DEPARTMENT OF ECOLOGY
State of Washington

# Application for a State Waste Discharge Permit to Discharge Industrial Wastewater to Ground Water by Land Treatment or Application

This application is for a state waste discharge permit as required by Chapter 90.48 RCW and Chapter 173-216 WAC. Permit applications provide Ecology with information on pollutants in the waste stream, materials that may enter the waste stream, the flow characteristics of the discharge, and the site characteristics at the point of discharge.

Ecology may request additional information to clarify the conditions of this discharge. The applicant should reference information previously submitted to Ecology that applies to this application in the appropriate section.

## SECTION A. GENERAL INFORMATION

1. Applicant name: Tree Top, Inc.-Selah Operations

2. Facility name: Wastewater Treatment Facilities
(if different from applicant)

3. Applicant mail address: 220 E SECOND AVE / PO BOX 248
Street

SELAH, WA — 98942-0248
City/State — Zip

4. Facility location address: 1500 HARRISON ROAD
(if different from above)
Street

SELAH, WA — 98942
City/State — Zip

5. UBI No. 3920009
56

6. Latitude/longitude of the processing facility as decimal degrees (NAD83/WGS84):
46.6519453 / 120.527521

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DEPARTMENT OF ECOLOGY - Central Regional Office

| FOR ECOLOGY USE ONLY | Check One | New/Renewal ☐ | Modification ☐ |
|---|---|---|---|
| Date application received | | Application/Permit no. | |
| Date application accepted | | Date fee paid | |

7. Person to contact who is familiar with the information contained in this application:

| Glen Sagdal | Northern Plants Wastewater Manager |
|---|---|
| Name | Title |
| 509-449-3054 | 509-698-1526 |
| Telephone number | Fax number |

8. Check One:

☒ **Permit renewal** (including renewal of temporary permits authorized by RCW 90.48.200)

Does this application request a greater amount of wastewater discharge, a greater amount of pollutant discharge, or a discharge of different pollutants than specified in the last permit application for this facility? ☐ YES ☒ NO

For permit renewals, the current permit is an attachment, by reference, to this application.

☐ **Permit modification** ☐ **Existing unpermitted discharge** ☐ **Proposed discharge**

**Anticipated date of discharge:** _____

*I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and/or imprisonment for knowing violations.*

| Signature* | 1/26/12 | Vice President of Operations |
|---|---|---|
| | Date | Title |

Gary Price
Printed name

*Applications must be signed as follows: Corporations, by a principal executive officer of at least the level of vice-president; partnership, by a general partner; sole proprietorship, by the proprietor. If these titles do not apply to your organization, the person who makes budget decisions for this facility must sign the application.

The application signatory may delegate signature authority for submittals required by the permit, such as monthly reports, to a suitable employee. You can delegate this authority to a qualified individual or to a position, which you expect to fill with a qualified individual. If you wish to delegate signature authority, please complete the following:

| Signature of delegated employee | Date | Title or function at the facility |
|---|---|---|

Printed name

## SECTION B. PRODUCT INFORMATION

1. Briefly describe all manufacturing processes and products, and/or commercial activities at this facility. Provide the applicable Standard Industrial Category (SIC) and the North American Industry Classification System (NAICS) Code(s) for each activity (see *North American Industrial Classification System,* 2007 ed.). You can find the 1997 NAICS codes and the corresponding 1987 Standard Industry Category (SIC) codes at (http://www.census.gov/epcd/naics/frames3.htm).

Description: Fruit, primarily apples and pears, is processed into a variety of juices, applesauce, dehydrated fruit, and fresh-packed slices. SIC codes: 2033, 2034, 2037, 2086. NAICS codes: 311421, 311423, 311411, 312111.



2. List raw materials and products:

| Type | RAW MATERIALS | Quantity |
|---|---|---|
| *Potatoes (Example)* | | *20 million tons per year* |
| Apples, pears, concentrated juices, sweeteners, vitamin C, flavorings | | Quantities are highly variable. Typical raw fruit quantities are ~100,000-200,000 tons/year |
| | | |
| | | |
| | | |
| | | |

| Type | PRODUCTS | Quantity |
|---|---|---|
| *French fries (Example)* | | *10 million pounds per year* |
| Single-strength fruit juices, concentrated juices, | | ~$300,000,000 annual sales (entire company) |
| applesauce, non-fruit beverages, dehydrated fruit | | |
| products, fresh apple slices | | |
| | | |
| | | |
| | | |

## SECTION C. PLANT OPERATIONAL CHARACTERISTICS

1. For each process listed in B.1that generates wastewater, list the process, assign the waste stream a name and ID #, and describe whether it is a batch or continuous flow.

| Process | Waste Stream Name | Waste Stream ID# | Batch (B) or Continuous (C) Process |
|---|---|---|---|
| *Receiving raw potatoes (Example)* | *Mud Water* | *1* | *C* |
| Fruit processing | Process wastewater | 1 | C |
| Precipitation; snowmelt | Storm water runoff | 2 | B |
| Cooling | Non-contact cooling water | 3 | C |
| | | | |
| | | | |
| | | | |

2. On a separate sheet, produce a schematic drawing showing production processes and water flow through the facility and wastewater treatment devices *(label as attachment C2).* The drawing should indicate the source of intake water and the operations contributing wastewater to the effluent and should label the treatment units. Construct the water balance by showing average flows between intakes, operations, treatment units, and points of discharge to land. If a water balance cannot be determined *(e.g., for certain mining activities)*, provide a description of the nature and amount of any sources of water and any collection or treatment measures.

3. What is the highest daily discharge flow from the processing facility:
( Specify the time period for the value given)

966,000 gallons per day
(11/03/2008)

What is the highest daily discharge flow to the sprayfields/infiltration basin:
(Specify the time period for the value given)

inches/acre/month OR
2.376 million gallons per day
(10/04/2006)

What is the highest average monthly discharge flow (daily flows averaged over a month) from the processing facility:
(Specify the time period for the value given)

738,000 gallons/day?
(November, 2008)

What is the highest average monthly discharge flow to the sprayfields:
(Specify the time period for the value given)

inches/acre/month OR
1.472 Million gallons per day
(October, 2006)

4. Describe any planned wastewater treatment or sprayfield/infiltration improvements and the schedule for the improvements or changes. *(Use additional sheets, if necessary and label as attachment C4.)*

See attached C.4.

5. If production processes are subject to seasonal variations, provide the following information. List discharge for each waste stream in gallons or million gallons per month. The combined value for each month should equal the estimated total monthly flow. Please indicate the proper unit by checking one of the following boxes:

☐ gallons per day ☐ gallons per month ☒ million gallons per month

| Waste Stream ID# | MONTHS | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | J | F | M | A | M | J | J | A | S | O | N | D |
| | | | | | | | | | | | | |
| Selah Plant | 11.91 | 12.68 | 14.34 | 14.68 | 14.07 | 11.60 | 11.66 | 7.25 | 13.71 | 15.89 | 13.80 | 12.10 |
| Ross/Fresh Plants | 2.94 | 2.00 | 2.34 | 2.29 | 2.09 | 2.03 | 1.92 | 1.80 | 2.31 | 3.05 | 2.73 | 2.43 |
| Non-contact & cooling | 0.58 | 0.63 | 0.41 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.61 | 0.48 |
| Stormwater | 0.57 | 0.39 | 0.34 | 0.26 | 0.25 | 0.30 | 0.11 | 0.18 | 0.18 | 0..26 | 0.51 | 0.67 |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| **Estimated total gallons** | 16.00 | 15.70 | 17.43 | 17.23 | 16.41 | 13.93 | 13.69 | 9.23 | 16.20 | 19.20 | 17.65 | 15.68 |

6. If this is a discharge from the processing facility to a storage or evaporative lagoon, what is the size of the lagoon (give square footage for the bottom of the lagoon and the total volume of the lagoon at full operating depth).

   93,534 square feet; 56,990,000 million gallons

7. Check the applicable box. Is this is a discharge to a sprayfield ☒ or an infiltration bed ☐? Provide the average gallons per acre per day proposed for each month in the following table.

| | Jan | Feb | Mar | Apr | May | June | July | Aug | Sept. | Oct | Nov | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Estimated gallons per acre per day** | 0 | 0 | 1211 | 5005 | 7524 | 8123 | 10313 | 8238 | 5538 | 1826 | 0 | 0 |

8. How many hours a day do… …vater facilities: 24
   How many days a week d… …water facilities: 7
   How many weeks per ye… …ewater facilities: 52

9. List all incidental mater… …s that are used or stored on site (list only those with qu… …ound quantities for solids). For solvents and solvent-b… …data sheet for each material and estimate the quant… *…abel as attachment C.7.)*

*See attachment C.7.*

TREE TOP Feb 21, 2012
SELAH Application
Please replace page 5 with this Revised sheet. Submitted by Glen Sagdal.
Thanks
Needs DATE Stamp
Jim L.

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Materials/Quantity Stored: See attached C.7.1

| 10. | Some types of facilities are required to have spill or waste control plans. Does this facility have: | Yes | No |
|---|---|---|---|
| a. | A spill prevention, control, and countermeasure plan (40 CFR 112)? | ☐ | ☒ |
| b. | An Oil Spill Contingency Plan (chapter 173-182 WAC)? | ☐ | ☒ |
| c. | An emergency response plan (per WAC 173-303-350)? | ☐ | ☒ |
| d. | A runoff, spillage, or leak control plan (per WAC 173-216-110(f))? | ☐ | ☒ |
| e. | Any spill or pollution prevention plan required by local, state or federal authorities? If yes specify: Spill control plan required by discharge permit | ☒ | ☐ |
| f. | A solid waste control plan? | ☒ | ☐ |

## SECTION D. WATER CONSUMPTION AND WATER LOSS

1. Potable water source(s):

☒ Public system (Specify name) _____

☐ Private well ☐ Surface water (Specify name of water body) _____

a. Water right permit number: City of Selah

b. Legal description of water source:

_____ ¼S, _____ ¼S, _____, Section, _____ TWN, _____ R

2. Potable water use

a. Indicate total water use: Gallons per day (average) _____

Gallons per day (maximum) Unknown- read meters monthly

b. Is water metered? ☒ YES ☐ NO

3. Supplemental Irrigation water source(s):

☒ Public system or Irrigation District (Specify name) Taylor Ditch Company, Inc

☐ Private well ☐ Surface water (Specify name of water body) _____

a. Water right permit number: See attachment C.7.2

b. Legal description of water source:

_____ ¼S, NE ¼S, 19 , Section, 14N TWN, 19E R

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## SECTION E. WASTEWATER INFORMATION

1. How are the water intake and effluent flows measured?

   Intake: Raw wastewater is metered at the Selah Plant and the Ross Plant with magnetic flow meters

   Effluent Treated wastewater is metered with a magnetic flow meter as it is pumped to the sprayfield for irrigation

2. Describe the collection method for the samples analyzed below. (*i.e.*, grab, 24-hour composite). Applicants must collect grab samples (not composites) for analysis of pH, temperature, cyanide, total phenols, residual chlorine, oil and grease, fecal coliform (including E. coli), and Enterococci (previously known as fecal streptococcus at § 122.26 (d)(2)(iii)(A)(3)),or volatile organics.

   Grab samples, 24 hour composites

3. Has the effluent been analyzed for any other parameters than those identified in question E.4.? ☐ YES ☒ NO
   If yes, attach results and label as attachment E.4. This data must clearly show the date, method and location of sampling. *(Note: Ecology may require additional testing.)*

4. Provide measurements or range of measurements for treated wastewater prior to discharge to the POTW for the parameters with an "X" in the left column. If you obtain the application from the internet, contact Ecology's regional office to see if testing for a subset of these parameters is permissible. All analyses (except pH) must be conducted by a laboratory registered or accredited by Ecology (WAC 173-216-125). If this is an application for permit renewal, provide data for the last year for those parameters that are routinely measured. For parameters measured only for this application, place the values under "Maximum." Report the values with units as specified in the parameter name or in the detection level.

   The Permittee must use the specified analytical methods, detection limits (DLs) and quantitation levels (QLs) in the following table unless Ecology approves an alternate method or the method used produces measurable results in the sample and EPA has listed it as an EPA approved method in 40 CFR Part 136. If the Permittee uses an alternative method as allowed above, it must report the test method, DL, and QL on the discharge monitoring report or in the required report.

| X | Parameter | Measurement Values | | | Number of Analyses | Analytical Metho Std. Methods 19th,2 edition or EPA |
|---|---|---|---|---|---|---|
| | | Minimum | Maximum | Average | | |
| | BOD (5 day) | 30 | 980 | 181 | 232 | SM 5210 B |
| | COD | 30 | 3980 | 1725 | 171 | SM 5220 D |
| | Total suspended solids | 60 | 3280 | 1238 | 141 | SM 2540 D |
| | Fixed Dissolved Solids | | | | | SM 2540 E |
| | Total dissolved solids | | | | | SM 2540 C |
| | Conductivity (micromhos/cm) | | | | | SM 2510 B |
| | Ammonia-N as N | 0.07 | 42.0 | 4.94 | 50 | SM 4500-$NH_3$ C |
| | pH | 4.90 | 9.63 | 7.60 | 1066 | SM 4500-H |
| | Fecal coliform (organisms/100 mL) | | | | | SM 9221 E or 9222 |
| | Total coliform (organisms/100 mL) | | | | | SM 9221 B or 9222 |
| | Dissolved oxygen | 0.1 | 19.9 | 2.97 | 1066 | SM 4500-O C/G |
| | Nitrate + nitrite-N as N | 0.10 | 48.70 | 1.38 | 46 | SM 4500-$NO_3$ E |
| | Total kjeldahl N as N | 0.3 | 105 | 50.87 | 49 | SM 4500-$N_{org}$ C/E/I |
| | Ortho-phosphate-P as P | | | | | SM 4500-P E/F |
| | Total-phosphorous-P as P | | | | | SM 4500-P E/P/I |
| | Total Oil & grease | | | | | EPA 1664A |
| | NWTPH - Dx | | | | | Ecology NWTPH D |
| | NWTPH - Gx | | | | | Ecology NWTPH G |
| | Calcium | | | | | EPA 200.7 |
| | Chloride | 5.3 | 174 | 50.1 | 90 | SM 4500-Cl C |
| | Fluoride | | | | | SM 4500-F E |
| | Magnesium | | | | | EPA 200.7 |
| | Potassium | | | | | EPA 200.7 |
| | Sodium | | | | | EPA 200.7 |
| | Sulfate | | | | | SM 4500-$SO_4$ C/D |
| | Alkalinity as $CaCO_3$ | | | | | SM 2320 B |

| X | Parameter | Measurement Values | | | Number of Analyses | Analytical Metho Std. Methods 19th,2 edition or EPA |
|---|---|---|---|---|---|---|
| | | Minimum | Maximum | Average | | |
| | Arsenic(total) | | | | | EPA 200.8 |
| | Barium (total) | | | | | EPA 200.8 |
| | Cadmium (total) | | | | | EPA 200.8 |
| | Chromium (total) | | | | | EPA 200.8 |
| | Copper (total) | | | | | EPA 200.8 |
| | Iron (total) | | | | | EPA 200.7 |
| | Lead (total) | | | | | EPA 200.8 |
| | Manganese (total) | | | | | EPA 200.8 |
| | Mercury (total) pg/L | | | | | EPA 1631E |
| | Molybdenum(total) | | | | | EPA 200.8 |
| | Nickel(total) | | | | | EPA 200.8 |
| | Selenium (total) | | | | | EPA 200.8 |
| | Silver (total) | | | | | EPA 200.8 |
| | Zinc (total) | | | | | EPA 200.8 |

Detection level (DL) or detection limit means the minimum concentration of an analyte (substance) that can be measured and report that the analyte concentration is greater than zero as determined by the procedure given in 40 CFR part 136, Appendix B.

Quantitation Level (QL) also known as Minimum Level of Quantitation (ML) – The lowest level at which the entire analytical syste signal and acceptable calibration point for the analyte. It is equivalent to the concentration of the lowest calibration standard, assum method-specified sample weights, volumes, and cleanup procedures. The QL is calculated by multiplying the MDL by 3.18 and rou number nearest to (1, 2, or 5) x $10^n$, where n is an integer. (64 FR 30417).
ALSO GIVEN AS:
The smallest detectable concentration of analyte greater than the Detection Limit (DL) where the accuracy (precision & bias) achiev intended purpose. (Report of the Federal Advisory Committee on Detection and Quantitation Approaches and Uses in Clean Water the US Environmental Protection Agency December 2007).

5. Does this facility use any of the following chemicals as raw materials in production, produce them as part of the manufacturing process, or are they present in the wastewater? (*The number following the chemical name is the Chemical Abstract Service (CAS) reference number to aid in identifying the compound.*) ☐ YES ☒ NO

If yes, specify how the chemical is used and the quantity used or produced *(Use additional sheets, if necessary and label as attachment E5.)*:

Acrylamide/79-06-1
Acrylonitrile/107-13-1
Aldrin/309-00-2
Aniline/62-53-3
Aramite/140-57-8
Arsenic/7440-38-2
Azobenzene/103-33-3
Benzene/71-43-2
Benzidine/92-87-5
Benzo(a)pyrene/50-32-8
Benzotrichloride/98-07-7
Benzyl chloride/100-44-7
Bis(chloroethyl)ether/111-44-4
Bis(chloromethyl)ether/542-88-1
Bis(2-ethylhexyl) phthalate/ 117-81-7
Bromodichloromethane/75-27-4
Bromoform/75-25-2
Carbazole/86-74-8
Carbon tetrachloride/56-23-5
Chlordane/57-74-9
Chlorodibromomethane/124-48-1
Chloroform/67-66-3
Chlorthalonil/1897-45-6
2,4-D/94-75-7
DDT/50-29-3
Diallate/2303-16-4
1,2 Dibromoethane/106-93-4
1,4 Dichlorobenzene/106-46-7
3,3' Dichlorobenzidine/91-94-1
1,1 Dichloroethane/75-34-3
1,2 Dichloroethane/107-06-2
Nitrofurazone/59-87-0
N-nitrosodiethanolamine/ 1116-54-7
N-nitrosodiethylamine/55-18-5
N-nitrosodimethylamine/62-75-9
N-nitrosodiphenylamine/86-30-6
N-nitroso-di-n-propylamine/ 621-64-7
N-nitrosopyrrolidine/930-55-2
N-nitroso-di-n-butylamine/ 924-16-3
N-nitroso-n-methylethylamine/ 10595-95-6
PAH/NA
PBBs/NA
PCBs/1336-36-3
1,2 Dichloropropane/78-87-5
1,3 Dichloropropene/542-75-6
Dichlorvos/62-73-7
Dieldrin/60-57-1
3,3' Dimethoxybenzidine/119-90-4
3,3 Dimethylbenzidine/119-93-7
1,2 Dimethylhydrazine/540-73-8
2,4 Dinitrotoluene/121-14-2
2,6 Dinitrotoluene/606-20-2
1,4 Dioxane/123-91-1
1,2 Diphenylhydrazine/122-66-7
Endrin/72-20-8
Epichlorohydrin/106-89-8
Ethyl acrylate/140-88-5
Ethylene dibromide/106-93-4
Ethylene thioureae/96-45-7
Folpet/133-07-3
Furmecyclox/60568-05-0
Heptachlor/76-44-8
Heptachlor epoxide/1024-57-3
Hexachlorobenzene/118-74-1
Hexachlorocyclohexane (alpha)/ 319-84-6
Hexachlorocyclohexane (tech.)/ 608-73-1
Hexachlorodibenzo-p-dioxin, mix/19408-74-3
Hydrazine/hydrazine sulfate/ 302-01-2
Lindane/58-89-9
2 Methylaniline/100-61-8
2 Methylaniline hydrochloride/ 636-21-5
4,4' Methylene bis(N,N-dimethyl)aniline/101-61-1
Methylene chloride (dichloromethane)/75-09-2
Mirex/2385-85-5
O-phenylenediamine/106-50-3
Propylene oxide/75-56-9
2,3,7,8-Tetrachlorodibenzo-p-dioxin/ 1746-01-6
Tetrachloroethylene/127-18-4
2,4 Toluenediamine/95-80-7
o-Toluidine/95-53-4
Toxaphene/8001-35-2
Trichloroethylene/79-01-6
2,4,6-Trichlorophenol/88-06-2
Trimethyl phosphate/512-56-1
Vinyl chloride/75-01-4

6. Are any other pesticides, herbicides, or fungicides used at this facility? ☐ YES ☒ NO

If yes, specify the material and quantity used.

7. Are there other pollutants that you know of or believe to be present? ☐ YES ☐ NO

If yes, specify the pollutants and their concentration if known (attach laboratory analyses if available). ☒ DON'T KNOW

## SECTION F. GROUND WATER INFORMATION

Provide available data measurements or range of measurements from monitoring wells or supply wells in the area of discharge. Provide the analytical method and detection limit, if known. Provide the location of each well on the map required in G.3 below. Attach well logs when available. Copy this page as necessary for each well. Provide the latitude and longitude in decimal format.

Ecology Well Tag ID # _____ *(exampleAAB123)*

Well ID # MW-1 *(example MW-1)*

Latitude: 46.67901295828131

Longitude: -120.49713492393493

Well Elevation (to the nearest 0.01 feet) _____ Check the appropriate box; the elevation measurement is relative to: the NAVD88 standard ☐ mean sea level ☐

| Parameter | Units | Range of Measurements | Number of Analyses | Analytical Method | Detection Limit |
|---|---|---|---|---|---|
| BOD (5 day) | mg/L | | | | |
| COD | mg/L | | | | |
| Total organic carbon | mg/L | | | | |
| Total dissolved solids | mg/L | 246-438 | 45 | SM2540C | |
| Dissolved Fixed Solids | mg/L | | | | |
| pH | Standard units | 7.0-8.3 | 45 | | |
| Conductivity | (micromhos/cm) | 396-732 | 45 | SM2510 B | |
| Alkalinity | mg/L as $CaCO_3$ | | | | |
| Total hardness | mg/L | | | | |
| Fecal coliform | organisms/100mL | 0-2.72 | 45 | SM9222 D | |
| Total coliform | organisms/100mL | | | | |
| Dissolved oxygen | mg/L | | | | |
| Ammonia-N | mg/L | | | | |
| Nitrate + nitrite-N, nitrate as N | mg/L | 0-3.6 | 45 | EPA300.0 | .05 ppm |
| Total kjeldahl N as N | mg/L | | | | |
| Ortho-phosphate-P as P | mg/L | | | | |
| Total-phosphate-P as P | mg/L | | | | |
| Total Oil and Grease | mg/L | | | | |
| Total petroleum hydrocarbon | ☐mg/L ☐ µg/l | | | | |
| Calcium | ☐mg/L ☐ µg/l | | | | |
| Chloride | ☐mg/L ☐ µg/l | | | | |
| Fluoride | ☐mg/L ☐ µg/l | | | | |
| Magnesium | ☐mg/L ☐ µg/l | | | | |
| Potassium | ☐mg/L ☐ µg/l | | | | |
| Sodium | ☐mg/L ☐ µg/l | | | | |
| Sulfate | ☐mg/L ☐ µg/l | | | | |
| Barium | ☐mg/L ☐ µg/l | | | | |
| Cadmium | ☐mg/L ☐ µg/l | | | | |
| Chromium | ☐mg/L ☐ µg/l | | | | |
| Copper | ☐mg/L ☐ µg/l | | | | |
| Iron | ☐mg/L ☐ µg/l | 0-0 | 45 | EPA200.7 | |
| Lead | ☐mg/L ☐ µg/l | | | | |
| Manganese | ☐mg/L ☐ µg/l | | | | |

| Parameter | Units | Range of Measurements | Number of Analyses | Analytical Method | Detection Limit |
|---|---|---|---|---|---|
| Mercury | ☐mg/L ☐ µg/l | | | | |
| Selenium | ☐mg/L ☐ µg/l | | | | |
| Silver | ☐mg/L ☐ µg/l | | | | |
| Zinc | ☐mg/L ☐ µg/l | | | | |
| Depth to water level (to the nearest .01 feet) | | 8.7-12.7 | 45 | | |

## SECTION F. GROUND WATER INFORMATION

Provide available data measurements or range of measurements from monitoring wells or supply wells in the area of discharge. Provide the analytical method and detection limit, if known. Provide the location of each well on the map required in G.3 below. Attach well logs when available. Copy this page as necessary for each well. Provide the latitude and longitude in decimal format.

Ecology Well Tag ID # _____ *(exampleAAB123)*

Well ID # MW-3 *(example MW-1)*

Latitude: 46.66495182493577

Longitude: -120.50481140613556

Well Elevation (to the nearest 0.01 feet) _____ Check the appropriate box; the elevation measurement is relative to: the NAVD88 standard ☐ mean sea level ☐

| Parameter | Units | Range of Measurements | Number of Analyses | Analytical Method | Detection Limit |
|---|---|---|---|---|---|
| BOD (5 day) | mg/L | | | | |
| COD | mg/L | | | | |
| Total organic carbon | mg/L | | | | |
| Total dissolved solids | mg/L | 202-404 | 45 | SM2540C | |
| Dissolved Fixed Solids | mg/L | | | | |
| pH | Standard units | 6.8-7.9 | 45 | | |
| Conductivity | (micromhos/cm) | 394-741 | 45 | SM2510 B | |
| Alkalinity | mg/L as $CaCO_3$ | | | | |
| Total hardness | mg/L | | | | |
| Fecal coliform | organisms/100mL | 0-5 | 45 | SM9222 D | |
| Total coliform | organisms/100mL | | | | |
| Dissolved oxygen | mg/L | | | | |
| Ammonia-N | mg/L | | | | |
| Nitrate + nitrite-N, nitrate as N | mg/L | 0.38-5.72 | 45 | EPA300.0 | .05 ppm |
| Total kjeldahl N as N | mg/L | | | | |
| Ortho-phosphate-P as P | mg/L | | | | |
| Total-phosphate-P as P | mg/L | | | | |
| Total Oil and Grease | mg/L | | | | |
| Total petroleum hydrocarbon | ☐mg/L ☐ µg/l | | | | |
| Calcium | ☐mg/L ☐ µg/l | | | | |
| Chloride | ☐mg/L ☐ µg/l | | | | |
| Fluoride | ☐mg/L ☐ µg/l | | | | |
| Magnesium | ☐mg/L ☐ µg/l | | | | |
| Potassium | ☐mg/L ☐ µg/l | | | | |
| Sodium | ☐mg/L ☐ µg/l | | | | |
| Sulfate | ☐mg/L ☐ µg/l | | | | |
| Barium | ☐mg/L ☐ µg/l | | | | |
| Cadmium | ☐mg/L ☐ µg/l | | | | |
| Chromium | ☐mg/L ☐ µg/l | | | | |
| Copper | ☐mg/L ☐ µg/l | | | | |
| Iron | ☐mg/L ☐ µg/l | 0-0.2 | 45 | EPA200.7 | |
| Lead | ☐mg/L ☐ µg/l | | | | |
| Manganese | ☐mg/L ☐ µg/l | | | | |

| Parameter | Units | Range of Measurements | Number of Analyses | Analytical Method | Detection Limit |
|---|---|---|---|---|---|
| Mercury | ☐mg/L ☐ µg/l | | | | |
| Selenium | ☐mg/L ☐ µg/l | | | | |
| Silver | ☐mg/L ☐ µg/l | | | | |
| Zinc | ☐mg/L ☐ µg/l | | | | |
| Depth to water level (to the nearest .01 feet) | | 5.0-13.8 | 45 | | |

## SECTION F. GROUND WATER INFORMATION

Provide available data measurements or range of measurements from monitoring wells or supply wells in the area of discharge. Provide the analytical method and detection limit, if known. Provide the location of each well on the map required in G.3 below. Attach well logs when available. Copy this page as necessary for each well. Provide the latitude and longitude in decimal format.

Ecology Well Tag ID # _____ *(exampleAAB123)*

Well ID # MW-4 *(example MW-1)*

Latitude: 46.66502177156265

Longitude: -120.51109850406647

Well Elevation (to the nearest 0.01 feet) _____ Check the appropriate box; the elevation measurement is relative to: the NAVD88 standard ☐ mean sea level ☐

| Parameter | Units | Range of Measurements | Number of Analyses | Analytical Method | Detection Limit |
|---|---|---|---|---|---|
| BOD (5 day) | mg/L | | | | |
| COD | mg/L | | | | |
| Total organic carbon | mg/L | | | | |
| Total dissolved solids | mg/L | 414-836 | 45 | SM2540C | |
| Dissolved Fixed Solids | mg/L | | | | |
| pH | Standard units | 6.7-7.7 | 45 | | |
| Conductivity | (micromhos/cm) | 730-1239 | 45 | SM2510 B | |
| Alkalinity | mg/L as $CaCO_3$ | | | | |
| Total hardness | mg/L | | | | |
| Fecal coliform | organisms/100mL | 0-330 | 45 | SM9222 D | |
| Total coliform | organisms/100mL | | | | |
| Dissolved oxygen | mg/L | | | | |
| Ammonia-N | mg/L | | | | |
| Nitrate + nitrite-N, nitrate as N | mg/L | 0.1-3.4 | 45 | EPA300.0 | .05 ppm |
| Total kjeldahl N as N | mg/L | | | | |
| Ortho-phosphate-P as P | mg/L | | | | |
| Total-phosphate-P as P | mg/L | | | | |
| Total Oil and Grease | mg/L | | | | |
| Total petroleum hydrocarbon | ☐mg/L ☐ µg/l | | | | |
| Calcium | ☐mg/L ☐ µg/l | | | | |
| Chloride | ☐mg/L ☐ µg/l | | | | |
| Fluoride | ☐mg/L ☐ µg/l | | | | |
| Magnesium | ☐mg/L ☐ µg/l | | | | |
| Potassium | ☐mg/L ☐ µg/l | | | | |
| Sodium | ☐mg/L ☐ µg/l | | | | |
| Sulfate | ☐mg/L ☐ µg/l | | | | |
| Barium | ☐mg/L ☐ µg/l | | | | |
| Cadmium | ☐mg/L ☐ µg/l | | | | |
| Chromium | ☐mg/L ☐ µg/l | | | | |
| Copper | ☐mg/L ☐ µg/l | | | | |
| Iron | ☐mg/L ☐ µg/l | 0-0.2 | 45 | EPA200.7 | |
| Lead | ☐mg/L ☐ µg/l | | | | |
| Manganese | ☐mg/L ☐ µg/l | | | | |

| Parameter | Units | Range of Measurements | Number of Analyses | Analytical Method | Detection Limit |
|---|---|---|---|---|---|
| Mercury | ☐mg/L ☐ µg/l | | | | |
| Selenium | ☐mg/L ☐ µg/l | | | | |
| Silver | ☐mg/L ☐ µg/l | | | | |
| Zinc | ☐mg/L ☐ µg/l | | | | |
| Depth to water level (to the nearest .01 feet) | | 7.4-13.1 | 45 | | |

## SECTION F. GROUND WATER INFORMATION

Provide available data measurements or range of measurements from monitoring wells or supply wells in the area of discharge. Provide the analytical method and detection limit, if known. Provide the location of each well on the map required in G.3 below. Attach well logs when available. Copy this page as necessary for each well. Provide the latitude and longitude in decimal format.

Ecology Well Tag ID # _____ *(exampleAAB123)*

Well ID # WW-1 *(example MW-1)*

Latitude: 46.675928656402164

Longitude: -120.49704372882843

Well Elevation (to the nearest 0.01 feet) _____ Check the appropriate box; the elevation measurement is relative to: the NAVD88 standard ☐ mean sea level ☐

| Parameter | Units | Range of Measurements | Number of Analyses | Analytical Method | Detection Limit |
|---|---|---|---|---|---|
| BOD (5 day) | mg/L | | | | |
| COD | mg/L | | | | |
| Total organic carbon | mg/L | | | | |
| Total dissolved solids | mg/L | 140-992 | 45 | SM2540C | |
| Dissolved Fixed Solids | mg/L | | | | |
| pH | Standard units | 7.1-8.3 | 45 | | |
| Conductivity | (micromhos/cm) | 456-712 | 45 | SM2510 B | |
| Alkalinity | mg/L as $CaCO_3$ | | | | |
| Total hardness | mg/L | | | | |
| Fecal coliform | organisms/100mL | 0-2 | 45 | SM9222 D | |
| Total coliform | organisms/100mL | | | | |
| Dissolved oxygen | mg/L | | | | |
| Ammonia-N | mg/L | | | | |
| Nitrate + nitrite-N, nitrate as N | mg/L | 0-2 | 45 | EPA300.0 | .05 ppm |
| Total kjeldahl N as N | mg/L | | | | |
| Ortho-phosphate-P as P | mg/L | | | | |
| Total-phosphate-P as P | mg/L | | | | |
| Total Oil and Grease | mg/L | | | | |
| Total petroleum hydrocarbon | ☐mg/L ☐ µg/l | | | | |
| Calcium | ☐mg/L ☐ µg/l | | | | |
| Chloride | ☐mg/L ☐ µg/l | | | | |
| Fluoride | ☐mg/L ☐ µg/l | | | | |
| Magnesium | ☐mg/L ☐ µg/l | | | | |
| Potassium | ☐mg/L ☐ µg/l | | | | |
| Sodium | ☐mg/L ☐ µg/l | | | | |
| Sulfate | ☐mg/L ☐ µg/l | | | | |
| Barium | ☐mg/L ☐ µg/l | | | | |
| Cadmium | ☐mg/L ☐ µg/l | | | | |
| Chromium | ☐mg/L ☐ µg/l | | | | |
| Copper | ☐mg/L ☐ µg/l | | | | |
| Iron | ☐mg/L ☐ µg/l | 0-1.5 | 45 | EPA200.7 | |
| Lead | ☐mg/L ☐ µg/l | | | | |
| Manganese | ☐mg/L ☐ µg/l | | | | |

| Parameter | Units | Range of Measurements | Number of Analyses | Analytical Method | Detection Limit |
|---|---|---|---|---|---|
| Mercury | ☐mg/L ☐ µg/l | | | | |
| Selenium | ☐mg/L ☐ µg/l | | | | |
| Silver | ☐mg/L ☐ µg/l | | | | |
| Zinc | ☐mg/L ☐ µg/l | | | | |
| Depth to water level (to the nearest .01 feet) | | 5.7-9.5 | 45 | | |

## SECTION F. GROUND WATER INFORMATION

Provide available data measurements or range of measurements from monitoring wells or supply wells in the area of discharge. Provide the analytical method and detection limit, if known. Provide the location of each well on the map required in G.3 below. Attach well logs when available. Copy this page as necessary for each well. Provide the latitude and longitude in decimal format.

Ecology Well Tag ID # _____ *(exampleAAB123)*

Well ID # WW-2 *(example MW-1)*

Latitude: 46.6683533350224

Longitude: -120.50340056419372

Well Elevation (to the nearest 0.01 feet) _____ Check the appropriate box; the elevation measurement is relative to: the NAVD88 standard ☐ mean sea level ☐

| Parameter | Units | Range of Measurements | Number of Analyses | Analytical Method | Detection Limit |
|---|---|---|---|---|---|
| BOD (5 day) | mg/L | | | | |
| COD | mg/L | | | | |
| Total organic carbon | mg/L | | | | |
| Total dissolved solids | mg/L | 21-664 | 45 | SM2540C | |
| Dissolved Fixed Solids | mg/L | | | | |
| pH | Standard units | 6.88-8.1 | 45 | | |
| Conductivity | (micromhos/cm) | 115-398 | 45 | SM2510 B | |
| Alkalinity | mg/L as $CaCO_3$ | | | | |
| Total hardness | mg/L | | | | |
| Fecal coliform | organisms/100mL | 0-2 | 45 | SM9222 D | |
| Total coliform | organisms/100mL | | | | |
| Dissolved oxygen | mg/L | | | | |
| Ammonia-N | mg/L | | | | |
| Nitrate + nitrite-N, nitrate as N | mg/L | 0.07-1.95 | 45 | EPA300.0 | .05 ppm |
| Total kjeldahl N as N | mg/L | | | | |
| Ortho-phosphate-P as P | mg/L | | | | |
| Total-phosphate-P as P | mg/L | | | | |
| Total Oil and Grease | mg/L | | | | |
| Total petroleum hydrocarbon | ☐mg/L ☐ µg/l | | | | |
| Calcium | ☐mg/L ☐ µg/l | | | | |
| Chloride | ☐mg/L ☐ µg/l | | | | |
| Fluoride | ☐mg/L ☐ µg/l | | | | |
| Magnesium | ☐mg/L ☐ µg/l | | | | |
| Potassium | ☐mg/L ☐ µg/l | | | | |
| Sodium | ☐mg/L ☐ µg/l | | | | |
| Sulfate | ☐mg/L ☐ µg/l | | | | |
| Barium | ☐mg/L ☐ µg/l | | | | |
| Cadmium | ☐mg/L ☐ µg/l | | | | |
| Chromium | ☐mg/L ☐ µg/l | | | | |
| Copper | ☐mg/L ☐ µg/l | | | | |
| Iron | ☐mg/L ☐ µg/l | 0-1.8 | 45 | EPA200.7 | |
| Lead | ☐mg/L ☐ µg/l | | | | |
| Manganese | ☐mg/L ☐ µg/l | | | | |

| Parameter | Units | Range of Measurements | Number of Analyses | Analytical Method | Detection Limit |
|---|---|---|---|---|---|
| Mercury | ☐mg/L ☐ µg/l | | | | |
| Selenium | ☐mg/L ☐ µg/l | | | | |
| Silver | ☐mg/L ☐ µg/l | | | | |
| Zinc | ☐mg/L ☐ µg/l | | | | |
| Depth to water level (to the nearest .01 feet) | | 6.0-11.1 | 45 | | |

# SECTION F. GROUND WATER INFORMATION

Provide available data measurements or range of measurements from monitoring wells or supply wells in the area of discharge. Provide the analytical method and detection limit, if known. Provide the location of each well on the map required in G.3 below. Attach well logs when available. Copy this page as necessary for each well. Provide the latitude and longitude in decimal format.

Ecology Well Tag ID # _____ Well ID # WW-3 *(example MW-1)*
*(exampleAAB123)*
Latitude: 46.668357016194434 Longitude: -120.5033951997757

Well Elevation (to the nearest 0.01 feet) _____ Check the appropriate box; the elevation measurement is relative to: the NAVD88 standard ☐ mean sea level ☐

| Parameter | Units | Range of Measurements | Number of Analyses | Analytical Method | Detection Limit |
|---|---|---|---|---|---|
| BOD (5 day) | mg/L | | | | |
| COD | mg/L | | | | |
| Total organic carbon | mg/L | | | | |
| Total dissolved solids | mg/L | 230-473 | 45 | SM2540C | |
| Dissolved Fixed Solids | mg/L | | | | |
| pH | Standard units | 6.8-7.7 | 45 | | |
| Conductivity | (micromhos/cm) | 418-827 | 45 | SM2510 B | |
| Alkalinity | mg/L as $CaCO_3$ | | | | |
| Total hardness | mg/L | | | | |
| Fecal coliform | organisms/100mL | 0-17.0 | 45 | SM9222 D | |
| Total coliform | organisms/100mL | | | | |
| Dissolved oxygen | mg/L | | | | |
| Ammonia-N | mg/L | | | | |
| Nitrate + nitrite-N, nitrate as N | mg/L | 0.42-3.5 | 45 | EPA300.0 | .05 ppm |
| Total kjeldahl N as N | mg/L | | | | |
| Ortho-phosphate-P as P | mg/L | | | | |
| Total-phosphate-P as P | mg/L | | | | |
| Total Oil and Grease | mg/L | | | | |
| Total petroleum hydrocarbon | ☐mg/L ☐ µg/l | | | | |
| Calcium | ☐mg/L ☐ µg/l | | | | |
| Chloride | ☐mg/L ☐ µg/l | | | | |
| Fluoride | ☐mg/L ☐ µg/l | | | | |
| Magnesium | ☐mg/L ☐ µg/l | | | | |
| Potassium | ☐mg/L ☐ µg/l | | | | |
| Sodium | ☐mg/L ☐ µg/l | | | | |
| Sulfate | ☐mg/L ☐ µg/l | | | | |
| Barium | ☐mg/L ☐ µg/l | | | | |
| Cadmium | ☐mg/L ☐ µg/l | | | | |
| Chromium | ☐mg/L ☐ µg/l | | | | |
| Copper | ☐mg/L ☐ µg/l | | | | |
| Iron | ☐mg/L ☐ µg/l | 0-0.1 | 45 | EPA200.7 | |
| Lead | ☐mg/L ☐ µg/l | | | | |
| Manganese | ☐mg/L ☐ µg/l | | | | |

| Parameter | Units | Range of Measurements | Number of Analyses | Analytical Method | Detection Limit |
|---|---|---|---|---|---|
| Mercury | ☐mg/L ☐ µg/l | | | | |
| Selenium | ☐mg/L ☐ µg/l | | | | |
| Silver | ☐mg/L ☐ µg/l | | | | |
| Zinc | ☐mg/L ☐ µg/l | | | | |
| Depth to water level (to the nearest .01 feet) | | 7.3-13.1 | 45 | | |

# SECTION F. GROUND WATER INFORMATION

Provide available data measurements or range of measurements from monitoring wells or supply wells in the area of discharge. Provide the analytical method and detection limit, if known. Provide the location of each well on the map required in G.3 below. Attach well logs when available. Copy this page as necessary for each well. Provide the latitude and longitude in decimal format.

Ecology Well Tag ID # _____ *(exampleAAB123)*

Well ID # WW-4 *(example MW-1)*

Latitude: 46.669060115454

Longitude: -120.50844848155975

Well Elevation (to the nearest 0.01 feet) _____ Check the appropriate box; the elevation measurement is relative to: the NAVD88 standard ☐ mean sea level ☐

| Parameter | Units | Range of Measurements | Number of Analyses | Analytical Method | Detection Limit |
|---|---|---|---|---|---|
| BOD (5 day) | mg/L | | | | |
| COD | mg/L | | | | |
| Total organic carbon | mg/L | | | | |
| Total dissolved solids | mg/L | 127-742 | 45 | SM2540C | |
| Dissolved Fixed Solids | mg/L | | | | |
| pH | Standard units | 6.54-7.90 | 45 | | |
| Conductivity | (micromhos/cm) | 492-915 | 45 | SM2510 B | |
| Alkalinity | mg/L as $CaCO_3$ | | | | |
| Total hardness | mg/L | | | | |
| Fecal coliform | organisms/100mL | 0-11.3 | 45 | SM9222 D | |
| Total coliform | organisms/100mL | | | | |
| Dissolved oxygen | mg/L | | | | |
| Ammonia-N | mg/L | | | | |
| Nitrate + nitrite-N, nitrate as N | mg/L | 0-11.4 | 59 | EPA300.0 | .05 ppm |
| Total kjeldahl N as N | mg/L | | | | |
| Ortho-phosphate-P as P | mg/L | | | | |
| Total-phosphate-P as P | mg/L | | | | |
| Total Oil and Grease | mg/L | | | | |
| Total petroleum hydrocarbon | ☐mg/L ☐ µg/l | | | | |
| Calcium | ☐mg/L ☐ µg/l | | | | |
| Chloride | ☐mg/L ☐ µg/l | | | | |
| Fluoride | ☐mg/L ☐ µg/l | | | | |
| Magnesium | ☐mg/L ☐ µg/l | | | | |
| Potassium | ☐mg/L ☐ µg/l | | | | |
| Sodium | ☐mg/L ☐ µg/l | | | | |
| Sulfate | ☐mg/L ☐ µg/l | | | | |
| Barium | ☐mg/L ☐ µg/l | | | | |
| Cadmium | ☐mg/L ☐ µg/l | | | | |
| Chromium | ☐mg/L ☐ µg/l | | | | |
| Copper | ☐mg/L ☐ µg/l | | | | |
| Iron | ☐mg/L ☐ µg/l | 0-0.2 | 45 | EPA200.7 | |
| Lead | ☐mg/L ☐ µg/l | | | | |
| Manganese | ☐mg/L ☐ µg/l | | | | |

| Parameter | Units | Range of Measurements | Number of Analyses | Analytical Method | Detection Limit |
|---|---|---|---|---|---|
| Mercury | ☐mg/L ☐ µg/l | | | | |
| Selenium | ☐mg/L ☐ µg/l | | | | |
| Silver | ☐mg/L ☐ µg/l | | | | |
| Zinc | ☐mg/L ☐ µg/l | | | | |
| Depth to water level (to the nearest .01 feet) | | 4.5-9.8 | | | |

## SECTION G. SITE ASSESSMENT

**The local library and local city or county planning offices may be helpful in providing the information required in this section. You may consult the Department of Ecology Water Resources Program to help identify wells within one mile of your site.**

1. Land Application Sites: Provide the information below for each land application site. Provide the latitude/longitude (approximate center of the site; NAD83/WGS84 reference datum.) Attach a copy of the contract(s) authorizing use of any private land(s) used for each treatment site. Add table rows as necessary.

| Legal Description (section/township/range) See attachment C.7.2 – Legal description | | | |
|---|---|---|---|
| Latitude | Longitude | Acreage | Owner |
| 46.670833 | 120.501944 | 325 | Tree Top, Inc. |
| Legal Description (section/township/range) Section | | | |
| Latitude | Longitude | Acreage | Owner |
| | | | |
| Legal Description (section/township/range) | | | |
| Latitude | Longitude | Acreage | Owner |
| | | | |
| Legal Description (section/township/range) | | | |
| Latitude | Longitude | Acreage | Owner |
| | | | |

2. If this is a new discharge, list all environmental control permits or approvals needed for this project; for example, SEPA review, engineering reports, hydrogeologic reports, , , or air emissions permits.

   N/A

3. Attach an original United States Geological Survey (USGS) 7.5 minute topographic map and aerial photograph(s) from an internet mapping site that shows the processing facility and sprayfield site(s). **USGS topographical maps are available from the Department of Natural Resources (360 902-1234), Metsker Maps (206 588-5222), some local bookstores, and internet sites.** Show the following on this map:

   a. Location and name of internal and adjacent streets.
   b. Surface water drainage systems within ¼ mile of the site.
   c. All wells within 1 mile of the site.
   d. Wastewater discharge points.
   e. Land uses and zoning adjacent to the wastewater application site.
   f. Groundwater gradient.

4. Describe the soils on the site using information from local soil survey reports. **Soils information is available from your local County Conservation District or from information contained in the sites hydrogeologic report.** *(Submit on separate sheet and label as attachment G.4.)*

5. Describe the local geology and hydrogeology within one mile of the site. Include any groundwater quality data. **The local library or local Soil Conservation Service may have this information.** *(Submit on separate sheet and label as attachment G.5.)*

6. List the names and addresses of contractors or consultants who provided information and cite sources of information by title and author.

## SECTION H. STORMWATER

1. Do you have coverage under the Washington State Industrial Stormwater NPDES General permit? ☒ YES ☐ NO
   If yes, please list the permit number here. WAR000566

   If no, have you applied for coverage under the Washington State Industrial Stormwater NPDES general permit? ☐ YES ☐ NO

**Note:** If you answered "no" to both questions above, complete the following questions 2 through 8.

2. Describe the size of the stormwater collection area.
   a. Unpaved area _____ sq.ft.
   b. Paved area _____ sq.ft.
   c. Other collection areas (roofs) _____ sq.ft.

3. Does your facility's stormwater discharge to: *(Check all that apply)*
   ☒ Storm sewer system; name of storm sewer system *(operator):* Tree Top, Inc.
   ☐ Sanitary sewer
   ☒ Directly to surface waters of Washington State *(e.g., river, lake, creek, estuary, ocean).*
   Specify waterbody name _____
   ☐ Indirectly to surface waters of Washington State *(i.e., flows over adjacent properties first).*
   ☒ Directly to ground waters of Washington State via:
   ☒ Dry well
   ☐ Drainfield
   ☐ Other

4. Areas with industrial activities at facility: *(check all that apply)*
   ☒ Manufacturing building
   ☒ Material handling
   ☒ Material storage
   ☒ Hazardous waste treatment, storage, or disposal *(refers to RCRA, Subtitle C facilities only)*
   ☒ Waste treatment, storage, or disposal
   ☒ Application or disposal of wastewaters
   ☒ Storage and maintenance of material handling equipment
   ☐ Vehicle maintenance
   ☐ Areas where significant materials remain
   ☒ Access roads and rail lines for shipping and receiving
   ☐ Other _____

5. Material handling/management practices

a. Types of materials handled and/or stored outdoors: *(check all that apply)*

- ☐ Solvents
- ☐ Hazardous wastes
- ☒ Scrap metal
- ☐ Acids or alkalies
- ☒ Petroleum or petrochemical products
- ☐ Paints/coatings
- ☐ Plating products
- ☐ Woodtreating products
- ☐ Pesticides
- ☒ Other *(please list)*: Fruit is stored outdoors in bins and bulk trailers

b. Identify existing management practices employed to reduce pollutants in industrial storm water discharges: *(check all that apply)*

- ☐ Oil/water separator
- ☒ Containment
- ☒ Spill prevention
- ☐ Surface leachate collection
- ☐ Overhead coverage
- ☐ Detention facilities
- ☐ Infiltration basins
- ☒ Operational BMPs
- ☐ Vegetation management
- ☒ Other *(please list)*: A significant volume of stormwater is discharged to treatment as process wastewater

6. Attach a map showing stormwater drainage/collection areas, disposal areas and discharge points. This may be a hand drawn map if no other site map is available. Label this as attachment H.8.

## SECTION I. OTHER INFORMATION

1. Describe liquid or solid wastes generated that are not disposed of in the waste stream(s) and describe the method of disposal. For each type of waste, provide type of waste, name, address, and phone number of hauler.

   Used oil. Used oil is recycled by Emerald Recycling.

2. Describe any storage areas used for raw materials, products, and wastes.

   Raw material storage areas: Selah Plant receiving, Ross Plant receiving, Southern Field bin storage, and (intermittently) bulk trailer parking south of Naches Avenue and east of the railroad.

**Summary of attachments that may be required for this application:**
(Please check those attachments that are included)

- ☒ C.2. Production schematic flow diagram and water balance
- ☒ C.4. Wastewater treatment improvements
- ☒ C.7. Additional incidental materials
- ☐ E.4. Additional results of effluent testing
- ☐ G.1. Copies of land use contracts
- ☒ G.3. USGS topographical map
- ☐ G.4. Soils description
- ☐ G.5. Local geology and hydrology
- ☒ H.8. Stormwater drainage map



*If you need this document in a format for the visually impaired, call the Water Quality Program at 360-407-6600. Persons with hearing loss can call 711 for Washington Relay Service. Persons with a speech disability can call 877-833-6341.*

Tree Top, Inc.
Technical Services
111 S Railroad Avenue
P.O. Box 248
Selah, WA 98942-0248
T: 509.697.7251
F: 509.698.1446
www.treetop.com

# Attachment C.2.

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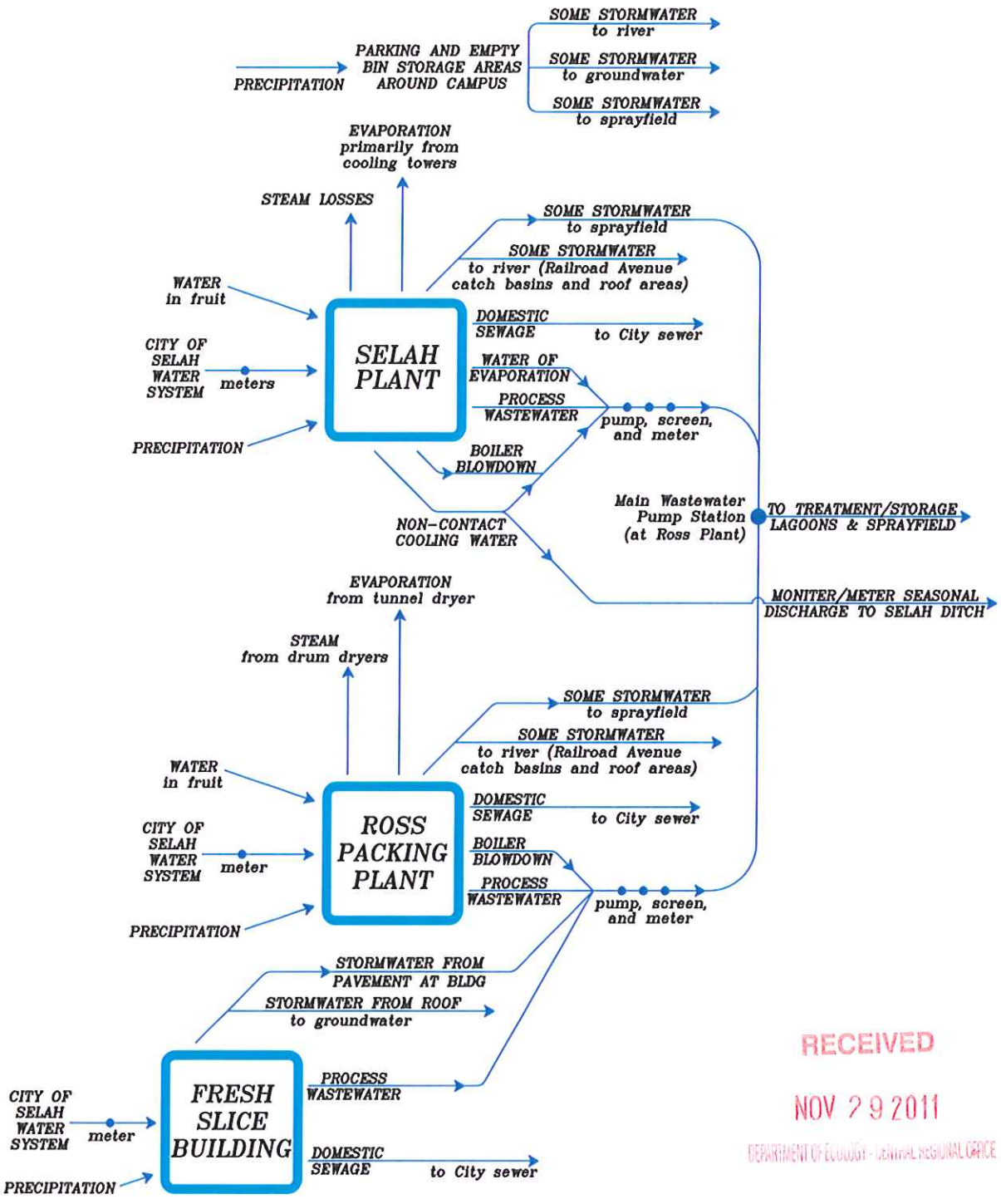




**Corporate Engineering Department**
P.O. Box 248 / 111 S. Railroad Ave.
Selah, Washington 98942-0248
Phone 509-697-7251
FAX 509-698-1526

SELAH OPERATIONS
DISCHARGE PERMIT RENEWAL
NOVEMBER 2011

# SOURCES AND DISCHARGES

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Technical Services
111 S Railroad Avenue
P.O. Box 248
Selah, WA 98942-0248
T: 509.697.7251
F: 509.698.1446
www.treetop.com

# Attachment G.3.



**Exhibit A**

File Number: **42721** Policy No. **48000410601401**

**PARCEL "A":**

**That portion of the Southeast 1/4 of Section 25, Township 14 North, Range 18, E.W.M., lying Easterly of the Easterly right of way line of the Northern Pacific (Burlington Northern) Railway; EXCEPTING any portion thereof lying within a strip of land 33 feet wide, being 16.5 feet on each side of the following described line:**

**Beginning at a point in the center of Taylor Ditch Waste Gate, said point bears South 62° East 152 feet distant from the Southwest corner of the Northeast 1/4 of the Southeast 1/4 of Section 25, Township 14 North, Range 18, E.W.M.;**
**thence running South 56° East 120 feet;**
**thence South 2.5° East 105 feet;**
**thence South 5° East 87 feet to the West line of Northern Pacific right of way;**
**thence South 27° East 227 feet to the center of the Northern Pacific Railway tract and culvert;**
**thence South 54° East 200 feet to the East line of the Northern Pacific right of way;**
**thence South 54° East 230 feet to the center of a slough and draw to Yakima River;**

**AND EXCEPT the South 25 feet thereof;**

**TOGETHER WITH an easement over and across the South 25 feet of that portion of the Southeast 1/4 of Section 25, Township 14 North, Range 18, E.W.M., lying Westerly of the Westerly right of way line of the Northern Pacific Railway Company (now Burlington Northern).**

**PARCEL "B":**

**The South 1/2 of the South 1/2 of Section 30, Township 14 North, Range 19, E.W.M., lying Westerly of the Yakima River.**

**Situated in Yakima County, State of Washington.**

**Exhibit A**

**All of Section 30, Township 14 North, Range 19, E.W.M., lying Westerly of the Yakima River, and Easterly of the Easterly right of way line of the Northern Pacific (Burlington Northern and Sante Fe) Railway;**

**EXCEPT all that portion of the South Half of Section 30, Township 14 North, Range 19, E.W.M., described as follows:**

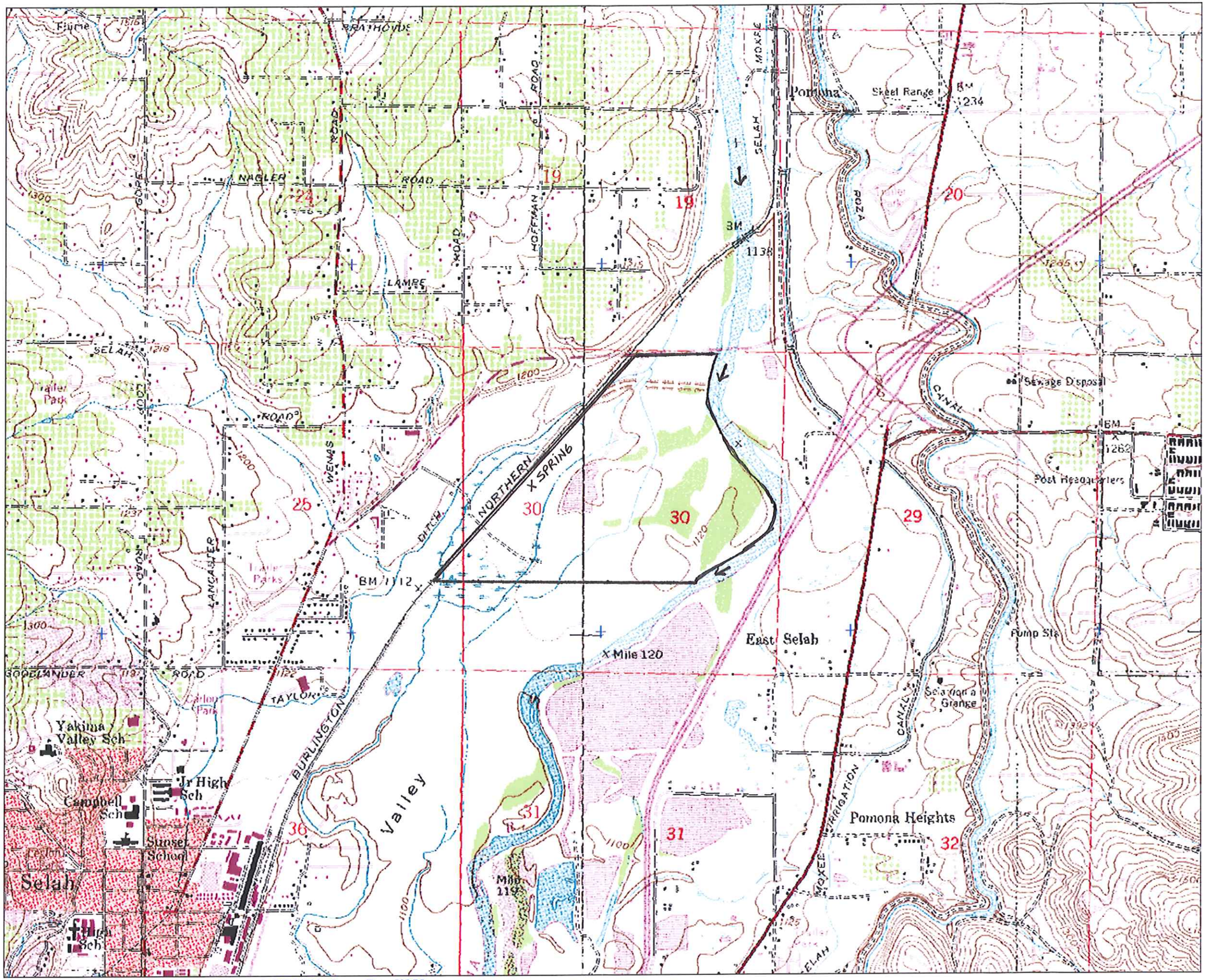
**Beginning at a point on the South line of said Section, a distance of 773.7 feet West of the Southeast corner thereof, said point being the center line of the East channel of the Yakima River as the same existed September 11, 1962, and shown on survey by Remie N. Jaussaud;**
**thence following said center line North 4°16' West 168.4 feet;**
**thence North 12°23' West 348.3 feet;**
**thence North 23°27' West 264.2 feet;**
**thence North 18°11' West 327 feet:**
**thence North 42°15' West 452.6 feet to the center line of the West channel of the Yakima River as the same existed September 11, 1962, and shown by survey by Remie N. Jaussaud;**
**thence South 54°44' West along said center line to the South line of Section 30;**
**thence East along said South line to the point of beginning;**

**AND EXCEPT 150 foot wide strip conveyed to Northern Pacific Railway Company by deed recorded September 15, 1898, in Volume "Y" of Deeds, Page 464, records of Yakima County, Washington;**

**EXCEPT right of way for Harrison Road, conveyed to Yakima County by deed recorded under Auditor's File Number 2212653.**

**AND EXCEPT the South half of the South half of Section 30, Township 14 North, Range 19 E.W.M., lying Westerly of the Yakima River.**

**Situated in Yakima County, State of Washington.**




3-D TopoQuads Copyright © 1999 DeLorme Yarmouth, ME 04096 Source Data: USGS

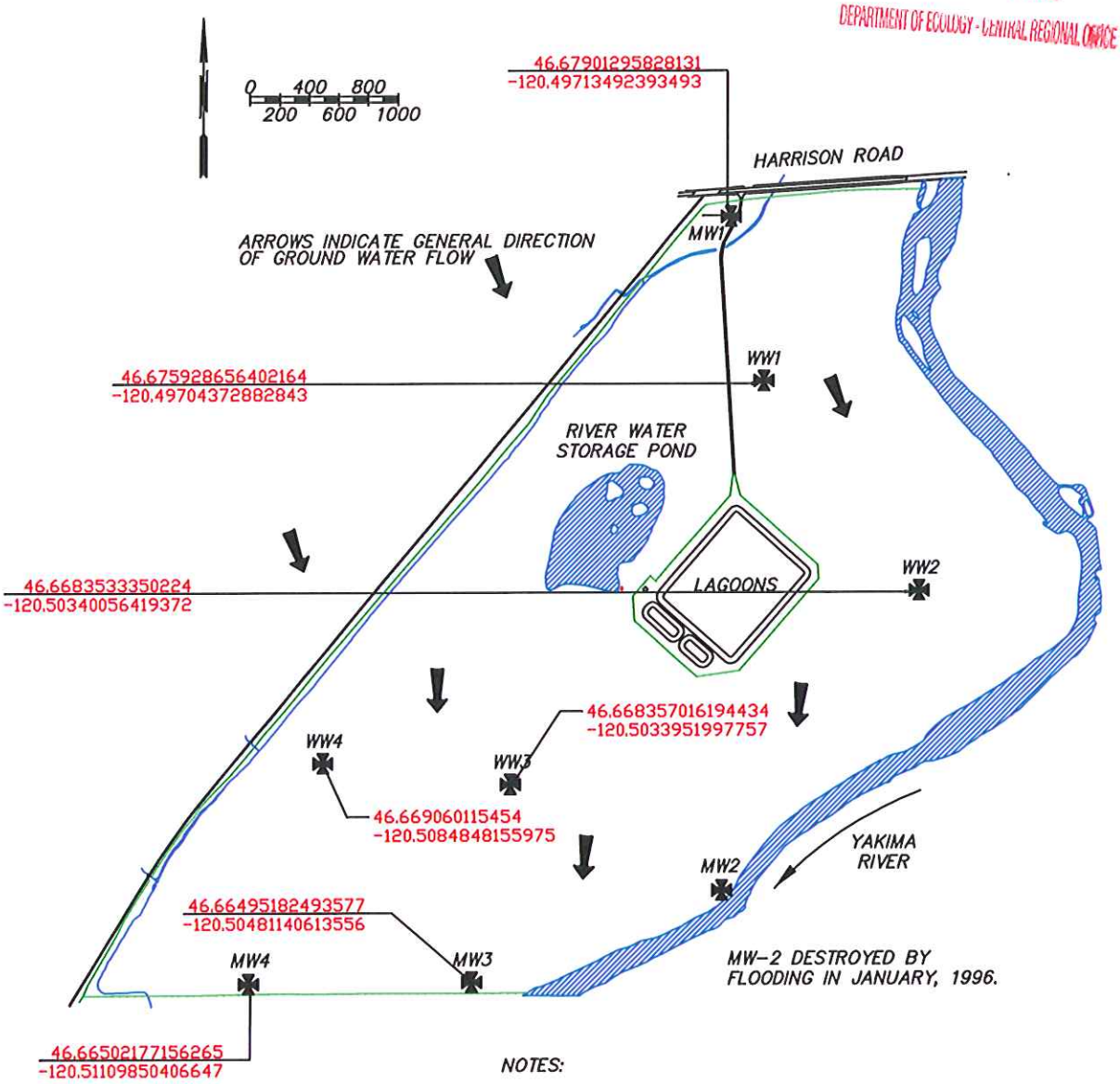
750 ft Scale: 1 : 25,000 Detail: 13-0 Datum: WGS84

A Hachmuth
G.S.
Topo Map

N

LAT. N46.6708
LONW120.5019

TREE TOP INC.
SELAH SPRAY
FIELD




NOTES:

1. MW = INDICATES WELLS THAT ARE LOCATED OUTSIDE OF AREAS IRRIGATED WITH PROCESS WATER.

2. WW = WELLS WITHIN THE AREAS IRRIGATED WITH PROCESS WATER.

3. WW-2 DESTROYED BY FLOODING IN 1996.

**Corporate Engineering Department**
P.O. Box 248 / 111 S. Railroad Avenue
Selah, Washington 98942-0248
Phone 509-697-7251
FAX 509-697-0446

# *SELAH FACILITIES*
## *WASTEWATER TREATMENT*
## *MONITORING WELLS*

TREETOP

Tree Top, Inc.
Technical Services
111 S Railroad Avenue
P.O. Box 248
Selah, WA 98942-0248
T: 509.697.7251
F: 509.698.1446
www.treetop.com

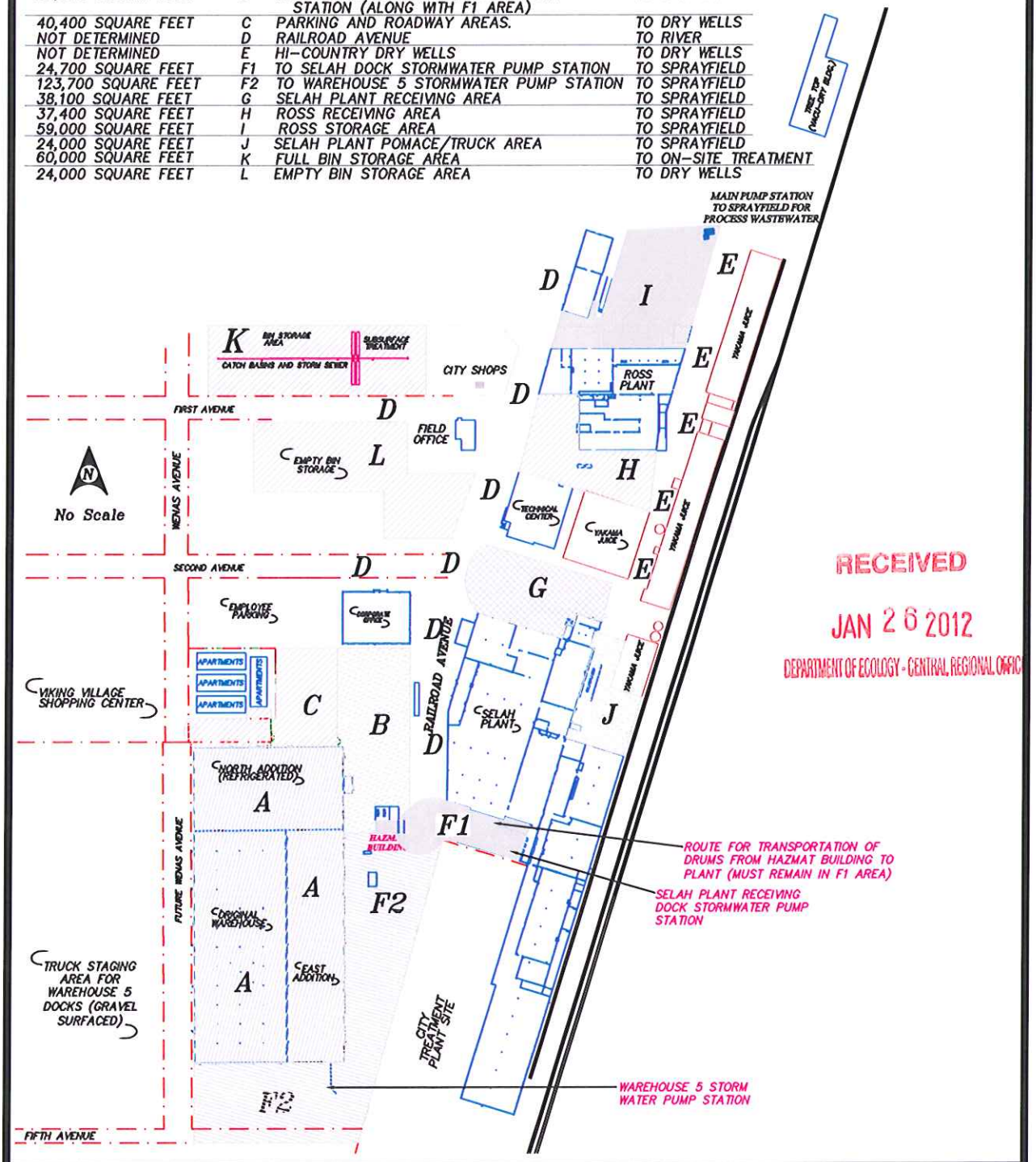
# Attachment H.8.

Attachment
H.8
Storm Water
Drainage



## LEGEND

| | | | |
|---|---|---|---|
| 220,100 SQUARE FEET | A | WAREHOUSE ROOF: 5.05 ACRES TOTAL | TO RIVER |
| 55,800 SQUARE FEET | B | PAVED AREA DRAINING TO DOCK PUMP STATION (ALONG WITH F1 AREA) | TO SPRAYFIELD |
| 40,400 SQUARE FEET | C | PARKING AND ROADWAY AREAS. | TO DRY WELLS |
| NOT DETERMINED | D | RAILROAD AVENUE | TO RIVER |
| NOT DETERMINED | E | HI-COUNTRY DRY WELLS | TO DRY WELLS |
| 24,700 SQUARE FEET | F1 | TO SELAH DOCK STORMWATER PUMP STATION | TO SPRAYFIELD |
| 123,700 SQUARE FEET | F2 | TO WAREHOUSE 5 STORMWATER PUMP STATION | TO SPRAYFIELD |
| 38,100 SQUARE FEET | G | SELAH PLANT RECEIVING AREA | TO SPRAYFIELD |
| 37,400 SQUARE FEET | H | ROSS RECEIVING AREA | TO SPRAYFIELD |
| 59,000 SQUARE FEET | I | ROSS STORAGE AREA | TO SPRAYFIELD |
| 24,000 SQUARE FEET | J | SELAH PLANT POMACE/TRUCK AREA | TO SPRAYFIELD |
| 60,000 SQUARE FEET | K | FULL BIN STORAGE AREA | TO ON-SITE TREATMENT |
| 24,000 SQUARE FEET | L | EMPTY BIN STORAGE AREA | TO DRY WELLS |

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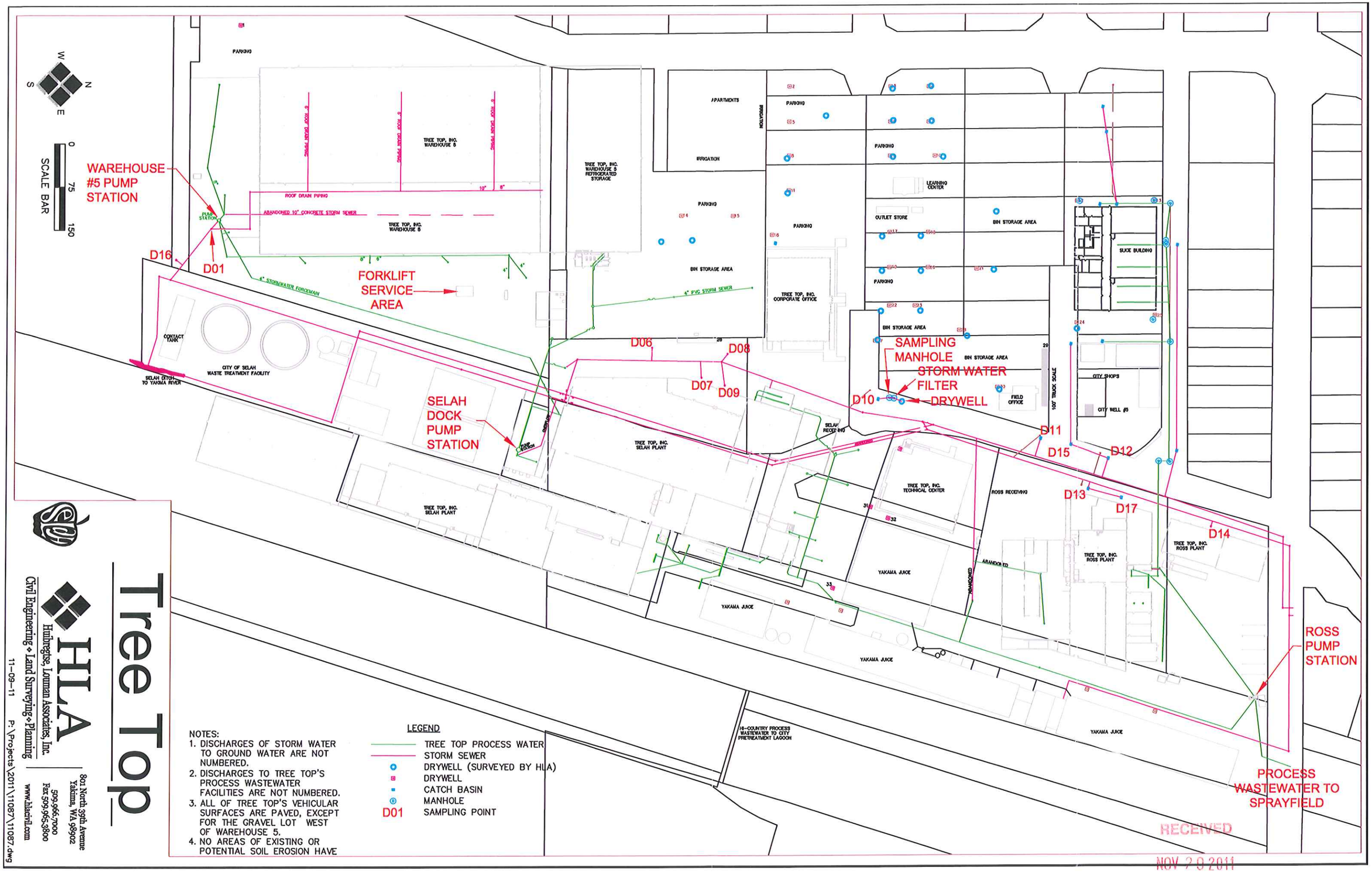
JAN 26 2012

DEPARTMENT OF ECOLOGY - CENTRAL REGIONAL OFFICE


**Corporate Engineering Department**
P.O. Box 248 / 111 S. Railroad Avenue
Selah, Washington 98942-0248
Phone 509-697-7251
FAX 509-698-1526


# *SELAH OPERATIONS*
# *STORM WATER PLANNING*
# *DRAINAGE AREAS*




NOTES:
1. DISCHARGES OF STORM WATER TO GROUND WATER ARE NOT NUMBERED.
2. DISCHARGES TO TREE TOP'S PROCESS WASTEWATER FACILITIES ARE NOT NUMBERED.
3. ALL OF TREE TOP'S VEHICULAR SURFACES ARE PAVED, EXCEPT FOR THE GRAVEL LOT WEST OF WAREHOUSE 5.
4. NO AREAS OF EXISTING OR POTENTIAL SOIL EROSION HAVE

LEGEND

- TREE TOP PROCESS WATER
- STORM SEWER
- DRYWELL (SURVEYED BY HLA)
- DRYWELL
- CATCH BASIN
- MANHOLE
- D01 SAMPLING POINT

# Tree Top

HLA
Hulbregtse, Louman Associates, Inc.
Civil Engineering • Land Surveying • Planning
801 North 39th Avenue
Yakima, WA 98902
509.966.7000
Fax 509.965.3800
www.hlacivil.com

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11-09-11 P:\Projects\2011\11087\11087.dwg



NOTES:
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2. DISCHARGES TO TREE TOP'S PROCESS WASTEWATER FACILITIES ARE NOT NUMBERED.
3. ALL OF TREE TOP'S VEHICULAR

LEGEND
- NATURAL GAS
- SANITARY SEWER
- DOMESTIC WATER
- TREE TOP PROCESS WATER
- STORM SEWER

W
S
N
E
SCALE BAR 0 75 150

TREE TOP, INC. WAREHOUSE 5
TREE TOP, INC. WAREHOUSE 5 REFRIGERATED STORAGE
WAREHOUSE #5 PUMP STATION
D16
D01
FORKLIFT SERVICE AREA
CONTACT TANK
CITY OF SELAH WASTE TREATMENT FACILITY
SELAH DOCK PUMP STATION
TREE TOP, INC. SELAH PLANT
TREE TOP, INC. SELAH PLANT
D06
D08
D07
D09
TREE TOP, INC. CORPORATE OFFICE
LEARNING CENTER
OUTLET STORE
SLICE BUILDING
SAMPLING MANHOLE
STORM WATER FILTER
DRYWELL
D10
FIELD OFFICE
100' TRUCK SCALE
CITY SHOPS
CITY WELL #5
D11
D15
D12
TREE TOP, INC. TECHNICAL CENTER
D13
D14
TREE TOP, INC. ROSS PLANT
TREE TOP, INC. ROSS PLANT
YAKAMA JUICE
YAKAMA JUICE
YAKAMA JUICE
ROSS PUMP STATION