	Size %	_pcf	pcf	%	%	%
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	Executation 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	ΛG-2	123.7	10.3	33.6	126.6	113.6	11.5	92	90
5	Excavation 8-20, 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
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									7.2
Test Method	Χ,	ASTM D2922/D30)17 (soil)	(4,6,1	ASTM D	2950 (asphalt)		Other:	
Densometer:	X	Troxler 3440	Troxler	3430		Troxler 3411-B	r	CPN MC1-DR-P	
	Serial #:	29276	Density Standa	rd Count.:	2529	Moisture Stan	idard Count:	622	
*Lab Control:		Standard Proctor		W7/84	Modified				
		Asphalt Marshall	Density		Asphalt	Maximum Theoretical C s data only for a specific	ensity (Ricc)	n lh
COMMENTS:	Test location	ons and elevations	are approximal	e. Testing	provide	s data only for a specific	Crade weer	n and to a millied de ne the design finish (arade of the
Assessmenting	tickle room	Lorovides addition	al information. `	"Depin ຢ.	G. Indica	tes depth below grade.	Glade mea	ita tire design minori () E 0 0 0 1 1 1 0
current type of	Comple	ted By: John H	I. "Jack" Carl	ock	_	Reviewed I	3y: <u>Tony N</u>	Martin	
	(· · · pe · · ·	· · · · · · · · · · · · · · · · · · ·	777744		-				

19730-64th Avenue Wost, Suite 200

Lynnwood, WA 98036 Tel. 425-774-0106

Field Report No.: Date (mm/dd/vv):

FR-032. 1/9/2007 2007-132-23 HWA Project No.:

HWA Task No.:

Project Name	Localion of Address of Project	Permit No.
Chavron 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
Control of the contro	<u> </u>	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 Sile 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 cvaluation 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:

Slaned\ HWA Field Éépresentative

HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES

Report# Item# Status None at this time.

19730-64th Avenue West, Suite 200

Lynnwood, WA 98036

Tel, 425-774-0106

Field Report No.:

FR-032 1/9/2007

Date (mm/dd/yy): HWA Project No.: HWA Task No.:

2007-132-23

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 (ongineer or architect of record)	Design Authority Representative	HWA Project Manager
Design Woo loury foundament of streamone at team of	,	Tony Martin
General Contractor	General Contractor Representative	I-IWA Field Representative
Enviracan	Chuck Hyalt	John H. "Jack" Carlock

Gonoral C Enviro	l	General Contractor Representative Chuck Hyalt						John H. "Jack" Carlock				
E IVI QU	FIELD COMPAC			REP	ORT -	NUC	LEAR	METH	doh			
МАТЕЯ	RIAL BEING PLACED: See ac											
	CT IMPROVEMENT TESTED:			ying fic		ort			·		· · · · · · · · · · · · · · · · · · ·	
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!		or	Probe	<u> </u>	octor/Ric	e/Marsh Opt.	oali) Over	Der Total	sity Dry	Moist.	Field	action Spec
Test	Detailed Test Location	Depth B.G.**	Depth (in)	ID #	Max. Dens.		Size %	pcf	pcf	%	%	%
No. 1	Exervation B-20, approximate location is the intersection of J-Line at 9.5-Line.	Grada	12 in	.ΛG-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.	Grado	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.	Grado	12 in	AG-2	123.7	10.3	33.6	127.5	115.6	10.3	93	90
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Test M				ASTM					_Other:			
Denso		Troxler			Troxler				-	IC1-DR-P		
	The state of the s	ly Standa	rd Count	.: 2552			re Slanda	ard Coun	6 624			
*l.ab C	Control: X Standard Proctor				ed Procto It Maximu		olical De	neity (Pic	اه:			
CONAN	Asphalt Marshall Densit MENTS: Test locations and elevations are a	a covimal	te. Testir	a provid	es data o	nly for a	specific t	est locati	on and to	a limited	dapih.	
Accon	MENTS: Test locations and elevations and al appropring field report provides additional infor	mation.	"Dopth E	3,G. indic	ates dep	th below	grade. Ç	Frade me	ans the c	lesign fini	sh grade	of the

Gensometer:	^	LICKISI OWNO			
	Serial #:	29276	Density Standard Count.	2552	Moisture Slandard Count: 624
*Lab Control:	Х	Standard Proctor		_Modified Proctor	
COMMENTS:	Test locall field repor	t provides addition		g provides data or G. indicates depti	m Theoretical Density (Rice) nly for a specific test location and to a limited depth, h below grade. Grade means the design finish grade o cified value.
			H. "Jack" Carlock		Reviewed By: Tony Martin

FAXMITTAL

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

Fax: 425-774-2714

Date:

January 18, 2008

From:

Tony Martin

HWA's Project #: 2007-132-23

Sent To....

MOIN TOFFF	THE REPORT OF THE PARTY OF THE	The second secon
Company:	Envirocon	The second secon
Attention:	Tom Schnobrich	
	503-285-6205	
Phone No.	503-285-6164	

Number of Pages: 5 (including cover sheet)

1	ORIGINAL TO FOLLOW BY MAIL	Yes	X No	
Ì	CICICATULE 1 COLUMN		*****	_

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

HWAGEOSCIENCES INC.

19730-64th Avenue West, Suite 200

Lynnwood, WA 98036 Tel. 425-774-0106

Field Report No.: Date (mm/dd/yy):

FR-029 12/19/2007 2007-132-23

HWA Project No.:

HWA Task No.: Fax, 425-774-2714

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

CUALOCOLI	FIELD REPORT	
SUMMARY OF FIELD TIME SPEN First Site Visit: Start Travel: 08	VT ON PROJECT TODAY: 335 Arrived at Site; 0855 Departed Site: 0955 End	d 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 sile 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: 5 HWA Field-Representative Reviewed:

HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES

Report# Item# Status

FR-029

Un-resolved. The four locations lested failed to meet the specified minimum degree of compaction.

19730-64th Avenue West, Suite 200

Lynnwood, WA 98036 Tel. 425-774-0106

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

HWA Project No.: HWA Task No.:

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

General Contractor Envirogon								John H. "Jack" Carlock				
ELIANO	FIELD COMPAC			REP	ORT -	NUC	LEAR	METH	dOb			
MATE	RIAL BEING PLACED: see ac										<u></u>	
		see ac				ort						
	es at 1999 - 17 Claible V. at 100-100-100-100-100-100-100-100-100-100	Elev'n			Lab C				ield Tes		Rela	11
		ог	Probe		clor/Ric			Den Total	isity Dry	Moist.	Comp Field	Spec
Test	to the time to another	Depth B.G.**	Depth (in)	(D #	Max. Dens.	Opt. Moist	Over Size %		pcf	%	%	%
No.	Detailed Test Location Excavation B-20, approximate location is				123.7	10.3	33.6	125.6	107.6	16.7	87	90
1	the intersection of H. Line at 13-Line.	-1.5ft	12 in	AG-2	123.7	10.5	33.0	120.0	707.0	, 0,,,		
2	Excavation B-20, approximate locallon 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	and the first of the state of t								<u> </u>			
6	E I THE FAMILY FOR THE MANAGEMENT COMMANDED PROGRAMMENT OF THE PROGRAM											ļ
7	ALL NAMES AND ADDRESS OF TAXABLE STATES AND ADDRESS OF TAXABLE STA											ļ
8	THE STATE OF THE PROPERTY OF T											
9	A CALLET MAN AND A SECURE OF SECURE OF SECURE OF SECURE OF SECURE OF SECURE OF SECURE OF SECURE OF SECURE OF SECURE OF SECURE OF SECURE OF SECURITIES OF SECURE OF SECURITIES OF SECURIT											
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11	And the state of t								<u> </u>			
12	And the Author St. All & St. St. St. St. St. St. St. St. St. St.											
13												<u></u>
Test N	10(l)od X ASTM D2922/D3017 (so	oil)		ASTM	D2950 (a	asphalt)			Other:			
	meler: X Troxler 3440	Traxle	r 3430		Troxle	r 341 1-B			_	IC1-DR-F	J	
		ty Standa	ird Count				ire Stand	ard Coun	£ 632			
*Lab (Control: X Standard Proctor				ed Prock		0 l Ph	4r /9=1	\			
	Asphalt Marshall Densit MENTS: Tust locations and olevations are a		to Testi		on dota r	why for a	retical De specific	test locat	ion and t	o a limile	d depth.	
COMì Accor	MENTS: Test locations and olevations are a npanying field report provides additional Info	manon.	. Ռեփու	The strain	mico uch	di balbii	3,2	Grade me	ans the	design fin	ish grado	of the

			1 1		
Test Molhod	X	ASTM D2922/D3017 (soil)	ASTM D2950 (asphalt)	Other:
Densometer:	X	Troxlor 3440	Traxler 3430	Troxler 3411-B	CPN MC1-DR-P
Dremaometor.	Serial #:		sity Standard Count	.; 2555 Moisture Standa	rd Count: 632
*Lab Control:	Х	Standard Proctor		_Modified Proclor	
	Culd copper	t provides additional int	annalion. Tuedin t	Asphalt Maximum Theoretical Dering provides data only for a specific to A.G., indicates depth below grade. Grapantion below specified value.	nsity (Rice) est location and to a limited depth. Trade means the design finish grade of the
on type w		eted By: John H. "J		Reviewed By	r: Tony Martin



Lynnwood, WA 98036

Tel. 425-774-0100

Field Report No.:

FR-030 1/2/2007

Date (mm/dd/yy): HWA Project No.: HWA Task No.:

2007-132-23

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
	Client Representative	Weather
Client	Tom Schnobrich	Cold/Rain
nvirocon	Design Authority Representative	HW∧ Project Manager
Deulan Authority (ungineer or prohitect of record)	Dadiga () Lipin () Type () Lipin	Tony Martin
A STATE OF THE STA	General Contractor Representative	HWA Field Representative
Deneral Controctor	Chuck Hyall	John H. "Jack" Carlock
Envirocon	Голиск пуви	

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 sile 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:

HWA Field Representative

Reviewed:

HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES

Report# Item# Status

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

19730-04th Avenue West, Suite 200

Lynnwood, WA 98036 Tel. 425-774-0106

Field Report No.: Date (mm/dd/yy):

FR-030 1/2/2007 2007-132-23

HWA Project No.: HWA Task No.:

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

FIELD COMPACTION TEST REPORT - NUCLEAR METHOD

IATERIAL BEING PLACED:	see accompanying field report
------------------------	-------------------------------

see accompanying field report PROJECT IMPROVEMENT TESTED: Relativo Field Test Lab Control* Elev'n Moist. Compaction (Proctor/Rice/Marshall) Density Probe or Field Spec Moist. Total Dry Depth ID Max. Opt. Over Depth Test % pcf % Dens. Moist. Size % pcf Detailed Test Location B.G.** (in) No. Excavation B-20, approximate location is 11.3 91 90 33.6 125.5 112.7 10.3 123.7 12 in AG-2 -3ft 7 the intersection of H-Line at 13-Line. Excavation B-20, approximate location is 90 97 119.6 8.4 33.6 129.6 123.7 10.3 AG-2 12 in -411 2 the intersection of J-Line at 14-Line. 92 90 Excavation B-20, approximate location is 9.4 10.3 33.6 125.1 114.4 123.7 12 in AG-2 -4[[3 the intersection of K-Line at 17-Line. 90 Excavation B-20, approximate location is 10.9 92 125.7 113.3 AG-2 123.7 10.3 33.6 -2.5ft 12 in 4 the intersection of M-Line at 17-Line. 5 6 7 8 9 10 11 12 13

Test Method	X	ASTM D2922/D30	017 (soil)	ASTM I)2950 (asphall)	Ott	ner:
Densometer:		Troxler 3440	Traxler 3430		Troxler 3411-B	CF	N MC1-DR-P
DOMESTI (MAN)	Sorial #:	-	Density Standard Count.:	2555	Moisture Standa	rd Count: <u>63</u>	2
*Lab Control:		Standard Prootor			d Proctor		
		- ∧sphalt Marshall	Density	Asphali	Maximum Theoretical Den	rsity (Rice)	nd to a limited depth
a contract the	ومراجع والمسابدة	4 menuidae addition	s are approximale. Tastin al information. **Depth B ilded results indicato comp	LD, INVIVI	is data only for a specific to ites depth below grade. Go elow specified value.	rade means t	the design finish grade of the
current type of			L " Inale" Corlock		Reviewed Bv	: Tony Ma	rtin

Completed By: John H. "Jack" Carlock

FAXMITTAL

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

Fax: 425-774-2714

Date:

February 5, 2008

From:

Tony Martin

HWA's Project #: 2007-132-23

Sent To....

KANALA K CITTA		17114
Company:	Envirocon	700
Attention:	Tom Schnobrich	10
Fax No.:	503-285-6205	WI.
Phone No.:	503-285-6164	

Number of Pages: 2 (including cover sheet)

	ŧ
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



LABORATORY COMPACTION CHARACTERISTICS OF SOIL HWAGEOSCIENCES INC. CLIENT: Envirocon AG-3 SAMPLE ID: PROJECT: Chevron Edmonds Tested By: AAC PROJECT NO: 2007132-T100 Sampled By: JHC Date Tested: 1/31/2008 Date Received: 1/30/2008 Date Sampled: 1/30/2008 MATERIAL TYPE OR DESCRIPTION: Gravel Borrow MATERIAL SOURCE, SAMPLE LOCATION AND DEPTH: Rinker Plant in Everett, NW Agg # 1875- On Site Stockpile Natural Moisture Content: ASTM D 1557 Designation: X ASTM D 698 4.6 % retained on: 3/4 in. Хlc Oversize: B Method: 2.65 Assumed \$.G.: X Moist Rammer: X Auto Manual Preparation: Drv Test Data 114,6 118,5 118.7 116.9 Dry Density (pcf) 11.3 14.1 9.8 8.3 Moisture Content (% Rock Corrected Curve per ASTM D4718 Lab Proctor Curve 100% Saturation Line 120 Dry Density (pcf) 115 110

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

105

5

	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	

20

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

10

Reviewed By: George Minassian

FIGURE

25

15

Moisture Content (%)



Lynnwood, WA 98036 Tol. 425-774-0106 Fax. 425-774-2714

Field Report No.: Date (mm/dd/yy);

FR-035 2/14/2007 2007-132-23

HWA Project No.: HWA Task No.:

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

FIELD REPORT

SUMMARY OF FIELD TIME SPENT ON PROJECT TODAY:

First Sile 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. .

I-IWA 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 allached '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:

HWA Field, Representative

Reviewed:

HWA Project Engineer or Reviews

SUMMARY OF UNRESOLVED ISSUES

Report# Item# Status None at this time.

19730-64th Avenue West, Suite 200

Lynnwood, WA 98036

Tel. 123-774 0106

Field Report No.: Date (mm/dd/yy):

FR-035 2/14/2007

HWA Project No.: 2007-132-23 HWA Task No.:

Projuct Namo	Location or Address of Project	Pomit No.
Chevron Edingads	Edmonds, WA	
Client	Client Representativo	Weathor
Envirocon	Tom Schnobrich	Clear & Cool
Design Authority (engineer or erchitect of record)	Design Authority Representative	HWA Project Manager
Destitutions (entities of destinance feeders)		Tony Marlin
General Contractor	General Contractor Representative	HWA Field Representative
Envirocon	Chuck Hyalt	John H. "Jack" Carlock

FIELD COMPACTION TEST REPORT - NUCLEAR METHOD

MATERIAL	BEING	PLACED:
----------	-------	---------

see accompanying field report

PROJECT IMPROVEMENT TESTED:

see accompanying field report

PROJECT IMPROVEMENT TESTED: See accompanying field repert						4						
[************************************	THE TAXABLE PARTY OF THE PARTY	Elev'n			Lab C	ontrol*		F	ield Tes	st	Rela	
	•	or	Probe	(Pro	octor/Ric	c/Marsi	nall)	Der	sity	Moist.	Comp	
Test	·	Depth	Depth	dl	Max.	Opt.	Over	Total	Dry	Moist.	Field	Spec
No.	Detailed Tost Location	B.G.**	(in)	#	Dens.	Moist.	Size %	pcf	pcf	%_	%	%
1	Fix avation A-1/B-20, approximate. location is L-Line at 11-Line.	Grade	12 ln	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.	Grado	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.	<u>-21l</u>	12 in	AG-3	124.0	9.5	15.0	129.0	118.7	8.7	96	90
1	Execution 8-20, 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	Exempation B-20, approximate location is S-Line at 6-Line.	-5fl	12 in	AG-3	122.2	10.0	10.0	119.5	109.5	5.2	90	90
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9		<u> </u>				ļ <u>.</u>						
10	NITE AND ADDRESS OF A STATE OF A						ļ	 				
11			-				J					
12			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		<u></u>					ļ		
13						<u> </u>	<u> </u>				<u> </u>	

13							,							
Test Me	thod	X	A5TM D2922/D	3017 (soil)		ASTM D)2950 (as				Other:		•	- 10,000
Densom	etor:	X	Troxler 3440		er 3430		Troxler 3			, 	CPN MC	7-DK-P	•	
		Script t	<i>l</i> : 29276	Density Stand	lard Count.	2522	•	Moisture	Standar	d Count:	626			
*Lab Co	ntrol:	X	\$tandard Procto	r			i Prootor							
Accomp	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 corrent type of lill material being placed. Bolded results indicate compaction below specified value.													
	,,,,,		eled By: John						ved By;	Tony N	<u>Martin</u>		1904	-



FAXMITTAL

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

Fax: 425-774-2714

Date:

February 18, 2008

From:

Tony Martin

HWA's Project #: 2007-132-23

Sent To....

Company:	Envirocon	I I I I I I I I I I I I I I I I I I I
Attention:	Tom Schnobrich	
Fax No.:	503-285-6205	The state of the s
Phone No.:	503-285-6164	7 9 11 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Number of Pages: 3 (including cover sheet)

- 1				
	ORIGINAL TO FOLLOW BY MAIL	Yes	X No	İ
				- 1

Subject: Chevron Edmonds

Toni,

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

FAXMITTAL

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

Fax: 425-774-2714

Date:

February 18, 2008

From:

Tony Martin

HWA's Project #: 2007-132-23

Sent To....

Company:	Envirocon	
	Tom Schnobrich	
Fax No.:	503-285-6205	
Phone No.:	503-285-6164	7/4

Number of Pages: 3 (including cover sheet)

	ORIGINAL TO FOLLOW BY MAIL	Yes	X No		
ł				- 1	

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





Lynnwood, WA 98036 Tal. 425-774-0106

Field Report No.: Date (mm/dd/yy):

FR-035 2/14/2007

HWA Project No.:

2007-132-23

HWA Task No.:

Project Namo	Location or Address of Project	Permit Na.
Chevron Edmonds	Edmonds, WA	
Clian	Client Rupresentative	Weather
Envirocon	Tom Schnobrich	Clear & Cool
Design Authority (engineer or architect of record)	Design Authority Representativo	HWA Project Manager
		Tony Martin
General Contractor	Goneral Contractor Representative	HWA Field Reprosentative
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 Sile: 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 atlached '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:

HWA Field Representative

HWA Project Engineer or Reviewe

SUMMARY OF UNRESOLVED ISSUES

Report# Item# Status

19730-64th Avenue West, Suite 200

Lynnwood, WA 98036 Tol. 425-774 0106

Field Report No.: Date (mm/dd/yy):

FR-035 2/14/2007 2007-132-23

HWA Project No.: HWA Task No.:

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

Envirocon		Tom Schnobrich			Clear & Cool							
			Design Authority Representative			HWA Project Manager						
							Tony Martin					
Coneral (neral Contractor Representative HWA Field Representative nuck Hyatt John H. "Jack" Carlock						}			
Enviro		Chuck								. Carlo	CK	
	FIELD COMPACTION TEST REPORT - NUCLEAR METHOD											
MATE	RIAL BEING PLACED: see ac	compa	nying fie	old repo	ort							
PROJE	ECT IMPROVEMENT TESTED:	see ac	compai	nyìng fie	eld repo	ort						
1977. C. 1777 T. T. T. T. T. T. T. T. T. T. T. T. T.	THE PARTY OF THE P	Elev'n		******	Lab C	ontrol*		F	ield Tes	t	Rela	ative
		or	Probe	(Pro	octor/Ric	c/Marsi	ายแ)	Den	sity	Moist.	_ Comp	action
Test		Depth	Depth	(D	Max.	Opt.	Over	Total	Dry	Moist.	Field	Spec
No.	Detailed Test Location	B.G.**	(in)	#	Dens.		Size %	pçf	pcf	%	%	%
1	Fixcavation A-1/B-20, approximate. location is L-Line at 11-Line.	Grade	12 ln	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.	Grado	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.	-2fl	12 in	AG-3	124.0	9.5	15,0	129.0	118.7	8.7	96	90
Prince (Stanks	Excavation B-20, approximate	-2ft	12 in	AG-3	125.9	9.0	20.0	136.1	125.7	8.3	100	90
4	location is O-Line at 12-Line.	-211	121(1	A0-3	120.9	3.0	20,0	700.1	12.0.7	. 0,0	100	
5	Excavation B-20, approximate location is S-Line at 6-Line.	-5fl	12 in	AG-3	122.2	10.0	10.0	119.5	109.5	5.2	90	90
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7	A A A A A A A A A A A A A A A A A A A											
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12	As a second seco					,			}			
13	(All Indiana)											
Test Mo	ethod X ASTM D2922/D3017 (50	il)	N	ASTM I)2950 (a:	sphalt)		14	Other:	7 100 000	u	74
Denson					_Troxler				CPN M	01-DR-P		
1.01100		y Standar					e Standa	rd Count:	626	-		
*Lab C	ontrol: X Standard Proctor			Modifie	- d Proptor							
	A			Applicati	Maylmu	M Thank	atical Den	city (Dies	⊒١			

Test Method	X ASTM D2922/D	3017 (soil)	A\$TM D2950 (asphalt)	Other:
Densometer:	X Troxler 3440	Troxler 3430	Troxler 3411-B	CPN MC1-DR-P
	Scriel #: 29276	Density Standard Count.	2522 Moisture Stan	idard Count: 626
*Lab Control:	X Standard Procto	or	Modified Proptor	
	Asphalt Marshal	li Density	Asphalt Maximum Theoretical C	
COMMENTS:	Test locations and elevation	ns are approximate. Testin	g provides data only for a specific	e test location and to a limited depth.
Accompanying current type of	field report provides additio fill material being placed. B	nal information, **Depth B lolded results indicate comp	.G. indicates depth below grade. baction below specified value.	Grade means the design finish grade of the
*1	Completed By: John			By: Tony Martin

HWAHWA GEOSCIENCES INC.

FAXMITTAL

19730-64th AVE W 5TE 200 Lynnwood, WA 98036-5904 Tel. 425-774-0106

Fax: 425-774-2714

Date:

February 27, 2008

From:

Tony Martin

HWA's Project #: 2007-132-23

Sent To	LIEU TO CONTRACTOR CON
Company:	Envirocon
Attention:	Tom Schnobrich
Fax No.:	503-285-6205
Phone No.:	503-285-6164

Number of Pages: 7 (including cover sheet)

4	(CLLX LOS —	,		
٢	ORIGINAL TO FOL	LOW BY MAIL	Yes	X No
١				

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



Lynnwood, WA 9803G

Tel. 425-774-0106

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

HWA Project No.: HWA Task No.:

EIMV OFO2CIEIMCE2 IIM		[Permit No.
Project Name Chevron Edmonds Client Envirocon	Location of Address of Project Edmonds, WA Client Representative Tom Schnobrich Design Authority Representative	Weather Clear & Cool HWA Project Manager Tony Martin
Design Authority (engineer or architect of record) General Contractor Envirocon	General Contractor Representative Chuck Hyatt FIFI D REPORT	HWA Field Representative John H. "Jack" Carlock

FIELD REPORT

SUMMARY OF FIELD TIME SPENT ON PROJECT TODAY:

Start Travel: 1425 Arrived at Site: 1435 Departed Site: 1525 End Travel: 1535 First Site Visit:

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'.

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

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:

HWA Fletd-Representative

Reviewed:

HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES

Report# Item# Status

Lynnwood, WA 98036

Field Report No.: Date (mm/dd/yy):

FR-036 2/18/2007 HWA Project No.: 2007-132-23

HWA Task No.:

Tel. 425-774-0106 HWAGEOSCIENCES INC. Fax. 425-774-2714

FIANGEOPCIENCES INC	J. Pax. 420" 14 27 11	
	Location or Address of Project	Permit Na.
Project Namo	Edmonds, WA	Wealher
Chevron Edmands	Client Representative	Clear & Cool
Environm	Tom Schnobrich Design Authority Representative	HWA Project Manager
Design Authority (engineer or architect of record)	Design Authority Rapicsontain	Tony Martin
Annual Marie Control of the Control	General Contractor Representative	HWA Field Representative John H. "Jack" Carlock
General Contractor	Chuck Hyatt	MICHAEL CONTRACTOR OF THE PROPERTY OF THE PROP
Frivirocon	THE PROPERTY MICH	KD METHON

righ Authority (engineer or architect of record)							i ony Mi iwa Field	Penresen	Estive		
regal Contractor	General Co		epresenta	tive			John H.	"Jack"	Carloc	k	
ivirocon	Chuck	нуац			AUTO						
FIELD COMP.	ACTION	TEST	REP	OKI-	MAC	LLANIX	1816-11				
ATERIAL BEING PLACED: 500	accompar	rying fie	id r e po	π						A	
ROJECT IMPROVEMENT TESTED:	see ac	compar	ıying fi∈	eld repo	<u> </u>					Rela	Com
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	or	Probe	(Pro	ctor/Ric		nall)	Den		Moist.	Field	Spec
	Dopth	Deptin	D	Max.	Opt.	Over	Total pcf	Dry pcf	%	%	%
Test Detailed Test Location	B.G.**	(in)_	#	Dens.	Moist.	Size %	/				90
Excavation A-1/B-20, approximate	Grado	12 in	AG-3	124.0	9.5	15.0	129.6	119.6	8.3	96	30
1 location is P-Line at 11-Line.			ļ			-	400.7	114.1	8.4	92	90
Fixeavation A-1/B-20, approximate	e Grado	12 in	AG-3	124.0	9.5	15.0	123.7	114.1	0.4		ļ
2 Incation is Q-Line at 11-Line.		 		1010	0.5	15.0	126.4	117.2	7.8	95	90
3 Excavation B-20, approximate	-211	12 in	AG-3	124.0	9.5	10,0	120.1			ļ	
3 location is Q-Line at 10-Line.		1		1		1	1		1		
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Test Method X ASTM D2922/D30	17 (soii)		ASTI	M D2950					MC1-DR	- P	
T 2440	Trox	ler 3/30	,	Trox	ler 3411-				10101-011		
Densometer: X Troxiel 3440 _ Serial #: 29276	Density Stan	dard Cou	nt.: <u>253</u> 2			ture \$tan	dard Cou	int: <u>631</u>			
Oderstood Drawtoo			Mod	ified Proc	clor						
A an both Marchall	Density		Aspl	halt Maxi	mum The	eoretical f			t to a limi	iad depth	٦.
Asphalt Marshall I	are approxim	nate. To							e design	finish gra	 ide of th
COMMENTS: Test locations and elevations Accompanying field report provides addition	al Information	i. *"Dept	h B.G. Ini omnacijo	dicates d	epin beid specified	value.	Citto!	.,	• •		
author type of fill Material being paced, and			OHINGORD	C. DOINT	Re	viewed	By: Tor	ny Mart	in		
Completed By: John H	I. "Jack" C	ariock			110	.,,	<u></u>				



Lynnwood, WA 98036

Tel. 425-774-0105

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

HWA Project No.: HWA Task No.:

HWAGEOSCIENCES INC. Fax. 425-774-2714

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

FIELD REPORT

SUMMARY OF FIELD TIME SPENT ON PROJECT TODAY:

Slart Travel: 1310 Arrived at Site: 1320 Departed Site: 1415 End Travel: 1425 First Site Visit:

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'.

DETAILS OF PLACEMENT OF THIS MATERIAL: Upon arrival on site it was observed that the contractor had placed a TYPE OF INSPECTION: Periodic 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

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# Hem# Status

Lynnwood, WA 98036

Tel. 425-774-0106

Field Report No.: Date (mm/dd/yy):

FR-037 2/18/2007 2007-132-23

HWA Project No.: HWA Task No.:

HWAGEOSCIENCES INC.	Fax. 425-774-2714	HWA Task No.:
Project Name Chevron Edmonds Client Envirocon Design Authority (engineer or architect of record) Guneral Confractor	Location of Address of Project Edmonds, WA Client Representative Tom Schnobrich Design Authority Representative General Contractor Representative Chuck Hyatt	Permit No. Weather Clear & Cool HWA Project Manager Tony Martin HWA Field Representative John H. "Jack" Carlock
Envirocon	OTION TEST REPORT - N	IUCLEAR METHOD

FIELD COMPACTION TEST REPORT - NUCLEAR METHOD report

MATERIAL	BEING	PLACED:	see	accompanying	
				and accorn	コタカレバ

see accompanying field report PROJECT IMPROVEMENT TESTED: Relative Field Test Lab Control* Elev'n Compaction Density Moist. (Proctor/Ricc/Marshall) Probe or Field Spec Maist. Total Dry Opt. Over Max. ID Depth Dopth % % % pcf pcf Test Moist. Size % # Dens. (in) B.G.** Detailed Test Location 99 90 No. 8.8 Excavation A-1/B-20, approximate. 124.2 135.1 20.0 125.9 9.0 AG-3 12 in -3ft location is R.5-Line at 6-Line. 90 100 8.1 Excavation A-1/B-20, approximate 126.4 20.0 136.6 9.0 125,9 AG-312 in Grade 2 location is N.5-Line at 10,5-Line. 90 91 87 112.4 122.2 Excavation B-20, approximate 15.0 124.0 9.5 AG-312 in -1ft 3 location is Q-Line at 8-Line. 90 6.996 119.3 127.5 Excavation A-2, approximate location 15.0 AG-3 124.0 9.5 12 in -2ft 4 is T-Line at 8-Line. 90 90 8.5 111.8 121.2 Excavation A-2, approximate location 15.0 124.0 9.5 AG-3 -2ft 12 in 5 is T.5-Line at 10-Line. Ø 7 8 9 10 11 12 13

''	Other Control of the	ther;
Test Mel	X ASTM D2922/D3017 (50il) ASTM D2950 (aspriar)	PN MC1-DR-P
тоган	X Troxler 3440 Moisture Standard Count: 62	23
*Lab Co COMMI Accomis	X Standard Proctor Asphalt Marshall Density Asphalt Maximum Theoretical Density (Rice) Asphalt Maximum	the design finish grade of the
curent	of fill material being placed. Builded results and a Reviewed By: Tony Mac Completed By: John H. "Jack" Carlock	artin



19730-64th Avenuc West, Suite 200

Lynnwood, WA 98036 Tol. 425-774-0106

Field Report No.: Date (mm/dd/yy):

FR-038 2/26/2007 2007-132-23

HWA Project No.: HWA Task No.:

LIA 42 CONTRACTOR CONTRACTOR	and Dropost	Permit No.
Project Name Chevron Edmonds Client	Location or Address of Project Edmonds, WA Client Representative Tom Schnobrich	Weathor Clear & Cool
Envirocon Design Authority (engineer or architect of record)	Dasign Authority Representative General Contractor Representative	HWA Project Manager Tony Martin IHWA Field Representative
General Contractor Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD REPORT

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Stort Travel: 1310 Arrived at Site: 1320 Departed Site: 1415 End Travel: 1425 First Site Visit:

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'.

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

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

19730-64th Avenue West, Suite 200

Lynnwood, WA 98036 Tel, 425-774-0106

Field Report No.: Date (mm/dd/yy):

FR-038 2/26/2007 HWA Project No.: 2007-132-23

HWA Task No.:

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

FIELD COMPACTION TEST REPORT - NUCLEAR METHOD

MATERIAL	BEING	PLACED:
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see accompanying field report

see accompanying field report PROJECT IMPROVEMENT TESTED:

יועטטוני	O MM TO VENERY	Elev'n	compar		Lab Co			F	eld Tes		Rela	
		or	Proba	(Pro	ctor/Ric	e/Marsl	nall)	Den		Moist.	Comp	
Test		Depth	Depth	ID	Max.	Opt.	Over	Total pcf	Dry pcf	Moist.	Field %	Spec %
No.	Detailed Test Location	B.G.**	(in)	#	Dens.	Moist.	Size %					
1	Excavation E-11, approximate. location is S-Line at 11.5-Line.	- 3.5/I	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.	Grado	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
**************************************	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 8-10, 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
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Test Meth		Х	ASTM D2922/D30)17 (soll)	ASTM D2950 (
•	-		Troxler 3440	Traxler 3430	Troxle	er 3411-B	(CPN MC1-DR-P	
Densonic	-			Density Standard Coun	t.: 2531	Moisture Stand	iard Count: j	625	
		Serial #:	THE PERSON NAMED IN	-	Modified Proote	nt			
"Lab Cor	rtrol:	X	Standard Proctor	MATERIAL STATES AND AND AND AND AND AND AND AND AND AND			u urse d		
			Asphall Marshall	Density		ium Theoretical De	ensity (Rice)) and to a limited depth.	
COMME	NTS: To	st logatio	ons and elevations	Density are approximate. Test all information. **Depth	ing provides data : R.G. indicates der	only for a specific oth below grade.(Grade mean	is the design finish grad	e of the
Accompa	anying fic	Ad repart Logiferial	providos adquion being placed. Bo	olded results indicate con	npaction below sp				
Carrent c	ypa or m	nausia	tod Byt John H	I. "Jack" Carlock		Reviewed B	ły: <u>Tony M</u>	Martin	
		/ [] [] [[] [] [] []	LCCI LIVE GOLILI						

HWA GEOSCIENCES INC.

FAXMITTAL

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

Fax: 425-774-2714

Date:

March 10, 2008

From:

Tony Martin

IIWA's Project #: 2007-132-23

Sent To...

Sent 10	·	
Company:	Envirocon	- PERSONAL STRANGE STR
Attention:	Tom Schnobrich	- 1716 b
Fax No.:	503-285-6205	ATTIVITY (a)
Phone No.:	503-285-6164	The second secon

Number of Pages: 7 (including cover sheet)

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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



HWA GEOSCIENCES INC.

19730-64th Avenue West, Suite 200

Lynnwood, WA 98036

Tol. 425-774-0106 Fax. 425-774-2714 Field Report No.: Date (mm/dd/yy):

FR-039 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	Clioni Representative	Weather
Envirocon	Tom Schnobrich	Light Rain/Cool
Design Authority (onglineer 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 Deero 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 Y

HWA Field Representative

Reviewed:

HWA Project Engineer or Beviewer

SUMMARY OF UNRESOLVED ISSUES

Report# Item# Status

HWAGEOSCIENCES INC.

19730-64th Avenue Wost, Suite 200

Field Report No.:
Date (mm/dd/vv):

FR-039 2/28/2007

Lynnwood, WA 98036 Tel. 425-774-0106 Fax. 425-774-2714	HWA Project No.: HWA Task No.;	2007-132-23
Location of Address of Project	IPermit No.	
1	1	

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

	FIELD COMPA	ACTION	TEST	FREP	ORT .	NUC	LEAR	MET	dob			
MATE	RIAL BEING PLACED: see	accompai	nying fie	eld repo	ort			···				
PROJE	CT IMPROVEMENT TESTED:	see ac	compar	ying fi	old repo	ort				· • • • • • • • • • • • • • • • • • • •		
**************************************	The state of the s	Elev'n	7		Lab C	ontrol*		F	ield Tes	st	Rola	ntive
		or	Probe	(Proctor/Rice/Marshall)			Density		Moist.	Comp	action	
Trant		Donlla	Dooth	ī	May	Ont	Over	Total	Dry	Moist	Field	Sner

Í		Elev'n	1 1		ontro/*	1	Field Lest			Rolative		
		or	Probe						Density Moist.			action
Test		Depth	Depth	ID	Max.	Opt.	Over	Total	Dry	Moist.	Field	Spec
No.	Detailed Test Location	B.G.**	(in)	#	Dens.	Moist	Size %	pcf	pcf	_ %	%	%
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.	- 3ff	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
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Tost Method	od X ASTM D2922/D3017 (soil)				ASTM D	2950 (as	phalt)	O(her;						
Donsometer:	X	Troxler 3440	Trox	er 3430		Troxler 3	8411-B			CPN MO	C1-DR-P			
	Serial#:	29276	Density Stanc	ard Count.	: 2540		Moisture	Standar	d Count;	625	_			
*Lab Control:	X	Standard Proctor			_Modified	Proctor								
Accompanying	j field repor	_Asphall Marshall ons and elevations I provides addition I being placed. Bo	s are approximation.	**Depth B	.G. indicat	data onl es depth low spec	ly for a sp below gr ified valu	pecific te: rade, Gra ie.	st locatio ade mear	n and to	a limited esign finis	depth. sh grade	of the	
	Comple	eted By: John H	ł. "Jack" Ca	lock_			Roview	ved By:	Tony N	/arlin_	M.4		-	



19730-64th Avenue West, Suile 200 Lynnwood, WA 9803G

Tel, 425-774-0106

Field Report No.: Date (mm/dd/yy):

FR-040 2/29/2007 2007-132-23

HWA Project No.: HWA Task No.:

Project Name	Location or Address of Project	Përmit 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 Confrostor Representative	I-IWA 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

HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES

Report# Item# Status

19730-64(h Avonue West, Suite 200 Lynnwood, WA 98036

Tel. 425-774-0106

Field Report No.: Date (mm/dd/yy):

FR-040 2/29/2007 2007-132-23

HWA Project No.: HWA Task No.:

Project Nume	Location or Address of Project	Permit No.
Chevron Edmonds	(Edmonds, WA	
Client	Client Representative	Wouther
Enviracan	Tom Schnobrich	Light Raîn/Cool
Design Authority (onglineer or architect of record)	Dosign Authority Representative	HWA Project Manager
<u></u>		Tony Martin
Cigneral Contractor	General Contractor Representative	HWA Field Reprosentative
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

		Elev'n				ontrol*			ield Tes		i i	ative
		ΦΓ	Probe		octor/Ric		· · · · · · · · · · · · · · · · · · ·		sity	Moist.	. Comp	
Tost	5 4 11 1 7 1 1 1	Depth	Depth	J	Max.	Opt.	Over	Total	Dry	Moist.	Field	Spec
No.	Detailed Test Location	B.G.**	(in)	#	Dens.	Moist,	Size %	pcf	pcf	%	%	. %
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 localion is 0.5-Line at 16-Line.	-1fl	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
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Test Melhod	X ASTM D2922/D3017 (soil)				ASTM D2950 (asphalt) Other:							 ,
Densomeler:	X	Troxler 3440	Trox	ler 3430	P. C. C. C. C. C. C. C. C. C. C. C. C. C.	Troxler 34	411-B	_		CPN MC)1-DR-P	
	Serial #:	29276	Density Stan	dard Count.	2540	. 1	Moislure	Standard	d Count:	625		
*Lab Control:	<u> </u>	Standard Proctor			Modified	Proctor						
Accompanying	field repor	Asphalt Marshall ons and elevations to provides additional being placed. Bo	s are approximal information.	**Depth B	g provide: G. Indica	les depth t	oelow gr	ecific (és ado. Gra	t locatio	n and to		orll to
	Comple	eted By: <u>John F</u>	ł. "Jack" Ca	rlock	_	F	Roview	ed By:	Tony N	/artin		



Lynnwood, WA 98036 Tel. 425-774-0106

Field Report No.: Date (mm/dd/yy):

HWA Task No.:

FR-041 3/4/2007

HWA Project No.:

2007-132-23

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	Client Representative	Weathor
Envirocan	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: 1516 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 1foot 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:

HWA Field-Representative

SUMMARY OF UNRESOLVED ISSUES

Report# Item# Status

19730-64th Avenuo West, Suite 200

Lynnwood, WA 98036 Tel, 425-774-0100

Field Report No.:

FR-041 3/4/2007

Date (mm/dd/yy): HWA Project No.: 2007-132-23 HWA Task No.:

Proteot Namo	Location or Address of Project	TPermit No.
Chevron Edmonds	Edmonds, WA	
Client	Cliunt Reprosantative	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

	The same of the sa	Elev'n			Lab C	ontrol*		F	iold Tes	Rela	ative	
		or	Probe		octor/Ric				rsily	Moist.	Comp	action
Test	· ·	Depth	Depth	i	Max.	Opt.	Over	Total	Dry	Moist.	Field	Spec
No.	Detailed Test Location	B.G.**	(in)	#	Dens.	Moist.	Size %	pcf	pcf	%	%	%
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 ln	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 ln	AG-3	125,9	9.0	20.0	127.7	119.2	7.1	95	90
5	Excavation E-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
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Test Molhod	nod X ASTM D2922/D3017 (soil)					ASTM D	phalt)	Other:						
Donsometer:	X	Troxler 3440		Troxler	3430	21.	Troxler 3	3411-B			CPN MO	1-DR-P		
	Serial #:	29276	Density	Standar	d Count.;	2523	ı	Moisture	e Slandaro	i Count:	624	•		
tah Control:	X	Standard Proctor				Modified	Proctor							
		Asphalt Marshall	Density			Asphalt	Махітип	n Theore	lical Dens	ity (Rice	:)			
COMMENTS:	Test locali	ons and olevation	s are appr	oximato	. Testing	, provides	data on	ly for a s	pecific les	t location	n and to	a limilod	depih.	
Accompanying	field repor	t provides addition	al informa	ation. 🔭	Depth B,	G, indical	es depth	below g	rade. Gra	de moar	is the do	ន់ign ពីកាន	sh grade	of the
current type of t	fill material	l being placed. Bo	ided resu	ills indic	ate comp	action bo	low spec	ified valu	10.					
	Comple	ted By: John H	t. "Jack	" Carlo	ck			Reviev	ved By:	Tony N	//artin			

HWA GEOSCIENCES INC.

FAXMITTAL

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

Fax: 425-774-2714

Date:

March 13, 2008

From:

Tony Martin

HWA's Project #: 2007-132-23

Sent To...

FACTOR T CALLA	11541	AN
Company:	Envirocon	VII.4 W
Attention:	Tom Schnobrich	
Fax No.:	503-285-6205	Will a second se
Phone No.	503-285-6164	WALL TO SERVICE OF THE SERVICE OF TH

Number of Pages: 4 (including cover sheet)

	ORIGINAL TO FOLLOW BY MAIL	Yes	X No	1
- 1				

Subject: Chevron Edmonds

Tom,

Please find attached a copy of Field Reports FR-042 & FR-043, for the Chevron Edmonds Project.

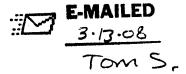
If you have any questions regarding the above, please call.

Bost Regards,

Tony Martin

Office: 425-774-0106

Cell: 206-794-3126





Lynnwood, WA 98036 Tel. 425-774-0106 Fox 425-774-2714 Field Report No.: Date (mm/dd/yy):

FR-043 3/6/2007 2007-132-23

HWA Project No.: HWA Task No.:

(¥ A A'U.F. 4~1 F') 4" カバン 4~1F F') F メッカンけい ヤケ メンコー	UAL 423-11-1-47 (4		
ORGEL NORPO	Location or Address of Project	Permit No.	
howen Edmonds	Edmonds, WA		

HAOROT DOUGO		i i
Chevron Edmonds	Edmonds, WA	
Client	Client Representative	Wesiher
Envirocon	Tom Schnobrich	Clear/Cool
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager
Design Manager of Engineers of Engineers	7	Tony Martin
Comment Controlled	General Contractor Representative	HWA Field Representative
General Contractur		John H. "Jack" Carlock
Enviraçan	Chuck Hyatt	DOINT I. BEGR OCHOOK

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:

HWA Field Representative

Reviewed:

HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES

Report# Item# Status

19730-64th Avenue West, Suite 200

Lynnwood, WA 98036

Tcl. 425-774-0106

Field Report No.:

Date (mm/dd/yy):

FR-043 3/6/2007 2007-132-23

HWA Project No.: HWA Task No.:

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

Design A	ultrarity (ungineer or architect of record)	Design Authority Representative				Tony Martin						
General Contractor Envirocon			General Contractor Representative Chuck Hyatt				HWA Field Representative John H. "Jack" Carlock					
COVITO	FIELD COMPA	<u> </u>		REP	ORT.	NHC	I FAR	<u> </u>				
MATE		ccompa				,100						
	ECT IMPROVEMENT TESTED:		compa			ort						
<u> </u>	Marie Control of the	Elev'n			Lab C	ontrol*		F	leld Tes	st]	Relative	
		рг	Probe	(Pro	octor/Ric		T	Density Moist.			Compaction	
Test		Depth		ID	Max.	Opt.	Over	Total	Dry	Moist.	Field	Spec
No.	Detailed Test Location	B.G.**	(in)	#	Dens.	Moist.	Size %	pcf	pcf	%	%	%
1	Excavation B-2, approximate. location is E-Line at 36-Line.	•3fl	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.	-4ſţ	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.	-6/1	12 in	AG-3	127.8	8.5	25.0	137.9	127.2	8.4	100	90
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Test M	ethod X ASTM D2922/D3017 (sc	oil)		ASTM	D2950 (a	sphait)			Other:			•
<i>*L</i>		Troxler	3430)]'roxler 3411-B CPN MC1-DR-P								
	Serial #: 29276 Densi	ty Standa	rd Count.	2525	-	Molslu	e Standa	rd Count	626			
*Lab Q				Modifie	d Procto	ŕ						
Vizenal Density		У		_\Asphal	t Maximu	m Theor	etical Der	ısity (Rl¢	e)			
COMN Accory	MENTS: Test locations and elevations are a spanying field report provides additional info	pproximat rmation *	e. Toslin *Depth B	g provido ,G, indica	es data o nics depl	nly for a h below	specific (e grade. G	ast location rade mea	on and to ins the di	a limited esign fini:	depth. h grade	of the

	#16	•		-			
Densomptor:	X	Troxier 3440		Troxler 3430		Troxler 3411-B	CPN MC1-DR-P
	Serial #:	29276	Density	Standard Count	2525	. Molsture Stan	dard Count: 626
*Lab Control:	X	Standard Prootor			_ Modified	•	
		Asphalt Marshall	Density	PRIVAL	_Asphalt	Maximum Theoretical D	Density (Rice) Lest location and to a limited depth.
COMMENIS:	Test location	ons and elevations	are app	roximate. Toslir	ig provide:	s data only for a specific	test location and to a limited depth.
Accompanying	field report	t provides addition	al inform	ation **Depth E	G, indica	les depth below grade.	Grade means the design finish grade of
current type of	fill material	i being placed. Bo	ilded resi	alls Indicate com	paction bo	low specified value.	
	Comple	ted By: John F	I. "Jack	" Carlock		Reviewed E	By: Tony Martin

HWA GEOSCIENCES INC.

FAXMITTAL

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

Fax: 425-774-2714

Date:

March 13, 2008

From:

Tony Martin

HWA's Project #: 2007-132-23

Sent To....

Sent ro	TAKEL JAK	MAIN'S TO THE STATE OF THE STAT
Company:	Envirocon	THE COLUMN TWO IS NOT THE PARTY OF THE PARTY
Attention:	Tom Schnobrich	7-6644
Fax No.:	503-285-6205	
Phone No.:	503-285-6164	THE COURT

Number of Pages: 4 (including cover sheet)

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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

HWAGEOSCIENCES INC. Fox. 425-774-2714

19730-64th Avenue West, Suite 200

Lynnwood, WA 98036 Tel. 425-774-0106

Field Report No.: Date (mm/dd/vv): FR-043

3/6/2007 2007-132-23

HWA Project No.: HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	Client Representativo	Weather
Envirocon	Tom Schnobrich	Clear/Cool
Design Authority (angineer or architect of record)	Design Authority Representative	HWA Project Manager
Design Authority (engineer of alchitect of fecolo)	Design () was lost by V sape and a same and	Tony Martin
General Contractor	General Contractor Representative	HWA Field Reprosentative
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 1foot 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:

HWA Field Representative

HWA Project Engineer or Reviewer-

SUMMARY OF UNRESOLVED ISSUES

Report# Item# Status

HWAGEOSCIENCES INC. Fax. 425-774-2714

19730-64th Avenue Wost, Suite 200

Lynnwood, WA 98036

Tel. 425-7/4-0106

Field Report No.:

FR-043

3/6/2007

Date (mm/dd/yy): HWA Project No.:

2007-132-23

HWA Task No.:

Project Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
The second state of the second	Client Representative	Weather
Client Envirocan	Tom Schnobrich	Clear/Cool
I [[VI] (J. (J)]	Design Authority Representative	HWA Project Manager
Design Authority (engineer or architect of record)	Design to the state of the stat	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	acco
PROJECT IMPROVEMENT TEST	ΞĎ:	56

see accompanying field report see accompanying field report

ent Americana	PANEL ST. O. Co.	Elev'n			Lab C				ield Tes		}	alive
		or	Probe		octor/Ric			Den		Moist.	Comp	
Test		Depth		ID .	Max.	Opt.	Over	Total	Dry	Moist.	Field %	Spec %
No.	Detailed Test Location	B.G.**	(in)	# .	Dens.	Moist.	Size %	pcf	paf	70		-76
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
5	Excavation B-10, approximate. localion is F-Line at 39-Line.	-41t	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	Had for An											
5												
6	Y PORTAL											
7	VON	v	<u> </u>									-
ß	- CAPTON						ļ					<u> </u>
9	- Children						<u> </u>		-			<u> </u>
10							_		-	-	-	ļ
11								ļ		-		ļ
12						<u> </u>		-	<u> </u>			
13	gravity 114 th with the same											<u> </u>

Test Method	X	ASTM D2922/D30	117 (soil)	ASTM D2950 (a:	sphalt)	Other
Densometer			Traxler 3430	Troxler	3411-8	CPN MC1-DR-P
	Serial #:	29276	Density Standard Count.:	2525	Moisture Standard Count:	626
*Lisb Control:	X	Standard Proctor		-		
		Asphalt Marshall	Density	Asphalt Maximu	m Theoretical Densily (Rice	s) un and to a limited denth
				g provides data di G. Indicates dept	iny for a specific test locate th below grade. Grade mea	ins the design finish grade of the
Accompanying a current type of f	field report ill material	, provides addition being placed. Bo	lded results Indicate comp	action below spe	spified value.	·
	X ASTM D2922/D3017 (soil) ASTM D2950 (asphalt) Other. X Troxler 3440 Troxler 3430 Troxler 3411-B CPN MC1-DR-P Serial II: 29276 Density Standard Count.: 2525 Moisture Standard Count: 626	Martin				



19730-64th Avenue West, Suite 200

Lynnwood, WA 98036 Tol. 425-774-0106

Field Report No.: Date (mm/dd/yy): FR-044 3/11/2007

HWA Project No.: 2007-132-23

HWA Task No.:

Project Name Chevron Edmonds Chent Envirocon Design Authority (Engineer or architect of record)	Location of Address of Project Edmonds, WA Client Representative Tom Schnobrich Design Authority Representative	Pernit No. Weather Rain/Cool HWA Project Managur Tony Martin
General Contractor Envirocon	General Contractor Representative Chuck Hyatt	Tony Martin 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

HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES

Report# Itom# Status

HWA GEOSCIENCES INC.

19730-64th AVE W STE 200

Lynnwood, WA 98036-5904 Tel. 425-774-0106

FAXMITTAL

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)

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OI	RIGINAL TO FOLLOW BY MAIL	Ycs	X No	İ
		the state of the s		

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. Fax. 425-774-2714

19730-64th Avenue West, Suite 200

Lynnwood, WA 98036 Tol. 425-774-0106

Field Report No.:

FR-042 - Revised

Date (mm/dd/yy): HWA Project No.:

3/5/2007 2007-132-23

HWA Task No.;

Project Name	Location or Address of Project	Permit Na.
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
DESIGN MOUNTAIN ANDRESS OF STATES AS A LONG OF		Tony Martin
General Contractor	General Contractor Representative	HWA Field Representative
Envirocon	Chuck Hyalt	John H. "Jack" Carlock

FIELD REPORT

SUMMARY OF FIELD TIME SPENT ON PROJECT TODAY:

First Sile 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 1foot 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:

HWA Field Representative

HWA Project Engineer or

SUMMARY OF UNRESOLVED ISSUES

Report# Item# Status

EWA.

HWAGEOSCIENCES INC. Fax. 425-774-2714

19730-64th Avenuo West, Suite 200

Lynnwood, WA 98036 Tel. 425-774-0106 Field Report No.:

FR-042 - Revised

Date (mm/dd/yy): HWA Project No.:

3/5/2007 2007-132-23

HWA Task No.:

Project Namo	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Client	Client Representativo	Weather
Envirocon	Tom Schnobrich	Clear/Cool
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager
Detail Millions (engineer or monitor or re)		Tony Martin
General Contractor	General Contractor Representative	HWA Field Representative
Envirocon	Chuck Hyatt	John H. "Jack" Carlock
(ETMIOCOT)	The state of the s	

_								Tony N				
	(A) (A) (A)		ontractor f	Represent	alive			HWA Field			·k	
Enviro	con	Chuck Hyatt John H. "Jack" Carlock CTION TEST REPORT - NUCLEAR METHOD										
						· NUC	LEAR	MEI	מטו			
MATE	RIAL BEING PLACED: <u>see ac</u>											
PROJ	ECT IMPROVEMENT TESTED:	see ac	compai	nying fic	old repo	ort						
w	Carried State Control of Control	Elev'n		- MANAGE -	Lab C	ontroi*	T/A BARA	F	ield Tes	st		ativo
l r		or	Probe	(Pro	octor/Ric		,	Der		Moist.		
Test		Dopth		ID	Max.	Opt.	Over	Total	Dry	Molst.	Fleld	Spec
No.	Detailed Test Location	B.G.**	(in)	#	Dons.	Moist.	Size %	pcf	pcf	%	%	_ %
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 6-2, approximate. location is F.5-Line at 35-Line.	-6/t	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.	-6/(12 in	AG-3	124.0	9.5	15.0	129.5	121.9	7.5	98	90
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Reviewed By: Tony Martin	

Completed By: John H. "Jack" Carlock

HWA GEOSCIENCES INC. Fax. 425-774-2714

19730-64th Avenue West, Suite 200

Lynnwand, WA 98036 Tel, 425-774-0105

Field Report No.:

FR-043 - Revised

Date (mm/dd/yy): HWA Project No.: 3/6/2007 2007-132-23

HWA Task No.:

Projec (Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Chart	Client Representative	Weather
Envirogen	Tom Schnobrich	Clear/Cool
Design Authority (engineer or architect of record)	Design Authority Representative	HWA Project Manager
Disagn Adalenty (Sugmoot of Stanished or Joseph)		Tony Martin
General Contractor	General Contractor Representative	HWA Field Representative
Erivirocon	Chuck Hyalt	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 Deerc 700-Class bull-dozer, and compaction was accomplished using an Ingersoll-Rand SD-116 pad fool, single-drum 12-ton compactor. The thickness of each lift of the fill placed was observed to be between 1foot 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. Tost 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:

HWA Field Répresentative

Reviewed:

HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES

Report# Item# Status

HWAGEOSCIENCES INC. Fox. 425-774-2714

19730-64th Avenue Wost, Suite 200

Lynnwood, WA 98036 Tel. 425-774-0106

Field Report No.: Date (mm/dd/yy): FR-043 - Revised

3/6/2007 HWA Project No.: 2007-132-23

HWA Task No.:

(Project Name	Location or Address of Project	Permit No.
Cheyron Edmonds	Edmonds, WA	
Charl	Client Representative	Weather
Envirogen	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

Eriyiro	con	Tom Schnobrich						Clear/Cool				
Design A	Illiority (engineer or architect of record)	1 Board County Lower					HWA Project Manager Tony Martin					
o semilario	Could tracket	General Contractor Representative					HWA Field Representative					
Enviro	Clair Countries							John H. "Jack" Carlock				
THEMS. W.	FIELD COMPACTION TEST REPORT - NUCLEAR METHOD											
MATE	RIAL BEING PLACED; see ac											
	ECT IMPROVEMENT TESTED:		compai			ort						
	Elev'n Lab Control* Field Test Relative										alive	
		OF	Probe	(Pro	octor/Ric		hall)		isity	Moist.	}	action
Test		Dopth	Depth	al	Мах,	Opt.	Over		Dry	Moist.	Field	Spec
No.	Detailed Test Location	B.G.**	(in)	#	Dens.	Moist.	Size %	pcf	pcf	%	- %	%
1	Excavation B-2, approximate. focation 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.	-Gft	12 in	AG-3	127.8	8.5	25.0	137.9	1.27.2	8.4	100	90
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*Lab C	*Lab Control: X Standard Proctor Modified Proctor											

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Test Method	X	ASTM D2922/D3	017 (sail)		ASTM D2950 (a	sphalt)	Other:	
Donsometer:	X	Troxler 3440	Troxle	r 3430	Troxler	3411-B	CPN MC1-DR-P	
	Serial 非	29276	Density Stands	ard Count.;	2525	Moisture Standar	d Count: 626	
Lab Control:	X	Standard Proctor			Modified Proclor	•		
		Asphalt Morohall	Density		Asphalt Maximu	m Theoretical Den	sity (Rice)	
COMMENTS: 1	Tost location	ons and elevations	are approxima	la. Testing	j provides data o	nly for a specific to	st location and to a limited	depth.
Accompanylno	field ruport	provides addition being placed. Bo	al information.	**Depth 🖰,	G, indicales dept	h below grade. Gr	ade means the design finis	h grade of the
		ted Byr John F				Reviewed By:	Tony Martin	

HWAGEOSCIENCES INC. Fax. 425-774-2714

19730-64th Avenue West, Suite 200

Lynnwood, WA 98036 Tel. 425-774-0106

Field Report No.: Date (mm/dd/yy):

FR-044 3/11/2007 2007-132-23

HWA Project No.: HWA Task No.:

Project North	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Circul	Client Representative	Weithar
Envirocon	Tom Schnobrich	Rain/Cool
Design Authority (angineer or architect of record)	Design Authority Representative	HWA Project Manager
Design Kinnerty Jungment of Brainburg of Towards	(Tony Martin
Juneral Confractor	General Contractor Representative	HWA Field Ropresentative
Envirocen	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 Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES

Report# Item# Status



19730-64th Avenue West, Suita 200

Lynnwood, WA 98036

Tel. 425-774-0106

Field Report No.:

FR-045 3/17/2007

Date (mm/dd/yy): HWA Project No.:

2007-132-23

HWA Task No .:

[5roject Name	Location or Address of Project	Permit No.
Chevron Edmonds	Edmonds, WA	
Churt	Client Representative	Weather
Envirocon	Tom Schnobrich	Clear/Cool
Design Authority (ungineer or architect of record)	Design Authority Rupresentative	HWA Project Manager
Average Averag		Tony Martin
General Contractor	General Contractor Representative	HWA Field Representalive
Envirocon	Chuck Hyatt	John H. "Jack" Carlock

FIELD REPORT

SUMMARY OF FIELD TIME SPENT ON PROJECT TODAY:

First Sile 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 8-2, 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. Tost 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:

HWA Field Representative

HWA Project Engineer or Reviewer

SUMMARY OF UNRESOLVED ISSUES

Report# Item# Status

HWAGEOSCIENCES INC. Fox. 425-774-2714

19730-64th Avenue Wost, Suite 200

Lynnwood, WA 98036 Tel. 425-774-0106

Field Report No.:

Date (mm/dd/yy): HWA Project No.:

3/17/2007 2007-132-23

FR-045

HWA Task No.:

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

Envirogon Tom Schnobrid									Clear/Cool					
Design Authority (engineer or prohitect of record) Design Authority					spresentative				HWA Project Manager					
										Tony Martin				
					Representative HWA Field Representative John H. "Jack" Carlock									
Enviro	The second secon	Chuck								Cario	SK			
	FIELD COMPA					- NUC	LEAR	MET	HOD					
	RIAL BEING PLACED: see ac													
PRQJI	CT IMPROVEMENT TESTED:	see ac	compai	nying fi	eld repo	ort				,		,,		
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		OL	Probe	(Pro		ce/Mars	haitt		nsity	Moist.	l	action		
Test		Depth	Depth	· · · · · · · · · · · · · · · · · · ·	Мах,	Opt.	Over	Total	Dry	Moist.	Field	Spec		
	Detailed Test Location	B.G.**	1	#	Dens.		Size %	pcf	pcf	%	%	%		
No.	Excavation B-2, approximate.	0.42,						-	<u> </u>					
1	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-Ling at 39-Line.	grade	12 in	AG-3	127.8	8.5	25.0	128.9	119.5	7,9	94	90		
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Test Me		()	,	ASTM) 0295¢	sphalt)			Other:		., .,			
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*Lab C				_	d Proctor				,					
Asphalt Marshall Density				Asphalt Maximum Theoretical Densily (Rice)										

Test Mathod	X	V2.1W D5855/D30	U17 (SOII)	V-117-1	A2 IM DS850	(aspnan)		Ottet.
Densometera	X	Traxler 3440	T	roxler 3430	Trox	ler 3411-B	h	CPN MC1-DR-F
	Serial#:	29276	Density St	andard Count:	2527	Moislure St	andard Count:	G22
*Lab Control:	X	Standard Proctor			Modified Proc			
		Asphalt Marshall	Density		Asphalt Maxir	mum Theoretica	l Densily (Rice)
COMMENTS: T	Test location	ons and elevations	are appro	ximate. Testing	provides data	only for a spec	ific test location	n and to a limited depth.
Accompanying fourrent type of f	lield report III material	t provides addition I being placed. Bo	al informati ilded result	ion. **Depth B. s indicate comp	3. indicates de action below s	epth below gradi specified value,	e. Grade moar	ns the design finish grade of the
	Comple	ted By: John H	l. "Jack" i	Carlock		Reviewed	By: Tony N	Martin

Acceptance__

ARQPROPOSAL08.11.2006

PROPOSAL: Beaverton Creek Channel Enhancement

5038295998

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: 3-25-200	08					
Contractor: Fax: Site: Prices Per To	on S. Ball Ro	Phone: ad Quarry — I	Molalla, Oregon	Cell					
Product	Qty.	Unit Price	Haul Rate	Total Delivered					
36"- 42"	260 each	\$ 39.95	\$ 17.00	\$ 56.95 with solo					
 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 <u>DO NOT INCLUDE</u> 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 Dregon Department of Transportation. 									
Authorized Si	gnature	ile Mu	Wen -	Dated <u>3-18-2</u> -8					

Dated ___