# POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

## Summary Memorandum

Site ID: WA D980639041
County: Kittitas
Priority Assessment: ~~LOW~~ None MJS 6/30/86
Backlog Red. Cat.:
Date/Revised: 08/27/85

**Name and Location:**

Kittitas Co. Horlick Landfill
E. of Horlick Road
Kittitas Co., Washington 98926

Contact: Kitt Co Health
Telephone: (509) 9626811
Site Status: ( ) Active ( X ) Inactive ( ) Unknown

**Site Description/TSD Activities:**

Site is a closed municipal landfill in Kittitas County. It was operated by the county from 1973 to 1977 when it was closed prematurely due to problems from windblown litter and surface runoff. Landfill is closed and covered and is no longer a problem according to County Health Department.

**Waste Types/Quantities/Characteristics:**

Municipal sanitary refuse and small quantities of triple rinsed pesticide containers. There are no records indicating that hazardous wastes have been deposited here.

**Physical/Social Environment:**

Site is located approx. 12 miles NW of Ellensburg in rural range land. There are no schools or parks within one mile.

**Pollutant Mobilization/Pathways/Risk:**

There are no records indicating the presence of hazardous wastes on site. Triple rinsed pesticide containers are present. Kittitas Co. Health Department believes the presence of hazardous wastes is unlikely since there is no significant source for such materials in the area.

**Priority Assessment/Backlog Reduction Category:**

None ~~Low~~: No further action is necessary at this site unless hazardous materials are detected at this facility or can be attributed to it.

**Followup Recommendations:**

Occasional inspection or monitoring of surface waters during periods of snow melt or heavy rainfall for potential leachate generation or seepage is recommended.

USEPA SF
1580946

# POTENTIAL HAZARDOUS WASTE SITE
# PRELIMINARY ASSESSMENT
## Part 1 - Site Information and Assessment

**I. IDENTIFICATION**

| 01 State | 02 Site Number |
|---|---|
| WA | D980639041 |

## II. SITE NAME AND LOCATION

| 01 Site Name (legal, common, or descriptive name of site) | 02 Street, Route No., or Specific Location Identifier |
|---|---|
| Kittitas Co-Horlick Ldfl | E. of Horkick Rd., |

| 03 City | 04 State | 05 Zip Code | 06 County | 07 County Code | 08 Cong Dist |
|---|---|---|---|---|---|
| Kittitas County | WA | 98926 | Kitt. | 037 | 04 |

| 09 Coordinates Lattitude | Longitude | Section/Township/Range |
|---|---|---|
| 465954.0 | 1203224.0 | NE1/4 Sec 30, T19N, R17E, W. M. |

10 Directions to Site (starting from nearest public road)

East of Horlick Road, South of The Yakima River

## III. RESPONSIBLE PARTIES

| 01 Owner (if known) | 02 Street (business, mailing, residential) |
|---|---|
| Mrs. Ben Johnson | Unknown |

| 03 City | 04 State | 05 Zip Code | 06 Telephone Number |
|---|---|---|---|
| | | | |

| 07 Operator (if known and different from owner) | 08 Street (business, mailing, residential) |
|---|---|
| Kittitas Co. | 5th & Main, Rm 108 |

| 09 City | 10 State | 11 Zip Code | 12 Telephone Number |
|---|---|---|---|
| Ellensburg | WA | 98926 | (509)9255317 |

13 Type of Ownership (check one)

(X) A. Private ( ) B. Federal: ( ) C. State ( ) D. County ( ) E. Municipal
( ) F. Other: ( ) G. Unknown

14 Owner/Operator Notification on File (check all that apply)

( ) A. RCRA 3001, Date Rec'd: / / (X) B. Uncontrolled Waste Site (CERCLA 103c), Date Rec'd: 08/ 10/ 81 ( ) C. None

## IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 On Site Inspection

(X) Yes, Date: 7/3 -/ 84
( ) No

By (check all that apply):

( ) A. EPA ( ) B. EPA Contractor (X) C. State ( ) D. Other Contractor
(X) E. Local Health Official ( ) F. Other:

Contractors Name(s):

02 Site Status (check one)

( ) A. Active (X) B. Inactive ( ) C. Unknown

03 Years of Operation beginning year ending year

1973 1977 ( ) Unknown

04 Description of Substances Possibly Present, Known, or Alleged

Site was a county operated landfill accepting municipal/sanitary wastes. Triple rinsed (empty) pesticide containers were also received. No known hazardous wastes were disposed at site.

05 Description of Potential Hazard to Environment and/or Population

Due to poor location (in draw/ravine) and wind blown litter problems, site was closed in 1977. Surface runoff from snow melt was primary reason for closure. Since closure landfill has been covered and reportedly does not have a runoff problem.

## V. PRIORITY ASSESSMENT

01 Priority for Inspection (check one; if high or medium is checked, complete Part 2 and Part 3)

( ) A. High (inspection required promptly) ( ) B. Medium (inspection required) ( ) C. Low (inspect on time available basis) (X) D. None (no further action needed complete current disposition form)

## VI. INFORMATION AVAILABLE FROM

| 01 Contact | 02 Of (agency/organization) | 03 Telephone Number |
|---|---|---|
| Ned Therien | WDOE | (206)-4596280 |

| 04 Person Responsible for Assessment | 05 Agency | 06 Organization | 07 Telephone Number | 08 Date |
|---|---|---|---|---|
| Patt O'Flaherty | | SAIC | (206)-7477899 | 08/ 27/ 85 |

*Modified (5/84) from EPA Form 2070-12 dated 7/81*

# POTENTIAL HAZARDOUS WASTE SITE
# PRELIMINARY ASSESSMENT
## Part 2 - Waste Information

| I. IDENTIFICATION | |
|---|---|
| 01 State | 02 Site Number |
| WA | D980639041 |

## II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

**01 Physical States** (check all that apply)

(X) A. Solid
( ) B. Powder, Fines
( ) C. Sludge
( ) D. Other:
( ) E. Slurry
( ) F. Liquid
( ) G. Gas

**02 Waste Quantity at Site** (measures of waste quantities must be independent)

Tons: UNK
Cubic Yards: UNK
No. of Drums: UNK

**03 Waste Characteristics** (check all that apply)

( ) A. Toxic
( ) B. Corrosive
( ) C. Radioactive
( ) D. Persistent
( ) E. Soluble
( ) F. Infectious
( ) G. Flammable
( ) H. Ignitable
( ) I. Highly Volatile
( ) J. Explosive
( ) K. Reactive
( ) L. Incompatible
( ) M. Not Applicable

## III. WASTE TYPE

| Category | Substance Name | 01 Gross Amount | 02 Unit of Measure | 03 Comments |
|---|---|---|---|---|
| SLU | Sludge | | | |
| OLW | Oily Waste | | | |
| SOL | Solvents | | | |
| PSD | Pesticides | | | |
| OCC | Other Organic Chemicals | | | |
| IOC | Inorganic Chemicals | | | |
| ACD | Acids | | | |
| BAS | Bases | | | |
| MES | Heavy Metals | | | |

## IV. HAZARDOUS SUBSTANCES (see Appendix for most frequently cited CAS numbers)

| 01 Cat. | 02 Substance Name | 03 CAS Number | 04 Storage/Disposal Method | 05 Concentration | 06 Measure of Concentration |
|---|---|---|---|---|---|
| | | | | | |

## V. FEEDSTOCKS (see Appendix for CAS numbers

| Category | 01 Feedstock Name | 02 CAS Number | Category | 01 Feedstock Name | 02 CAS Number |
|---|---|---|---|---|---|
| FDS | | | FDS | | |
| FDS | | | FDS | | |
| FDS | | | FDS | | |
| FDS | | | FDS | | |

## VI. SOURCES OF INFORMATION (cite specific references, e.g., state files, etc.)

WDOE Central Regional Files; EPA/ERRIS files; CERCLA 103 (c) Notification, 06/10/81; Landfill Suitability Study, VTN (1972)

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
Part 3 - Description of Hazardous Conditions & Incidents

I. IDENTIFICATION

| 01 State | 02 Site Number |
|---|---|
| WA | D980639041 |

## II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ( X ) A. Groundwater Contamination 02 ( ) Observed (Date: ) ( X ) Potential ( ) Alleged

03 Population Potentially Affected: <100 04 Narrative Description

None reported. Landfill is located in glacial deposits. Depth to groundwater is unknown but >40 ft. Primary aquifer on south side of river may be as deep as 100 ft. in basalt based on nearby well log. Risks to groundwater minimal. No records show hazardous wastes disposed of here.

01 ( X ) B. Surface Water Contamination 02 ( ) Observed (Date: ) ( ) Potential ( ) Alleged

03 Population Potentially Affected: 0 04 Narrative Description

No reported; no known hazardous wastes. Surface runoff from landfill resulted in its closure. Water quality testing was performed at Health Dept's request, revealing high TOC but no other leachate indicators (pers. comm., G. Kelly, Kittitas Health Dept.)

01 ( X ) C. Contamination of Air 02 ( ) Observed (Date: ) ( ) Potential ( ) Alleged

03 Population Potentially Affected: 0 04 Narrative Description

None reported or suspected. Less than 10 residents live within one mile.

01 ( X ) D. Fire/Explosive Conditions 02 ( ) Observed (Date: ) ( ) Potential ( ) Alleged

03 Population Potentially Affected: 0 04 Narrative Description

No known certified fire/explosive conditions.

01 ( X ) E. Direct Contact 02 ( ) Observed (Date: ) ( ) Potential ( ) Alleged

03 Population Potentially Affected: 0 04 Narrative Description

None reported or suspected. Site is covered and fenced.

01 ( X ) F. Contamination of Soil 02 ( ) Observed (Date: ) ( X ) Potential ( ) Alleged

03 Area Potentially Affected (acres): <10 04 Narrative Description

None reported. Potential for contamination from past runoff, although there are no records of hazardous materials/wastes on site. Native soils are gravelly, silty sands with clays.

01 ( X ) G. Drinking Water Contamination 02 ( ) Observed (Date: ) ( ) Potential ( ) Alleged

03 Population Potentially Affected: 0 04 Narrative Description

None reported. No records indicate the presence of hazardous materials on site. There are no known public supplies within 3 miles. Nearest known well (Sunlite Waters) is 1.3 miles NW but a residence 0.5 miles SE may have well not in WDOE files. Potential, if leachate is generated.

01 ( X ) H. Worker Exposure/Injury 02 ( ) Observed (Date: ) ( ) Potential ( ) Alleged

03 Workers Potentially Affected: 0 04 Narrative Description

None reported or suspected. Site is inactive and covered.

01 ( X ) I. Population Exposure/Injury 02 ( ) Observed (Date: ) ( X ) Potential ( ) Alleged

03 Population Potentially Affected: <100 04 Narrative Description

There are no records indicating presence of hazardous wastes/materials on site or are attributable to it. Past surface water runoff problems no longer occur according to Kittitas Co. Health Department. It was inspected yearly following closure.

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
Part 3 - Description of Hazardous Conditions & Incidents

I. IDENTIFICATION

| 01 State | 02 Site Number |
|---|---|
| WA | D980639041 |

## II. HAZARDOUS CONDITIONS AND INCIDENTS (continued)

01 ( X ) J. Damage to Flora 02 ( ) Observed (Date: ) ( ) Potential ( ) Alleged

04 Narrative Description
None reported or suspected.

01 ( X ) K. Damage to Fauna 02 ( ) Observed (Date: ) ( ) Potential ( ) Alleged

04 Narrative Description (include name[s] of species)
None reported or suspected.

01 ( X ) L. Contamination of Food Chain 02 ( ) Observed (Date: ) ( ) Potential ( ) Alleged

04 Narrative Description
None reported or suspected.

01 ( X ) M. Unstable Containment of Wastes (spills/runoff/standing liquids/leaking drums) 02 ( ) Observed (Date: ) ( ) Potential ( ) Alleged

03 Population Potentially Affected: <100 04 Narrative Description
Past problems with litter blowing on adjoining property as well as surface runoff due to inadequate diking. Landfill closed for these reasons. Now covered and presents no known problems according to Health Dept.

01 ( X ) N. Damage to Offsite Property 02 ( ) Observed (Date: ) ( ) Potential ( ) Alleged

04 Narrative Description
Out-of-court settlement between county & adjacent property resulted in landfill & monetary settlement provided to owner due to litter & surface runoff. No problems persist. Landfill closed and covered.

01 ( X ) O. Contamination of Sewers, Storm Drains, WWTPs 02 ( ) Observed (Date: ) ( X ) Potential ( ) Alleged

04 Narrative Description
None reported or suspected. Site is not served by sewers.

01 ( X ) P. Illegal/Unauthorized Dumping 02 ( ) Observed (Date: ) ( ) Potential ( ) Alleged

04 Narrative Description
None reported or suspected.

05 Description of Any Other Known, Potential, or Alleged Hazards
None known.

## III. TOTAL POPULATION POTENTIALLY AFFECTED: <100

## IV. COMMENTS

There are no records indicating the presence of hazardous wastes/materials on site. Occasional inspection or monitoring of surface waters in drainages during snow melt or during periods of heavy rain to check for potential leachate generation is recommended.

## V. SOURCES OF INFORMATION (cite specific references: state files, reports, etc.)

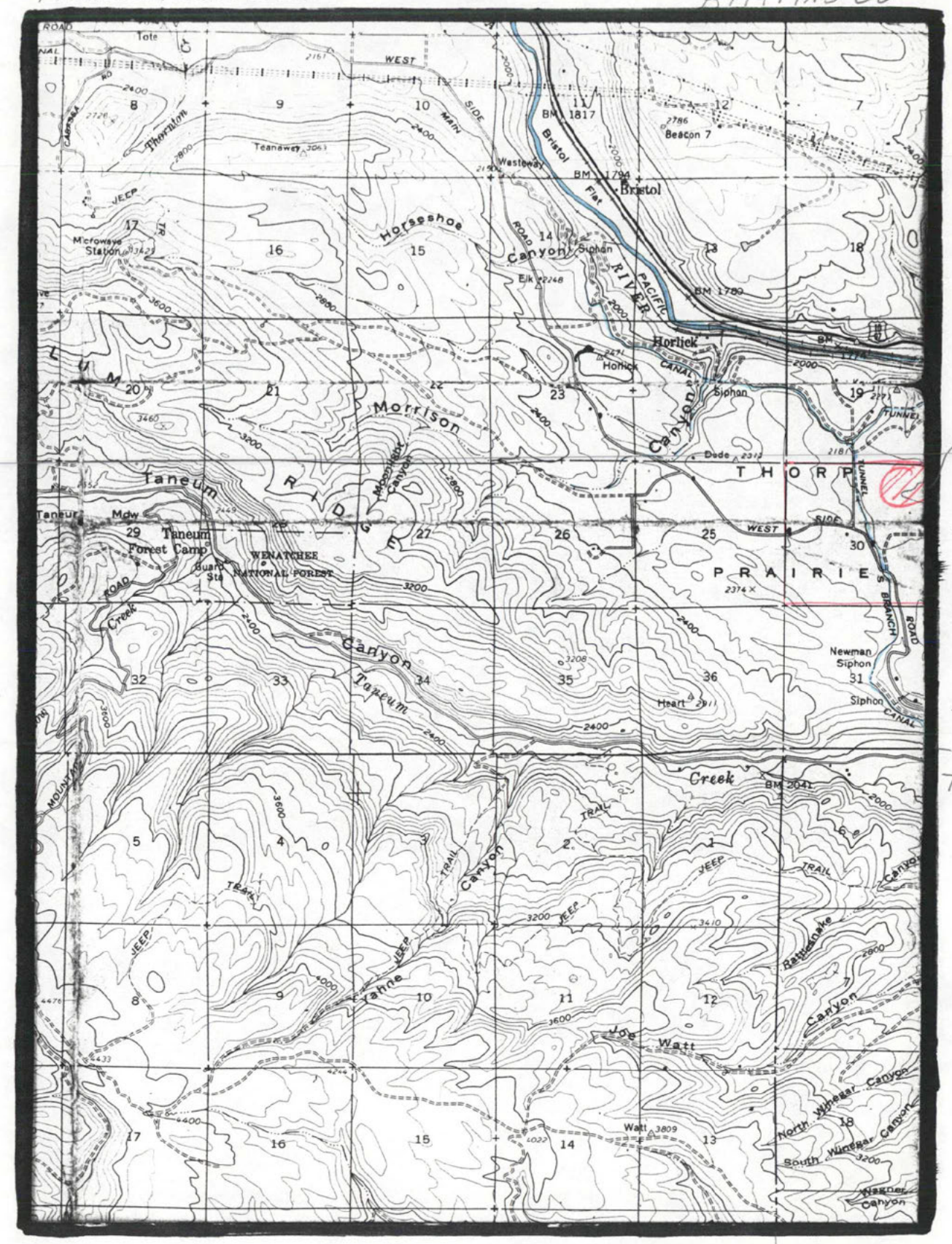
USGS Cle Elum Quad (1958); WDOE Surface Withdrawal Records; DSHS Water Supply Listing; G. Kelly, Kittitas Co. Health Dept., pers. comm., 7/19/85; 1973 Solid Waste Mgmt Rep. Kittitas Co.; VTN 1972, Suitability studies for Horlick LF; WDOE Geo/Hydro Mono #5 (1980); 1980 Census Data.

U.S.G.S. 15' CLE ELUM QUAD (1958)

WAD 980639041

HORLICK LANDFILL

KITTITAS CO




APPROX NE1/4 SEC. 30 T.19N R17E WM

T 19N

T 18N

R16E | R17E

ATTACHMENT B
RCRA Section 3012 Preliminary Assessment Program
Surface and Groundwater Hydrology

Site Name KITTITAS CO - HORLICK LF County KITTITAS

Sources:
1. USGS 15' CLE ELUM QUAD (1958)
2. WDOE, GEOHYDRO MONOG. #5 - PRINCIP. AQUIFERS IN WA. STATE (1980)
3. UTN (1972) SUITABILITY STUDIES FOR HORLICK LANDFILL
4. WDSHS PUBLIC WATER SUPPLIES (1985 COMPUTER PRINTING)
5. WDOE SURFACE WATER WITHDRAWALS 1985 RECORDS (PLOTTED ON METSKER MAPS)
6.
7.
8. Well logs used: ATTACHED

## GROUNDWATER

Name/description of aquifer

Site reportedly in glacial moraine deposits which may provide drinking supplies. These deposits OVERLIE basalt which based on only one well on same side of river (south) is principal aquifer.

Source 2/3/8

Depth from the ground surface to the highest seasonal level of the saturated zone of the aquifer

Based on 5 soil borings averaging 38 ft. in depth, water was not encountered; nearest well on south side of river reports GW encountered at 178'. NORTH OF RIVER CONFINED AQUIFER. RESULTING IN ARTESIAN WELLS ESTIMATE GW IS 50 ft. OR MORE AT THIS SITE

Source 2/3/8

Soil type in unsaturated zone

PREDOMIN. GRAVELLY SILTY SAND WITH GRAVELLY CLAYEY SAND

Source 3

Permeability associated with soil type

MODERATE

Source 3

Use(s) of aquifer of concern within a 3-mile radius of the hazardous substance. If available, indicate up-gradient or down-gradient

Domestic Supply
Public Supply
Irrigation

Source 4/8/2/1

Location of nearest known well drawing from aquifer of concern or occupied building not served by a public water supply

Sunlite Waters Development
Sec. 24 T19N R16E

Source 8/5

However CERCLA 103e lists residence 0.5 mi. SE and no surface discharge so would guess a well is onsite

Distance from hazardous substance to above well or building and, if available, indicate up-gradient or down-gradient

from 1 to 1.5 miles N west of LANDFILL
(Well is not precisely located on log)

Source 8/1

Identified water-supply well(s) drawing from aquifer of concern within a 3-mile radius of the hazardous substance and population served by each well

Public: NONE (AS REPORTED BY DSHS)

Private: 12(3.5) = 42

Source 4/8

Land area (in acres) irrigated by supply well(s) drawing from aquifer of concern within a 3-mile radius of the hazardous substance

UNKNOWN - WDOE DOES NOT RECORD # ACRES IRRIGATED
MOST WATER USED FOR STOCK WATERING

Source 1/5

## SURFACE WATER

Name/description and distance to nearest downslope surface water if within three miles

S BRANCH CANAL flowing to
YAKIMA RIVER

Source 1

Average slope (in percent) of terrain between facility and above-cited surface water

< 5%

Source 1

Distance to above-cited surface water

to CANAL - LF is < 0.5 mi east

Source 1

To RIVER - LF is ≈ 1 mi. ~~South~~

Use(s) of surface water within 3-miles (free-flowing water) or 1-mile (static water) of the hazardous substance

IRRIGATION
RECREATION

Source 1

Location of water-supply intake(s) within 3-miles (free-flowing water) or 1-mile (static water) downstream of the hazardous substance and population served by each intake

1 - #438063 NW1/4 NW1/4 Sec 28
2 - #426741 NW1/4 Sec 20 Source 5

Land area (in acres) irrigated by supply well(s) within 3-miles (free-flowing water) or 1-mile (static water) downstream of the hazardous substance 80)

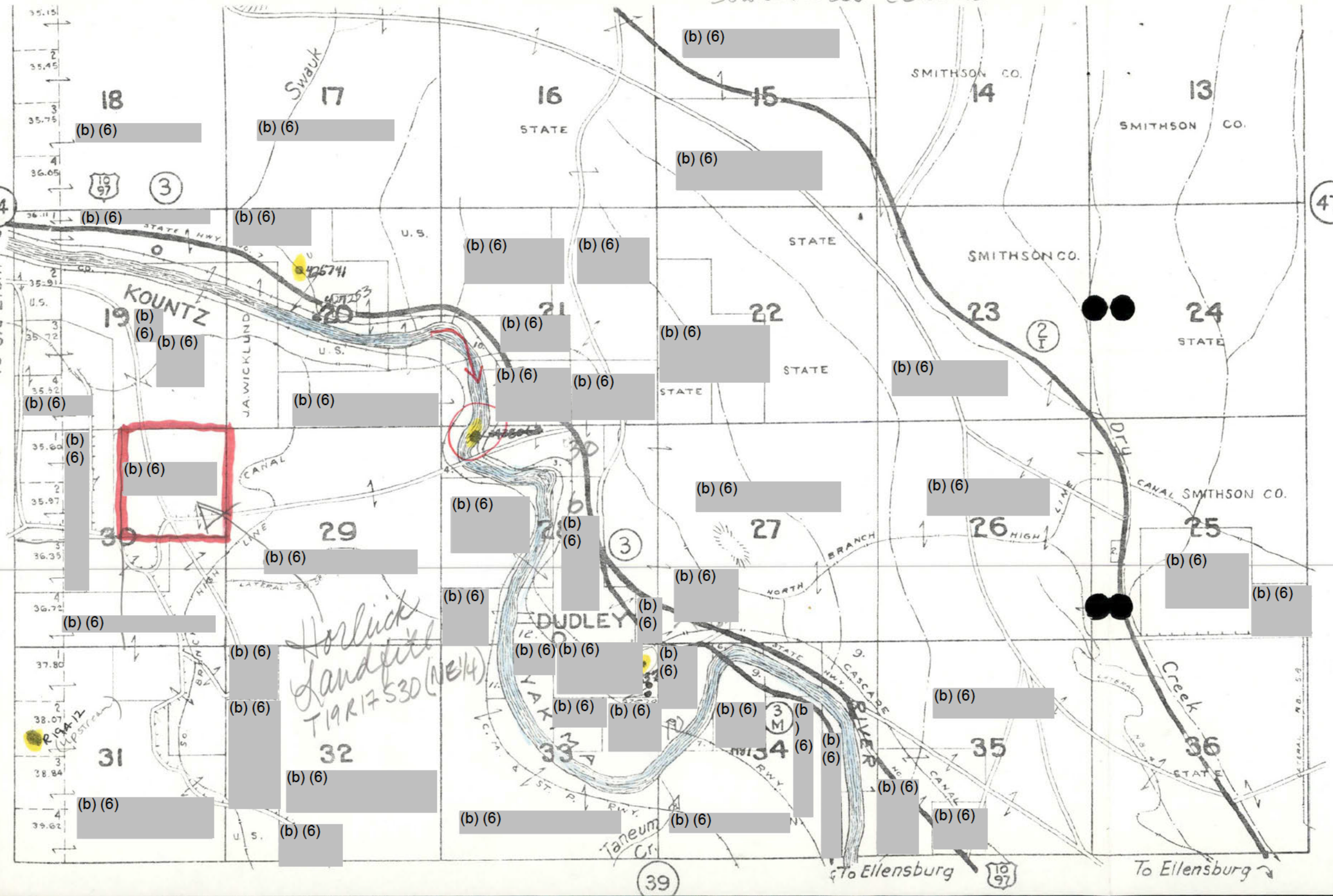
UNK

Source 1/5

Distance, in stream miles, to intakes cited in previous two items

1) 1.25 mi N & NW Source 1/5
2) 1 mi N

Source: WDOE CENTRAL



40

# ENGINEERING TECHNICIAN SERVICES

3061 E. AMES LAKE DRIVE N.E.
REDMOND, WASHINGTON 98052
(206) 333-4156

SITE: Horlick Landfill
TOTAL WELLS: 12
(WITHIN 3 MILES)

R16 R17

T19

T18

| | | | | | |
|---|---|---|---|---|---|
| 6 | 5 | 4 | 3 | 2 | 1 |
| 7 | 8 | 9 | 10 | 11 | 12 |
| 18 | 17 | 16 | 15 | 14 | 13 |
| 19 | 20 | 21 | 22 | 23 | 24 |
| 30 | 29 | 28 | 27 | 26 | 25 |
| 31 | 32 | 33 | 34 | 35 | 36 |

| | | | | | |
|---|---|---|---|---|---|
| 6 | 5 | 4 | 3 | 2 | 1 |
| 7 | 8 | 9 | 10 | 11 | 12 |
| 18 | 17 | 16 | 15 | 14 | 13 |
| 19 | 20 | 21 | 22 | 23 | 24 |
| 30 | 29 | 28 | 27 | 26 | 25 |
| 31 | 32 | 33 | 34 | 35 | 36 |

| | | | | | |
|---|---|---|---|---|---|
| 6 | 5 | 4 | 3 | 2 | 1 |
| 7 | 8 | 9 | 10 | 11 | 12 |
| 18 | 17 | 16 | 15 | 14 | 13 |
| 19 | 20 | 21 | 22 | 23 | 24 |
| 30 | 29 | 28 | 27 | 26 | 25 |
| 31 | 32 | 33 | 34 | 35 | 36 |

| | | | | | |
|---|---|---|---|---|---|
| 6 | 5 | 4 | 3 | 2 | 1 |
| 7 | 8 | 9 | 10 | 11 | 12 |
| 18 | 17 | 16 | 15 | 14 | 13 |
| 19 | 20 | 21 | 22 | 23 | 24 |
| 30 | 29 | 28 | 27 | 26 | 25 |
| 31 | 32 | 33 | 34 | 35 | 36 |

T=19 R=17
T=19 R=16
T=18 R=17
T=18 R=16

SECTIONS

NOTES: (Location NE¼ S30 T19R17)

T18R17S4 = Upper Columbia Conference

- Copied all well logs in T19 R16&17 within 3 mi. radius

Kittitas - Ellensburg

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

# WATER WELL REPORT

## STATE OF WASHINGTON

Application No. 7532

Permit No. .....

**(1) OWNER:** Name Sanitle Waters Development Address Ste Elum Wash 98922

**(2) LOCATION OF WELL:** County ..... ¼ ..... ¼ Sec. 24 T. 19 N., R. 16 W.M.

Bearing and distance from section or subdivision corner South of River / 24 19 16 EWM

**(3) PROPOSED USE:** Domestic ☑ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

Recreation Park Development

**(4) TYPE OF WORK:** Owner's number of well (if more than one) ....

New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☑ Driven ☐
Reconditioned ☐ Rotary ☑ Jetted ☐

**(5) DIMENSIONS:** Diameter of well ..... inches.

Drilled 480 ft. Depth of completed well 480 ft.

**(6) CONSTRUCTION DETAILS:**

**Casing installed:** 14" Diam. from 0 ft. to 21 ft.
Threaded ☐ 16" Diam. from 0 ft. to 108 ft.
Welded ☐ 8" Diam. from 0 ft. to 257 ft.

**Perforations:** Yes ☐ No ☒

Type of perforator used .....
SIZE of perforations ..... in. by ..... in.
..... perforations from ..... ft. to ..... ft.
..... perforations from ..... ft. to ..... ft.
..... perforations from ..... ft. to ..... ft.

**Screens:** Yes ☐ No ☒

Manufacturer's Name .....
Type ..... Model No. .....
Diam. ..... Slot size ..... from ..... ft. to ..... ft.
Diam. ..... Slot size ..... from ..... ft. to ..... ft.

**Gravel packed:** Yes ☐ No ☒ Size of gravel: .....
Gravel placed from ..... ft. to ..... ft.

**Surface seal:** Yes ☒ No ☐ To what depth? 21 ft.
Material used in seal 14 Steel Casing to 21
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? ..... Depth of strata .....
Method of sealing strata off .....

**(7) PUMP:** Manufacturer's Name .....
Type: ..... H.P. .....

**(8) WATER LEVELS:** Land-surface elevation above mean sea level .... ..... ft.

Static level ..... ft. below top of well Date .....
Artesian pressure ..... lbs. per square inch Date .....
Artesian water is controlled by ..... (Cap, valve, etc.)

**(9) WELL TESTS:** Drawdown is amount water level is lowered below static level

Was a pump test made? Yes ☒ No ☐ If yes, by whom? .....
Yield: gal./min. with ft. drawdown after 8 hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

| Time | Water Level | Time | Water Level | Time | Water Level |
|---|---|---|---|---|---|
| | | | | | |

Date of test .....
Bailer test ..... gal./min. with ..... ft. drawdown after ..... hrs.
Artesian flow ..... g.p.m. Date .....
Temperature of water ..... Was a chemical analysis made? Yes ☐ No ☒

RECEIVED JAN - 3 1983 DEPARTMENT OF ECOLOGY CENTRAL REGION

**(10) WELL LOG:**

Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

| MATERIAL | FROM | TO |
|---|---|---|
| Clay & Boulders | 0 | 14 |
| Greenish Clay | 14 | 20 |
| Green - Brown Rock | 20 | 24 |
| Rock Some clay Hardpan 50% | 24 | 96 |
| Cap Rock | 96 | 100 |
| Black Basalt | 101 | 130 |
| Shale like Rock | 130 | 145 |
| Basalt | 145 | 160 |
| Flow Sandstone | 160 | 178 |
| Decomposed Sdst - Some water | 178 | 182 |
| Gravel | 182 | 190 |
| Sd Black Basalt | 190 | 195 |
| Broken Basalt | 195 | 240 |
| Black Basalt | 240 | 255 |
| Fractured | 255 | 290 |
| Black Basalt | 290 | 300 |
| Broken " | 300 | 310 |
| Black " | 310 | 330 |
| " " Very Hard | 330 | 355 |
| Water - 12 gpm at at 356 | | |
| Broke - Gravel Bottom at 355 | | |
| Drill Beds at 175 - 250 - Caving | In Hole | |
| Set 8" Casing thru Drill Beds to | 257 | FT |
| Very Hard Basalt | 355 | 400 |
| At 400 ft. Est 40 gpm water | | |
| Basalt Hard | 400 | 480 |
| Now getting about 45 gpm | | |
| After 2 Days | | |
| Any Bailer is that Test Pump Stopped | | |
| at Slow obstruction at about 400 ft | | |
| I believe that well was Pumped at Approx | 60 gpm | |
| about the 400 ft level | | |
| Pump Set Mid on July 1974 | | |
| Pump Cap 5 gpm | | |

Work started Oct 1, 19 73. Completed Aug, 19 74

**WELL DRILLER'S STATEMENT:**

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME H.C. Moyer Drilling (Person, firm, or corporation) (Type or print)

Address 1424 Lake Washington Blvd NE Kirkland Wash 98033

[Signed] H.C. Moyer (Well Driller)

License No. 1308 Date Dec 18, 1982

Log has been previously submitted to Department 1974

(USE ADDITIONAL SHEETS IF NECESSARY)

S. F. No. 7356—OS—(Rev. 4-71).

WR Claim 130421

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

# WATER WELL REPORT
## STATE OF WASHINGTON

Application No. .....
Permit No. .....

**(1) OWNER:** Name (b) (6) Address (b) (6) THORP, WA. 98946

**(2) LOCATION OF WELL:** County KITTITAS, WA. (b) (6)

Bearing and distance from section or subdivision corner 300'E 400'N FROM EKEM SEC. 27

**(3) PROPOSED USE:** Domestic [X] Industrial [ ] Municipal [ ] Irrigation [X] Test Well [ ] Other [X]

**(4) TYPE OF WORK:** Owner's number of well (if more than one) 1
New well [X] Method: Dug [ ] Bored [ ]
Deepened [ ] Cable [ ] Driven [ ]
Reconditioned [ ] Rotary [X] Jetted [ ]

**(5) DIMENSIONS:** Diameter of well 6 inches.
Drilled 341 ft. Depth of completed well 341 ft.

**(6) CONSTRUCTION DETAILS:**

Casing installed: 6 " Diam. from +1 ft. to 213 ft.
Threaded [ ] 8 " Diam. from +1 ft. to 20 ft.
Welded [X] " Diam. from ft. to ft.

Perforations: Yes [ ] No [X]
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes [ ] No [X]
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes [ ] No [X] Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes [X] No [ ] To what depth? 200 ft.
Material used in seal BENTONITE & CEMENT
Did any strata contain unusable water? Yes [ ] No [X]
Type of water? Depth of strata
Method of sealing strata off

**(7) PUMP:** Manufacturer's Name
Type: H.P.

**(8) WATER LEVELS:** Land-surface elevation above mean sea level .... ft.
Static level 139 ft. below top of well Date 3/5/74
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

**(9) WELL TESTS:** Drawdown is amount water level is lowered below static level
Was a pump test made? Yes [ ] No [ ] If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

| Time | Water Level | Time | Water Level | Time | Water Level |
|---|---|---|---|---|---|
| | | | | | |

Date of test
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes [ ] No [ ]

**(10) WELL LOG:**

Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

| MATERIAL | FROM | TO |
|---|---|---|
| TOP SOIL | 0 | 1 |
| LGE BOULDERS & CLAY | 1 | ~~18~~ 46 |
| CLAY, GRAVEL & BOULDERS | 46 | 79 |
| SANDSTONE & BOULDERS | 79 | 88 |
| GRAVEL & BOULDERS | 88 | 93 |
| SANDSTONE | 93 | 97 |
| SAND, GRAVEL, BOULDERS | 97 | 138 |
| CEMENT GRAVEL | 138 | 147 |
| BR. CLAY | 147 | 156 |
| GRAVEL & BOULDERS | 156 | 188 |
| SANDSTONE (TR. WATER) | 188 | 197 |
| GRANITIC RED & BLUE BLDRS. | 197 | 211 |
| BROKEN BASALT | 212 | 215 |
| GRAY BASALT | 215 | 242 |
| CREVACED BASALT & BROKEN | 242 | 323 |
| DECOMPOSED ROCK SOME WATER | 323 | 329 |
| BADLY BROKEN BASALT MORE WATER | 329 | 341 |

RECEIVED [redacted] 26 1981 DEPARTMENT CENTRAL REGION

Well prod. 18 G.P.M.+ @ 341'

Work started 2/22/74, 19.. Completed 3/5/74, 19..

**WELL DRILLER'S STATEMENT:**

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME RIEBE WELL DRILLING (Person, firm, or corporation) (Type or print)
Address YAKIMA, WASH.
[Signed] John C. Riebe (D.B.BRITTON) (Well Driller)
License No. 421 Date 3/10/74, 19..

(USE ADDITIONAL SHEETS IF NECESSARY)

B 3/5/81

ECY 050-1-20 130421 2/26/75

3

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

# WATER WELL REPORT
## STATE OF WASHINGTON

Application No. .....
Permit No. .....

**(1) OWNER:** Name (b) (6) (b) (6) Ellensberg, Wa.

**LOCATION OF WELL:** County Kittitas – (b) (6)

Bearing and distance from section or subdivision corner

**(3) PROPOSED USE:** Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

**(4) TYPE OF WORK:** Owner's number of well (if more than one)....

New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☒ Jetted ☐

**(5) DIMENSIONS:** Diameter of well 6 inches.
Drilled 84 ft. Depth of completed well 84 ft.

**(6) CONSTRUCTION DETAILS:**

**Casing installed:** 6 " Diam. from 0 ft. to 36 ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☒ " Diam. from ft. to ft.

**Perforations:** Yes ☐ No ☒
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

**Screens:** Yes ☐ No ☒
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

**Gravel packed:** Yes ☐ No ☒ Size of gravel:
Gravel placed from ft. to ft.

**Surface seal:** Yes ☒ No ☐ To what depth? 18 ft.
Material used in seal bentonite clay
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? Depth of strata
Method of sealing strata off

**(7) PUMP:** Manufacturer's Name
Type: H.P.

**(8) WATER LEVELS:** Land-surface elevation above mean sea level.... ft.
Static level 30 ft. below top of well Date 10-24-77
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

**(9) WELL TESTS:** Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☒ If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

| Time | Water Level | Time | Water Level | Time | Water Level |
|---|---|---|---|---|---|
| | | | | | |

Date of test
Bailer test 30 gal./min. with 48 ft. drawdown after 1 hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes ☐ No ☒

**(10) WELL LOG:**

Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

| MATERIAL | FROM | TO |
|---|---|---|
| Soil, Brn. | 0 | 3 |
| Gravel, Cemented | 3 | 30 |
| Basalt, Blk. | 30 | 43 |
| Basalt, Brn., Blk. Fractured WB | 43 | 84 |

RECEIVED
DEC 9 - 1977
DEPARTMENT OF ECOLOGY
CENTRAL REGIONAL OFFICE

Work started 10-24-77, 19.... Completed 10-24-77 19....

**WELL DRILLER'S STATEMENT:**

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME B & B Well Drilling (Person, firm, or corporation) (Type or print)

Address Rt 7 Box 600-A, Yakima, Wa. 98903

[Signed] Ken Blackman (Well Driller)

License No. 790 Date 11-1-77, 19....

(USE ADDITIONAL SHEETS IF NECESSARY) OK

ECY 050-1-20

3

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

# WATER WELL REPORT
## STATE OF WASHINGTON

Application No. 1
Permit No. ....

**(1) OWNER:** Name (b) (6) Address (b) (6), Ellensberg, Wa.

**LOCATION OF WELL:** County Kittitas (b) (6)

Bearing and distance from section or subdivision corner

**(3) PROPOSED USE:** Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

**(4) TYPE OF WORK:** Owner's number of well (if more than one)....
New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☒ Jetted ☐

**(5) DIMENSIONS:** Diameter of well 6 inches.
Drilled 142 ft. Depth of completed well 142 ft.

**(6) CONSTRUCTION DETAILS:**

**Casing installed:** 6 " Diam. from 0 ft. to 82 ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☒ " Diam. from ft. to ft.

**Perforations:** Yes ☐ No ☒
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

**Screens:** Yes ☐ No ☒
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

**Gravel packed:** Yes ☐ No ☒ Size of gravel:
Gravel placed from ft. to ft.

**Surface seal:** Yes ☒ No ☐ To what depth? 20 ft.
Material used in seal bentonite clay
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? Depth of strata
Method of sealing strata off

**(7) PUMP:** Manufacturer's Name
Type: H.P.

**(8) WATER LEVELS:** Land-surface elevation above mean sea level.... ft.
Static level Flowing ft. below top of well Date Sept 7, 75
Artesian pressure 6 lbs. per square inch Date 9-7-75
Artesian water is controlled by Cap (Cap, valve, etc.)

**(9) WELL TESTS:** Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☒ If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

| Time | Water Level | Time | Water Level | Time | Water Level |
|---|---|---|---|---|---|
| | | | | | |

Date of test
Bailer test 60 gal./min. with 122 ft. drawdown after 1 hrs.
Artesian flow 10 g.p.m. Date 9-7-77
Temperature of water Was a chemical analysis made? Yes ☐ No ☒

**(10) WELL LOG:**

Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

| MATERIAL | FROM | TO |
|---|---|---|
| Soil, Brn. | 0 | 2 |
| Gravel, Coarse, Clay, Brn. | 2 | 28 |
| Clay, Brn. | 28 | 38 |
| Clay, Brn, Gravel, Med. | 38 | 50 |
| Clay, Grey, Gravel | 50 | 76 |
| Conglomerate | 76 | 130 |
| Basalt, Blk., FracturedWB | 130 | 142 |

RECEIVED
DEC 9 - 1977
DEPARTMENT OF ECOLOGY
CENTRAL REGIONAL OFFICE

Work started 9-6-75, 19.... Completed 9-7-75, 19....

**WELL DRILLER'S STATEMENT:**

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME B & B Well Drilling (Person, firm, or corporation) (Type or print)

Address Rt. 7 Box 600-A, Yakima, Wa. 98903

[Signed] Harvey Blackman (Well Driller)

License No. 0037 Date 10-4-75, 19....

(USE ADDITIONAL SHEETS IF NECESSARY) CR

ECY 050-1-20

925-924

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

# WATER WELL REPORT
## STATE OF WASHINGTON

Application No. .....
Permit No. .....

**(1) OWNER:** Name Porky Park Farms Address Thorpe, Wa

**(2) LOCATION OF WELL:** County KITTATAS — NE ¼ NE ¼ Sec. 33 T. 19 N., R. 17 E W.M. A

Bearing and distance from section or subdivision corner

**(3) PROPOSED USE:** Domestic ☐ Industrial ☑ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

**(4) TYPE OF WORK:** Owner's number of well (if more than one) ....
New well ☑ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☑ Jetted ☐

**(5) DIMENSIONS:** Diameter of well 8 inches.
Drilled 306 ft. Depth of completed well 306 ft.

**(6) CONSTRUCTION DETAILS:**

**Casing installed:** 10" Diam. from 0 ft. to 28 ft.
Threaded ☐ 8" Diam. from 0 ft. to 141 ft.
Welded ☑ " Diam. from ft. to ft.

**Perforations:** Yes ☐ No ☑
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

**Screens:** Yes ☐ No ☑
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

**Gravel packed:** Yes ☐ No ☑ Size of gravel:
Gravel placed from ft. to ft.

**Surface seal:** Yes ☑ No ☐ To what depth? 120 ft.
Material used in seal Bentonite Grout
Did any strata contain unusable water? Yes ☐ No ☑
Type of water? Depth of strata
Method of sealing strata off

**(7) PUMP:** Manufacturer's Name
Type: H.P.

**(8) WATER LEVELS:** Land-surface elevation above mean sea level .... ft.
Static level Flows ft. below top of well Date
Artesian pressure lbs. per square inch Date 7-12-79
Artesian water is controlled by Cap (Cap, valve, etc.)

**(9) WELL TESTS:** Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

| Time | Water Level | Time | Water Level | Time | Water Level |
|---|---|---|---|---|---|
| | | | | | |

Date of test
Bailer test 130 gal./min. with ft. drawdown after 2 hrs.
Artesian flow ½ g.p.m. Date 7-12-79
Temperature of water Was a chemical analysis made? Yes ☐ No ☑

**(10) WELL LOG:**

Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

| MATERIAL | FROM | TO |
|---|---|---|
| Top soil | 0 | 5 |
| gravel & boulders | 5 | 27 |
| cemented gravel | 27 | 35 |
| cemented gravel & brown clay | 35 | 55 |
| sandstone, gravel & boulders | 55 | 130 |
| broken basalt | 130 | 190 |
| broken rock & green clay | 190 | 220 |
| gray basalt | 220 | 225 |
| broken black basalt | 225 | 260 |
| broken rock & blue shale | 260 | 270 |
| broken basalt | 270 | 306 |
| | 306 | |

surface water 55-130
cased out, more water
245-220, 245-250, 80 gal
280-305 130 gal +

Work started 7-5, 1979 Completed 7-12, 1979

**WELL DRILLER'S STATEMENT:**

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Eastwood Drilling Inc (Person, firm, or corporation) (Type or print)

Address 2202 River Rd Yakima, WA.

[Signed] Jerry Leyton (Well Driller)

License No. 0495 Date 7-13, 1979

(USE ADDITIONAL SHEETS IF NECESSARY) ✓ rec 7-79

ECY 050-1-20

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

# WATER WELL REPORT
## STATE OF WASHINGTON

Application No. .....
Permit No. .....

**(1) OWNER:** Name (b) (6) Address (b) (6) Cowiche

**(2) LOCATION OF WELL:** County Yakima (b) (6)
Bearing and distance from section or subdivision corner

**(3) PROPOSED USE:** Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

**(4) TYPE OF WORK:** Owner's number of well (if more than one) ....
New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☒ Jetted ☐

**(5) DIMENSIONS:** Diameter of well 6 inches.
Drilled 71 ft. Depth of completed well 67 ft.

**(6) CONSTRUCTION DETAILS:**

**Casing installed:** 6" Diam. from 0 ft. to 48 ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☒ " Diam. from ft. to ft.

**Perforations:** Yes ☐ No ☒
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

**Screens:** Yes ☐ No ☒
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

**Gravel packed:** Yes ☐ No ☒ Size of gravel:
Gravel placed from ft. to ft.

**Surface seal:** Yes ☒ No ☐ To what depth? 40 ft.
Material used in seal Cement + Bentonite
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? Depth of strata
Method of sealing strata off

**(7) PUMP:** Manufacturer's Name
Type: H.P.

**(8) WATER LEVELS:** Land-surface elevation above mean sea level .... ft.
Static level -1 ft. below top of well Date Sept 14 81
Artesian pressure 3 lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

**(9) WELL TESTS:** Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☒ No ☐ If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" with air " 40 GPM from 67 "
" " 20 " " 17 "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

| Time | Water Level | Time | Water Level | Time | Water Level |
|---|---|---|---|---|---|
| | | | | | |

Date of test
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes ☐ No ☒

**(10) WELL LOG:** D

Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

| MATERIAL | FROM | TO |
|---|---|---|
| Topsoil | 0 | 10 |
| Cement gravel | 10 | 38 |
| Basalt, layers | 38 | 49 |
| Rock, Broken | 49 | 67 |

OCT 15 1981

Work started Sept 14, 19 81 Completed Sept 14, 19 81

**WELL DRILLER'S STATEMENT:**

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Eastwood Drilling Inc. (Person, firm, or corporation) (Type or print)
Address 2202 River Rd - Yakima
[Signed] Clyde A Eastwood (Well Driller)
License No. 0113 Date Sept 14, 1981

(USE ADDITIONAL SHEETS IF NECESSARY) EP 10-16-81

ECY 050-1-20

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

# WATER WELL REPORT

STATE OF WASHINGTON

Application No. ...

Permit No. ...

(1) OWNER: Name (b) (6) [redacted] Address (b) (6) [redacted] Ellensburg, Wa. (b) (6) [redacted] 98942

(2) LOCATION OF WELL: County KITTITAS — (b) (6) [redacted]

Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic ☑ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one) ....
New well ☐ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☑ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 67 ft. Depth of completed well 64 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6" Diam. from +3 ft. to 60 ft.
Threaded ☐ ..." Diam. from ... ft. to ... ft.
Welded ☑ ..." Diam. from ... ft. to ... ft.

Perforations: Yes ☐ No ☑
Type of perforator used ...
SIZE of perforations ... in. by ... in.
... perforations from ... ft. to ... ft.
... perforations from ... ft. to ... ft.
... perforations from ... ft. to ... ft.

Screens: Yes ☐ No ☑
Manufacturer's Name ...
Type ... Model No. ...
Diam. ... Slot size ... from ... ft. to ... ft.
Diam. ... Slot size ... from ... ft. to ... ft.

Gravel packed: Yes ☐ No ☑ Size of gravel: ...
Gravel placed from ... ft. to ... ft.

Surface seal: Yes ☑ No ☐ To what depth? 40 ft.
Material used in seal BENTONITE
Did any strata contain unusable water? Yes ☐ No ☑
Type of water? ... Depth of strata ...
Method of sealing strata off ...

(7) PUMP: Manufacturer's Name ...
Type: ... H.P. ...

(8) WATER LEVELS: Land-surface elevation above mean sea level .... ft.
Static level 12 ft. below top of well Date 8-17-78
Artesian pressure ... lbs. per square inch Date ...
Artesian water is controlled by ... (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☑ If yes, by whom? ...
Yield: gal./min. with ft. drawdown after hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

| Time | Water Level | Time | Water Level | Time | Water Level |
|---|---|---|---|---|---|
| | | | | | |

Date of test ...
Bailer test 50 gal./min. with ~~AIR~~ TOTAL ft. drawdown after 1 hrs.
Artesian flow ... g.p.m. Date ...
Temperature of water ... Was a chemical analysis made? Yes ☐ No ☑

(10) WELL LOG:

Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

| MATERIAL | FROM | TO |
|---|---|---|
| SAND + CLAY BROWN | 0 | 3 |
| SAND + GRAVEL | 3 | 37 |
| CLAY BROWN W/ SAND | 37 | 52 |
| GRAVEL W/ CLAY BROWN + SAND | 52 | 57 |
| CLAY BROWN W/ SAND | 57 | 60 |
| GRAVEL + SAND | 60 | 64 |

RECEIVED
NOV 16 1978
DEPARTMENT OF ECOLOGY
CENTRAL REGIONAL OFFICE

Work started 8/17, 1978. Completed 8-17-78 19...

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME B + B WELL Drilling (Person, firm, or corporation) (Type or print)

Address RT 7 BOX 600-A YAKIMA WA.

[Signed] Michael E. Alexander (Well Driller)

License No. 0003 Date 8/17, 1978

OK vmc 11-78

(USE ADDITIONAL SHEETS IF NECESSARY)

ECY 050-1-20

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

# WATER WELL REPORT
STATE OF WASHINGTON

Application No. .....
Permit No. .....

**(1) OWNER:** Name (b) (6) [redacted] Address (b) (6) [redacted] ELLENSBURG, WN.

**(2) LOCATION OF WELL:** County KITTITAS (b) (6) [redacted]
ng and distance from section or subdivision corner

**(3) PROPOSED USE:** Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

**(4) TYPE OF WORK:** Owner's number of well (if more than one) ....
New well ☑ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☑ Driven ☐
Reconditioned ☐ Rotary ☐ Jetted ☐

**(5) DIMENSIONS:** Diameter of well 6 inches.
Drilled 60 ft. Depth of completed well 62 ft.

**(6) CONSTRUCTION DETAILS:**

**Casing installed:** 6 " Diam. from 0 ft. to 50 ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☒ " Diam. from ft. to ft.

**Perforations:** Yes ☐ No ☒
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

**Screens:** Yes ☐ No ☒
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

**Gravel packed:** Yes ☐ No ☒ Size of gravel:
Gravel placed from ft. to ft.

**Surface seal:** Yes ☒ No ☐ To what depth? 20 ft.
Material used in seal BENTONITE
Did any strata contain unusable water? Yes ☒ No ☐
Type of water? SURFACE Depth of strata 2-17'
Method of sealing strata off CLAY STRATA

**(7) PUMP:** Manufacturer's Name
Type: H.P.

**(8) WATER LEVELS:** Land-surface elevation above mean sea level .... ft.
Static level 10 ft. below top of well Date 6-8-78
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

**(9) WELL TESTS:** Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☒ If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

| Time | Water Level | Time | Water Level | Time | Water Level |
|---|---|---|---|---|---|
| | | | | | |

Date of test
Bailer test 15+ gal./min. with 0 ft. drawdown after hrs.
Artesian flow g.p.m. Date 6-8-78
Temperature of water Was a chemical analysis made? Yes ☐ No ☒

**(10) WELL LOG:**

Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

| MATERIAL | FROM | TO |
|---|---|---|
| TOP SOIL | 0' | 2' |
| ROCK & GRAVEL | 2' | 17' |
| BLUE CLAY | 17' | 24' |
| SAND, GRAVEL, & COBBLES | 24' | 50' |
| SANDSTONE | 50' | 60' |

Work started 6-5-, 19 78 Completed 6-8-, 19 78

**WELL DRILLER'S STATEMENT:**

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME W.T. DIKEMAN (Person, firm, or corporation) (Type or print)
Address RT. 4 BOX 241 ELLENSBURG
[Signed] Wm. T. Dikeman (Well Driller)
License No. 0706 Date 6-10-, 19 78

(USE ADDITIONAL SHEETS IF NECESSARY)

✓ vmc 2-79

ECY 050-1-20

ATTACHMENT B

RCRA Section 3012 Preliminary Assessment Program
Land Use and Demography

Prepared for JRB Associates by Shapiro and Associates

Site Name KITT. CO. - HORLICK LANDFILL County T19N, R17E, SEC 30 NE ¼ ON HORLICK ROAD

Sources
1. USGS TOPO - THORP, 1978 & CLE ELUM
2. BOTTORFF, USFWS, 1984
3. USFWS, 1980
4. METSKER'S KITTITAS COUNTY MAP, 1979
5. KITTITAS CO. PUBLIC HEALTH - DAVE, PER. COMM. 7/24/85
6.
7.

Distance/direction to a 5-acre (minimum) coastal wetland, if 2 miles or less

NONE

Source 1

Distance/direction to a 5-acre (minimum) freshwater wetland, if 1 mile or less

0.4 MILE N TO PALUSTRINE - SWAMP ALONG YAKIMA RIVER

Source 1

Distance/direction to a critical habitat of an endangered species, if 1 mile or less

NONE

Source 2

Distance/direction to a National Wildlife Refuge, if 1 mile or less

NONE

Source 3

Resident and/or transient population within 1 mile of site

LESS THAN 10

Source 1 & 5

Public or private facilities of particular concern (e.g., parks, schools) if within 1 mile or less OTHER - I-90

Source 1, 4 & 5

Municipal sanitary sewer system and or storm sewers serving the facility?

NONE

Source 5

Ultimate discharge point(s) of above sewer systems

—

Source 5

100-year flood potential at site

NONE

Source 5

RELEASE OF CONTAMINANTS VIA AIR ROUTE
(Complete only if directed by JRB)

Population within various radii of site:

1/4 mile _____ 1 mile _____

1/2 mile _____ 4 miles _____

Source _____

Distance/direction to a commercial/industrial area, if 1 mile or less

Source _____

Distance/direction to a national or state park, forest or wildlife refuge if 2 miles or less

Source _____

Distance/direction to a residential area if 2 miles or less

Source _____

Distance/direction to agricultural land in production within past five years, if 1 mile or less

Source _____

Distance/direction to prime agricultural land in production within past five years, if 2 miles or less

Source _____

Distance/direction of a historic or landmark site (National Register of Historic Places and National Natural Landmarks) if within 1 mile or less

Source _____

**KITTITAS COUNTY HEALTH DEPARTMENT**

507 Nanum Street Ellensburg, Washington /98926 Tel. 925-1465

July 19, 1973

We, in Kittitas County, are about to reach the activation phase of our solid waste management program.

We have now agreed upon a date on which we will begin to use the Horlick Landfill. That date is September 15, 1973.

On June 1, 1973 Ordinance #73-5 became effective in Kittitas County. It is, in fact, an adoption of the minimum Functional Standards for Solid Waste, originated by the Department of Ecology.

As you know, the solid waste management plan for Kittitas County involves only one conforming solid waste disposal site. Thus, as of Sept. 15th, all solid waste generated in this county and its cities must be transported to, and placed in the Horlick Sanitary landfill.

As provided in the adopted plan, you will have until 1974 to effect return of your present dump to ecological acceptable condition.

We will issue a non-conforming permit which will allow you to continue use of your present facilities until Sept. 15, 1973. We require from you, a letter of application for this non-conforming permit and a schedule for bringing your disposal site into conformance (section 12.01 of the enclosed ordinance). We must have this information in this office no later than August 6, 1973.

If you have further questions, please feel free to contact this office.

Very truly yours,

Andrew E. Bishop

Andrew E. Bishop, R.S.,M.P.H.
Director of Environmental Health

AEB/mb
cc: Co. Engineers

BOARD OF HEALTH
*Carl Ooka — Roy Lumaco — Joe McManamy*
*Marion Darter, Secretary*

HEALTH OFFICER
*Paul W. Anderson, M.D., M.P.H.*