Scan ID 412518

State of Oregon
Department of Environmental Quality — 8091 1AD 00800

Onsite Permit ID: **OS411069**

Certificate of Satisfactory Completion

Installation of this onsite wastewater treatment system has been determined to comply with the applicable requirements in Oregon Administrative Rules Chapter 340, Divisions 071 and 073 and the conditions of Permit OS411069 as follows:

PROPERTY INFORMATION

Property Owner: **Bill Kaufman**
Property Location: **Astoria**
Facility Type: **Single Family Dwelling**
3 Bedrooms

Township 08N, Range 09W, Section 11 AD
Tax Lot 800
Clatsop County

SPECIFICATIONS AND REQUIREMENTS

System type: Sand Filter: Conventional - Residential

Design Flow:	**450 gals/day**
Minimum Septic Tank Size:	**1000 gals**
Minimum Dosing Tank Size:	**500 gals**
DistributionType:	**Serial**
Total Trench Length:	**150 Linear feet**
Trench Spacing:	**8 feet***
Sand Filter:	**360 SqFt**
Maximum Trench Depth:	**30 inches**
Minimum Trench Depth:	**24 inches**

*Minimum undisturbed soil between trenches

ADDITIONAL CONDITIONS

1 In accordance with Oregon Revised Statute 454.665, this Certificate of Satisfactory Completion is issued as evidence of satisfactory completion of an onsite wastewater treatment system at the location identified above.

2 Issuance of this Certificate does not constitute a warranty or guarantee that this onsite wastewater treatment system will function indefinitely without failure. Conditions imposed as permit requirements continue for the life of the system.

3 The area of the initial and the identified replacement area must not be subjected to activity that is likely to adversely affect the soil or the functioning of the system. Such activities may include, but are not limited to, vehicular traffic, livestock, covering the area with asphalt or concrete, filling, cutting, or other soil modification activities.

4 This onsite wastewater treatment system must be connected to the facility referenced herein within 5 years of the issuance of this Certificate of Satisfactory Completion (CSC) or rules for authorization notices, alteration permits, or construction-installation permits as outlined in OAR 340-071-0160, 340-071-0205, or 340-071-0210 apply, including payment of an additional fee.

SCANNED
DEC 12 2011

5 This system must operate in compliance with OAR Chapter 340, Division 071 and must not create a public health hazard or pollute public waters.

6 Unless otherwise required by the agent, the system installer must backfill (cover) this system within 10 days after the issuance of this Certificate of Satisfactory Completion.

Installer Name: Robert E. Martens: dba Robert Martens Excavation

To be valid, this document must be signed by an "Agent" as defined in OAR 340-071-0100.

	Onsite Wastewater Specialist	**11/30/2011**
Authorized Agent:	Title	Date CSC Issued

Don Jossie

Department of Environmental Quality
Northwest Region - Warrenton Office
65 N Highway 101, Suite G
Warrenton, OR 97146
Phone: (503) 861-3280
Fax: (503) 861-3259

For Official Use Only/Date Received:

Final Inspection Request and Notice - Onsite ID: 411069

Pursuant to the requirements within ORS 454.665, OAR 340-071-0170 and OAR 340-071-0175, the system installer and/or the permittee must notify the Department of Environmental Quality (or its authorized Agent) when the construction, alteration or repair of a system for which a permit was issued is completed and prior to backfilling or covering the installation. The Department (or Agent) has 7 days to perform an inspection of the completed construction/installation following the official notice date, unless the Department (or Agent) elects to waive the inspection and authorizes the system to be backfilled. Receipt and acceptance of this completed form by the Department (or Agent) establishes the official notice date of your request for the pre-cover inspection. Faxed copies are acceptable for inspection request purposes only. Originals must be received before a Certificate of Satisfactory Completion is issued. Please complete sections 1 through 4 on the form and return it to the office that issued the permit. Forms that are determined to be incomplete will be returned.

SECTION 1: Owner/Permittee Information:

Name: Bill Kaufman

Property Address: Astoria

Township 08N, Range 09W, Section 11 AD

Clatsop County TaxLot#: Tax Lot 800

SECTION 2: System Component Specifications:

A. Tanks/Pumps — System Type: Sand Filter: Conventional - Residential

							Water tight verification*
Tanks(1)	Volume: 1500	Compartments: 2		Manufacturer: A-1 Concrete			Date: 11-15-11
Tanks(2)	Volume:	Compartments:		Manufacturer:			Date:
Pump(s)	HP: 1/2	Model/Manuf. PF30 ORENCO		Float(s)Type(1): 3	Model/Manuf. "A"	ORENCO	
				Float(s)Type(2): 1	Model/Manuf. "T"	ORENCO	

B. Piping

Effluent Sewer (tank to drainfield)	Yes	No	Diameter:	ASTM#/Other:	Length:
Pressure Transport Pipe	Yes X	No	Diameter: 1 1/4"	ASTM#/Other: 1785	Length: 32 Ft

C. Secondary Treatment Unit:

Sand Filter**	Yes X	No	Type: Conv	Container Dimensions: 10X36
Underdrain pipe	Diameter: 4"	ASTM#/Other:		Length: 35'
Manifold piping	Diameter: 1 1/4	ASTM#/Other: 1785		Length: 8
Internal Pump	HP:	Model/Manufacturer		
Floats(1)	Type:	Model/Manufacturer		
Floats(2)	Type:	Model/Manufacturer		

ATT	Yes	No	Model:
Certified Maint.	Provider Name:		
Operation and Maint.	Contract Received?	Yes	No

D. Drainfield Media

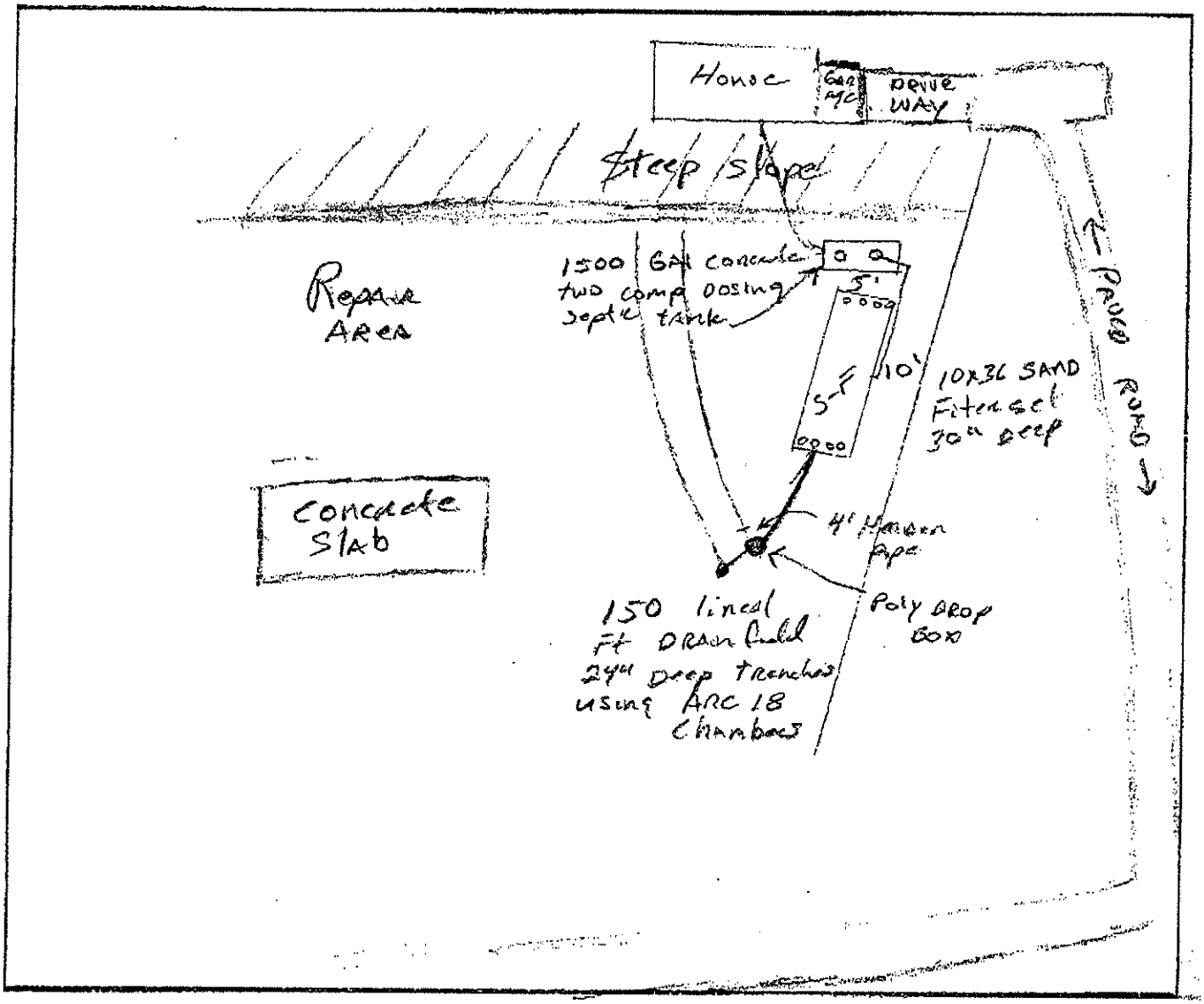
Type	(Gravel, Pipe or Alternative?) ARC 18 Chambers					
Distribution Box	Yes	No				
Drop Box	Yes X	No				
Distribution Pipe	Yes X	No	Diameter: 4"	ASTM#/Other: 3034	Length: 10 Ft	

Comment: 64" to 65" high on squirt test

*All Tanks(s) were tested for water-tightness after installation and passed in accordance with OAR 340-073-0025(3)
**Attach sieve analysis for Underdrain Media and Filter Sand

SECTION 3 - As Built Plan:

AS-BUILT PLAN OF THE CONSTRUCTED SYSTEM. Indicate the direction of NORTH. Show locations of all wells within 200 feet of the system. Show system setback distances from property lines, structures, wells, streams, etc.



SECTION 4 - Construction was performed by (Signature Required)

I certify that the information provided on both pages of this document is correct and that the construction of this system was in accordance with the permit and the rules regulating the construction of onsite wastewater treatment systems (OAR Chapter 340, Divisions 71 and 73).

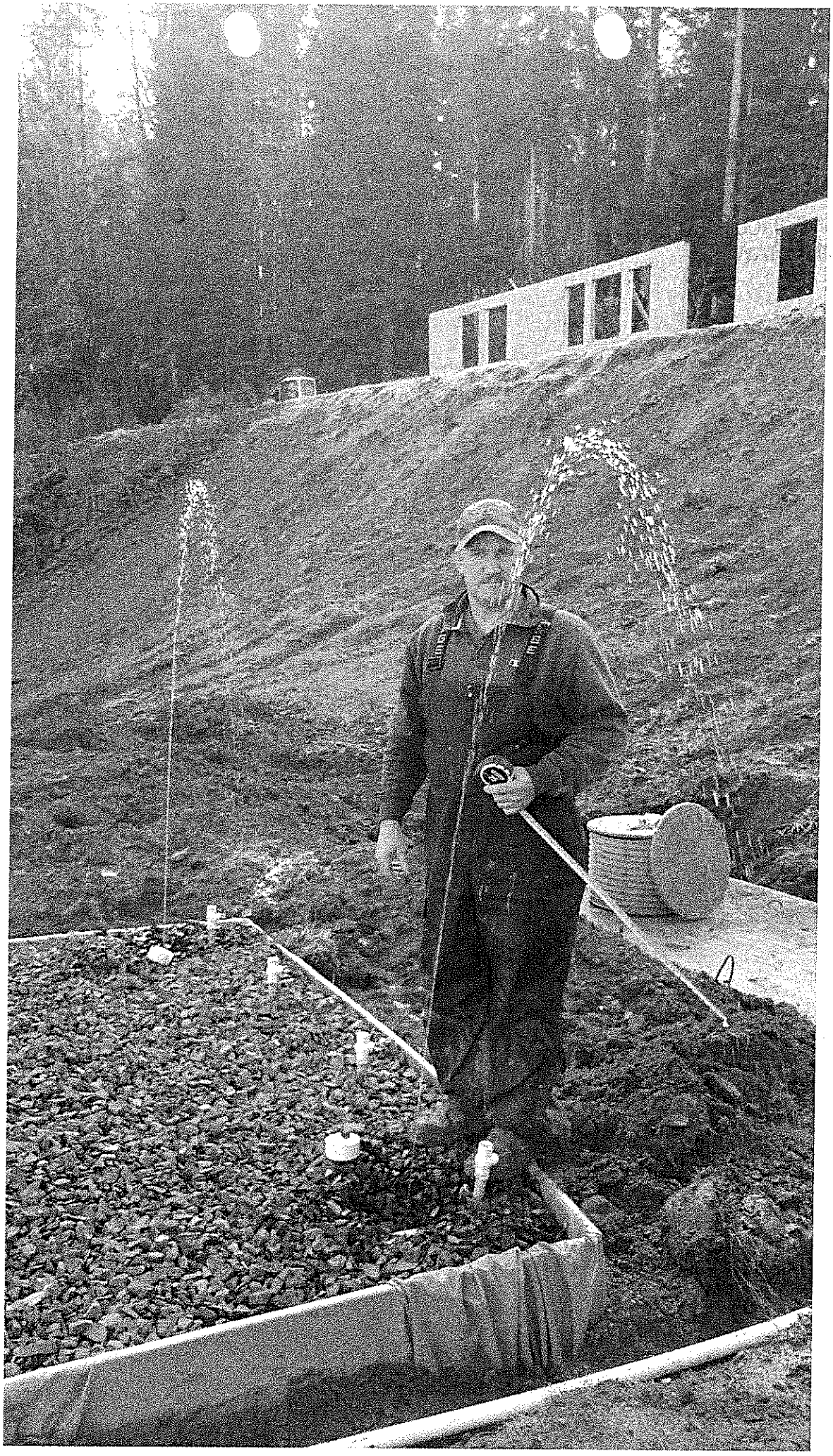
Owner/Permittee or Certified Installer w/Certification#:	Print Name: Robert Martens Excavation				
Licensed Installer:	Yes X	No	License#: 37547	Certification#: RI 338	
Owner/ Certified Installer:	Signature: Robert E Mart		Date: 11-30-11	Phone#: 503-440-2724	

SECTION 5 - Office Use Only:

Notice Accepted	Yes	No	Date:	Installer/Owner (Permittee) Notified: Yes	No / Date:

If No, Reason for Non Acceptance: _____

Comment: _____



* Agency Sign-Off

Information on this form must be filled out and signed in this order

---

1) **JOB SITE INFORMATION (to be filled out by applicant/owner/agent):**

Job Site Address:_____ City:_____

Owner: Bill Kaufman Phone:_____

Owners Address: 13804 Birch St. Long Beach, WA 98631

Agent:_____

Proposed Development/Construction: _____

2. STATE DEPARTMENT OF ENVIRONMENTAL QUALITY (DEQ) (to be filled out and signed by DEQ) **OR LOCAL SEWER DISTRICT**:

Legal Description: T 8 R 9 SEC 11 AD Tax Lot(s) 800

Permit Needed - Yes (✓) No ( ) Site Approved - Yes (✓) No ( )

Signature: V. Schell Date:_____

Remarks: OS 411069

DEQ North Coast Branch Office, 65 North Highway 101, Suite G, Warrenton, Oregon 97146 Phone: (503) 861-3280 FAX (503) 861-3259

3. WATER DISTRICT OR PROOF OF WATER RIGHTS FROM WATER RESOURCES DEPT (signature of water district required)

Gallons per minute_____

Signature:_____ Title:_____ Date:_____

Remarks:_____

Water Resources Dept, 725 Summer St NE, Salem, OR 97301 Phone: (503) 986-0900 FAX (503) 986-0904

4. FIRE DEPARTMENT/FIRE DISTRICT ACCESS AND WATER SUPPLY REQUIREMENTS:

Water/Fire Flow: _____ Number of Hydrants: _____ Hydrant Location (s): _____

Signature:_____ Title:_____ Date:_____

Remarks:_____

Contact the local RFPD having jurisdiction. Applicable to all CUP, partitions, subdivisions, and land use approvals issued after 1/01/03.

Internal Use Only:

____ Proof of Legal Lot Status (if substandard in size)	* ✓ Agency Sign-Off Sheet
____ Preliminary Geologic Hazard Report (if necessary)	____ ✓ Proof of Potable Water
____ Pre-Elevation Certificate (if necessary)	____ ✓ Proof of a DEQ Approved Sanitary System
✓ Application signed by the owner and applicant	____ Average Grade Calculations
✓ Plot Plan, indicating setbacks, parking, landscaping, etc.	____ ✓ Address Request (if necessary)
✓ Erosion Control & Drainage Plan	____ ✓ 2 Sets of Building Plans
____ Road Access Permit from the County or ODOT	____ National Wetlands Inventory: Notify/Receive approval from DSL?

Scan ID 412518

State of Oregon
Department of Environmental Quality

Onsite ID: **OS411069**
Expiration Date: **10/11/2012**

Construction-Installation Permit

This Construction-Installation Permit OS411069 authorizes the property owner to construct an onsite wastewater system as follows:

PROPERTY INFORMATION

Property Owner:	**Bill Kaufman**	**Clatsop County**
Property Location:	**Astoria**	**Township 08N, Range 09W, Section 11 AD**
Facility Type:	**Single Family Dwelling**	**Tax Lot 800**
	3 Bedrooms	

SPECIFICATIONS AND REQUIREMENTS

System Type: Sand Filter: Conventional - Residential

Design Flow:	**450 gals/day**
Minimum Septic Tank Size:	**1000 gals**
Minimum Dosing Tank Size:	**500 gals**
DistributionType:	**Serial**
Total Trench Length:	**150 Linear feet**
Trench Spacing:	**8 feet***
Sand Filter:	**360 SqFt**
Maximum Trench Depth:	**30 inches**
Minimum Trench Depth:	**24 inches**

*Minimum undisturbed soil between trenches

ADDITIONAL CONDITIONS

1 An electrical permit and inspection from the Department of Consumer and Business Services, Building Codes Division or the municipality with jurisdiction is required for all pump wiring installation.

2 Each trench to be level and on contour.

3 Meet all required setbacks.

4 The system must be installed by the property owner or a licensed sewage disposal business (installer).

5 The system must be installed in accordance with the plan approved by the agent, including any changes made by the agent.

6 Vehicular traffic and livestock must be restricted from the system area.

7 All roof drains must be directed away from the system.

8 All work is to conform to Oregon Administrative Rules, Chapter 340, Divisions 071 and 073. Make no changes in system location or specifications without written approval from the permit issuing agent.

INSPECTION REQUIREMENTS

[1] A final inspection request and notice form including a detailed and accurate as-built plan of the constructed system and a list of all materials used in the construction of the system must be completed and submitted prior to requesting a final inspection.

[2] A pre-cover inspection of the installed absorption facility (prior to backfill) is required.

[3] A squirt test inspection of the pressurized piping system is required.

[4] An inspection of the constructed cap is required.

For pre-cover inspection information, contact your agent below:

Don Jossie	**Onsite Wastewater Specialist**	**10/11/2011**	**10/11/2012**
Authorized Agent:	Title	Date Issued	Expiration Date

Don Jossie

Department of Environmental Quality
Northwest Region, Warrenton Office
65 N Highway 101, Suite G
Warrenton, OR 97146
Phone: (503) 861-3280
Fax: (503) 861-3259

See the Attachment 1 for additional information about your permit.

Application for Onsite Sewage Treatment System

State of Oregon Department of Environmental Quality

Department of Environmental Quality
65 N Highway 101, Suite G
Warrenton, OR 97146

Phone/TTY: (503) 861-3280
Fax: (503) 861-3259

Date Stamp: DEPT OF ENVIRONMENTAL QUALITY RECEIVED OCT 10 2011 NORTH COAST BRANCH OFFICE WARRENTON

For DEQ Use Only: Scan ID 412518
Date Received 10/10/11
Fee Paid 1550.00
Receipt Number 147203
Application Number 412518
Date of 1st Response
Date of 2nd Response
Date of Final Response
Date of Completion
Scanned Data Entry

A. Property Owner Information

Bill Kaufman | 13804 Beach st long Beach WA 98631 | 360-244-4300
Name | Mailing Address (Street or PO Box, City, State, Zip Code) | Phone Number

B. Legal Property Description

8N | 9W | 11AD | 800 | | 2 AC
Township | Range | Section | Tax Lot | Tax Account Number | Acreage or Lot Size

Clatsop | | #2 | |
County | Subdivision Name | Lot | Block

Property Address: Lot 2 Harmony Hills | Astoria | OR | 97103
Address | City | State | Zip Code

Directions to Property: From Astoria Head East on Hwy 30 about 3 miles to Harmony Hills on Right side of Hwy

C. Existing Facility / Proposed Facility / Water Information

Existing Facility:
☐ Single Family Residence
Number of Bedrooms
☐ Other

Proposed Facility:
☒ Single Family Residence
3
Number of Bedrooms
☐ Other

Water Supply:
☒ Public John Day
Name
☐ Private
Well, Spring, Shared

D. Type of Application

☐ Site Evaluation
☒ Construction Permit
☐ Repair Permit ☐ Major ☐ Minor
☐ Alteration Permit ☐ Major ☐ Minor
☐ Renewal Permit
☐ Existing System Evaluation
☐ Permit Transfer
☐ Permit Reinstatement
☐ Authorization Notice for:
- ☐ Connecting to an Existing System Not in Use
- ☐ Replacing a Mobile Home or House with Another Mobile Home or House
- ☐ The Addition of One or More Bedrooms
- ☐ Personal Hardship
- ☐ Temporary Housing
- ☐ Other – Please Specify

If the required fee and attachments are not included with this application, it will be returned to you as incomplete. Post a flag or sign with your name and address at the entrance to the property. Flag and number the test holes.

By my signature, I certify that the information I have furnished is correct, and hereby grant the Department of Environmental Quality and it's authorized agents permission to enter onto the above described property for the sole purpose of this application.

Robert Mantus | 10-10-11
Signature | Date

Robert Mantus
Applicant's Name – Please Print Legibly

Applicant's Phone Number

Applicant's E-mail Address

Applicant's Mailing Address

Applicant is the ☐ Owner ☒ Authorized Representative ☐ Authorization Attached

☒ Licensed Septic Installer
Robert Mantus
Installer's Name

Rev 8-14-03 bjk

Department of Environmental Quality
Warrenton Office
65 N. Highway 101, Ste. G, Warrenton OR 97146
(503) 861-3280 Connie Schrandt

State of Oregon Department of Environmental Quality

NOTICE AUTHORIZING REPRESENTATIVE

I, William Kauffman, Lillian Kauffman, Susan Kauffman, have authorized
(Property Owner/Print Name)
Robert Masters to act as my agent in performing
(Authorized Representative/ Print Name)
the activities necessary to obtain site evaluations, permits, and other onsite wastewater treatment program services provided by the Department of Environmental Quality on the property described below in accordance with OAR chapter 340, division 071. I agree that any costs not satisfied by the Authorized Representative are my responsibility.

PROPERTY IDENTIFICATION:

Lot 2, Harmony Hills
Property Situs or Road Address

And described in the records of Clatsop County as:

Township 8N Range 9W Section 1140 Map ID ____ Tax Lot #(s) 800

Township ____ Range ____ Section ____ Map ID ____ Tax Lot #(s) ____

PROPERTY OWNER:

Printed Name: William Kauffman, Lillian Kauffman, Susan Kauffman
Signature: [signature] Date: 10/6/11
Address: 13804 Birch St, Long Beach, WA 98631 Phone: 360-244-4300
City, State, Zip 13804 Birch St, Long Beach, WA 98631 Fax: ____
E-mail Address Astoriaattorney@Legacy.Net.Com

AUTHORIZED REPRESENTATIVE:

Printed Name: Robert Masters
Signature: [signature] Date: 10-5-11
Address: 92857 Willisle Loop Phone: 503-325-0615
City, State, Zip Astoria OR 97103 Fax: " " "
E-mail Address ____

SECTION 1 - TO BE COMPLETED BY APPLICANT (may be filled in electronically by tabbing to each field)

1. Applicant Name/Property Owner: Robert Mintas
   Mailing Address: 92859 Wallicks Loop
   City, State Zip Code: Astoria OR 97103
   Telephone: 503-440-2724

2. Property Information:
   County: Clatsop Tax Lot No.: 800
   Township: 8N Range: 9W Section: 11AD
   Physical Address: Lot 2 Harmony Hts
   Block: Lot:
   Subdivision Name (if applicable): Harmony Hts

3. This proposed facility is for:
   [X] An individual, single-family dwelling
   [ ] Describe the type of development, business, or facility and the provided services or products:

4. Permit or approval being requested:
   [X] Construction-Installation permit for: [X] New Construction [ ] Repair [ ] Alteration
   [ ] Non-water-carried facility requests (for example, pit privy/vault toilet for campgrounds)
   [ ] Authorization Notice for: [ ] Replacement of dwelling [ ] Bedroom addition
   Print Form [ ] Other changes in land use involving potential sewage flow increases

SECTION 2 - TO BE COMPLETED BY CITY OR COUNTY PLANNING OFFICIAL

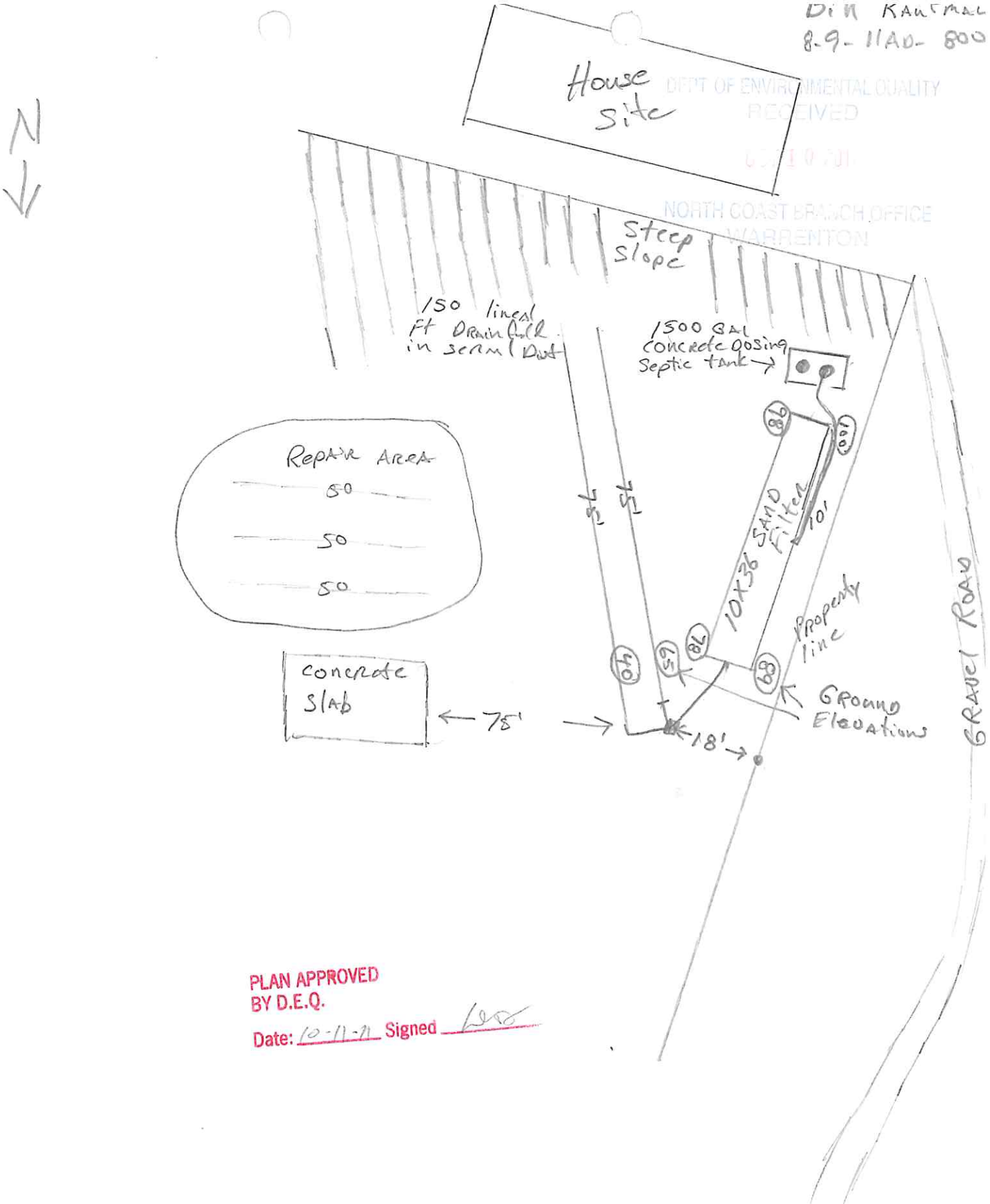
5. Property Zoning: RA-1 Zoning Minimum Parcel Size: 2 acres

6. The facility is located: [ ] inside city limits [ ] inside UGB [✓] outside UGB
   If inside UGB, the proposed facility is subject to:
   [ ] City jurisdiction [✓] County jurisdiction [ ] Shared City/County jurisdiction

7. Does the proposed facility comply with all applicable local land use requirements: [✓] Yes [ ] No
   If you answered "Yes" above, was this compliance based on:
   [ ] Compliance with local comprehensive plans and land use requirements (provide a citation to the applicable provisions)
   [ ] Conditional approval (provide findings and citation or attach a copy of the applicable land use decision)
   [ ] Measure 49 waiver (provide Department of Land Conservation and Development approval number)
   Either provide reasons for affirmative compliance decision or attach findings of fact:
   LWDUO # 80-14, Section 3.180

8. Planning Official Signature: Julia Decker
   Print Name: JULIA DECKER Date: 10-10-2011
   Title: PLANNER Telephone: 503-325-8611

DIN KAUFMAN
8-9-11AD-800



PLAN APPROVED
BY D.E.Q.
Date: 10-11-11 Signed

Robert Mathews

Bill Kaufman
8-9-11 AD-800

Materials list

1500 Gal A.I concrete two compartment dosing - septic tank

2- Orenco Fiberglass Risers and lids

1- 1/2 hp 30 GPM pump
1- Bio tube pump vault
1- Electrical splice box
1- SIRO control panel
1- 1¼ hose and valve Assemblie
1- 3-"A"-1"T" Float Assemblie
74- 3/4" orifice shields
8 Ft 1¼ manifold pipe
8-17' 3/4" dist piping
1- 16x42 liner
10 yds Scrpposed sand and gravel - Pea Gravel
10 yds Tecum-Fisher DEQ drain rock
30 yds BCX Filter sand
20 Ft 1¼ Transport pipe

PLAN APPROVED
BY D.E.Q.
Date: 10-11-11 Signed

Ret
Mst

Bill Kaufman
8-9-11 AD - 800

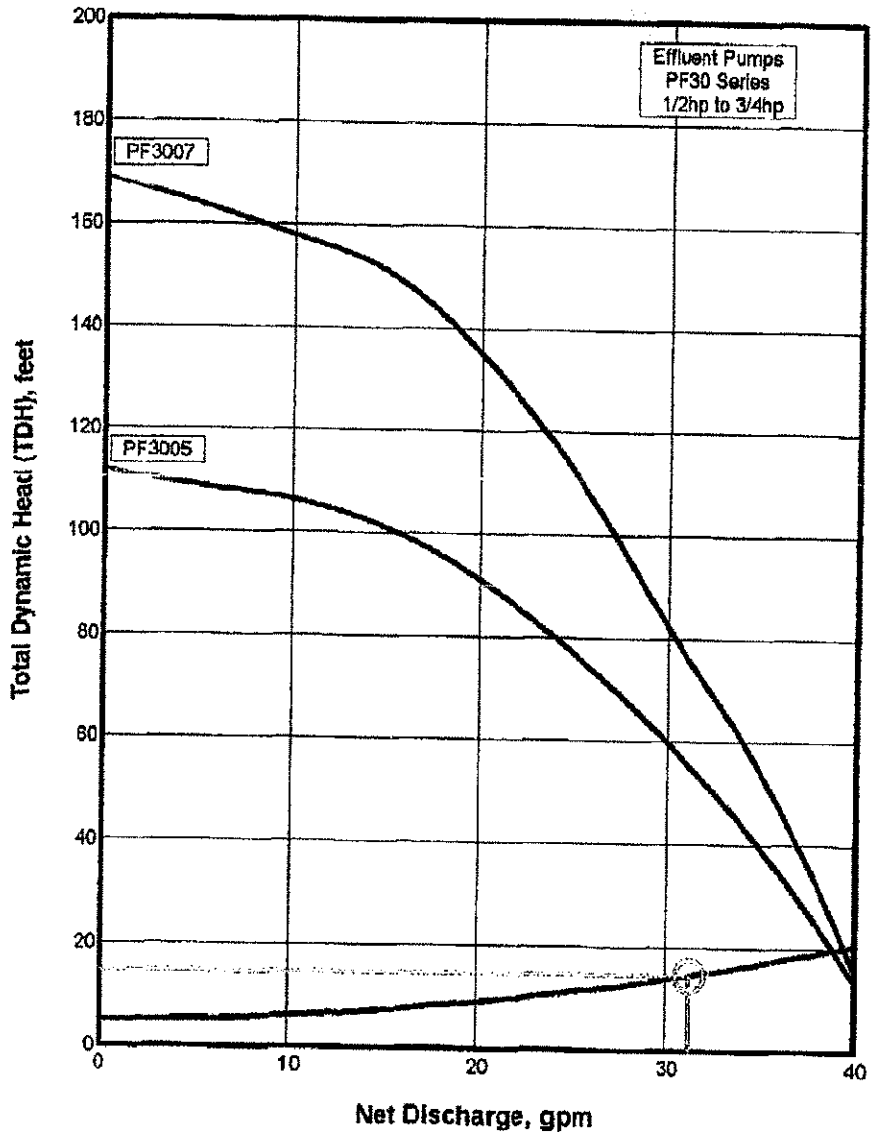
Pump Selection for a Pressurized System

Input Parameters

Orifice Size	1/8	inches
Residual Head at Last Orifice	5.0	feet
Orifice Spacing	2.00	feet
Number of Laterals per Cell	8	
Lateral Length	17.0	feet
Lateral Line Size	0.75	inches
Lateral Pipe Class/Schedule	40	
Distributing Valve Model	None	
Manifold Length	8.0	feet
Manifold Line Size	1.25	inches
Manifold Pipe Class/Schedule	40	
Lift to Manifold	5.0	feet
Transport Length	20.0	feet
Transport Line Size	1.50	inches
Transport Pipe Class/Schedule	40	
Discharge Assembly Size	1.50	inches
Flow Meter	None	inches
'Add-on' Friction Losses	0.0	feet

Calculations

Minimum Flow Rate per Orifice	0.43	gpm
Number of Orifices per Zone	72	
Total Actual Flow Rate	31.3	gpm
Number of Lines per Zone	8	
% Flow Differential 1st and Last Orifice	1.7	%
Lift to Manifold	5.0	feet
Residual Head at Last Orifice	5.0	feet
Head Loss in Laterals	0.2	feet
Head Loss Through Distributing Valve	0.0	feet
Head Loss in Manifold	0.3	feet
Head Loss in Transport Pipe	1.1	feet
Head Loss Through Discharge	2.9	feet
Head Loss Through Flow Meter	0.0	feet
'Add-on' Friction Losses	0.0	feet
Total Flow Rate	**31.3**	**gpm**
TDH	**14.6**	**feet**



Orenco Syster
Incorporated

814 AIRWAY AVENUE
SUTHERLIN, OREGON
97479

TOLL FREE:
(000) 348-9843

TELEPHONE:
(541) 459-4449

FACSIMILE:
(541) 459-2684

www.orenco.com

Robert Markens

Scappoose Sand & Gravel Co.
33485 E. Crown Zellerbach Road • P.O. Box AF • Scappoose, Oregon 97056
Phone (503) 543-8821 • Fax (503) 543-7997

UNDERDRAIN MEDIA / SIEVE ANALYSIS

TYPE OF MATERIAL: REA GRAVEL

SIEVE SIZE	WEIGHT RETAINED	% RETAINED	% PASSING	SPECS
1½	0	0	100	100
⅜	0	0	100	85-100
4	466	87	13	10-30
8	525	99	1	0-10
16	526	99.6	.4	0-5
200	527	99.8	.2	0-1.0
TOTAL	528			
TOTAL				
TOTAL				

DATES: 1-5-10

SAMPLE #: 1

TIME: 9 00 Am

INITIALS: KL

NOTES:

SAMPLE #

TIME

INITIALS

NOTES

SAMPLE #

TIME

INITIALS

NOTES

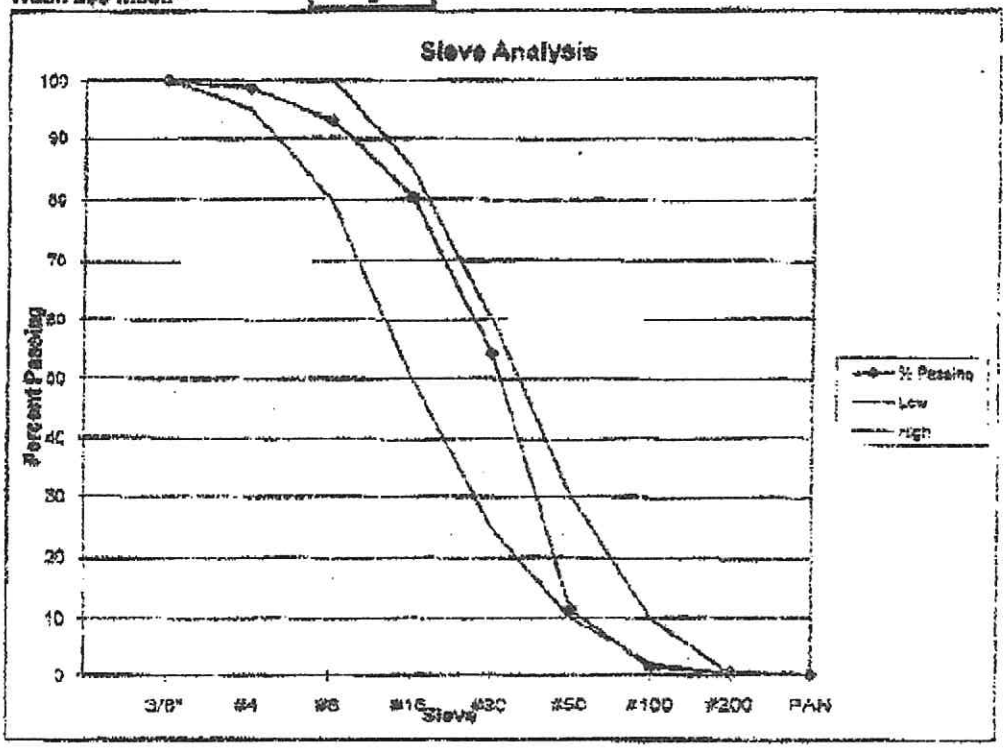
5/18/10 DEQ

Southwest Sand

Sand
16-Jun-10

3/8"	0.0	0.00	0.00	100.00	100	100
#4	16.0	1.40	1.40	98.60	95	100
#8	63.8	5.58	6.98	93.04	80	100
#16	141.8	12.40	19.38	80.64	50	85
#30	302.8	26.48	45.85	54.15	25	60
#50	487.7	42.66	88.51	11.49	10	30
#100	117.3	10.26	98.77	1.23	2	10
#200	6.1	0.71	99.48	0.52	-	-
PAN	6.0	0.52	100.00	0.00	-	-
Wash Weight	0.0	0.00				
Total Weight	1143.3					

Fineness Modulus = 2.61
Wash 200 mesh= 0



10'x36' Intermittent Sand Filter* with Gravity Discharge

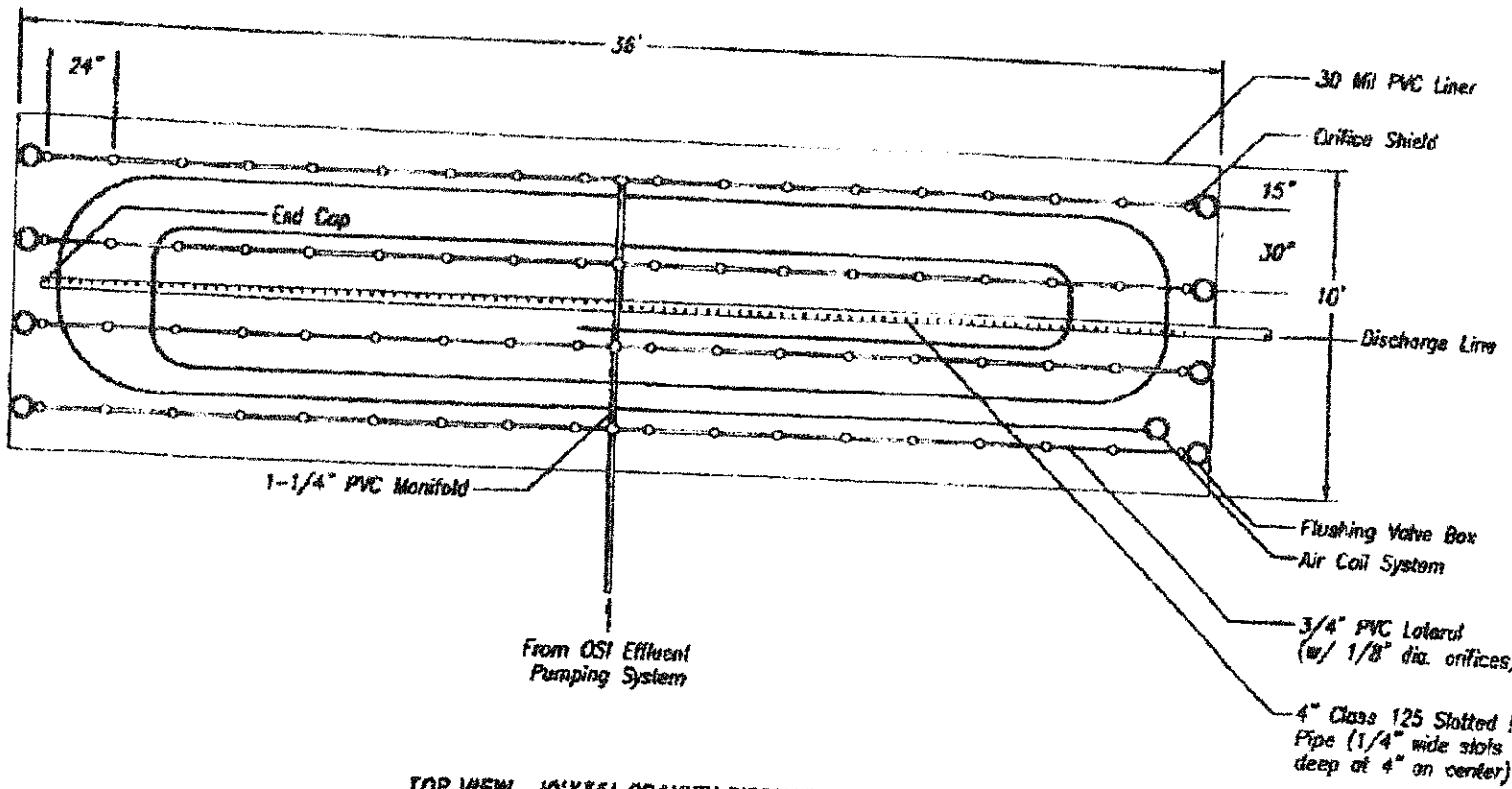
* Configured for loading rates up to 1.25 GPD/FT.^{2} Follow appropriate intermittent sand filter design criteria.

Orenco Systems®
Incorporated

814 AIRWAY AVENUE
SUTHERLIN, OREGON
97479-9012

TELEPHONE:
(541) 459-4449

FACSIMILE
(541) 459-2884



TOP VIEW - 10'X36' GRAVITY DISCHARGE SAND FILTER
SCALE: 1" = 5'-0"

Note: See additional details on EDW-ISF-5-3

Patent # 5,360,556

Receipt Number: 147203

Oregon Department of Environmental Quality
Warrenton Office
65 N Highway 101, Suite G
Warrenton, OR 97146

Date Received **10/10/2011**

Received From (Check Name): **Robert Martens Excavation, LTD**
Robert Martens
92859 Walluski Loop
Astoria, OR 97103

For Property At: **T08N R09W S11 AD**
TaxLot 800
Clatsop County
Astoria, OR 97103
Lot 2, Harmony Hills

Current Payment

Amount Paid	Payment Type	Check # / Money Order # / Purchase Order #	Bank Number	Amount Applied
1,580.00	Check	8813	96-7420	1,580.00

Total Amount Applied $1,580.00

Onsite Fees

Base Fee:	**1,520.00**
Surcharge Fee:	**60.00**
Plan Review Flow Fee:	
Pump Evaluation Fee:	
Flow Fee:	
Reinspection Fee:	
Total Fee	**$1,580.00**

Payments

Previous Payments:	**0.00**
Current Payment:	**1,580.00**
Over Payment:	**0.00**
Total Payments:	**$1,580.00**

Application Description

Application ID: **412518**
Application Type: **Construction-Installation Permit**
Single Family Dwelling
System Type: **Sand Filter: Conventional - Residential**
Pump Evaluation: **No**
Flow: **450** gallons/day

Receipt Amount: $1,580.00

Receipted By:	Date of Entry:
Vicky Schiele	**10/10/2011**

Scan ID 412598

Oregon

Theodore R. Kulongoski., Governor

Department of Environmental Quality
Northwest Region North Coast Branch Office
65 N Highway 101, Suite G
Warrenton, OR 97146
(503) 861-3280
FAX (503) 861-3259

October 19, 2006

Neal E. Uskoski
906 SE Rasmussen Blvd.
Battle Ground, WA 98604

IMPORTANT DOCUMENT – PLEASE READ CAREFULLY
-This is not a construction permit-

RE: **Site Evaluation Results – Site Approvals with Conditions**
Harmony Hills Subdivision – Lots 1, 2, 3, 4 and 5
Township/Range/Section: T8N, R9W, S11; Tax Lot No. 4800, Clatsop County

Dear Neal Uskoski:

The above-described property was re-evaluated for suitability of onsite sewage disposal to serve individual single-family dwellings on each of five (5) lots comprising the Harmony Hills Subdivision on the following dates: March 2, 2006. As you know, Lots 2 and 3 were previously approved for onsite wastewater treatment systems in the respective authorization notice and site evaluation report, both dated November 23, 2005. The purpose for the re-evaluation was to review your revised plan and accompanying physical stakeout of disposal trenches associated with alternative sand filter systems proposed for each of the 5 lots, including individual easement areas designated for systems serving Lots 3, 4 and 5 and a request to authorize use of the existing onsite system located on Lot 2 for the initial system serving Lot 3.

Based on this re-evaluation, the following onsite wastewater treatment systems are approved:

Lots 1, 2, 4 & 5

Initial system:	Conventional Sand Filter or equivalent Alternative Treatment Technology (ATT), 150 linear feet of disposal trenches
Replacement system:	Conventional Sand Filter or equivalent ATT, 150 linear feet of disposal trenches

Lot 3

Initial System:	Standard, 375 linear feet of disposal trenches (Existing)
Replacement system:	Conventional Sand Filter or equivalent ATT, 150 linear feet of disposal trenches

Three individual easement areas located on Lots 2 and 3 have since been designated for onsite sewage disposal associated with the systems approved for **Lots 3, 4 and 5**, and are sufficiently defined in the approved final plat of Harmony Hills, received on October 6, 2006.

Physical stakeouts of both the initial and replacement disposal areas for the approved systems on each lot will be required for permit issuance. The approved systems are each restricted to a peak sewage flow of 450 gallons per day (gpd), which is normally sufficient to serve a single-family dwelling with a maximum of four bedrooms. More specific information and further conditions of the systems approved for each lot are included in the Site Evaluation Report that is enclosed.

Next Step – Applying for a Construction/Installation Permit

When you are ready to proceed with system construction, contact this office to get a permit application package. The permit must be issued by DEQ before you can start construction.

Request for Site Evaluation Report Review or Request for Variance

If you believe that an error was made in the evaluation of your property, you may apply for a Site Evaluation Report Review within 60 days of the site evaluation report issue date at a cost of $440 per lot. If you would like to apply for a Variance from one or more of the Onsite Wastewater Treatment System Rules, you may do so at a cost of $1340 per lot. If you are interested in either of these actions, please contact the undersigned for more details before you proceed.

Best wishes on a successful project. If you have any other questions about this report, please feel free to call me at (503) 861-3280.

Sincerely,

Connie M. Schrandt

Connie M. Schrandt
Natural Resource Specialist

Enc: Site Evaluation Report

cc: Smits & Associates, Inc., 16878 SW Gasner Lane, Lake Oswego, OR 97035

Site Evaluation Report
For Onsite Wastewater Treatment System Suitability

Site Location: **Harmony Hills Subdivision - Lots 1, 2, 3, 4 and 5**
Township/Range/Section: T8N, R9W, S11; Tax Lot No. 4800, Clatsop County
Applicant: Neal E. Uskoski
Date(s) of Site Evaluation: March 2, 2006
DEQ Onsite Specialist: Connie M. Schrandt
Date of Report: October 19, 2006

General Description of Site Evaluations

Sewage contains disease-causing organisms and other pollutants that can cause adverse impacts to human health and the environment. An onsite wastewater treatment system must treat and dispose of sewage in a way that will not cause a public health hazard, contaminate drinking water supplies, or pollute public waters.

Proper treatment in an onsite system begins with primary treatment in the septic tank. The septic tank separates the solid particles in sewage from the liquid. The liquid that comes out of the septic tank is called effluent. The effluent may then be dispersed in the soil for further treatment or discharged into a secondary treatment device such as a sand filter or aerobic treatment unit prior to dispersal in the soil. For proper treatment, the effluent must slowly infiltrate into the underlying soil. Dissolved wastes and bacteria in the effluent are trapped or adsorbed to soil particles or decomposed by microorganisms. This process removes disease-causing organisms, organic matter, and most nutrients. Effluent that comes to the ground surface (through poor soils or other problems with the system) can be a possible health hazard because it may still contain some disease-causing organisms. Soil that drains too quickly may not give the effluent enough treatment and may result in groundwater contamination.

The purpose of the evaluation was to locate suitable soils in an area that is large enough for both the initial and the future replacement disposal areas. The criteria used for this site evaluation can be found in Oregon Administrative Rules (OAR) 340-071.

For a typical site evaluation, the following features are evaluated:

- Soil types - how well they drain and other evidence of good soil structure for treatment
- Depth to groundwater
- Wells located on the site or adjacent sites.
- Slopes, escarpments, ground surface variations, topography
- Creeks or springs on the site or adjacent properties
- Whether the soils have been disturbed
- Setbacks from property lines, buildings, water lines, and other utilities
- Other site features that could affect the placement of the onsite system.

This site evaluation was also based on the following:

1. A letter with attached drawing submitted by Smits & Associates, Inc. on February 15, 2006, that reflects physical staking of the following:

    a. Initial and replacement disposal trenches associated with proposed sand filter systems serving **Lots 1, 2, 4 and 5,** and

    b. Replacement disposal trenches associated with a proposed sand filter system serving **Lot 3**, and

2. Requests authorized use of the existing onsite system located on Lot 2 for the initial system serving **Lot 3**.

3. A site visit on March 2, 2006, to review the physical staking of initial and replacement disposal areas associated with the onsite systems proposed for each of the five lots, and

4. A copy of the approved final plat of Harmony Hills received on October 6, 2006. The respective disposal areas for the existing system and the proposed systems serving **Lots 3, 4 and 5** are sufficiently defined as individual easements located on Lots 2 and 3 in the final plat.

Four additional soil test pits provided with the revised plan and physical stakeout were similar to the test pit evaluations associated with the site evaluation report dated November 23, 2005.

Approved Systems

Based on the evaluation of the site and soil conditions, the following onsite wastewater treatment systems are approved:

Lots 1, 2, 4 and 5

Initial System: System Type: **Conventional Sand Filter**
Minimum Septic Tank Size: 1000 gallons
Minimum Dosing Tank Size: 500 gallons
Linear feet of disposal trenches: 150
Distribution Method: Serial
Trench Depths: Maximum – 30" and Minimum – 24"

Replacement System: Same as for Initial System

Lot 3

Initial System: *Standard, 375 linear feet of disposal trenches
Replacement system: Conventional Sand Filter or equivalent ATT, 150 linear feet of disposal trenches

*Use of the existing onsite system located on Lot 2 is hereby authorized for use as the initial onsite system approved for Lot 3 instead of Lot 2, as previously authorized by letter dated November 23, 2006.

NOTE: Site development plans accompanied by physical stakeouts will be required for review and approval prior to issuance of any construction/installation permits for the approved lots. The plans and stakeouts must demonstrate that there is adequate area to accommodate both initial and replacement disposal areas associated with the approved systems on each lot and that all required setbacks (to property lines and/or easement boundaries, underground utilities, building foundations, surface waters, potential man-made cuts resulting from house placement and construction, etc.) can be maintained.

Additional Conditions of Site Approval

1. Sites on **Lots 1, 2, 3, 4 and 5** are approved for the respective types of onsite systems described above. Peak sewage flow into each system is limited to a maximum of 450 gallons per day (gpd), with an average sewage flow of not more than approximately half of the peak sewage flow. This is normally sufficient to serve a single-family dwelling with a maximum of four bedrooms. Daily sewage flows to the approved systems should not average more than approximately half of the peak sewage flow. Premature failure of the approved treatment systems may occur if either the peak flow limit or the average daily flow limit is exceeded.

2. Whenever any portion of an onsite system or the house it serves is located on 2 or more lots of record, a recorded utility easement that allows entry for installation, maintenance and repair of the systems in accordance with Oregon Administrative Rules (OAR) 340-071-0130(11) is required. Easements designated for the operation, maintenance, installation and future repair of disposal areas associated with onsite systems serving **Lots 3, 4 and 5** are sufficiently defined in the final plat of the Harmony Hills Subdivision, received on October 6, 2006.

3. Any alteration of natural soil conditions (i.e. cutting or filling) in the acceptable area may void these approvals. Disposal areas shall maintain a 25-foot setback to any cut banks that may be created from an excavated cut for the house placement.

4. Both the initial and replacement disposal areas are to be protected from traffic, cover, development or other potential disturbance of natural soil conditions.

5. Both the initial and replacement disposal areas must not be subjected to excessive saturation due to, but not limited to, artificial drainage of ground surfaces, roads, driveways and building down spouts.

6. These approvals are given on the basis that each lot described above will not be further partitioned or subdivided.

These site approvals are valid until an approved system is constructed on each lot in accordance with a DEQ construction/installation permit. Technical rule changes shall not invalidate this approval, but may require use of a different kind of system. If there is a technical rule change affecting this site approval, the Department will attempt to notify in writing the current property owner as identified by the county assessor's records. The site approval runs with the land and will automatically benefit subsequent owners.

Oregon
Theodore R. Kulongoski., Governor

Department of Environmental Quality
Northwest Region North Coast Branch Office
65 N Highway 101, Suite G
Warrenton, OR 97146
(503) 861-3280
FAX (503) 861-3259

November 23, 2005

Neal E. Uskoski
906 SE Rasmussen Blvd.
Battle Ground, WA 98604

Re: Authorization Notice - Harmony Hills Subdivision, Proposed **Lot 2**
Township/Range/Section: T8N, R9W, S11; Tax Lot No. 4800, Clatsop County

Dear Neal E. Uskoski:

This notice establishes that the onsite sewage disposal system located on the property identified above appears adequate, by field inspection and record review, to accommodate the proposed replacement of the existing 3-bedroom mobile home with a new, 3-bedroom house. This authorization is issued for a period of one (1) year pursuant to Oregon Administrative Rules (OAR) 340-071-0205 as enclosed. This Authorization Notice is subject to the following conditions:

1. This system is sized for a maximum 4-bedroom single-family dwelling. The sewage flow to the existing system shall not exceed 450 gallons per day or average more than approximately half the projected peak flow. Sewage flows exceeding these amounts may cause the system to fail.

2. The proposed new house must meet a minimum 5' setback from the septic tank and a minimum 10' setback from the drainfield.

3. All sewage disposal systems require periodic maintenance if they are to function adequately year after year. Normally, septic tanks need to be pumped out every three to five years to prevent the passage of solids into the drainfield.

4. Vehicles, concentrated livestock, stored items, traffic, and other potential soil or surface disturbance in the drainfield area is strongly discouraged.

5. Acceptable area for future drainfield replacement is available. However, an alternative bottomless sand filter system will likely be required due to limited space.

6. If system malfunction should occur, a Repair Permit from this office will be needed. Any future repairs or alterations to the existing system will be required to comply with the current rules.

NOTE: This Notice does not guarantee satisfactory or continuous operation of the existing onsite sewage disposal system. Also, issuance of this Notice does not relieve you of your obligation to obtain the appropriate permits, inspections and approvals that may be required by other agencies.

If you have any questions concerning this report, please feel free to contact me at the North Coast Branch Office, (503) 861-3280.

Sincerely,

Connie M. Schrandt

Connie M. Schrandt
Natural Resource Specialist

Enc. OAR 340-071-0205 - Authorization to Use Existing Systems

Oregon
Theodore R. Kulongoski, Governor

Department of Environmental Quality
Northwest Region North Coast Branch Office
65 N Highway 101, Suite G
Warrenton, OR 97146
(503) 861-3280
FAX (503) 861-3259

November 23, 2005

Neal E. Uskoski
906 SE Rasmussen Blvd.
Battle Ground, WA 98604

IMPORTANT DOCUMENT – PLEASE READ CAREFULLY
-This is not a construction permit-

RE: **Site Evaluation Results – Site Denials & Approvals With Conditions**
Harmony Hills Subdivision, Proposed **Lots 1, 2, 3, 4 and 5**
T8N, R9W, S11; Tax Lot No. 4800, Clatsop County

Dear Neal E. Uskoski:

The above-described property was evaluated for suitability of onsite sewage disposal systems on the following date(s): September 13, September 27, October 6, October 11, October 25 and November 18, 2005. Based on the evaluation, the following onsite sewage disposal systems are approved for **Lot 3**:

Initial system:	Conventional Sand Filter, 150 feet of disposal trenches
Replacement system:	Conventional Sand Filter, 150 feet of disposal trenches

Site and soil conditions evaluated on **Lots 1, 2, 4 and 5** do not meet current rules for onsite sewage disposal in Oregon; particularly those related to area required to accommodate the initial and replacement disposal areas of standard or alternative onsite systems maintaining all setback requirements. Due to extensive soil disturbance resulting from cut/fill operations and contouring of land surfaces throughout the proposed subdivision, compliance with rules related to groundwater separation and surface water setbacks could not be completely evaluated.

Details of the site evaluation are included in the Site Evaluation Report that is enclosed. The Site Evaluation Report includes more specific information regarding site and soil limitations on **Lots 1, 4 and 5**, and further conditions of site approval on **Lot 3**. Authorization for continued use of the existing onsite system on **Lot 2** is reported in a separate letter, although test pits located in the west portion of **Lot 2** and proposed for onsite sewage disposal to serve other lots by way of a recorded easement were included in this evaluation.

Next Step – Applying for a Construction/Installation Permit – Lot 3

When you are ready to proceed with system construction, contact this office to get a permit application package. The permit must be issued by DEQ before you can start construction.

Possible Alternatives for Lots 1, 4 and 5

Although the area(s) evaluated for **Lots 1, 4 and 5** in this site evaluation did not meet rules for onsite sewage disposal systems, it may still be possible to find an acceptable area elsewhere on the site (or on an adjacent property if you can obtain an easement from a neighbor). There will be no additional fees if the Department is notified that subsequent proposals for onsite sewage disposal on your property (i.e. new test pits and physical staking of disposal areas) are available for evaluation within 90 days of the date of this letter. For test pits provided on an adjacent or nearby property for which an easement can be obtained and recorded, a new site evaluation and application fee will be required. After 90 days, *any* request for evaluation will require a new site evaluation application and necessary fees. The property will be evaluated using DEQ rules in effect at the time of the new application.

Request for Site Evaluation Report Review or Request for Variance

If you believe that an error was made in the evaluation of your property, you may apply for a site evaluation report review within 60 days of the site evaluation report issue date at a cost of $440 per lot. If you would like to apply for a variance from one or more of the onsite sewage disposal rules, you must submit a variance application and fee of $1340. If you are interested in either of these actions, please contact the undersigned for more details before you proceed.

If you have any other questions about this report, please feel free to call me at (503) 861-3280.

Sincerely,

Connie M. Schrandt

Connie M. Schrandt
Natural Resource Specialist

Enc: Site Evaluation Report

Site Evaluation Report
For Onsite Sewage Disposal System Suitability

Site Location: T8N, R9W, S11; Tax Lot No. 4800, Harmony Hills Subdivision
Proposed **Lots 1,2, 3, 4 and 5**, Clatsop County
Applicant: Neal E. Uskoski
Date(s) of Site Evaluation: September 13, September 27, October 6, October 11, October 25 and November 18, 2005
DEQ Onsite Specialist: Connie M. Schrandt
Date of Report: November 22, 2005

General Description of Site Evaluations

Sewage contains disease-causing organisms and other pollutants that can cause adverse impacts to human health and the environment. An onsite sewage disposal system must treat and dispose of sewage in a way that will not cause a public health hazard, contaminate drinking water supplies, or pollute public waters.

Proper treatment in an onsite system begins with primary treatment in the septic tank. The septic tank separates the solid particles in sewage from the liquid. The liquid that comes out of the septic tank is called effluent. The effluent may then be dispersed in the soil for further treatment or discharged into a secondary treatment device such as a sand filter or aerobic treatment unit prior to dispersal in the soil. For proper treatment, the effluent must slowly infiltrate into the underlying soil. Dissolved wastes and bacteria in the effluent are trapped or adsorbed to soil particles or decomposed by microorganisms. This process removes disease-causing organisms, organic matter, and most nutrients. Effluent that comes to the ground surface (through poor soils or other problems with the system) can be a possible health hazard because it may still contain some disease-causing organisms. Soil that drains too quickly may not give the effluent enough treatment and may result in groundwater contamination.

The purpose of the evaluation was to locate suitable soils in an area that is large enough for both the initial and the future replacement disposal areas on each lot. The criteria used for this site evaluation can be found in Oregon Administrative Rules (OAR) 340-071.

Soil test pits and other site features were evaluated during the site visits on September 13, September 27, October 6, October 11, October 25 and November 18, 2005. For each lot, the following features were evaluated:

- Soil types - how well they drain and other evidence of good soil structure for treatment
- Depth to groundwater
- Wells located on the site or adjacent sites.
- Slopes, escarpments, ground surface variations, topography
- Creeks or springs on the site or adjacent properties
- Whether the soils have been disturbed
- Setbacks from property lines, buildings, water lines, and other utilities
- Other site features that could affect the placement of the onsite system.

Approved Systems

Based on the evaluation of the site and soil conditions, the following onsite sewage disposal systems are approved for **Lot 3**:

Initial System: System Type: **Conventional Sand Filter**
Minimum Septic Tank Size: 1000 gallons
Minimum Dosing Tank Size: 500 gallons
Linear feet of disposal trenches: 150
Distribution Method: Serial
Trench Depths: Maximum – 30" and Minimum – 24"

Replacement System: Same as for Initial System

NOTE: A site development plan accompanied by a physical stake-out of the approved systems on Lot 3 will be required for review and approval prior to issuance of a construction/installation permit. The plan and stakeout must demonstrate that there is adequate area to accommodate both initial and replacement disposal areas associated with conventional sand filter systems and that all required setbacks (to property lines, underground utilities, building foundations, surface waters, potential man-made cuts resulting from house placement and construction, etc.) can be maintained.

Attached are the Field Worksheets and Plot Plans that show the approved area on **Lot 3** and other details of the site evaluation on each lot.

Site and Soil Limitations

Many sites have limitations that will affect either the location of the onsite sewage system or the type of system that can be allowed. The following describes the limitations found in this evaluation, in order of most to least impact on suitability for onsite sewage disposal.

Insufficient area for initial and/or replacement disposal areas required for standard system approvals (Lot 3) or alternative system approvals (Lots 1, 2, 4 and 5)
Rule requirement: OAR 340-071, Table 1 – Minimum Separation Distances
Site Conditions Observed: The areas represented by the test pits on **Lot 3** are not adequate in size to accommodate both initial and replacement disposal areas for standard system approvals (with minimum required system sizing of 125 linear feet per 150 gallons sewage flow per day, or a total of 375 linear feet of disposal trenches per system) and maintain the required setbacks to property lines, underground utilities, building foundations, potential man-made cuts in excess of 30 inches resulting from house placement, and natural escarpments or areas with slopes greater than 50 percent. The required disposal trench length for a conventional sand filter system is less (50 linear feet per 150 gallons sewage flow per day, or a total of 150 linear feet). The areas represented by the test pits on **Lots 1, 4 and 5**, as well as the area represented by test pits on the west portion of **Lot 2**, are not adequate in size to accommodate the required disposal areas for either standard or alternative onsite systems.

Too close to escarpments and/or excessive slopes (Lots 1, 2, 4 and 5)
Rule Requirement: 340-071-0220, Table 1 requires minimum separation distances of 25 or 50 feet to escarpments, depending on the whether or not the escarpment intersects a restrictive soil layer. An escarpment is defined in OAR 340-071-0100(56) as "any naturally occurring slope greater than 50 percent which extends vertically 6 feet or more as measured from toe to top, and which is characterized by a long cliff or steep slope which separates 2 or more comparatively level or gently sloping surfaces, and may intercept 1 or more layers that limit effective soil depth." 340-071-0220(1)(d) - In order to be approved for a standard system, slopes shall not exceed 30 percent, and 340-071-0310(1)(a) - For a steep slope system, slopes shall not exceed 45 percent.
Description: Because a portion of the effluent discharged to a drainfield is known to travel laterally in the soil, the escarpment setbacks in Table 1 are required to ensure that incompletely treated sewage does not discharge out of the face of the escarpment and present a public health hazard.
Site Conditions Observed: Incorporating the required 25-foot setback to the edge of the escarpments (or areas with slopes in excess of 45 percent) renders the area necessary for initial and replacement disposal areas associated with standard or alternative onsite systems insufficient in size.

Soils disturbed by ripping, filling or removal (Lots 1, 2, 3, 4 and 5)
Rule requirement: OAR 340-071-0220(1)(e). Systems cannot be approved for sites with soils that have been modified such that system function would be adversely affected.
Description: If soil fill (particularly fine-textured soil), is not placed in a specific manner or is placed without qualified supervision from someone with experience and training in onsite sewage disposal methods, the functioning of an onsite system may be adversely affected. Many systems installed in fills that were not engineered specifically for onsite sewage disposal have been found to be unstable. Generally, uneven settling of the fill material occurs, causing line breaks, over-saturation in low spots, and/or potential discharge of incompletely treated sewage from the base of the fill.
Site/Soil Conditions Observed: Due to considerable variability in soil properties observed in the test pits evaluated, proper system function resulting from past soil disturbance and cut/fill operations could not be fully addressed in this evaluation.

Temporary groundwater levels may be too close to ground surface – Lots 1, 2, 3 and 4
Description: "Temporary groundwater" refers to a water table that completely dries up during certain times of the year. Treatment of sewage occurs in the soils within the disposal area. If groundwater comes in contact with the sewage effluent present in the disposal area soils, there are three concerns: 1) the effluent does not receive adequate treatment in saturated soils – the presence of air is required, 2) sewage may be "forced" to the surface where it poses a potential public health hazard and 3) human bacteria, viruses, or parasites could get into someone's drinking water supply.
Rule requirement: For standard onsite system approval, the temporary groundwater level cannot come within 24" of ground surface. An alternative sand filter system can be approved on sites where the high level obtained by temporary groundwater is 12 inches but less than 18 inches, if slopes do not exceed 12 percent and the disposal areas following the sand filter treatment are constructed with capping fill disposal trenches in equal distribution (OAR 340-071-0290(2)(a)(A)).
Soil conditions observed: Conditions associated with saturated soils indicating the upper level to which temporary groundwater is expected to rise during normal wet seasons were observed in at least one of the test pits on each of **Lots 1, 2, 3 and 4** at depths between 13 and 24 inches below

ground surface. While the separation to temporary groundwater required for a conventional sand filter system may be acceptable, sufficient area for both initial and future replacement disposal areas associated with such systems must first be established for **Lots 1, 4 and 5**.

Too close to "public waters", i.e. intermittent or seasonal surface waters – Lot 2
Rule Requirement: For standard or alternative onsite systems, a setback of 50' to intermittent surface waters is required.
Description: Soils provide an important part of the treatment and "sanitizing" process for sewage. Bacteria and other organisms that live in soil can destroy some pathogens; and over time pathogens will die off. Sewage also contains other pollutants that can be harmful to surface waters, such as nitrates, phosphates, and organic material, all of which are treated in soils. These setbacks are required to prevent incompletely treated sewage from discharging to surface waters where it can be a health hazard and/or cause pollution of "public waters".
Site conditions observed: The test pits evaluated on the western portion of **Lot 2** are located within 50 feet of an intermittent drainage to the southwest. Due to heavy vegetation, the location of this drainage was not confirmed.

Alternatives for Lots 1, 4 and 5

As described above, the site and soil limitations for **Lots 1, 4 and 5** do not leave a large enough area of appropriate soils to allow the installation of safe, reliable onsite sewage disposal systems. There may be some ways to overcome the site limitations. The following alternatives are suggested, and technical advice from a knowledgeable consultant is recommended for each of these alternatives.

Try for an easement and put the system on a neighboring property - Test pits provided on an adjacent or nearby property for which an easement can be obtained and recorded may be found suitable for onsite sewage disposal. If the Department is notified that a subsequent proposal for onsite sewage disposal on your property (i.e. new test pits and physical staking of disposal areas) is available for evaluation within 90 days of the date of this letter, there will be no additional fees. If test pits on another tax lot are to be considered for an onsite system, a new site evaluation and application fee will be required for each lot. **NOTE: If suitable conditions can be established, the easement must be recorded with the county assessor's before DEQ can issue a favorable site evaluation report.** After 90 days, *any* request for evaluation will require a new site evaluation application and necessary fees. The property will be evaluated using DEQ rules in effect at the time of the new application.

Apply for a variance from one or more rule requirement - You may request a variance from these rules, providing the Department with technical justification that demonstrates your proposed system will operate over an extended period of time, that it will not degrade the environment and that it will be protective of public health. A variance application, justification and exhibits, including this report, a land use compatibility statement, a list of adjoining property owners and detailed plans of your proposed system will be necessary. A variance application fee of $1340 per lot is required. A Variance Officer from DEQ will review the application and your property. A determination will be made, in writing, following an informational hearing.

Additional Conditions of Site Approval

1. **Lot 3** is approved for the type of onsite sewage disposal systems described above. Peak sewage flow into each system is limited to a maximum of 450 gallons per day, with an average sewage flow of not more than approximately half of the peak sewage flow. This is normally sufficient to serve a single-family dwelling with a maximum of four bedrooms. Premature failure of the treatment system may occur if either of these flow limits are exceeded.

2. Any alteration of natural soil conditions (i.e. cutting or filling) in the initial and replacement onsite sewage disposal areas for **Lot 3** may void this approval.

3. Both the initial and replacement disposal areas for **Lot 3** are to be protected from traffic, cover, development or other potential disturbance of natural soil conditions.

4. The disposal areas for **Lot 3** must not be subjected to excessive saturation due to, but not limited to, artificial drainage of ground surfaces, roads, driveways and building down spouts.

5. This approval is given on the basis that **Lot 3** described above will not be further partitioned or subdivided.

The site approval for **Lot 3** is valid until the system is constructed in accordance with a DEQ construction permit. Technical rule changes shall not invalidate the approval, but may require use of a different kind of system. If there is a technical rule change affecting the site approvals, the Department will attempt to notify in writing the current property owner as identified by the county assessor's records. The site approvals run with the land and will automatically benefit subsequent owners.

Attachment: Field Worksheet and Plot Plans

EVALUATION FIELD WORKSHEET

Township: 8N Range: 0W Section: 11 Tax Reference: C8 (Lot 2) Parcel Size: ~2.0 acres

Owner/Applicant: Uskoski Evaluator: MC

Inspection Date(s): 9/13, 9/27, 10/13, 10/25, 2005 Application Number: 0403-159 / 0504-42

Harmony Hills - Lot 2 (All + potential easement)

	DEPTH	TEXTURE	SOIL MATRIX COLOR AND CONDITIONS ASSOCIATED WITH SATURATION, ROOTS, STRUCTURE, EFFECTIVE SOIL DEPTH, ETC…
Pit 1	0 - 40/52	sil	similar to Pits 1,2 + 3 on Lot 3
	40/52 - 60	saprolite	
Pit 2	0-10	sil	10YR3-3/3; f+m 1SBK; many vf-f m + c roots
	10-53	↓	10YR3/3; f+m 1-2 SBK; cmn vf-f + m roots + few c root channels to 53" hrs
	58" @ uphill end		
Pit 3	0-12	sil	similar to Pit 2 @ 0-10" + 10-53" except few vf-f+m roots
	12-22/25	↓	
	22/25-55	↓	10YR3/3 w/ few m + c, prom RMFs (10YR4/1 + 7.5YR5/6); 1-2 SBK
Pit 4	0-10	sil (o'ster sil)	10YR3/3; f+m 1SBK; common vf-f m + c roots
	10-22	sil/duff	7.5YR3/1; f 1-2 SBK; common vf-f + few f roots - buried surface
	22-46	sil	10YR3/2; f+m 1SBK; v. few vf + f roots
	46-58	↓	10YR4/3 w/ variegated colors below 55"; f+m 1-2 SBK associated w/ parent material

Landscape Notes: Contoured slopes - convex-concave @ Pit 1; heavily vegetated convex-linear @ Pits 2, 3 + 4

Slope: ~3-5% N @ Pit 1 + ~12-17% Aspect: W-SW @ Pits 2,3 + 4 Groundwater Type: Temporary - 22/25" in Pit 3

Other Site Notes: Test pits provided* for future replacement disposal area on Lot 2 and for possible easement area to serve other lots. Existing disposal trenches are below 18-28" fill (where exposed) and under considerably more fill at western end. *growing 3 pits site w/o groundwater

SYSTEM SPECIFICATIONS

Design Flow: 450 gpd

Initial System: NA **ATT Treatment Standard:** ______

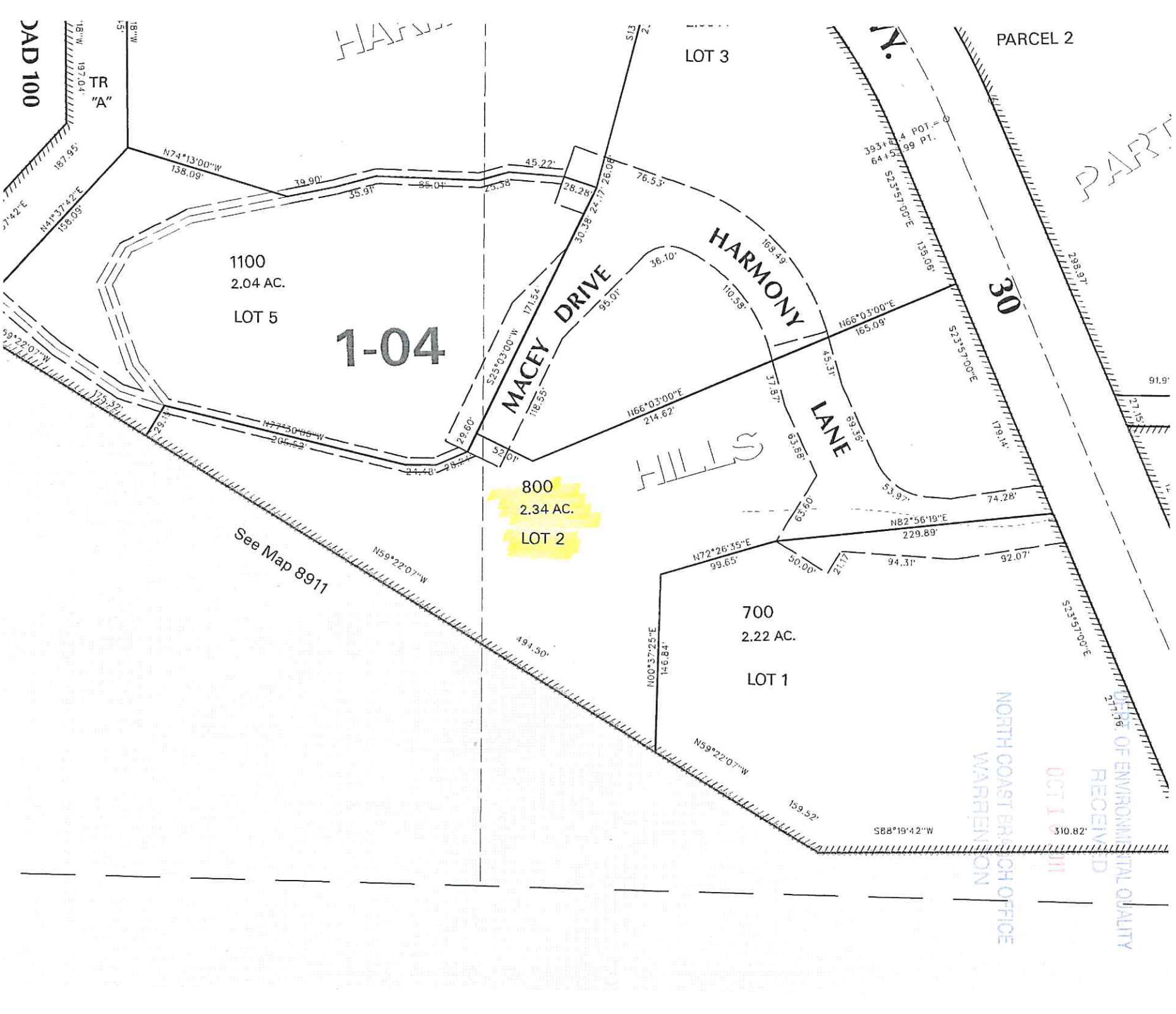
Disposal Facility: ______ linear feet/square feet Maximum Depth: ______ inches Minimum Depth: ______ inches

Replacement System: Conventional sand filter **ATT Treatment Standard:** I

Disposal Facility: 150 / 360 linear feet/square feet Maximum Depth: 30 inches Minimum Depth: 24 inches

Special Conditions: Future replacement system approved for Lot 2 in area represented by Pit 1. Area represented by Pits 2, 3 + 4 insufficient to accommodate initial or replacement disposal areas of standard or alternative onsite systems meeting all required setbacks. Also too close to intermittent surface waters to southwest.


Harmony Hills Subdivision – Lot 2
T8N, R9W, Sec. 11; TL # 4800 Clatsop Co.
Acreage: ~2.0 acres
9/13, 9/27, 10/6 + 10/25, 2005
Acceptable Area for Onsite Sewage Disposal (Future Replacement) Lot 2
#1
#2
#3
#4
~25'
~27'
~55'
N80°E
N60°E
slope ~2-3%
slope ~12-17%
slope ~11-16%
~40
~73'
~75'
~20'
50'
tree
Existing septic tank & disposal trenches
Existing Mobile Home (to be removed)
House Site
possible intermittent drainage
tree/veg line
intermittent surface water
To Hwy 30
N
(Approx. Scale: 1" = 40')
Note: Arrows indicate steep slopes


PARCEL 2
LOT 3
TR "A"
1100
2.04 AC.
LOT 5
1-04
MACEY DRIVE
HARMONY LANE
800
2.34 AC.
LOT 2
700
2.22 AC.
LOT 1
See Map 8911
30
N74°13'00"W
138.09'
N41°37'42"E
158.09'
N66°03'00"E
165.09'
N66°03'00"E
214.62'
N82°56'19"E
229.89'
N72°26'35"E
99.65'
N59°22'07"W
494.50'
N59°22'07"W
159.52'
S88°19'42"W
310.82'
N00°37'25"E
146.84'
S23°57'00"E
135.05'
S23°57'00"E
179.14'
S23°57'00"E
217.16'
S25°03'00"W
171.54'
RECEIVED
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NORTH COAST BRANCH OFFICE
WARRENTON