

**SCHRANDT Connie**

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**From:** JLSmits@aol.com  
**Sent:** Friday, May 19, 2006 9:41 AM  
**To:** SCHRANDT Connie  
**Subject:** Re: Chaney - North House

Connie,

Thanks for taking the time to respond. Helps me. I assume Chaney could build upward to gain space, keeping the same number of bedrooms using the existing foundation, with, floor plan, site plan, sign off the statement as long as the existing foundation would support 2 stories.

I would say however that the proposed repair of the south house did not trigger the need for a full geo, but the use of the previously full geo'd and denied tax lot 1200 resulted in an additional critical review by Rodney Weick and the holding tank only offer. I should have tried to come up with a repair entirely on tax lot 1400.

Thanks again,

John

In a message dated 5/19/2006 9:03:40 AM Pacific Standard Time, Schrandt.Connie@deq.state.or.us writes:

John,  
 I've attempted to answer your questions below. Hope this helps.  
 Connie

-----Original Message-----

**From:** JLSmits@aol.com [mailto:JLSmits@aol.com]  
**Sent:** Thu 5/18/2006 9:22 AM  
**To:** SCHRANDT Connie  
**Cc:**  
**Subject:** Chaney - North House

Connie,

Help me understand your S. O. P. for building permits. If John Chaney proposes to remodel his existing north house within the limits of the existing footprint and does not increase the number of bedrooms, what is your process? I assume the building permit application comes to you for sign off. Do you review a site plan showing an existing system? Do you ask for a floor plan?

For remodels with no change in bedrooms or house footprint, we usually sign off if provided with floor plans showing the proposed changes and a site plan (which we stamp and have the owner sign) showing that setbacks to the existing onsite system will be maintained. The stamp reads: "I hereby certify that the attached plan accurately reflects the size and position of my sewage disposal system, that said system is not failing through discharge to ground surface or public water, and that the proposed construction will not interfere with the said system." Owners are also informed of their responsibility for repair if their system fails.

There have been a few exceptions where repairs or alterations were required before signoff could be given. In two cases, we knew the existing systems were installed without a permit; both standard systems on lots in Gearhart way less than 0.5 acres.

5/19/2006

At what point do you ask for an application and fee for an Existing System Evaluation Report or Authorization Notice with its record review of field visit. Each county I work in seems to be a little different.

Authorization Notice applications are required as per rules...if there is a change in # of bedrooms or other increase in sewage flow, footprint of a proposed addition encumbers existing system and/or setbacks, proposed replacement of a house, proposed connection to system not in use, hardship, etc. Existing system evaluations are not very common. I've done a couple for floathome owners with existing onsite systems that we had no record of...but only to establish a record and confirm that they were not discharging to the river.

I'm trying to guide John Chaney in understanding his options and need to know what level of improvement or expansion of the existing structure will cause you to request a full geo report and obviously, Rodney Weicks review of such a report? Just what can John Chaney do with the north house that is served by an existing on-site system?

Indeed, authorizations for which a repair or alteration is required prior to signoff may lead to a request for geohazard studies, as was the case with the repair application for Chaney's south house.

Thanks!

John

**John L. Smits, REHS**  
**Smits & Associates, Inc.**  
**16878 SW Gassner Lane**  
**Lake Oswego, OR 97035-4524**  
**Office: (503) 699-2696**  
**Fax: (503) 699-2876**  
**Cell: (503) 804-0056**  
**Email: jlsmits@aol.com**

# Property History

Account ID:2444

## Legal Description:

<u>Legal Type</u>	<u>Subdivision</u>	<u>Lot</u>	<u>Block</u>	<u>Tract</u>
Lot Block	Norrison Park	4	1	

### Additional Information:

'02 From 41018ba - 300 to 41018bb - 1400

## Account History:

### Owner(s):

<u>Current Ownership:</u>	<u>Owner Name</u>	<u>Ownrshp %</u>	<u>Type</u>
	Holmes Julie		Tenants Entirety
	Holmes Cameron		Tenants Entirety

### Ownership History:

<u>Create Dte</u>	<u>Effective Dte</u>	<u>Instrmnt ID</u>		
06/21/2005	07/30/1999	9909991	Chaney John R	Husband & Wife
06/21/2005	07/30/1999	9909991	Chaney Patricia K	Husband & Wife
02/02/2009	01/13/2009	200900744	Holmes Julie	Tenants Entirety
02/02/2009	01/13/2009	200900744	Holmes Cameron	Tenants Entirety

## Voucher History:

**Voucher 1** Source: Clerk Effective Date: 01/13/2009 Map Key: 41018BB01400  
Document Type Code: Warranty Deed Date Created: 02/02/2009 Instrument Id: 200900744  
Operation: Name Change Completed Date: 02/02/2009 Book:  
Operation Type: Name Voucher Type: Assessment Page:  
Completeness Status: Completed Consideration: \$25,000 Status: Active  
Partition Flag: No Remarks:  
User Id: CHARRIS

**Voucher 2** Source: Misc Effective Date: 07/30/1999 Map Key: 41018BB01400  
Document Type Code: Subscribers Error Date Created: 06/21/2005 Instrument Id: 9909991  
Operation: Name Change Completed Date: 06/21/2005 Book:  
Operation Type: Name Voucher Type: Assessment Page:  
Completeness Status: Completed Consideration: Status: Active  
Partition Flag: No Remarks: to correct vesting deed reference  
User Id: DMILLER

**Voucher 3** Source: Assessment Effective Date: Map Key: 41018BA00300  
Document Type Code: Cartography Date Created: 02/22/2002 Instrument Id:  
Operation: Map Change Completed Date: 02/22/2002 Book:  
Operation Type: Map Voucher Type: Assessment Page:  
Completeness Status: Completed Consideration: Status: Active  
Partition Flag: No Remarks: From 41018ba - 300 to 41018bb - 1400  
User Id:



# 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

May 2, 2006

John & Patricia Chaney  
P.O. Box 8858  
Portland, OR 97207

**RE: Repair Permit Denial**  
Township/Range/Section: T4N, R10W, S18BB; Tax Lot No. 1400 (via easement onto Tax Lot No. 1200), Clatsop County

Dear John & Patricia Chaney:

The above-described property was evaluated for suitability of a repair to the existing septic system on the following date: April 17, 2006. Unfortunately, we are unable to issue the requested repair permit because the conditions of the site are not acceptable for either a standard or an alternative onsite wastewater treatment system replacement. This determination is based upon current Department of Environmental Quality (DEQ) regulations governing onsite sewage disposal, Oregon Administrative Rules (OAR) Chapter 340, Divisions 71 and 73.

The proposed repair permit is denied based on OAR 340-071-0220(1)(g) which prohibits the construction of an onsite wastewater treatment system on an unstable landform that might adversely affect the operation of the system. Specifically, issues of site stability, bluff retreat and related surface/subsurface hydrology described in this site evaluation remain unresolved.

### **Background Information**

As you are aware, the proposed replacement system is located on tax lot (TL) #1200, the adjacent lot to the north, which was denied for onsite sewage treatment and disposal in the site evaluation report dated June 1, 2005, due to the following conditions:

- Saturated soil conditions indicating temporary groundwater in the soil occurring within 4 to 8 inches of the ground surface,
- An escarpment located down slope of the proposed systems that was closer than the minimum setback of 50 feet required for escarpments that intersect the effective soil depth,
- A spring located less than 50 feet up slope of the proposed disposal trenches and
- Insufficient suitable area for initial and replacement onsite system disposal areas meeting all required setbacks.

The denial letter for TL #1200 also noted that the effectiveness of the existing groundwater interceptor in lowering groundwater levels throughout the area of the proposed initial and replacement disposal trenches would need to be demonstrated, and it acknowledged that an assessment of potential geological hazards associated with the property was underway.

TL #1200 was also denied several variances from the Onsite Wastewater Treatment System Rules in a letter dated March 16, 2006. The variances requested were based on the plan and stakeout of a proposed onsite system submitted by Smits & Associates, Inc. and dated December 30, 2005, and on Department

reviews of the Geological Hazard Report prepared by Horning Geosciences dated July 25, 2005, along with information in six affidavits submitted by the applicant, Cameron Holmes, at the variance hearing on February 9, 2006, and ODOT aerial photographs from 1975 and 1984. The variance officer's finding was that the development limitations of the property, specifically the close proximity of the disposal areas to the escarpment and the unresolved questions related to site stability as a whole, have not been fully addressed.

### **Denial of Construction/Installation Permit for Repair**

There are no records on file at the Department's North Coast Branch Office (NCBO) of a septic system serving this property. Based on information provided with your application and on observations made during a site visit with John Smits on August 30, 2005, the existing septic system consisted of a cesspool (of less than 500 gallons capacity) connected to an "overflow" corrugated pipe that runs downhill north onto TL #1200, then south back onto TL #1400 to an outfall at ground surface approximately 25 feet from the edge of the bluff. Pot-holed portions of the corrugated pipe showed 18 to 24 inches of soil cover. The cesspool was removed when the groundwater interceptor, now associated with the proposed replacement onsite system, was installed last year.

This site evaluation was based on soil and site features evaluated during the field visit on April 17, 2006, and on review of a proposed plan from Smits & Associates, Inc. submitted with your application depicting the physical stakeout of a sand filter system with initial and replacement disposal areas sized for a single-family dwelling with up to 2 bedrooms. The proposed system includes the existing groundwater interceptor, installed to a depth of 72 inches and located 23 to 26 feet upgradient of the staked disposal trenches. The design sewage flow capacity of the proposed system is 300 gallons per day, which is consistent with OAR 340-071-0220(2)(A) allowing for development of single-family dwellings on lots created before March 1, 1978.

Although the plan/stakeout of the proposed system and the soil test pit evaluation confirm that required setbacks from the escarpment or ocean bluff can be maintained, the questions of site stability and the effectiveness of the groundwater interceptor remain unresolved. As reported in the DEQ internal memo from Rodney Weick dated March 15, 2006 (attached for your reference), further investigation is warranted to demonstrate 1) if the site is or is not underlain by an unstable landform and 2) if there is sufficient bluff setback to protect the proposed onsite system for the expected life of the existing residential structure.

I acknowledge that soil conditions indicating the upper level of temporary groundwater from the site evaluation denial on TL #1200 may actually be associated with the uplifted marine sediment parent material. However, standing water was observed in the two northern-most test pits provided for the site evaluation on TL #1200 on several occasions over the past year, including the field visit on April 17, 2006. Prior to installing the groundwater interceptor, an area of surfacing water indicating potential spring activity was identified, but its source was never confirmed. The groundwater interceptor was installed such that it crosses immediately upslope of the area where surfacing water was observed. Although several observation ports were installed along its length, there is no place to observe outfall from the interceptor because the perforated pipe at the south end is connected to solid pipe that leads to the beach below the escarpments.

I maintain that groundwater conditions and potential spring activity are related to the unresolved site stability issues. Consultation with a knowledgeable engineering geologist on the feasibility of specific geotechnical studies used to resolve the site stability issues is strongly advised.

**Possible Alternative**

As described above, the site and soil limitations on your property (TL #1400) and the adjacent property to the north (TL #1200) do not leave a big enough area of appropriate soils to allow the installation of a safe, reliable onsite wastewater treatment system replacement under a DEQ construction/installation permit. The following alternative is suggested.

**Obtain a Water Pollution Control Facilities (WPCF) permit for a holding tank** - You may apply for a Water Pollution Control Facilities (WPCF) permit for a holding tank to serve a single-family dwelling. Such a system requires the tank to be installed with an alarm that sounds when the tank is 75% full, a signed contract with a licensed sewage disposal service for pumping and tank maintenance, annual reporting to the DEQ of when the tank is pumped and associated annual compliance determination fees. The WPCF permit is renewable and must be maintained for as long as the system is in use. NOTE: This alternative is considered appropriate only for the existing 2-bedroom house. It may also be an appropriate temporary solution while the site stability issues are being addressed.

If you are interested in the WPCF-permitted holding tank alternative, please contact the undersigned for more details before you proceed. If you believe that an error was made in the evaluation of your property, you may apply for a Permit Denial Review within 60 days of the issue date of this letter at a cost of \$260. Under a permit denial review application, other onsite program staff from DEQ will review the application and your property, and a determination will be made in writing.

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

Sincerely,



Connie M. Schrandt  
Natural Resources Specialist

Enc. Field Worksheet & Plot Plan  
DEQ Memo - March 15, 2006

cc: Smits & Associates, Inc., 16878 SW Gassner Ln., Lake Oswego, OR 97035-4524  
Cameron Holmes, 3419 E. Gold Dust Ave., Phoenix, AZ 97035-4524

**EVALUATION FIELD WORKSHEET**

Township: 4N Range: 10W Section: 18BB Tax Reference: 1400 Parcel Size: 50' x 138'  
 Owner/Applicant: Chaney/Smits & Assocs, Inc. Evaluator: CMS 0.16 acre  
 Inspection Date(s): 4-17-06 Application Number: 400634

	DEPTH	TEXTURE	SOIL MATRIX COLOR AND CONDITIONS ASSOCIATED WITH SATURATION, ROOTS, STRUCTURE, EFFECTIVE SOIL DEPTH, ETC...
Pit 1	0-1 1/2	SL	10YR 3/1, mdf 1SBK; common v.f.f + m roots w/ry boundary
	1 1/2-4 1/2	↓	10YR 4/4; " 1-2SBK; few <sup>few &amp; root channels to ~38" bgs</sup> mdf roots to ~25 bgs; fe. faint m & c RMFs (10YR 5-4/2) in NW corner @ 18-25° assoc'd w/ org. decomp. & parent material
Pit 2			
Pit 3			
Pit 4			

Landscape Notes: Coastal Bluffs  
 Slope: ~25-29% Aspect: W Groundwater Type: No evidence  
 Other Site Notes: Proposed system located on TL #1200 (adj. lot N)  
(see plot plan attached)

**SYSTEM SPECIFICATIONS**

Design Flow: \_\_\_\_\_ gpd  
 Initial System: \_\_\_\_\_ ATT Treatment Standard: \_\_\_\_\_  
 Disposal Facility: \_\_\_\_\_ linear feet/square feet Maximum Depth: \_\_\_\_\_ inches Minimum Depth: \_\_\_\_\_ inches  
 Replacement System: \_\_\_\_\_ ATT Treatment Standard: \_\_\_\_\_  
 Disposal Facility: \_\_\_\_\_ linear feet/square feet Maximum Depth: \_\_\_\_\_ inches Minimum Depth: \_\_\_\_\_ inches  
 Special Conditions: Denied - unresolved issues related to overall site stability - alternative holding tank via WPCF permit, located near east end of TL #1200 for accessibility, easement required





State of Oregon  
Department of Environmental Quality

Memorandum

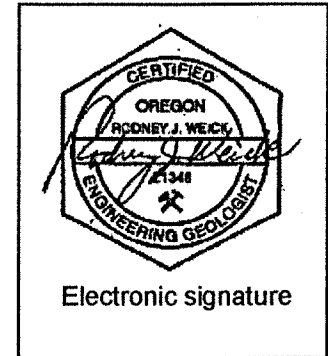
Electronic Submittal (Adobe Acrobat pdf file)

Date: March 15, 2006

To: Gary Artman, DEQ

From: Rodney Weick, DEQ, CEG E1348

Subject: Engineering geologic site stability review,  
Tax lot 1200, Map 4N 10W 18BB,  
Lot 3, Block 1, Noriston Park, Arcadia Beach  
Clatsop County, Oregon



Reference materials:

1. Horming Gesciences, July 25, 2005, Geologic Hazard Report; Map 4N 10W 18BB; Tax Lot 1200; Lot 3, Block 1, Noriston Park; Arcadia Beach, Clatsop County
2. Affidavits of Cameron Holmes, Nos. 1, 2, 3, 4, 5, 6
3. Facsimile transmittal of easement agreement for groundwater interceptor (GWI) drain
4. DEQ e-mail by Rodney Weick to Gary Artman dated February 8, 2006; Review comments of the Geologic Hazard Report; Map 4N 10W 18BB; Tax Lot 1200; Lot 3, Block 1, Noriston Park; Arcadia Beach, Clatsop County
5. Aerial Photographs:
  - o Stereoscopic pairs:
    - ODOT 1975 CLB-28 1-1, 1-2 (Scale 1"=500')
    - ODOT 1975 CLB-31 1-3, 1-4
    - ODOT 10-2-75 OC-21 7-8, 7-9
    - ODOT 7-25-73 OC-17 18-8, 18-9
    - ODOT 7-21-71 OC-13 21-8, 21-9
    - ODOT 1975 CLB-30 1-1, 1-2 (Scale 1"=250')
    - ODOT 3-3-84 OC-23 7-9, 7-10
    - ODOT 1-13-84 OC-23 7-8, 7-9

Rule citation: OAR340-071-0220(1)(g) – The site is not on an unstable landform that might adversely affect operation of the system.

Attachments:

- Figure 1. Enlargement of ODOT aerial photograph CLB 1-3 (1975)
- Figure 2. Enlargement of ODOT aerial photograph CLB 1-3 (1975) showing interpretation of geomorphic landform indicative of landslides

Background:

The Department of Environmental Quality (DEQ) received a copy of the Horning Geosciences geologic hazard report (Reference 1). The report was reviewed by DEQ's certified engineering geologist. DEQ's review comments are provided in an email submitted to Gary Artman, DEQ Variance Officer, on February 8, 2006 (Reference 4).

A variance hearing was held at the subject lot on February 9, 2006. Affidavits (Reference 2) to counter the findings in the geohazard report were submitted to Mr. Artman during the variance hearing. Copies of these affidavits were provided to and reviewed by DEQ's certified engineering geologist. In addition, DEQ obtained from the Oregon Department of Transportation (ODOT) stereoscopic pairs of aerial photographs (Reference 5) to review geomorphic features of landslides. The analysis of the aerial photographs was conducted by DEQ's certified engineering geologist.

Geohazard report and email of summary of findings:

The geohazard report (Reference 1) was prepared by an Oregon licensed certified engineering geologist familiar with coastal Oregon geology and geologic hazards. The report identifies several potential geologic hazards that may affect site stability. Chief factors identified are:

- Recent and/or active landslides present on adjacent properties;
- Evidence of bluff retreat that is encroaching upon the property;
- Professional opinion that infers slump failures to occur within the proposed drainfield area of the subject property.

The report does not specifically state there are landslide features on the subject lot.

The report addresses the risk of bluff retreat, that would adversely affect stability of the subject lot as follows:

- Moderate risk: 20 years,  $\pm 10$  years;
- High risk: 50 years,  $\pm 25$  years;
- Extreme risk: 100 years,  $\pm 50$  years.

Expected life expectancy for a residential structure is generally 50 or more years.

DEQ's staff Oregon certified engineering geologist reviewed the geohazard report. DEQ concurred with the findings and conclusions provided in the report. DEQ further concluded that additional geotechnical investigation to verify the findings in the report should be performed before proceeding further with the domestic on-site wastewater treatment system approval.

Affidavits prepared by Mr. Cameron Holmes:

Several affidavits prepared by Mr. Cameron Holmes (Reference 2), prospective buyer of the property, were submitted to the DEQ variance officer at the variance hearing on

February 9, 2006. DEQ's variance officer requested a review of the documents by DEQ's certified engineering geologist.

The affidavits provide Mr. Holmes' opinion, based on his personal review of aerial photographs and site visits, and opinions by individuals other than registered geologists certified engineering geologists or geotechnical engineers that the site is stable. The affidavits provide the following:

- Mr. Holmes' opinion that significant bluff retreat has not occurred based on a measurement comparison of features shown on several aerial photograph images taken between 1967 and 2000;
- Information that:
  - Groundwater was not encountered in shallow test pits excavated on the site;
  - Precipitation did not result in standing water in the test pits; and
  - The information indicates groundwater level did not rise to the bottom of the test pits during the two-month period the precipitation measurements were made;
- Presence of a recently installed groundwater interceptor trench excavated in the eastern portion of the site; and
- The opinion that:
  - The slope has not moved since it was platted in 1894; and
  - The specific lot has remained stable for at least 80 years.

Review comments:

1. Review of Stereoscopic pairs of aerial photographs.

DEQ's certified engineering geologist reviewed stereoscopic pairs of the aerial photographs listed in Reference 5. Stereoscopic pairs of aerial photographs provide a "3-D" representation of geomorphic features indicative of landslides, such as major and minor scarps, grabens, lobate toe-of-slope, vegetation lineaments, realigned drainages, fresh/youthful scarp features, subdued or older scarps features affected by weathering and mass wasting processes, and arcuate lineaments, color/tonal variations and other features indicative of landslide morphology. Applying indicator parameters of landslide morphology, DEQ's certified engineering geologist observed such features in the aerial photographs reviewed. Using ODOT aerial photographs CLB-31 1-3 and 1-4 stereoscopic pair as an example, DEQ provides the following discussion of observed geomorphic features:

- Figure 1 represents an enlargement of ODOT aerial photograph CLB-31 1-3 taken in 1975.
- Figure 2 represents geomorphic features that indicate the adjoining properties are likely underlain by unstable landforms and, at a minimum, a portion of the subject lot may also be underlain by an unstable landform. The approximate location of the subject lot is shown on the enlarged image. Applying indicator parameters for recognition of landslide geomorphology, the following was observed:

- Landslides are well defined on the adjacent properties to the south, west and north;
- Older (subdued) landslide features are observed east of the property;
- The entire Noriston Park subdivision lies within an old complex landslide, which extends east of US Highway 101;
- Multiple arcuate morphologic features (indicative of smaller landslides) were observed within the larger complex landslide. The subject lot lies within the southern lateral margin of one of these features;
- Several "stepped" breaks in the slope were observed between the beach and the top of slope west of the subject lot and west of the adjacent lots. These breaks appear to represent landslide slump blocks that individually have a limited lateral displacement, but cumulatively can represent a large lateral displacement. The initiated failure mechanism is likely wave action erosion in combination with other factors such as groundwater elevation and/or degree of soil saturation. Typically, the lowest block fails, reducing resisting force for the next block, which then fails. The process continues until the overall slide complex self-stabilizes, i.e. resisting forces become equal to driving forces Factor of Safety (FS) equals 1. The geomorphic indicators observed in the stereoscopic pairs of aerial photographs support the stepped mass wasting landslide process.
- An arcuate break in slope transects the lot to the south and the western portion of the subject lot. The break in slope is most likely less than a few feet in vertical height. The west side appears down-dropped relative to the east side. This feature is consistent with observed scarps associated with landslides on adjacent properties. It is also consistent with approximate location of the inferred easternmost failure surface shown on the geologic cross-section in the geohazard report. However, other explanations for this feature may be possible such as a cut made during past logging practices in the area; and
- The bluff retreat slumps appear to occur as rotational slumps with limited horizontal displacement.

## 2. Review of Affidavits

The affidavits can be grouped into three categories, a) bluff retreat, b) site stability, and c) precipitation data and analysis. DEQ's comments are provided below.

- Bluff retreat: Bluff retreat rate is an average based on multiple factors. Key among these is the displacement history determined from aerial photographs. Mr. Holmes' measurements are based on the vegetation line observed in 1967 and 2000 aerial photographs. While this measurement process may indicate little retreat at the toe of slope, it does not address the mass wasting process occurring upslope since the last lateral displacement of the lowermost slide block. It also does not address the formation of new scarps upslope as the stepped failures migrate upslope encroaching into the subject lot. The bluff retreat analysis provided by Mr. Holmes, fails to address the geomorphic features indicative of a landslide scarp within the area of the proposed drainfield.

- **Site stability:** OAR 340-071-0220(1)(g) prohibits the placement of an on-site system on an unstable landform. The regulation does not state the unstable landform must be active. The regulation encompasses older landslides. Standard geotechnical practices consider a landform stable if the static FS is 1.5 and the seismic FS is at least 1.2, i.e. resisting forces are 1.5 and 1.2 times greater than driving forces, respectively. There is sufficient geomorphic evidence to indicate that, at a minimum, the western portion of the subject lot may be underlain by an unstable landform. The FS for the subject lot is in question at this time.
- **Data and analysis:** The use of the rainfall data provides information on the amount of precipitation the site and Arcadia Beach area receives. Because groundwater levels were not observed in the open shallow trenches excavated as part of the site evaluation for an on-site wastewater treatment system, does not mean that:
  - Precipitation is not affecting groundwater elevation underlying the site; or
  - Groundwater is not a factor for site stability.

The information provided in the affidavit indicates:

- The site receives a significant amount of rainfall;
- Standing water was not observed in the test pits; and
- (inferred) Groundwater is lower than the bottom of the test pits, i.e. deeper than 33 inches below ground surface.

The information does not address the following:

- Effectiveness of the groundwater interceptor trench excavated upslope of the test pits;
- The actual depth to groundwater or seasonal fluctuation; or
- The effect of groundwater elevation on site stability.

The affidavit only indicates that groundwater is more than 33 inches below ground surface at the site. Therefore, it can be used as an upper limit for a stability analysis. Likewise the depth of the groundwater interceptor can be used to establish an upper bounding limit for the phreatic surface in a stability analysis. The information provided by itself is insufficient to determine site stability.

#### Conclusion:

It is DEQ's conclusion that sufficient evidence is present to indicate the site or a portion of the site may be underlain by an unstable landform based on the evidence provided by the geohazard report and review of stereoscopic pairs of aerial photographs. DEQ recognizes that alternative explanations may be provided to explain the geomorphic features observed on the aerial photographs. However, the geomorphic features meet most of the indicators for landslide landforms. The affidavits provide insufficient

information to draw conclusions that the site is stable. However, the affidavits provide some information useful in the process to determine site stability.

Based on the review of the aerial photographs, the geohazard report and affidavits, it is DEQ's opinion that further investigation is warranted to demonstrate:

- The site or portion of the site is or is not underlain by an unstable landform. If it is underlain by an unstable landform, the groundwater interceptor trench effectively lowers the water table such that the site has a static FS of 1.5 and seismic FS of 1.2;
- There is a sufficient setback for bluff retreat to protect the on-site system, disposal area and reserve disposal area from bluff retreat for the expected life of the residential structure.

ATTACHMENTS: Figures 1 and 2.

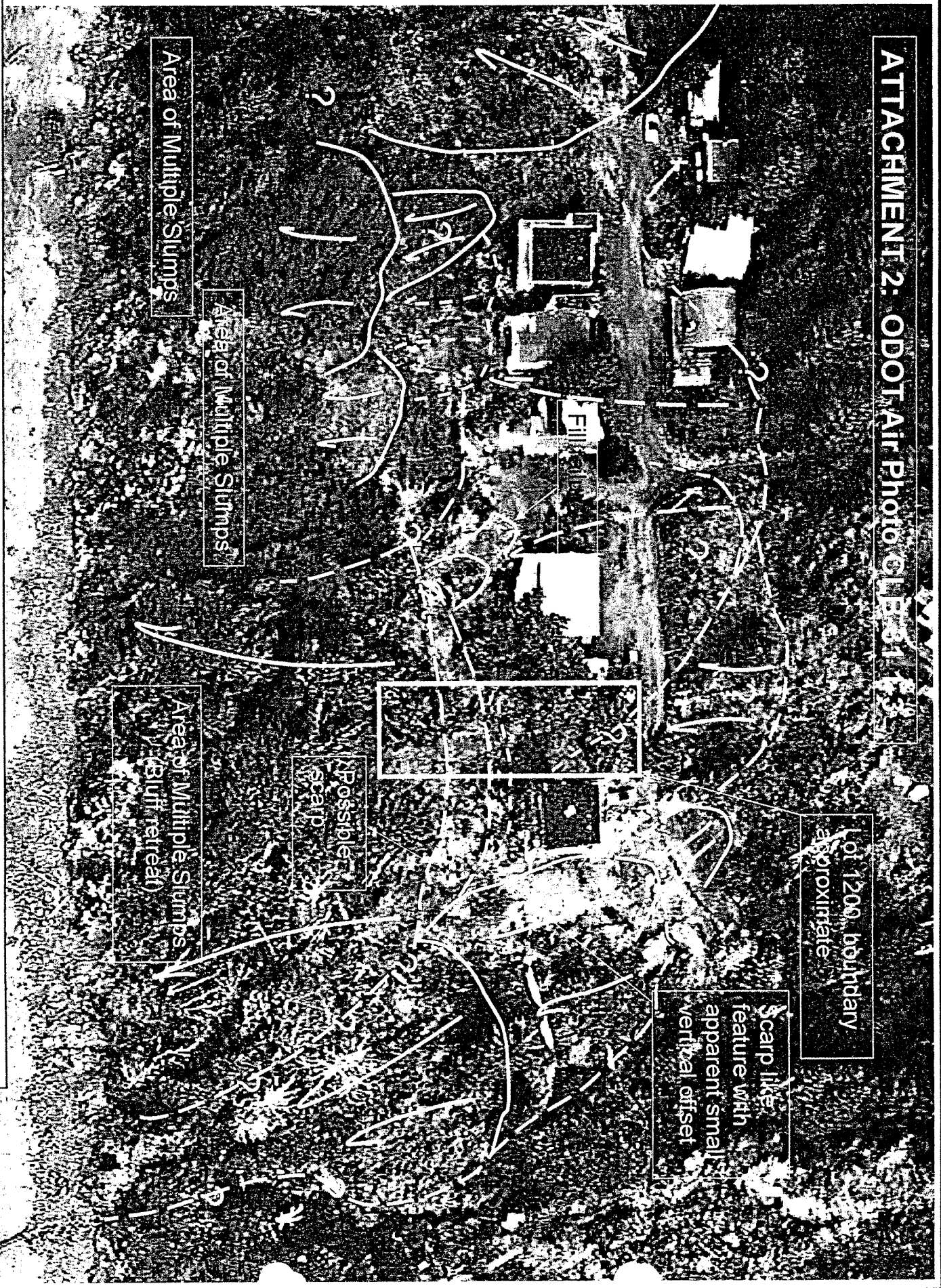
ATTACHMENT 1: ODOT Air Photo CLB-31 1-3



Lot 1200, Boundary  
Approximate

Figure 1. Enlargement of ODOT aerial photograph CLB-31 1-3, 1975.

ATTACHMENT 2: ODOT Air Photo CLB-31 1-3



Lot 1200 boundary  
approximate

Scarp like  
feature with  
apparent small  
vertical offset

Possible  
scarp

Area of Multiple Slumps  
(Cliff retreat)

Area of Multiple Slumps

Area of Multiple Slumps

Figure 2. Interpreted geomorphic features indicative of unstable landforms (CLB-31 1-3, 1975).



## SCHRANDT Connie

---

**From:** Cameron Holmes [Cameron.Holmes@azag.gov]  
**Sent:** Thursday, April 20, 2006 4:19 PM  
**To:** SCHRANDT Connie; WEICK Rodney J  
**Cc:** JLSmits@aol.com; mcewanmc@pacifier.com  
**Subject:** GWI plan

Dear Mr. Weick,

In reference to the property at T4N, R10W, S 18BB, Lot 1200, Clatsop County, located off Grand Ave, (at Mile Post 33, US HWY 101), which you visited in connection with the recent septic variance application on the lot, I am planning to install a GWI in the ditch along the east side of Arcadia, which is the road that runs North-South along the east side of the property (known as Ocean on the GIS map). This GWI will be in furtherance of the advice of Geologist Horning to install two GWIs, one of which has been installed on the property itself. I bring this to your attention because when I asked Connie Schrandt whether she had any suggestions regarding it she referred me to you. I don't want to pass an opportunity to make the plan more effective or inadvertently do anything that you would not regard as in the best interests of the stability of the slope.

This new GWI will be an improvement on the GWI I had installed along the south end of Arcadia last April because it will be deeper and because it will travel the length of the road, not just the south end of it. It will travel the entire length of this hillside, from the existing drain at the SE corner of the intersection of Grand and Arcadia to the south to where the slope steepens on its way down to the creek to the south.

Arcadia slopes up to the south from Grand, then levels off and slopes down to the creek. The proposed design, on which I have consulted very experienced excavator Mike McEwan, is to create the GWI in two segments. The north segment will start at the existing drain that runs underground to the beach and run up from Grand along Arcadia to the south. The south segment will run down from the center of the hill to the south until it gets steep, and continue out the side of the slope to the surface. Both segments will have 4" perforated drain pipe with clean-out standpipes, and both segments of the trench will be filled with drain rock to the surface and protected by geotextile fabric. Both segments of the trench will be deepest, about 6' deep, at the middle of the hillside and get closer to the surface as they travel downhill to the north and south on their respective paths. Both will fall at least 1" per 10'. The south segment will convert from perforated straight pipe to tight flexible drain pipe when it comes to the surface on the slope above the stream and travel in flexible pipe the rest of the way to the stream to the south. The goal is to de-water the entire slope to the west of Arcadia, south of Grand, consisting of Tax Lots 1000 through 1500 on the GIS map. All construction will be within the right of way of Arcadia, along the east side of the right of way.

If you have any suggestions for the improvement of this plan, please let me know.

Thank you for your time,

Cameron Holmes





## SCHRANDT Connie

---

**From:** Cameron Holmes [Cameron.Holmes@azag.gov]  
**Sent:** Tuesday, April 11, 2006 8:17 PM  
**To:** JLSmits@aol.com  
**Subject:** Re: Chaney South House

John,

Actually, the plan is to go to the north with the water from the north end of Arcadia and to the south with the water from the south end. Plan A is to move the boulder and split the watershed just north of the south phone pole, going north to the drain that runs under Arcadia at the corner of Arcadia and Grand with the north pipe segment and south to the creek with the south pipe segment. Plan B, if the boulder does not move, is to use the boulder as the watershed dividing point.

The boulder is at about the middle of Lot 1200, lying flat in the roadway at the far east side of the road, just west of the present GWI. You will see the GWI turn a bit to get around it.

Trying to go south with the water from the entire length of Arcadia would require an incredibly deep trench as it passed the high point in the road, because the trench would start something like 7' lower than the mid-point of Arcadia and have to fall from that point as it traveled south.

Best,  
Cameron

>>> <JLSmits@aol.com> 04/11/06 2:38 PM >>>

Will do.

I still don't think she needs the executed easement until she is ready to issue the permit. I expect and have asked her to write a letter of intent to issue the repair permit.

John Smits

In a message dated 4/11/2006 11:23:44 AM Pacific Standard Time, Cameron.Holmes@azag.gov writes:

Thanks. Please be sure to tell her about the new GWI and that it will be installed next week. I think it will help her distinguish this repair situation from slope stability concerns if she is looking for an objective basis on which to do so.

This means that she needs the easement by then. I spoke with the attorney for the seller yesterday and should get his approval of the draft I sent to Connie Schrandt last week soon, perhaps today. I am sure I can get this expedited and will get it done today or tomorrow.

Cameron

>>> <JLSmits@aol.com> 4/11/2006 9:16 AM >>>

Connie Schrandt indicates she will field review the proposed repair on 4/17 or 4/18 2006.

John

**SCHRANDT Connie**

---

**From:** JLSmits@aol.com  
**Sent:** Tuesday, April 11, 2006 2:49 PM  
**To:** SCHRANDT Connie  
**Subject:** Chaney - South House

Connie,

FYI Holmes/Chaney et al have engaged Mike McEwan to install a 5 to 6 foot deep GWI on the east side of Arcadia Road graded to discharge preferably to the south to connect with the 4" pipe that Cameron ran to the beach when he onstruct the GWI on that side of the road last summer. I say preferably to the south because there is a large buried boulder along the route that may be too large to remove. If it can't be removed, then the GWI will be graded to the north and to the south from the boulder. I'm not exactly sure where the boulder is located. McEwan has reviewed the site and has the plan worked out. He will do the work next week barring extra wet weather.

The effort is to further shunt surface and groundwater away from the proposed repair system.

If you have questions, please feel free to call me.

**John L. Smits, REHS**  
**Smits & Associates, Inc.**  
**16878 SW Gassner Lane**  
**Lake Oswego, OR 97035-4524**  
**Office: (503) 699-2696**  
**Fax: (503) 699-2876**  
**Cell: (503) 804-0056**  
**Email: jlsmits@aol.com**

## SCHRANDT Connie

---

**From:** Cameron Holmes [Cameron.Holmes@azag.gov]  
**Sent:** Thursday, April 13, 2006 5:00 PM  
**To:** SCHRANDT Connie  
**Cc:** JLSmits@aol.com; Robertaray@aol.com; johnrchaney@hotmail.com  
**Subject:** Easement for septic drainfield Lot 1400 (Chaney)



Septic easement  
DEQ form 04130...

Connie,

I am attaching a replacement easement for the septic system on Lot 1400 and Lot 1200, in support of the pending repair permit application for Lot 1400 (Chaney). This replaces the draft I sent you April 4, with minor changes. I have reached the seller and Mr. Chaney, and this one is by agreement of all and good to go. I have signed and notarized the original and it is in the mail to Mr. Chaney.

Best regards,

Cameron Holmes

## SCHRANDT Connie

---

**From:** Cameron Holmes [Cameron.Holmes@azag.gov]  
**Sent:** Tuesday, April 04, 2006 9:21 AM  
**To:** SCHRANDT Connie  
**Cc:** JLSmits@aol.com; Robertaray@aol.com; johnrchaney@hotmail.com  
**Subject:** RE: septic easement



Septic easement  
DEQ form 04030...

Connie,

Sorry. Thanks for letting me know. Here it is again.  
Cameron

>>> "SCHRANDT Connie" <Schrandt.Conniedeq.state.or.us> 4/4/2006 8:28 AM

>>> >>>

Cameron,

There was no attachment to this email. Please send your draft easement again. Connie

-----Original Message-----

**From:** Cameron Holmes [mailto:Cameron.Holmes@azag.gov]  
**Sent:** Monday, April 03, 2006 7:32 PM  
**To:** SCHRANDT Connie  
**Cc:** JLSmits@aol.com; Robertaray@aol.com; johnrchaney@hotmail.com  
**Subject:** septic easement

Connie,

Thanks for your kind help on the phone and for faxing me the easement form today. I have typed a new easement into your form, which is attached. I just sent this new draft off to the seller's attorney for approval. You may be assured that we will get the easement taken care of to your satisfaction.

Best regards,

Cameron



State of Oregon  
Department of  
Environmental  
Quality

### Application for Onsite Sewage Treatment System

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

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

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RECEIVED  
APR 03 2006  
NORTH COAST BRANCH OFFICE  
WARRENTON

For DEQ Use Only:  
Date Received 4-3-06  
Fee Paid \$ 385.00  
Receipt Number 122502  
Application Number 400624  
Date of 1st Response \_\_\_\_\_  
Date of 2nd Response \_\_\_\_\_  
Date of Final Response \_\_\_\_\_  
Date of Completion \_\_\_\_\_  
Scanned \_\_\_\_\_ Data Entry \_\_\_\_\_

#### A. Property Owner Information

Name John Chaney Mailing Address (Street or PO Box, City, State, Zip Code) P. O. Box 8858 Portland, OR 97207 Phone Number 503-789-9083  
Name PATRICIA CHANEY

#### B. Legal Property Description

4 North Township 10 West Range 18BB Section 1400 Tax Lot 2444 Tax Account Number 54 50' x 138' Acreage or Lot Size 1 0.16 AC  
Clatsop County Norrison Park Subdivision Name 1 Lot 1 Block 42 20117 1962

Property Address: 81060 Arcadia Road Address Tolovana Park City OR State 97145 Zip Code

Directions to Property: Hwy 101 South past Arcadia Wayside, Turn right onto Grand Avenue, Left onto Arcadia Road (AKA Ocean Avenue) Last house on the right.

#### C. Existing Facility, Proposed Facility, Water Information

Existing Facility:  Single Family Residence Two (2) Number of Bedrooms  Other \_\_\_\_\_  
Proposed Facility:  Single Family Residence \_\_\_\_\_ Number of Bedrooms  Other \_\_\_\_\_  
Water Supply:  Public \_\_\_\_\_ Name \_\_\_\_\_  
 Private Spring, off site Well, Spring, Shared

#### D. Type of Application

Site Evaluation  Renewal Permit  Authorization Notice for:  
 Construction Permit  Existing System Evaluation  Connecting to an Existing System Not in Use  
 Repair Permit  Permit Transfer  Replacing a Mobile Home or House with Another Mobile Home or House  
 Alteration Permit  Permit Reinstatement  The Addition of One or More Bedrooms  
 Major  Minor  Personal Hardship  
 Major  Minor  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.

X [Signature] Signature X 3/23/06 Date  
John Chaney Applicant's Name - Please Print Legibly 503-789-9083 Applicant's Phone Number  
P. O. Box 8858 Portland, OR 97207 Applicant's Mailing Address \_\_\_\_\_ Applicant's E-mail Address \_\_\_\_\_

Applicant is the  Owner  Authorized Representative  Licensed Septic Installer  
 Authorization Attached  
Installer's Name \_\_\_\_\_



# Smits & Associates, Inc.

16878 S. W. Gassner Lane  
Lake Oswego, OR 97035-4524  
(503) 699-2696 Fax (503) 699-2876  
email: jlsmits@aol.com

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RECEIVED

APR 03 2006


NORTH COAST BRANCH OFFICE  
WARRENTON

## Memorandum

To: Connie Schrandt  
Natural Resource Specialist

March 31, 2006

Cc: John Chaney  
Cameron Holmes

From:  John L. Smits, REHS  
Smits & Associates, Inc.

Re: On-Site Sewage Disposal  
John Chaney (Owner)  
T.4N., R.10W., Sec.18BB Tax Lot 1400  
Clatsop County  
**Major Repair Permit Application**

Dear Connie,

Enclosed, please find the following:

1. Major Repair Application and fee in the amount of \$385.00
2. Site map at a scale of 1" = 10 feet showing test pits and a staked, proposed system. I have staked the system a minimum of 50 feet up-gradient of the ocean bluff and at least 25 feet from the bluff/cut bank to the south which is perpendicular to the subsurface flow gradient. A new test pit has been provided to augment the 3 existing pits.
3. A tax map of T.4N., R.10W., Sec.18BB Tax Lot 1400
4. A copy of an enlarged view of the same tax map showing the subject lot.

A Land Use Compatibility Statement (LUCS) form is being sent to Clatsop County along with an Application for a Lot of Record Determination. As soon as I have those forms back, I will forward them to you.

As you will recall, we have discussed the substance of this proposal in the past as a reasonable repair to replace the existing system that served the residence. The existing system consisted of a cesspool with a perforated overflow pipe that ultimately would have discharged onto the ground surface in very short order if the system was used. The structure could have been used at any time as water is available and electricity. The system was abandoned when the groundwater interceptor (GWI) was installed last October, 2005 to dewater Tax Lot 1200 as well as protect this portion of Tax Lot 1400.

We need your review of the proposed repair as soon as possible. If you agree that the proposal is acceptable as a reasonable repair, we will need a brief letter indicating the permit can be issued with conditions. The conditions will include the preparation of utility easement documents for the system of trenches and the existing GWI as both extend across property lines. The importance of your timely review of the site and report preparation cannot be over emphasized. Please advise of anything that can be done to speed up your review. I would be happy to meet with you at the site to review the conditions together. I would need 2 days advance notice, but I don't want to lose that time if you are in the area and it makes sense to review the site.

If you have any questions or wish to discuss this letter, please feel free to contact me at (503) 699-2696.

JOHN & PATRICIA CHANEY  
410-188B-1400

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APR 03 2006

EXISTING SEWAGE DISPOSAL SYSTEM DESCRIPTION

NORTH COAST BRANCH OFFICE  
WARRENTON

Answer the following as best you can.

1. The existing sewage disposal system <sup>consisted</sup> consists of (check):

- ( ) Septic Tank      ( ) Disposal Trenches      ( ) Unknown
- ( ) Seepage Bed      (x) Cesspool or Pit
- ( ) Other —

(Describe) Cesspool had concrete top, BLK PVC RISER + LID with a corrugated, perforated over flow pipe running down hill thru soil to 24" cover & finally daylighted on the ground surface.

2. When was your sewage disposal system installed? 1960s? (Year)      NONE (Permit No.)

3. <sup>Cesspool</sup> Tank material:

- ( ) Steel      (x) Concrete + Block      ( ) Fiberglass
- ( ) Polyethylene      ( ) Unknown

4. Volume of the septic tank in gallons: 500 gal

5. When was the septic tank last pumped? NO RECENT USE (Attach receipt)  
CESS POOL WAS EMPTY. REMOVED BY

6. Number of disposal trenches: one perf pipe no rock

Mike McEwan  
in building  
GWI.

7. Total length of disposal trenches (feet): 45'

8. Is your sewage disposal system currently in use? Yes ( ) No (x)  
If no, how long has the system been out of use? YEARS, but structure was habitable at any time.

9. If the sewage disposal system serves a dwelling, how many bedrooms in the Dwelling? 2 How many people occupy the dwelling? 2? in past

10. If the sewage disposal system serves a business, how many employees do you employ? \_\_\_\_\_ Type of business: \_\_\_\_\_

By my signature, I certify the above information is accurate and true to the best of My knowledge.

4/3/06  
Date

John Chaney  
Signature of Property owner or  
Legally Authorized Representative

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APR 07 2006

SECTION 1 - TO BE FILLED OUT BY APPLICANT (may be filled in electronically using Tab key to move to each field)

WARRENTON

1. Applicant Name/Property Owner: John Chaney
Mailing Address: P. O. Box 8858 Telephone: 503-789-9083
City: Portland State: OR Zip: 97207

2. Property Information:
County: Clatsop Tax Lot Number: 1400
Township: 4 North Range: 10 West Section: 18BB
Property Address: 81060 Arcadia Road Tolovana Park, OR 97145
Block: 5 Lot: 1 Subdivision Name (if applicable): Norriston Park

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

4. Permit or approval being requested:
[checked] On-site construction-installation permit for: [ ] New construction [checked] Repairs [ ] Alterations
[ ] Non-water-carried facility requests (for example, pit privy/vault toilet for camp grounds).
[ ] On-site Authorization Notices for: [ ] Replacement of dwelling [ ] Bedroom addition
[ ] Other changes in land use involving potential sewer flow increases

SECTION 2 - TO BE FILLED OUT BY CITY OR COUNTY PLANNING OFFICIAL

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

6. Property Zoning: CR/GHO Zoning Minimum Parcel Size: 20,000 sq ft

7. Is a public notice and hearing required? [ ] Yes [checked] No Hearing Date:

8. Does the proposed facility comply with all applicable local land use requirements: [checked] Yes [ ] No
Comments:

9. Planning Official Signature: Chris Hoth
Print Name: CHRIS HOTH Title: PLANNING TECH
Telephone No.: 325-8611 Date: 4-7-2006

\* Planning Official Signature:
Print Name:
Telephone No.:
Title:
Date:

\* Both city and county planning officials may need to sign if use is within a UGB.

Receipt Number: 123502

Oregon Department of Environmental Quality

Warrenton Office



65 N Highway 101, Suite G  
Warrenton, OR 97146

Date Received 4/3/2006

Received From **John Chaney**  
(Check Name): **PO Box 8858**  
**Portland, OR 97207**

For **T04N R10W S18 BB**  
Property **TaxLot 1400**  
At: **Clatsop County**  
**81060 Arcadia Rd.**  
**Tolovana Park, OR 97145**

**Current Payment**

Amount Paid	Payment Type	Check # Money Order # Purchase Order	Bank Number	Amount Applied
385.00	Check	8163	24-22	385.00

Total Amount Applied \$385.00

Onsite Fees	
Base Fee:	<b>345.00</b>
Surcharge Fee:	<b>40.00</b>
Plan Review Flow Fee:	
Pump Evaluation Fee:	
Flow Fee:	
Reinspection Fee:	
<b>Total Fee</b>	<b>\$385.00</b>
Payments	
Previous Payments:	<b>0.00</b>
Current Payment:	<b>385.00</b>
Over Payment:	<b>0.00</b>
<b>Total Payments:</b>	<b>\$385.00</b>

Application Description	
Application ID:	<b>400634</b>
Application Type:	<b>Repair Permit</b>
	<b>Single Family Dwelling-Major</b>
System Type:	<b>Unknown</b>
Pump Evaluation:	<b>No</b>
Flow:	<b>0</b> gallons/day

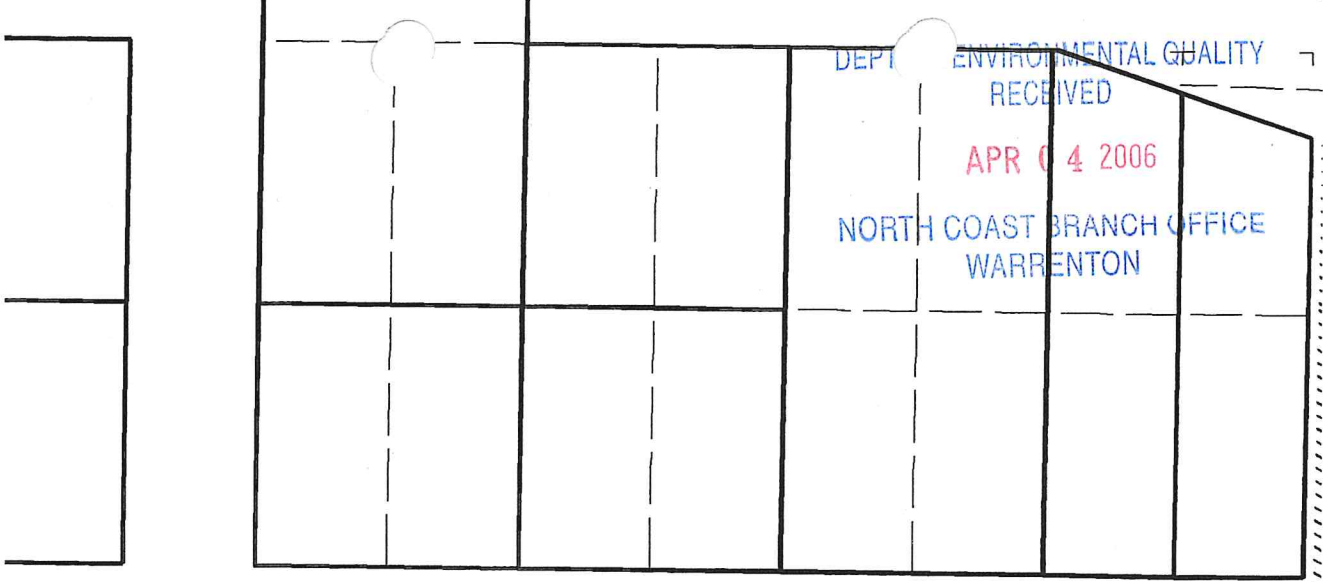
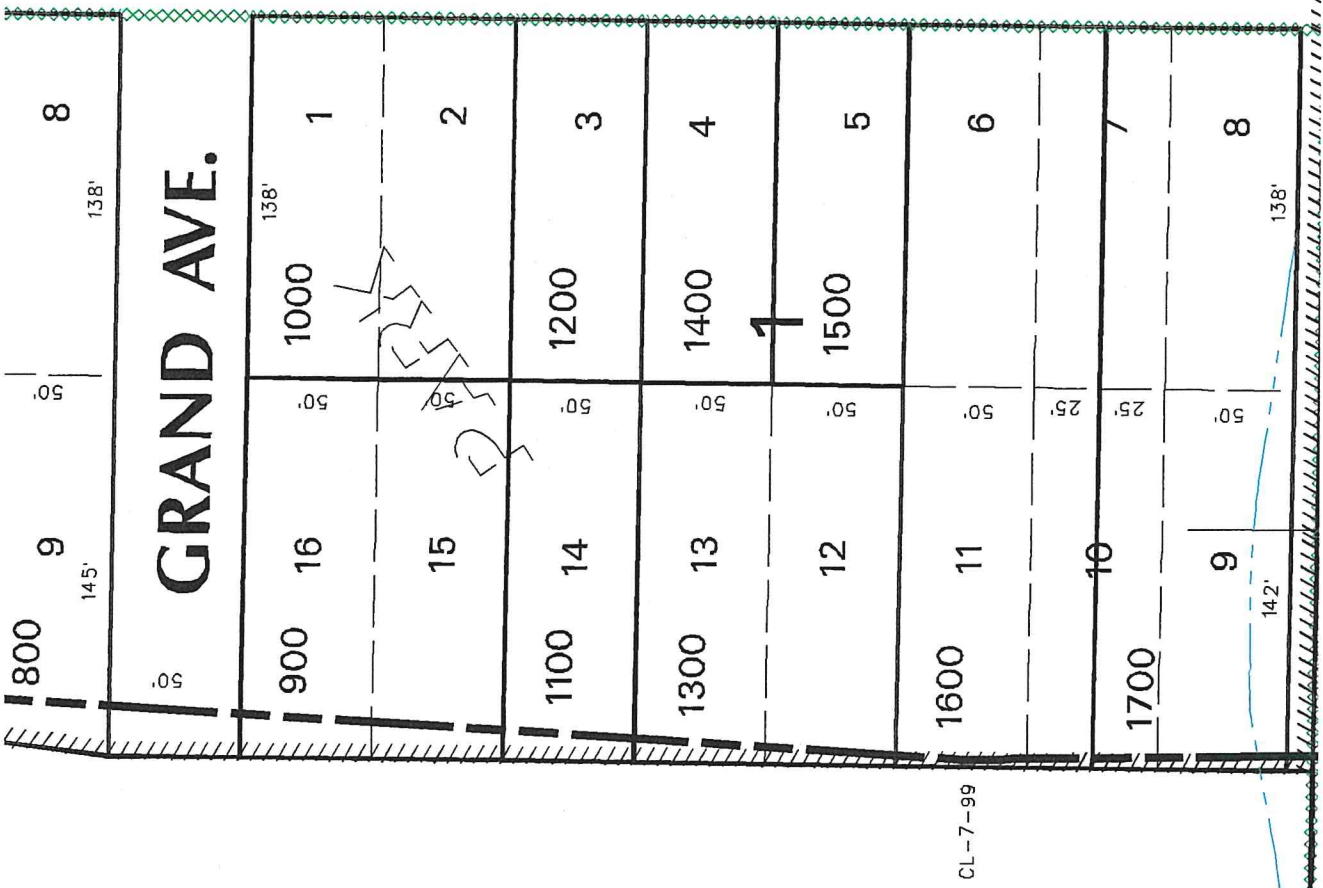
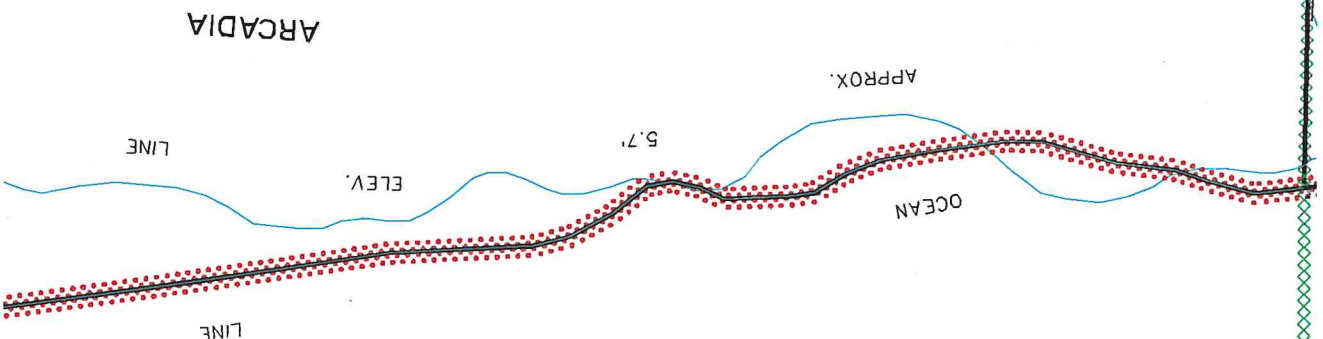
Receipt Amount: \$385.00

Received By:

Dave Johns

Date of Entry:

4/3/2006



T4N R10W SEC 18BB WM  
CLATSOP COUNTY

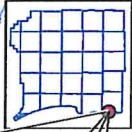
Scale 1:1200



Canceled  
Accounts  
110

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APR 04 2006



March 15, 2006

4.10.18BB

NORTH COAST BRANCH OFFICE  
WARRENTON

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
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This map is provided for reference only. It is not a legal document. For a complete and accurate description of the property, please refer to the official plat or deed. The map is not to be used for any other purpose without the express written consent of the County.

