

Dockets UE-170033 and UG-170034 (consolidated) and Dockets UE-072300 and UG-072301 (consolidated)

**Puget Sound Energy
2019 Service Quality Program and Electric Service Reliability Filing**

**Attachment B:
PSE Natural Gas Emergency Response Plans for Outlying Areas**

(CONFIDENTIAL)

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Centralia/Chehalis

EMERGENCY RESPONSE PLAN

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EMERGENCY RESPONSE PLAN

Centralia/Chehalis

How Centralia/Chehalis will be served

Regular business hours:

During regular business hours we will utilize employees who are working in Centralia/Chehalis. This could include Gas First Response, SC&P, or Infrasource personnel.

After Hours:

We have identified those gas employees that live in and in close proximity to Centralia/Chehalis. Outside of normal business hours we will contact the Gas First Response employees who live in Centralia/Chehalis. (If these employees know they will be unavailable they will notify Dispatch). If the resident employees are not available, we will notify the staff identified that lives near Centralia/Chehalis, if that fails, we will move First Responders per the standard callout process, which dispatch the closest GFR personnel to the problem.

Floods:

Lewis County has had numerous 100-year floods in the past several years; this area is prone to flooding. This area may be closed to any traffic except for emergency vehicles and local traffic. In the past I-5 has been shut down. During flooding, the best way to get there may be through Littlerock or Bucoda. The Cities of Centralia, Chehalis and Lewis Co. generally inform PSE of any wash outs or any other road problems. Portions of the distribution system may need to be shut down in case of flooding.

Alternative Access:

If access by conventional means is unavailable, you may be able to deliver personnel and materials to the Centralia/Chehalis area by helicopter. The System Manager (81-4681), (425)882-4681 or (800)383-1759 on duty should be called to arrange helicopter support.

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PSE STAFF WHO RESIDE IN CENTRALIA/CHEHALIS

Travis Beairsto (Gas)

504 "M" St

Centralia, WA 98531

Home phone: (360) 807-6491

Cell Phone: (253) 405-7353

Pager: (360) 971-8119

Keith Raines (Gas)

225 N King St

Centralia, WA 98531

Home: 360-736-3500

Pager: 253-291-1045

Cell: 253-377-7035

PSE STAFF WHO WORK IN CENTRALIA/CHEHALIS

Chad Chartrey Gas GFR Supervisor, Olympia Office

9327 Del Phi Road SW

Olympia, WA 98579

Home phone: (360) 753-2359

Cell phone: (253) 261-1276

Pager: (206) 560-0915

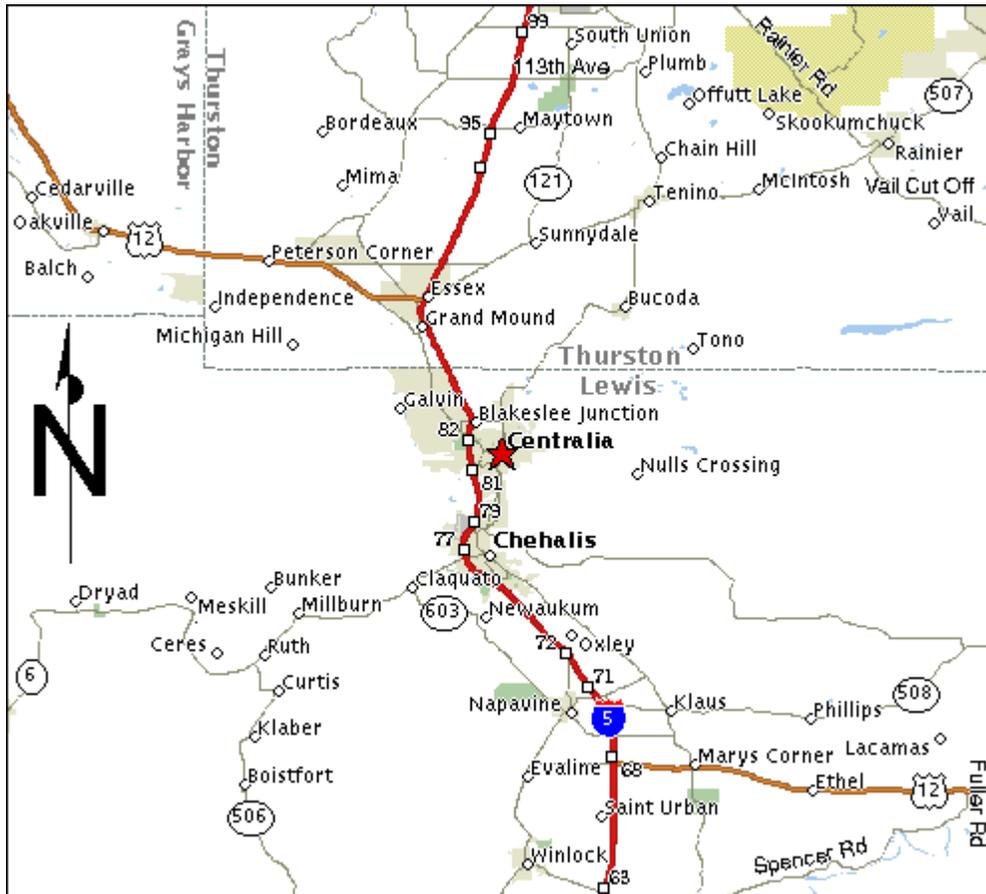
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DIRECTIONS/CENTRALIA OPERATING BASE (From Olympia)

1. Merge onto I-5 S toward PORTLAND. 25.61 miles
2. Take the WA-507 N/ MELLEEN ST. exit- exit number 81. 0.13 miles
3. Turn LEFT onto MELLEEN ST/ WA-507. Continue to follow WA 507. 0.93 miles
4. Turn RIGHT onto S PEARL ST. 0.09 miles
5. Stay straight to go onto S VIADUC. 0.32 miles
6. S VIADUC becomes S GOLD ST. 0.39 miles
7. All existing maps, records and D-4 are in filing cabinets. Plat maps are on engineering table. Sectionalization books are in the office. Keys for office, warehouse and security code see Chad Chartrey Cell 253-261-1276 or Office 360-786-5959

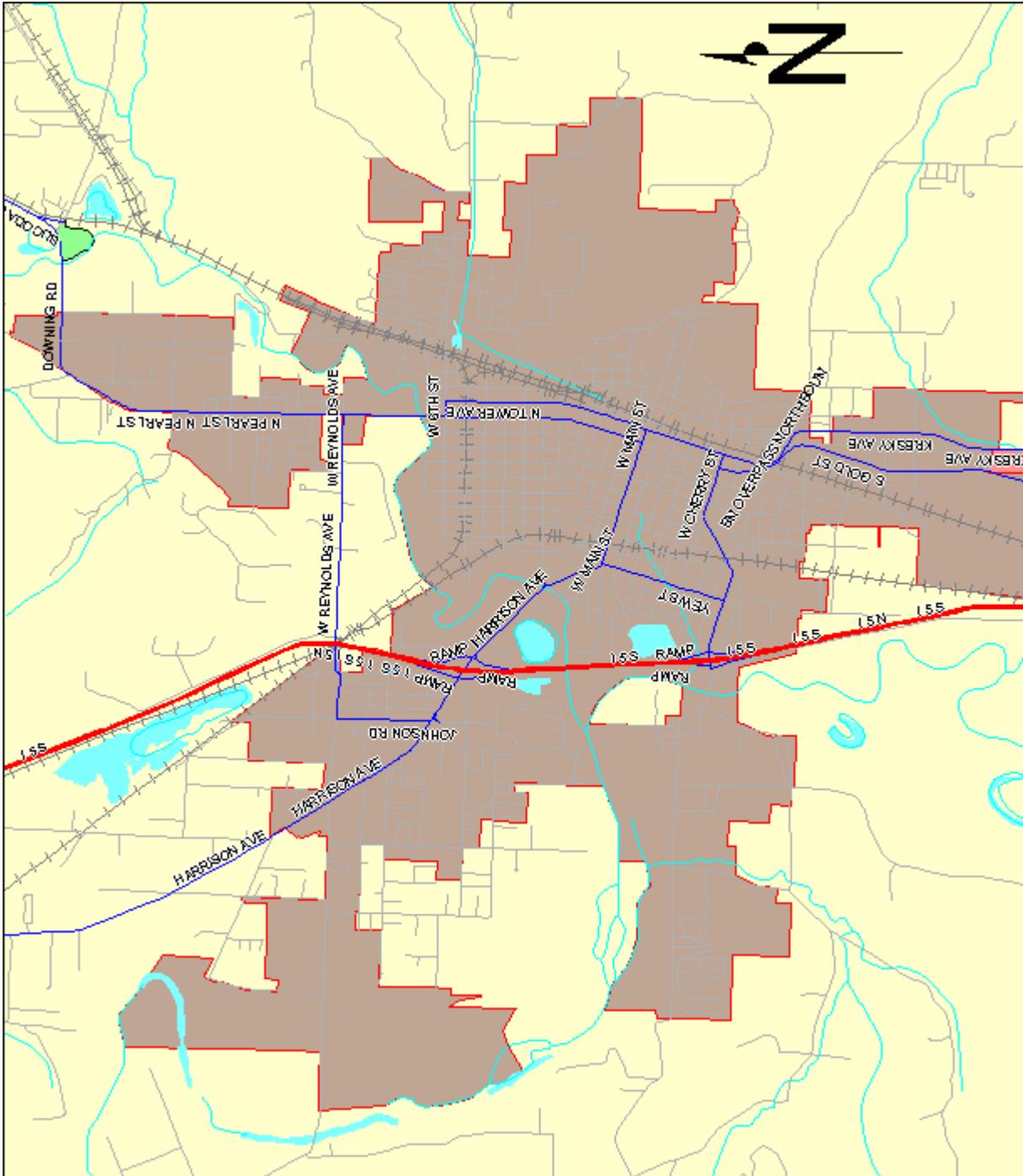
Total Estimated Driving Time from Olympia: 31 minutes

Total Distance: Approximately 28 miles



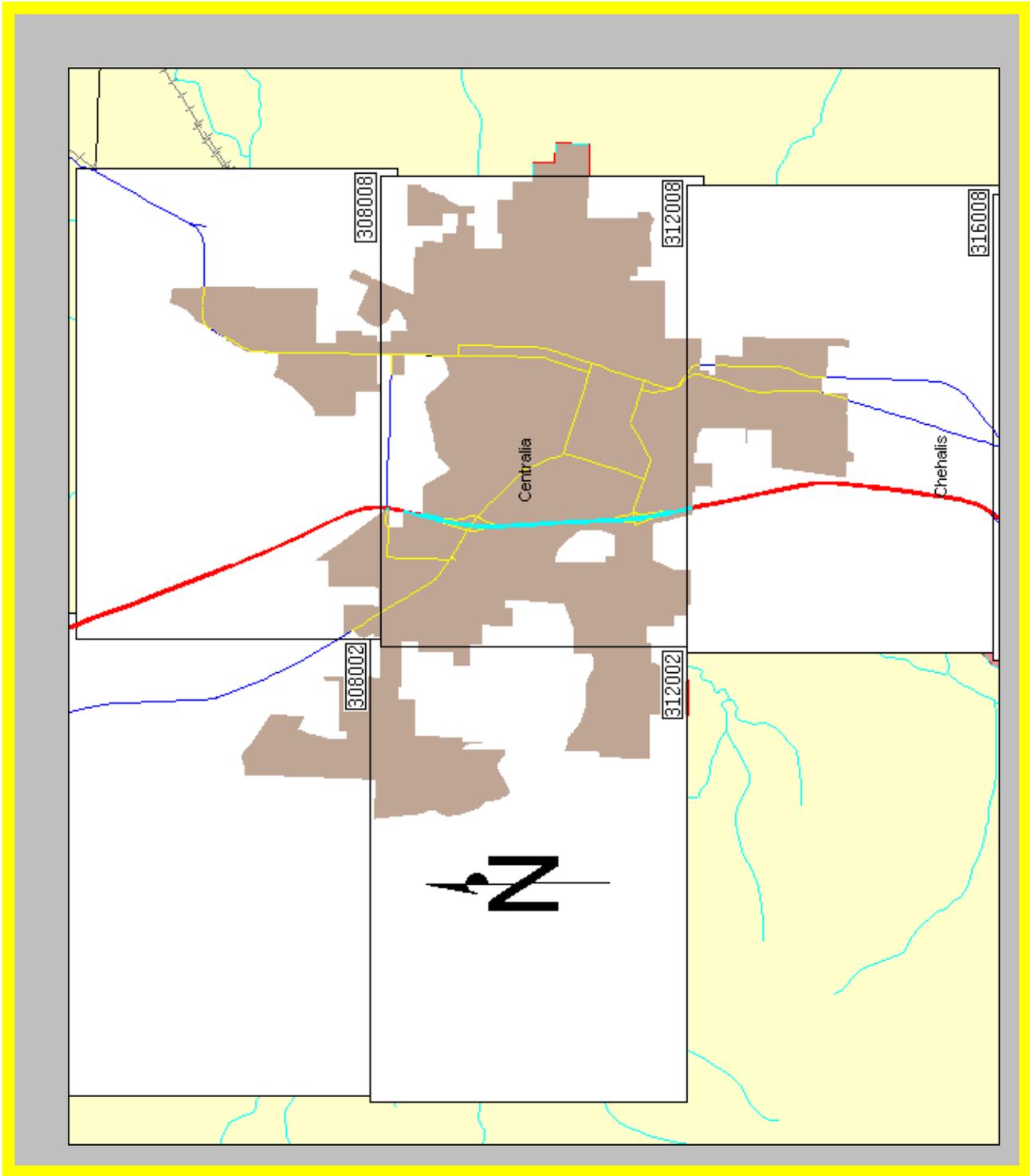
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CITY MAP Centralia



OPERATIONS MAP KEY

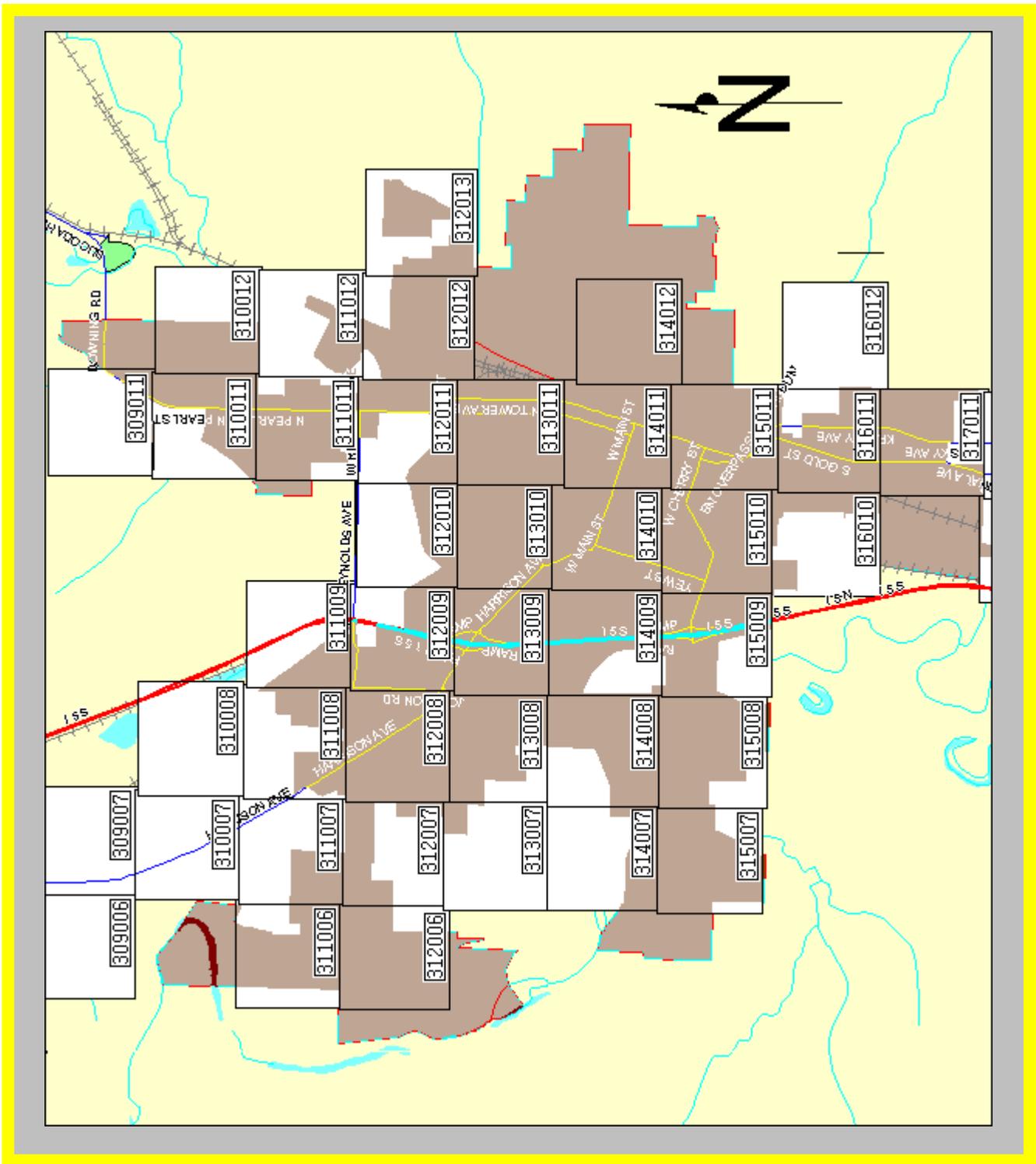
Centralia



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PLAT MAP KEY

Centralia



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DIRECTIONS/CHEHALIS (From Olympia)

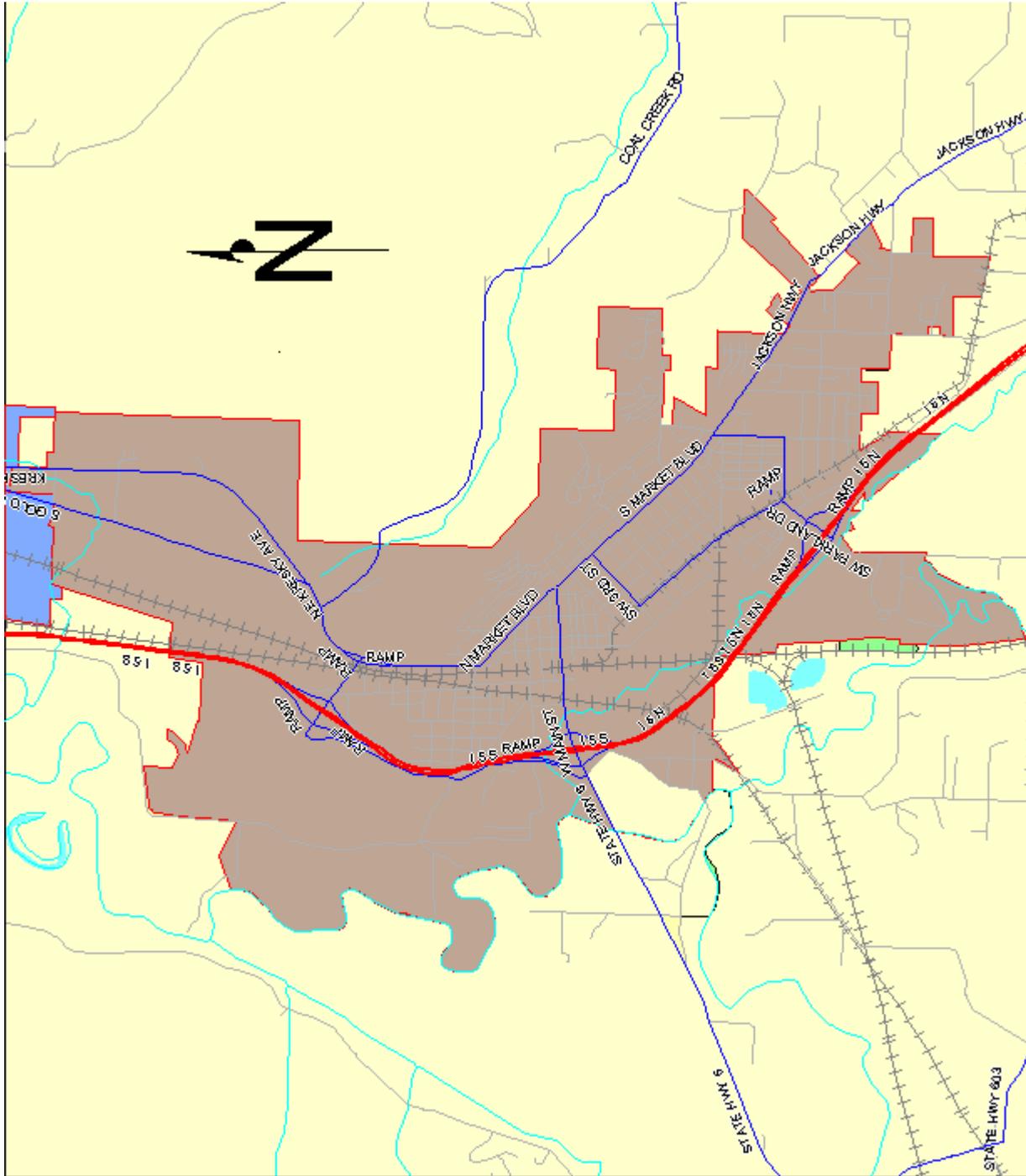
1. Merge onto I-5 S toward PORTLAND. 29.24 miles
2. Take the WA-6 exit- exit number 77- toward RAYMOND/ PE ELL 0.24 miles
3. Turn LEFT onto MAIN ST W/ WA-6. Continue to follow MAIN ST W. 0.75 miles
4. Turn RIGHT onto S MARKET BLVD. 0.04 miles



Total Estimated Driving Time from Olympia: 32 minutes
Total Distance: 30.71 miles

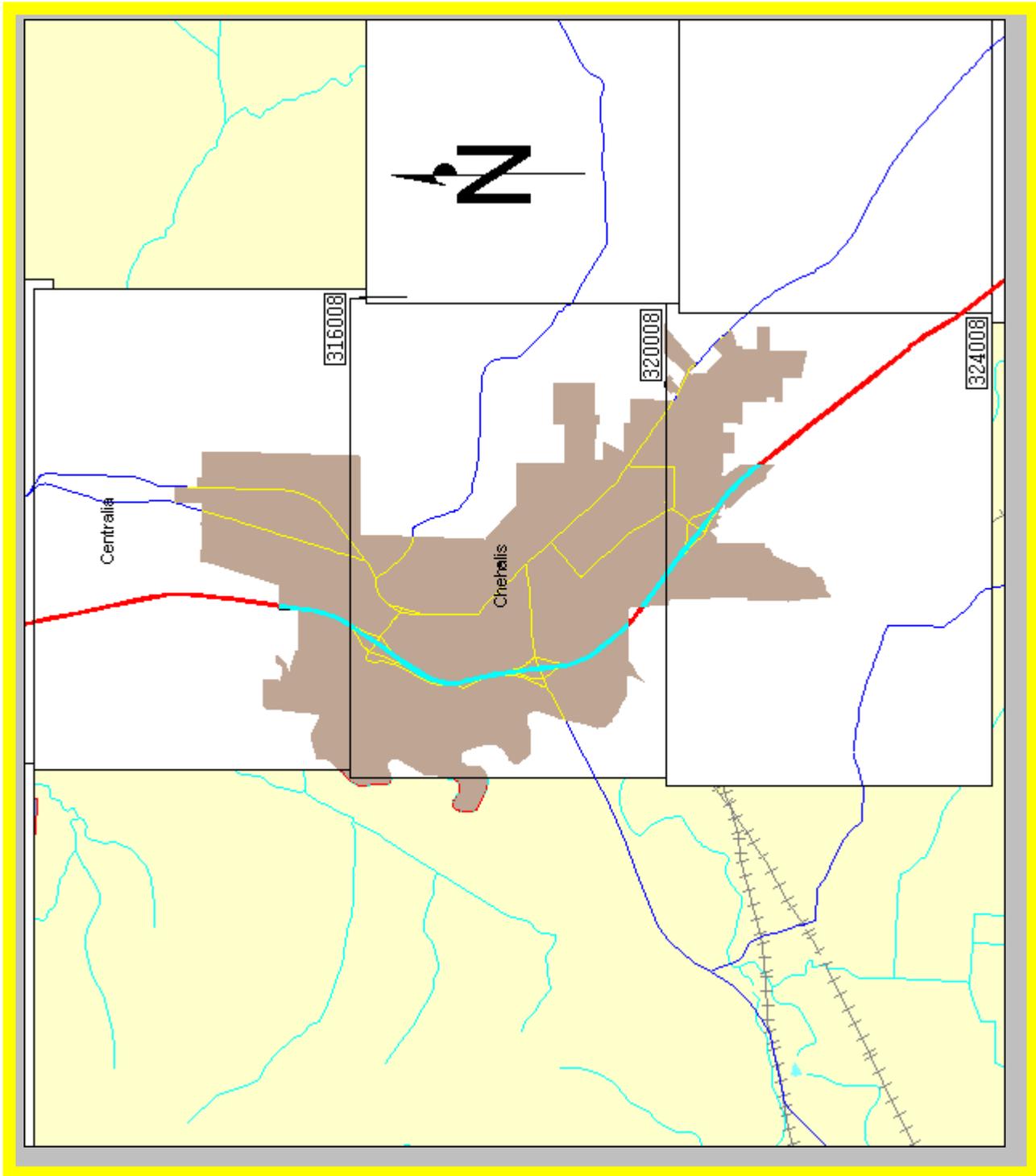
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CITY MAP Chehalis



OPERATIONS MAP KEY

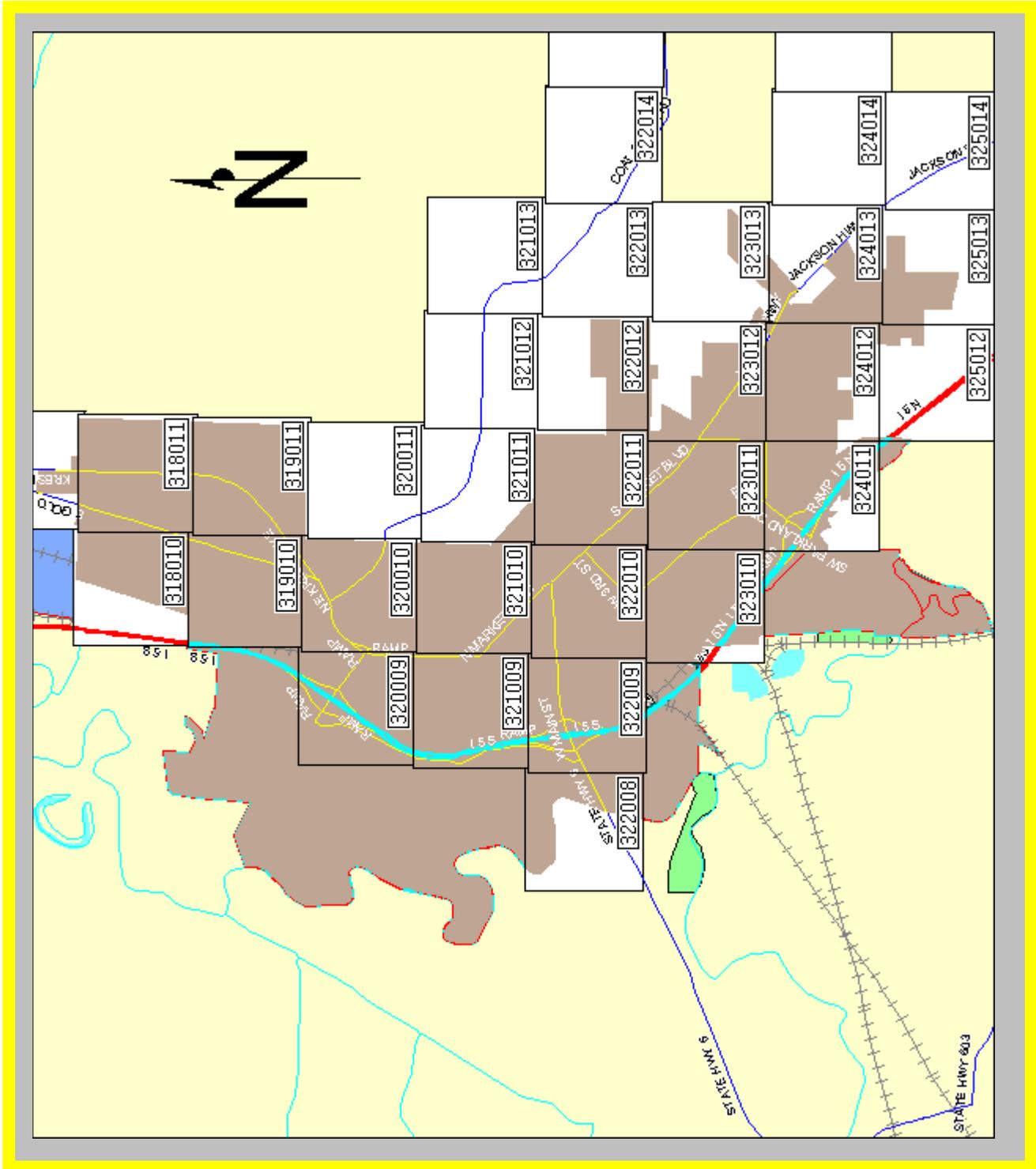
Chehalis



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PLAT MAP KEY

Chehalis



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ROLES AND RESPONSIBILITIES OF THE SERVICE PROVIDERS

Infrasource Contractors (IFS) performs the installation of new customer construction on both residential and commercial gas services. They perform gas system upgrades and replacements, as well as, gas system operation and maintenance. In addition, IFS responds to breaks at the request of PSE Gas Dispatch.

Kittitas County EMERGENCY RESPONSE PLAN

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Emergency Response Plan

Kittitas - GAS

How Kittitas is served

Regular business hours:

During regular business hours we will utilize employees who are working in Kittitas. This could include Gas First Response personnel or SC&P.

After Hours:

Outside of normal business hours we will first contact the Gas First Response employees who live in Kittitas. Two of these employees are expected to provide 24 hour 7 days per week coverage on an alternating week basis. If one of the four resident employees is not going to be available, we will move a First Responder from the west side of the mountains. If none of these people are available, use the normal callout procedure, calling the closest person(s) to the emergency.

What to do if the pass is closed and support is needed:

The primary link between the Kittitas service territory and the rest of the company is I-90. If inclement weather has the pass closed and support personnel or material are required from the West side, call the System Manager at 81-4681, (425)882-4681 or (800)383-1759 to make arrangements for aerial transport to Ellensburg.

PSE gas staff who reside in/near Kittitas

	Home	Cell	Pager	Pvt ID	Addr	Job
Dupuis M*	509 962-6551	425 766-1254	509 856-0340	6324	1121 Game-Farm Rd, Ellensburg	CFS Tech
Ingalls, B*	509 392-3588	509 201-0485	509 856-0339	205	2009 Judge-Ronald Rd, Ellensburg	Fitter
Deline, J	509-674-2132	425-766-1789	206-995-1416	6485	120 Three-Lakes Rd, Cle Elum	PI Inspector
Watkins, T	509 698-5383	509 201-3037	509 925-0737 206 989-1178	2310	812 S 4 th Street Loop, Selah	Supervisor

- These personnel have received basic training on regulator station operations and using the main line valves to control the 16" high pressure main.

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PSE support Staff in Kittitas –
 Knowledge of area and keys to facilities

	Home	Cell	Pager	Nextel	Addr	Job
Adam Crawford	N/A	509-899-3444			Ellensburg	Comm Rel MGR
Steve Noyes	509 899-3825	509 925-4858			Ellensburg	Operations Support Specialist

Brenda Hart carries a current flagging card, as do the electric servicemen Bill Dellinger and Don Finn noted below.

PSE Electric servicemen in Kittitas

	Dispatch	After hours	Sys Mgr	Addr	Job
Bill Dillinger	425 882-4613	425 882-4425	1-800 383-1759	Cle Elum	Serviceman
Don Finn	425 882-4613	425 882-4425	1-800 383-1759	Cle Elum	Serviceman
Gary Pillo	425 882-4613	425 882-4425	1-800 383-1759	Cle Elum	Serviceman

Facilities

Puget Sound Energy's Kittitas Base is located just Off I-90 at Exit 101 West of Ellensburg.

Address

8400 Thorp Highway South, Thorp

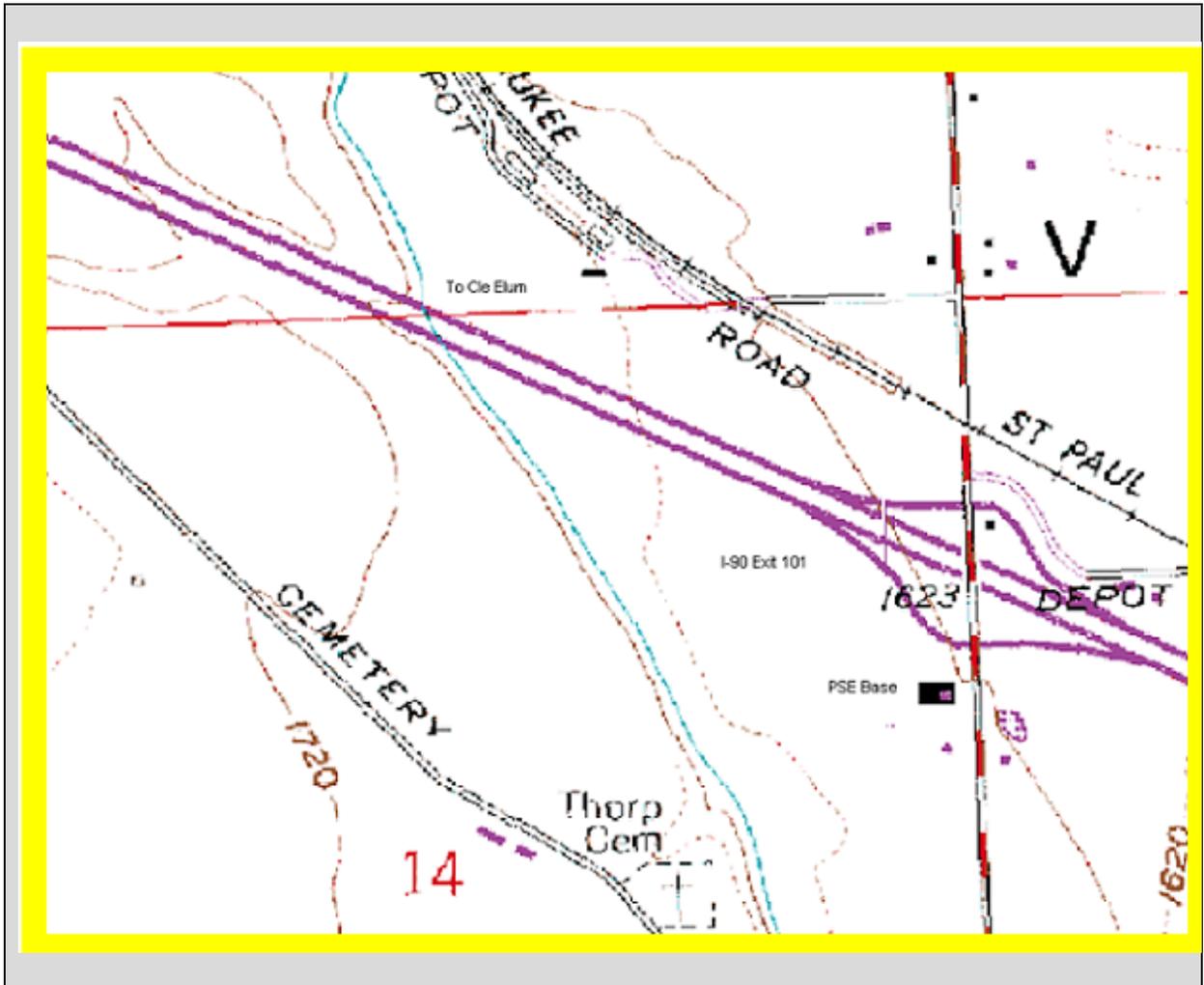
Map and Driving Directions to Facility

The facility is located at 8400 Thorp Highway South (see page 5 for map to, and 6 for layout of Kittitas facility).

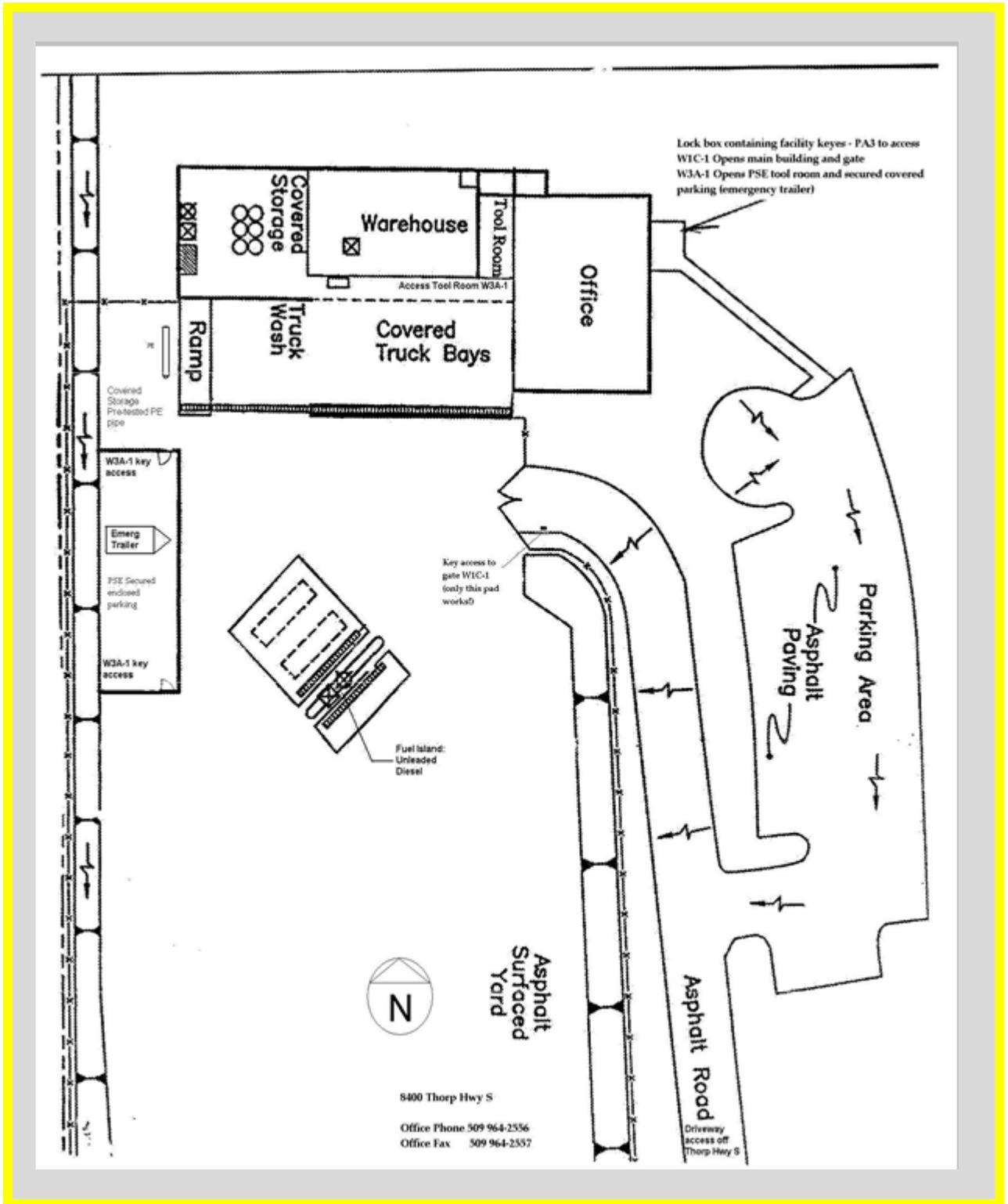
The driveway to the base is located 400'± south of I-90 off Thorp Highway South. The driveway is to the West and is paved.

The building sets back off the highway about 100 yards and is hard to see from Thorp Highway.

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Key Number

W1C-1 fits the door and electronic gate
W3A-1 opens the door to the tool room
Access Card – unlocks all keypad readers

You will need a **PSE W1C-1** or **access card** to enter the facility – Note there is a Lock Box near the front door that a **PA-3** Key will open. In the lock box is an access card as well as a key to the front door/Yard as well as the tool room.

Material

PSE maintains a trailer at our Kittitas facility, which will be used to carry Tools and materials needed in case of a gas emergency (see Material and Tool List Available at the Facility, page 8,9).

Map of Distribution and Supply System

See the following OP (Operations) maps:

264.230 (City of Thorp) 268.230 (Dist Reg and svc center)
272.230 272.236 272.248 272.254
276.230 276.236 276.242 276.248 (gate station)
276.254 (City of Kittitas) 280.230
280.236 280.242 (river crossing) 280.248 284.248 284.254 264.224
(Taneum creek crossing) 260.224 260.218 256.218 252.212 248.212
(CleElum river x'ing and DR) 248.206 (Cle Elum) 248.200 (Suncadia resort)
244.200 248.194 244.194 (Tumble Creek resort)

Roles and Responsibilities of the Service Providers and others

PSE performs the installation of new customer construction on both residential and commercial gas services, as well as, gas system operation and maintenance. Infrasource Contractors (IFS) responds to breaks at the request of PSE Gas Dispatch.

Mutual Assistance Agreement City of Ellensburg:

PSE has entered into a mutual aid agreement with the municipal natural gas utility at the City of Ellensburg. In the case of emergency they can be reached through the following numbers.

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City of Ellensburg natural gas (daytime) 509 962-7124
Kittitas County 911 (dispatch after hours) 509 925-8534

Steve Prue City of Ellensburg Gas engineer 509 962-7229

Williams Pipeline:

Victor E Smith – Operations Technician

Cell 509 727-7498

Office 509 544-9216

Sat 800 972-7733

Material and Tool List Available at the Facility

**Kittitas Emergency Supply
Equipment**

Weld Equipment

Oxy/acetylene - One bottles each of oxygen and acetylene will be stored at the facility in the warehouse.

Equipment store on the trailer at PSE’s facility

Squeeze Tools:

4" and 6" PE Squeeze Machines and Hydraulic pump

Breathing Air:

4 – 1 hour bottles

4 – 5 min bottles

4 – large face masks

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Electrofusion:

2", 4" and 6" clamps

1 – 2500 watt generator

Electrofusion machine

Leak Clamps:

Full circle clamps - 2" by 12" long - two

Full circle clamps - 4" by 12" long - two

Full circle clamps – 6" by 12" long - one

Incidental equipment:

Wood plugs – variety of sizes
Fire Extinguisher

Tool Room Inventory:

Shoring: - in tool room

Three 24" spreaders and pump

Four - 4 X 4' sheets of board (in PSE secured parking)

Four – 4 x 8' sheets of board (in PSE secured parking)

Fusion:

2" and 4" plates facer etc.

Flagging:

Signs and standards – Available in PSE secured parking in area next to pre-tested pipe

Covered Storage next to covered parking:

Pre tested pipe 1¼", 2", 4" and 6" pipe.

Valve Keys

Backhoe

PSE does not maintain a backhoe at the Kittitas facility. When a backhoe has been required one has been either rented from Potelco (who co-occupies the base) or United Rentals located in Ellensburg.

In the case of an emergency where a backhoe is required on site the following options are presented:

1. The PSE electric shift operators at 81-4425 or 1-800-772-5508 who regularly dispatch electric outage work to Potelco in Kittitas. As such, they would notify Potelco of an immediate need for a backhoe and the location for it to be delivered. If so specified, they could provide an IBEW operator as well.
2. The City of Kittitas has an operator and hoe that can be used for emergencies within the city limits of Kittitas if they can be reached and the equipment is available. They can be reached at 509 968-0220 during normal working hours. The operator's name is Val Bosch.

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Sumas Generating Station and Pipeline

EMERGENCY RESPONSE PLAN

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Purpose of this plan:

This document is intended to provide guidance for responding to emergencies on the pipeline serving the Sumas Generating Station which is isolated from our franchised distribution service territory.

This plan is not intended to be a detailed and comprehensive emergency plan. For those details, please refer to the Corporate Emergency Plan, Gas Operating Standards and Field Procedures.

In the case that this document conflicts with the Corporate Emergency Plan, Gas Operating Standards or Field Procedures, those documents shall take precedence.

How Sumas Generating Station is served

Regular business hours:

During regular business hours we will first utilize employees who are working at the Generating Station and get Gas Operations employees enroute from Snohomish County. This could include Gas First Response personnel and/or SC&P.

When personnel from Gas Operations travel to the Sumas area for regular duties they should notify Gas Control and Gas Operations Dispatch to let them know they will be in the area, and for approximately how long.

Gas Control	(425) 882-4622
Gas Operations Dispatch	(425) 882-4689

After Hours:

Outside of normal business hours we will first contact the Gas First Response and System Control & Protection employees who live closest to Sumas. If none of these people are available, use the normal callout procedure, calling the closest person(s) to the emergency.

What to do if highways are closed and support is needed:

If inclement weather, an accident or incident has the primary routes (I-5 and SR-9) closed and support personnel or material are required from the service area, call the System Manager at 81-4681, (425)882-4681 or (800)383-1759 to make arrangements for aerial transport to Sumas.

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PSE gas staff who reside nearest to Sumas or are responsible for the pipeline and stations in the Sumas Area

Name	Home	Cell		Job
John Macauley	360-794-4378	425-766-1267		Pressure Control
Blake Sargent	N/A	206-396-6630		Instrumentation
Lee Schmitt	N/A	360-464-0995		PI Inspector
Eric Johnson	360-691-5364	425-754-8043		CFS Technician
Steve Gray		425-754-8039		Pressure Control
Chucl Smythe		206-396-6632		Pressure Control
Doug Thompson	360-629-4504	425-754-8050		CFS Technician
Mike Wright	425-347-7949	425-754-4449		Industrial Meter Operations
Mardy Puntenev	425-334-3936	425-754-8053		PI Inspector
Stephanie Silva	425-754-2237	425-346-8263		GFR Supervisor
Macduff, Joe	425-754-8046	425-754-8046		Pressure Control Supervisor
Parks, Jim	206-542-2109	206-396-6605		Instrumentation Supervisor

- These personnel have received basic training on pipeline and station operations and using the main line valves to control the 8" high pressure transmission line.
- Call PI Inspectors for emergency locates.

PSE support Staff in Whatcom County –

Knowledge of area and keys to facilities

PSE Generating Station Staff

	Home	Cell	Office	Job
Shores, Michael	360-757-6379	360-815-1071	360-766-5523	Plant Manager
Blanton, Matthew	360-384-3737	360-815-3170	360-988-7017	Plant O&M Supervisor
Control Room			360-988-7017	
Chapman, Dan			360-988-7017	CT Journey Worker
Nims, Steve		360.325.2813	360-988-7017 360.988.2477	CT Journey Worker
Baumgartner, Brian			360-988-7017	CT Journey Worker

PSE Electric servicemen in Whatcom County

	Home	Cell	Pager	Job
Jake Deery		425-495-3669		Service Lineman
Wes Gibbs		360-815-0771		Service Lineman
Jason Peninger		360-325-5078		Service Lineman
Ted Royal		360-815-1419		Service Lineman
Bert Hillaire		360-815-2093		Service Lineman
Jon Backman		306-707-1993		Service Lineman

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Emergency Numbers

Police / Fire / 911 / Emergency Management		
Whatcom County 911	Dispatch	(360) 676-6911
Whatcom County Emergency Management		(360) 676-6711
Washington State Patrol		(360) 676-2076
Sumas Police Department		(800) 556-1345
Sumas Fire Department	Chief Debruin Mobile	(360) 224-0901
Bellingham Fire Department		(360) 778-8400
Lynden Fire Department	Chief Barr	(360) 354-4400 (360) 815-1605
Puget Sound Energy – Gas and Electric Operations		
Gas Control	PSE ext Outside dialing	81-4622 (425) 882-4622
Gas Operations Dispatch	PSE ext Outside dialing	81-4689 (425) 882-4689
Load Office	PSE ext Outside dialing Toll free	81-4650 425-882-4650 (800) 462-1360
System Operations Supervisor	Toll Free	(800) 383-1759
U.S. Government – Department of Homeland Security		
U.S. Customs		(360) 988-2971
U.S. Border Patrol		(360) 332-8781
Canada Customs (Canada Border Services Agency)		(204) 983-3500
Sumas Generating Station		
Generating Station	24 hour	(360) 988-7017
Control Room Mobile phone	Emergency only	(360) 271-8997
Plant O&M Supervisor		(360) 988-7017
Plant Manager		(360) 766-5523
Other Utilities and Pipelines		
Westcoast Energy / Spectra Energy	Gas Control	1-800-663-9931
Williams Pipeline Sumas District Office	District Office Gas Control	(360) 988-2261 1-800-972-7733
Cascade Natural Gas	Dispatch	1-888-522-1130
Contractors		
Infrasource Contractors 1065 12th Ave NE, Issaquah, WA 98027, (425) 417-7615	Office	(425) 417-7615
Snelson Companies Inc.		(360) 856-6511

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Huntingdon (Sumas) Area Pipeline 24/7 Emergency Contacts

2015/16

Company	Name	Phone Number
Fortis BC	Gas Control - (Surrey)	1-604-592-7500
	Gas Control Satellite phone (Surrey)	1-866-447-9335
Spectra Energy	Gas Control - (Calgary) Main	1-403-699-1700
	Gas Control - (Fort St John) Back up	1-800-663-9931
Williams – North West Pipelines (North)	Gas Control - (Salt Lake)	1-800-972-7733
	Gas Control Satellite phone (Salt Lake)	1-800-235-8966
Puget Sound Energy	Gas Control - North Console (Bellevue)	1-425-882-4495
	Gas Control - South Console (Bellevue)	1-425-882-4622
Cascade Natural Gas	Gas Control - (Kennewick)	1-844-734-4607
BP	Gas Control - (Tulsa)	1-918-660-4458
Kinder Morgan Canada	Control Center - (Edmonton)	1-888-876-6711

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Facilities

Puget Sound Energy's Sumas Generating Station is located at 1340 Thompson Lane, Sumas, WA (address was 601 West Front Street and may be listed that way elsewhere).

Generating Station – 1340 Thompson Lane, Sumas, WA



Entrance to Thompson Lane from Front St – proceed straight back through lumber yard to Generating Station entrance. Call box is to left of gate.



Entrance to Generating Station – Regulator station to the right toward the rear of the plant. Call box for plant access is to the left of the gate.

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Plant Regulator Station – Inlet valve behind station



Inlet to Generating Station regulator station. Feed to SOCCO Lumber plant auxiliary boiler is to the left, through the fence. Yellow pipe is SOCCO property.

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Border Crossing/Regulator Station – 4928 Jones Road



Driveway to Border Crossing Regulator Station – Regulator Station in background, center of picture. (BP Pipeline regulator station straight ahead on driveway.)



Border Crossing Regulator Station – Regulator building to left, odorizer to right.

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Map and Driving Directions to Generating Station

The facility is located at 1340 Thompson Lane (see page 10 for map to Border Crossing / Regulator Station).

From I-5 North at Bellingham

Instruction	For
At exit 255, turn RIGHT onto Ramp	0.2 mi
Turn RIGHT (East) onto SR-542 [Mt Baker Hwy]	9.9 mi
Turn LEFT (North) onto SR-9 [Lawrence Rd]	6.3 mi
Turn LEFT (West) onto SR-9 [S Pass Rd]	98 yds
Turn RIGHT (North) onto SR-9 [Nooksack Ave]	3.3 mi
Turn RIGHT (East) onto SR-9 [E Badger Rd]	3.5 mi
Arrive 601 W Front St, Sumas, WA 98295	



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Map and Driving Directions to Border Crossing / Regulator Station

The facility is located at 4928 Jones Road (see page 9 for map to Generating Station, and page 13 for schematic). The regulator station sits north of Jones Road about 100 yards.

From I-5 North at Bellingham

Instruction	For
At exit 255, turn RIGHT onto Ramp	0.2 mi
Turn RIGHT (East) onto SR-542 [Mt Baker Hwy]	9.9 mi
Turn LEFT (North) onto SR-9 [Lawrence Rd]	6.3 mi
Turn LEFT (West) onto SR-9 [S Pass Rd]	98 yds
Turn RIGHT (North) onto SR-9 [Nooksack Ave]	3.3 mi
Turn RIGHT (East) onto SR-9 [E Badger Rd]	3.9 mi
Turn LEFT (North) onto SR-9 [Cherry St]	0.5 mi
Turn RIGHT (East) onto Garfield St	0.6 mi
Road name changes to Jones Rd	1.6 mi



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Directions from Generating Station to Border Station

For directions from I-5 northbound, see page 9 for map to Generating Station, and page 10 for map to Border Crossing / Regulator Station.

Mile	Instruction	For
0.0	Depart 601 W Front St, Sumas, WA heading East	0.4 mi
0.4	Turn LEFT (North) onto SR-9 [Cherry St]	0.5 mi
0.9	Turn RIGHT (East) onto Garfield St	0.6 mi
1.5	Road name changes to Jones Rd	1.6 mi
3.1	Arrive 4928 Jones Rd, Sumas, WA 98295	



Access to Facilities

Key Number **PA-3**

Sumas Generating Station

Unless the gates are opened prior to your arrival, you will need to call on the call box to the left of the gates to enter the facility. There are two gates, one at the front of the lumber yard, one at the entrance to the Generating Station (behind the lumber yard). Once you are inside the gates, the Generating Station regulator station is opened with a **Best PA-3** key.

Border Regulator Station

The chain link fence around the station is locked with a padlock that uses a **PA-3**. The door to the regulator station building is opened with a **Best PA-3** key.

Border Custody Transfer Point

This area is about 100 yards north and slightly west of the border regulator station. From the border regulator station, there is a gravel path to the west behind the BP regulator station, then to the north to the PSE border custody transfer point. BP and Cascade Natural Gas have facilities immediately to the west of the PSE facilities. See page 16 for an aerial photograph. The chain link gate and valves are locked with padlocks that use a **PA-3** key.

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Emergency Response – Odors, leaks or line breaks

The plant is operated 7x24

If emergency calls are received at the Sumas plant phone number; upon receipt of an emergency call, plant personnel will;

- Immediately notify PSE Gas Control @ 81-4622 or (425) 882-4622
- Immediately respond to the location of the report.
- Upon arriving on site, plant personnel will call Gas Control to notify them of their arrival.
- Investigate the report to the best of their ability and notify Gas Control of their findings.
- If the situation presents a threat to life or property, they shall shut down the pipeline.
- If it is necessary to shut down the pipeline;
 - Determine if the automated equipment has shut down the pipeline.
 - If the automated equipment has not shut down the pipeline,
 - Call Gas Control to contact Spectra Energy/Westcoast Energy to shut down the pipeline.
 - Shut the pipeline down manually.
 - Do not attempt to restore service on the pipeline once it has been shut down.
- Wait for Gas Operations personnel to arrive on site and assist them as necessary.
- Contact the appropriate local emergency response personnel for assistance if needed.
- Keep unauthorized personnel an appropriate distance away from the area if required.
- Provide regular updates to Gas Control.
- Notify electric operations departments and/or personnel as required.

Gas Control will

- Dispatch a Pressure Control Technician.
- Notify Gas Operations Dispatch to send GFR personnel.
- Contact Spectra Energy/Westcoast Energy to shut down the pipeline from the Canadian side if requested.
- Document all pertinent information in the Gas Controllers Log.

Gas Operations Dispatch will

- Dispatch GFR personnel as needed to assist Pressure Control.
- Start an emergency report and track response to the incident.
- Provide emergency notifications per the matrix.
- Respond to additional requests for equipment or field personnel as needed.

Pressure Control and GFR field responders will

- Investigate the odor per the appropriate Operating Standards and Field Procedures.
- Document the investigation as required.

Locate Requests / Emergency Locate Requests

If emergency locate requests are received by plant personnel they will

- Take the appropriate information from the caller.
- Instruct the caller to call 811 to make a request for locates through the one-call system.
- Call Gas Operations Dispatch at 81-4689 or 425-882-4689.

The Dispatcher will

- Dispatch the appropriate personnel to provide locates as requested.

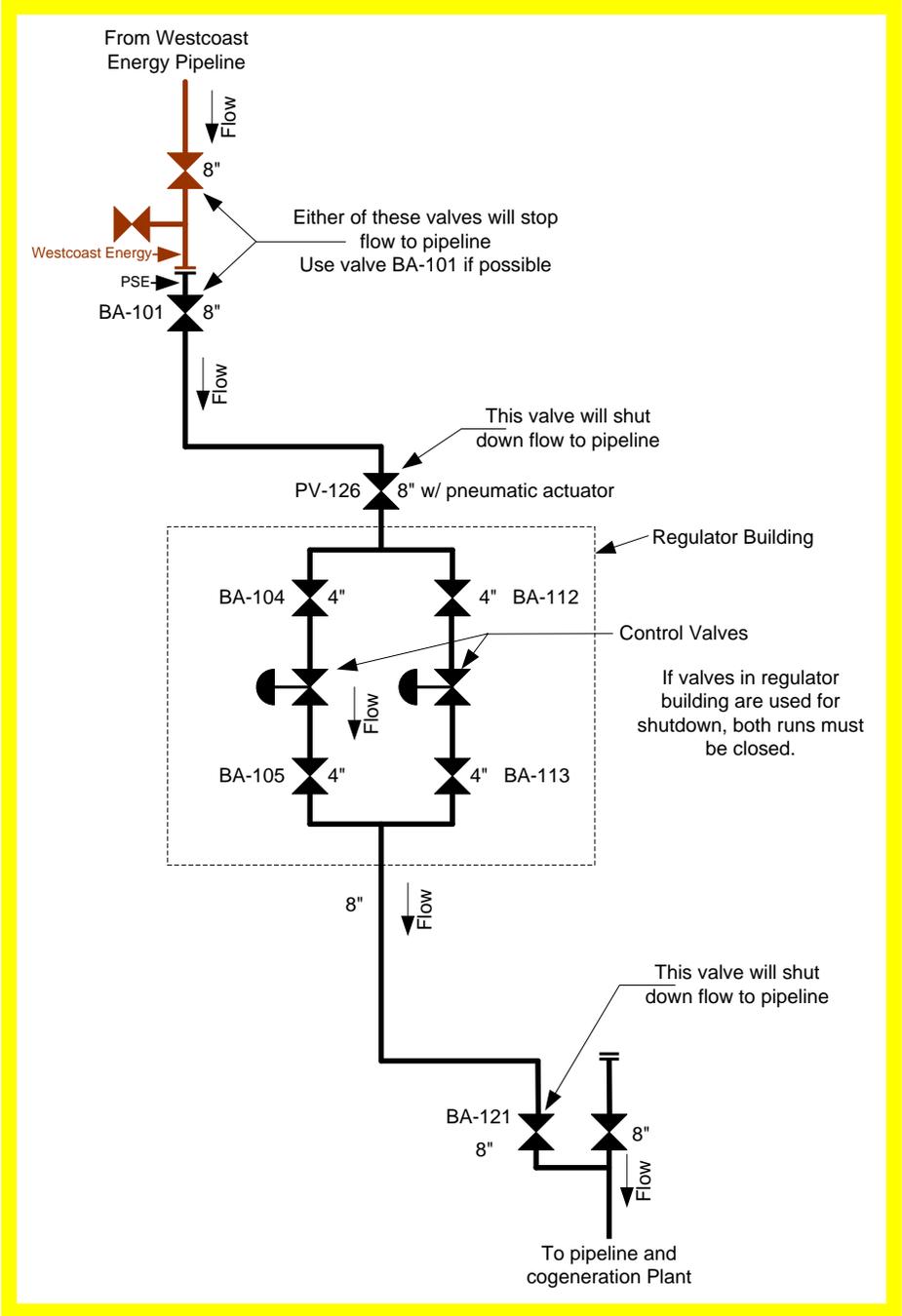
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Emergency Shutdown of Pipeline

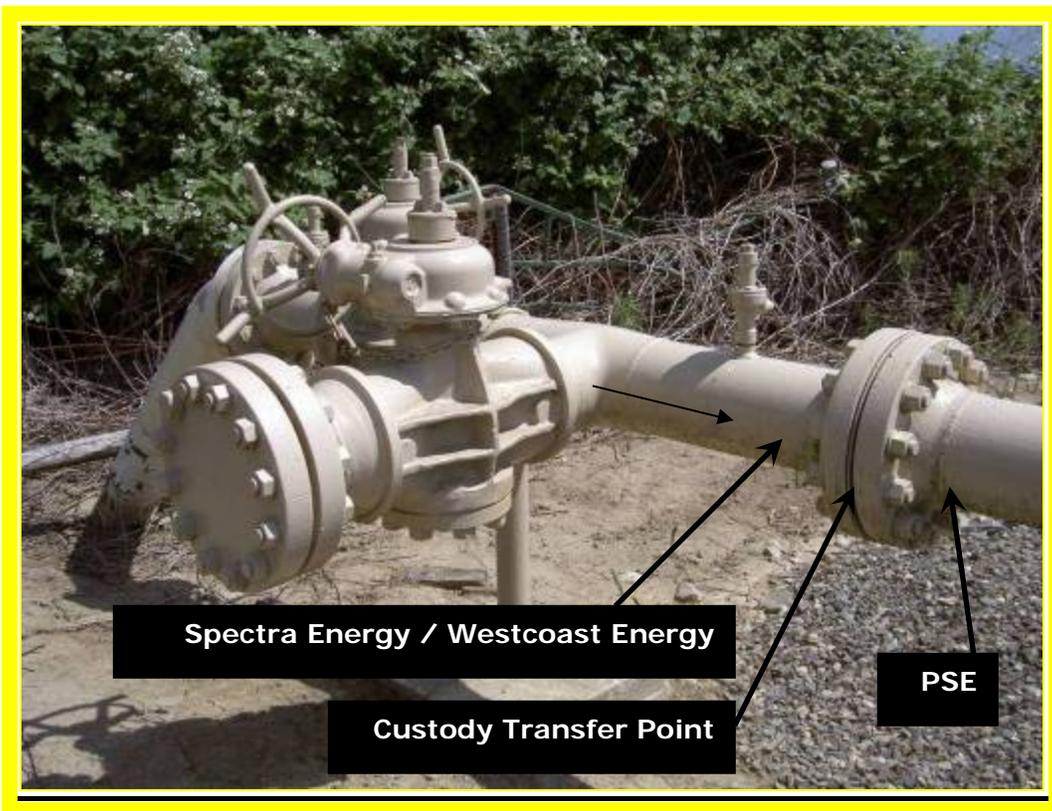
Normal operation of the border regulator station feeding the pipeline includes overpressure and underpressure protection. In the event of overpressure or underpressure, valve PV-126 is operated automatically via the pneumatic actuator to shut down flow to the pipeline.

Should an incident occur requiring manual shutdown of the pipeline feeding the Generating Station, shutdown is most easily performed at the border station by utilizing one or more of the valves at this location.

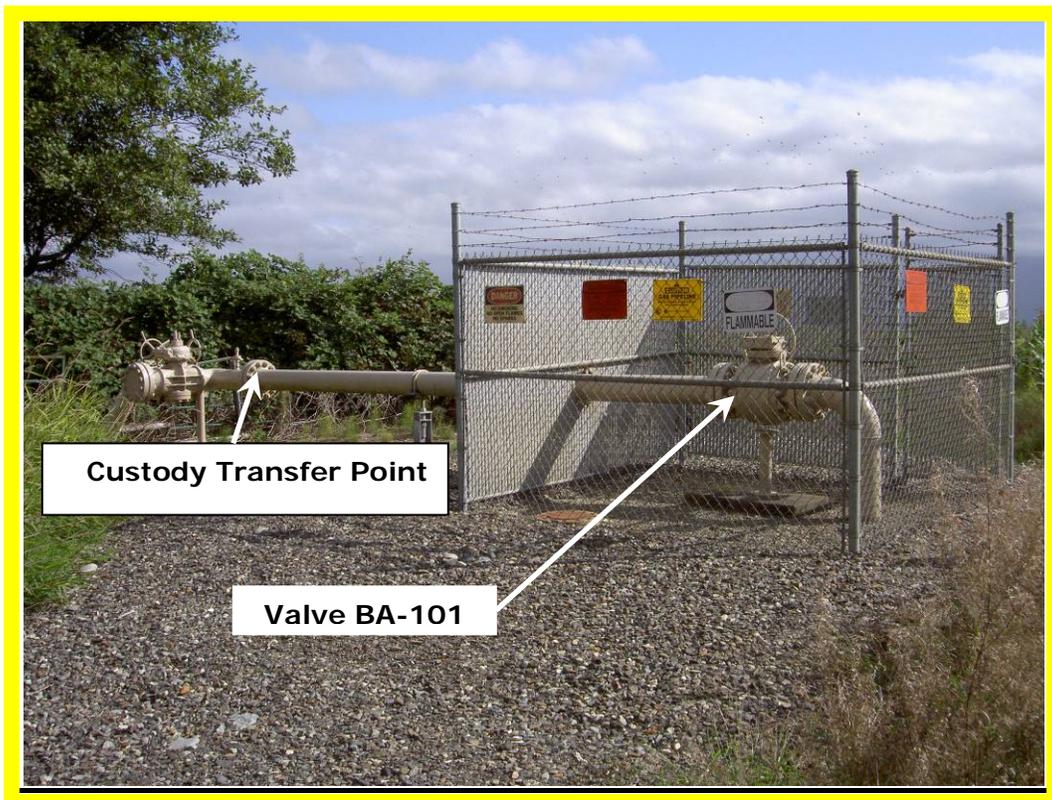
Border station schematic Not to Scale



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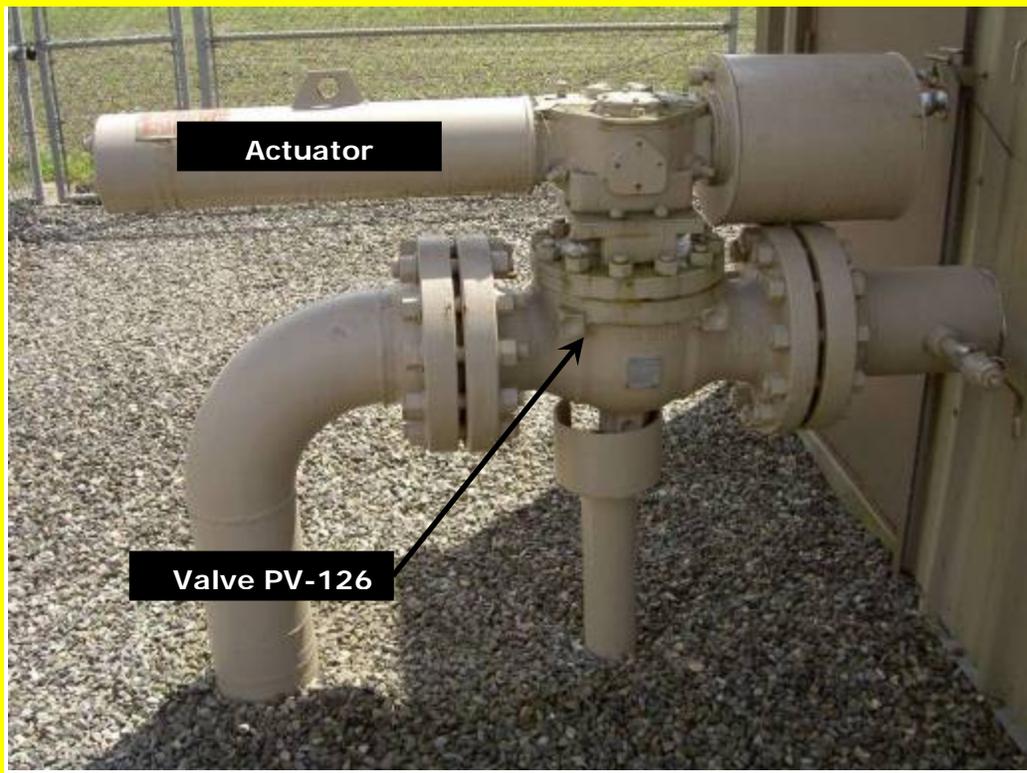


Border tie-in to Westcoast Energy pipeline – the blackberries are in Canada

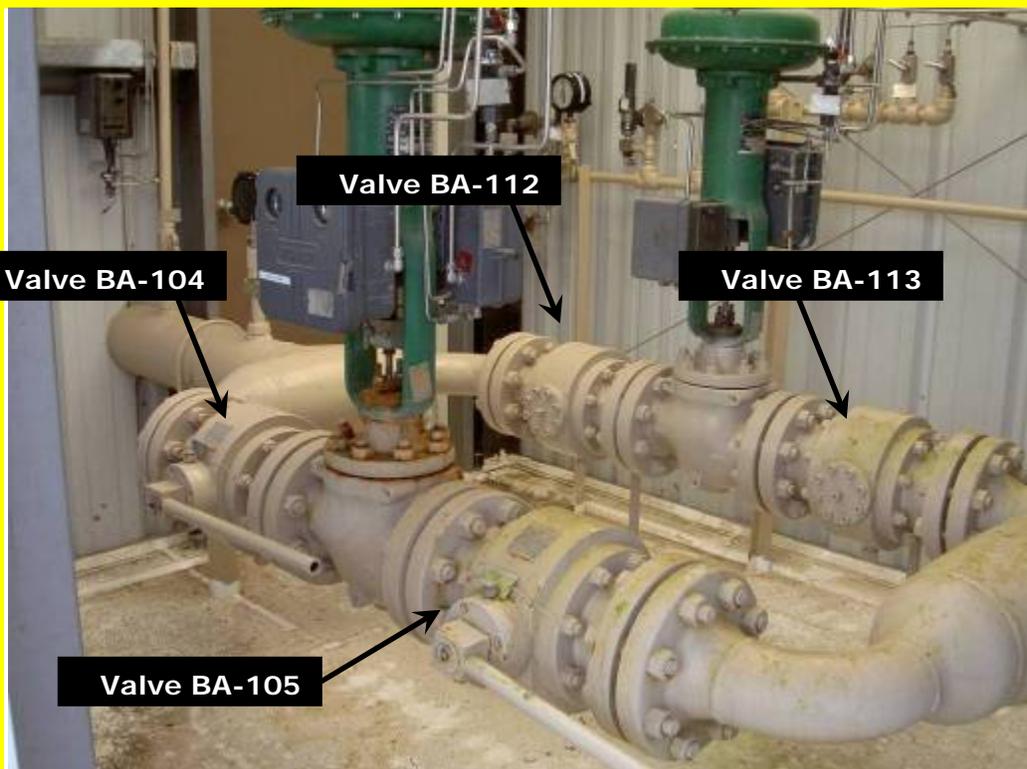


Valve BA-101 – in chain link fenced area, directly south of border tie-in to Westcoast Energy. Use PA-3 key for access and to unlock valve.

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Valve PV-126 with pneumatic actuator

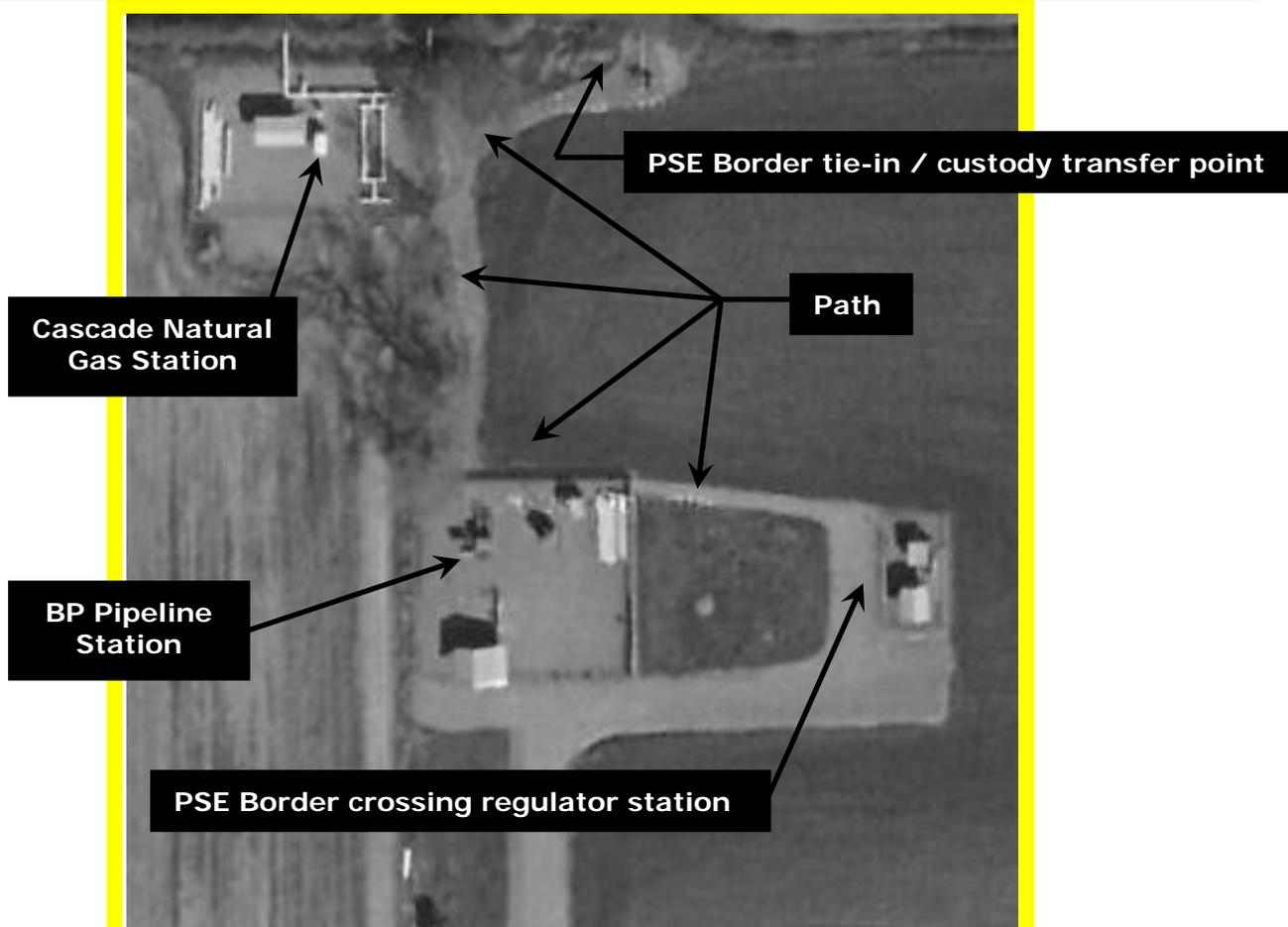


Inside border crossing regulator station – Valves BA-104 and BA-105 in near (west) run, valves BA-112 and BA-113 in far (east) run.

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Outside border crossing regulator station – Valve BA-121, blowdown, pig launcher, and beginning of pipeline to Generating Station.



Aerial photo of border crossing regulator station and border tie-in

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Maps of Distribution and Supply System

The maps for this area follow the standard numeric system, however, since they are well north of the rest of our service territory, the numbers are unusual.

See the following OP (Operations) maps:

000.074
-04.074

See the following plat maps

000.075 – Cogeneration Plant
000.076
000.077
000.078
000.079

001.075
001.076

-01.079
-02.080 – Border Regulator Station

Roles and Responsibilities of the Service Providers

Infrasource Contractors (IFS) responds to breaks at the request of PSE Gas Dispatch.

Backhoe

PSE does not maintain a backhoe at the Sumas facility.

In the case of an emergency where a backhoe is required on site Infrasource Contractors (IFS) will be notified by Gas Operations Dispatch.

Material

PSE maintains materials at the Sumas Generating Station, which will be used as needed in case of a gas emergency (see Material and Tool List Available at the Facility, page #).

1. Materials and Equipment Available at the Generating Station Site

- Hand and Power Tools
- Radios
- Oxygen, Lower Explosive Limit (LEL), and Hydrocarbon Monitors
- Assorted First-Aid, Safety, and Personal Protective Equipment

2. Materials and Equipment Available at the Border Tie-in Station

200' 8" Pretested Straight Pipe (40' length & 1,200 psi)

3. Materials and Equipment Available from IFS Contractors Inc.,

Pickups, Trucks, and Trailers

Dozers and Loaders

Dozers, loaders, sideboom

Cranes and Excavators

Backhoes, excavators, cranes, trenchers, backhoes with pavement breakers

Welding and Tapping Equipment

Arc and gas welding equipment, tapping machines, beveling machines, fusion equipment

Air Equipment

Compressors, pavement breakers, impact tools, tampers.

Miscellaneous Boring Equipment and Rock Saws

Hole hogs, moles, directional drilling equipment, rock/concrete saws.

Compactors and Rollers

Compactors and rollers

Manhole and Trench Shields

Shoring, plates, mud mats

Miscellaneous Equipment and Tools

Generators, lights, pumps, pipe threaders, heaters, hoists, jacks, holiday detectors, pipe benders

Additional Equipment and Tools

Lineup clamps, barricades, traffic cones, saws, drills

Toledo

EMERGENCY RESPONSE PLAN

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EMERGENCY RESPONSE PLAN

Toledo

How Toledo will be served

Regular business hours:

During regular business hours we will utilize employees who are working in Toledo. This could include Gas First Response, SC&P, or Infrasource Contractors (IFS) personnel.

After Hours:

We have identified those gas employees that live in close proximity to Toledo. Outside of normal business hours Dispatch will first contact the GFR staff that live near Toledo. If that fails, Dispatch will move the closest GFR personnel to the problem per the Standard Call-Out process. In the case where GFR personnel are unavailable, Dispatch will contact SC&P staff trained for First Response.

Floods:

Lewis County has had numerous 100-year floods in past years; this area is prone to flooding. This area may be closed to any traffic except for emergency vehicles and local traffic. In the past I-5 has been shut down. During flooding, the best way to get there may be through Littlerock or Bucoda. The City of Centralia and Chehalis as well as Lewis Co. has historically informed PSE of any wash outs or any other problems we may need to be aware of. PSE may need to isolate areas of the gas system during flooding.

Alternative Access:

If access by conventional means is unavailable, you may be able to deliver personnel and materials to the Winlock area by helicopter. The System Manager (81-4681), (425)882-4681 or (800)383-1759 on duty should be called to arrange helicopter support.

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PSE STAFF WHO WORK IN TOLEDO

PSE STAFF WHO LIVE NEAR TOLEDO

Travis Beirsto Gas

504 "M" St

Centralia, WA 98531

Home phone: (360) 807-6491

Cell Phone: (253) 405-7353

Pager: (360) 971-8119

Keith Raines (Gas)

225 N King St

Centralia, WA 98531

Home: 360-736-3500

Pager: 253-291-1045

Cell: 253-377-7035

Chad Chartrey Gas GFR Supervisor, Olympia Office

9327 Del Phi Road SW

Olympia, WA 98579

Home phone: (360) 753-2359

Cell phone: (253) 261-1276

Pager: (206) 560-0915

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DIRECTIONS (From Olympia)

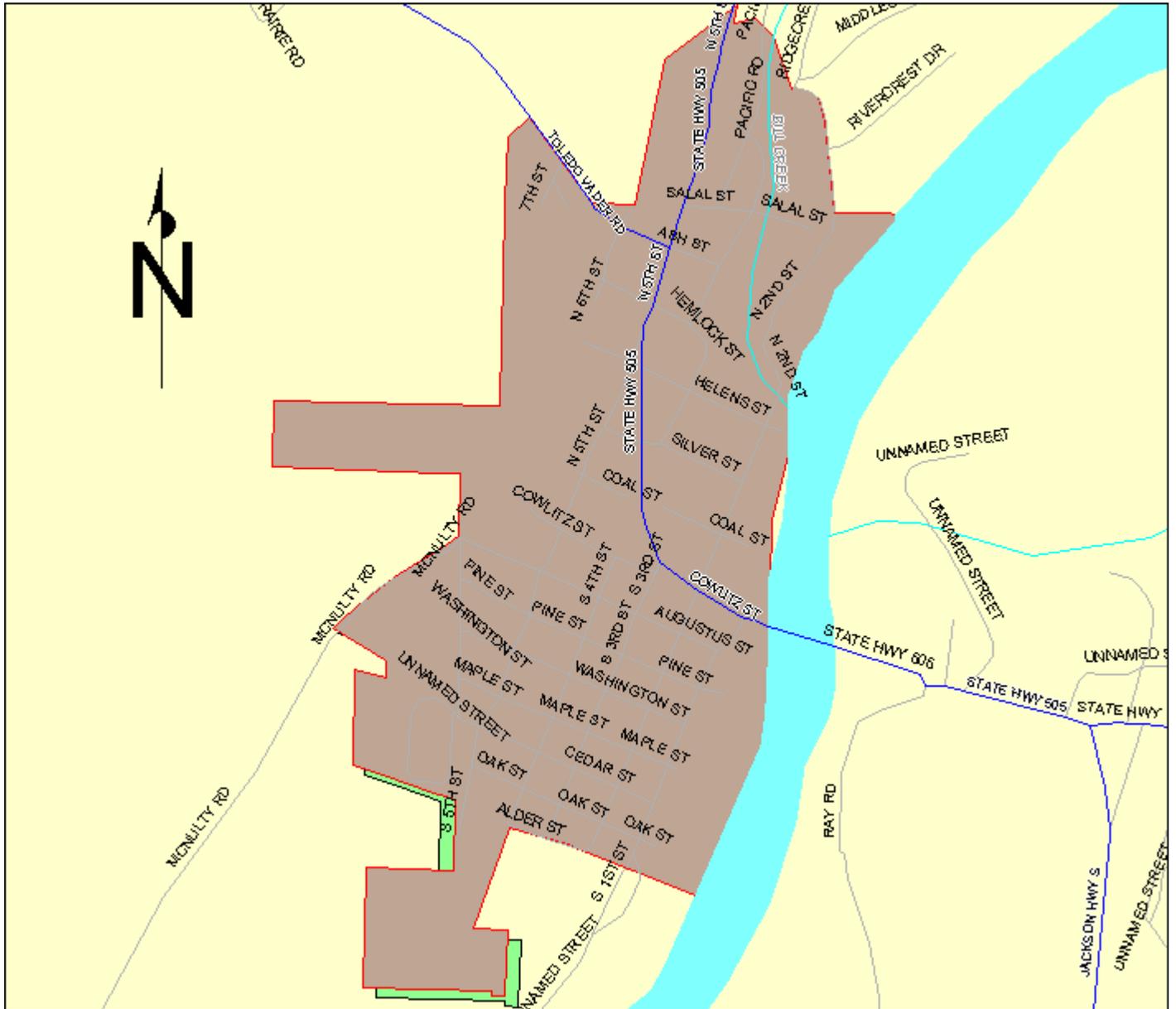
1. Start out going East on PACIFIC AVE SE toward DEVOE ST SE 0.45 miles
2. Merge onto I-5 S toward PORTLAND. 43.69 Miles
3. Take the WA-505 exit- exit number 63- toward WINLOCK/ TOLEDO. 0.30 miles
4. Turn LEFT onto WA-505. 3.84 miles. Turn LEFT onto N 2ND ST. 0.06 miles
5. Turn RIGHT onto COAL ST. 0.02 miles

Total Estimated Driving Time from Olympia: 54 minutes
Total Distance: 48.36 miles

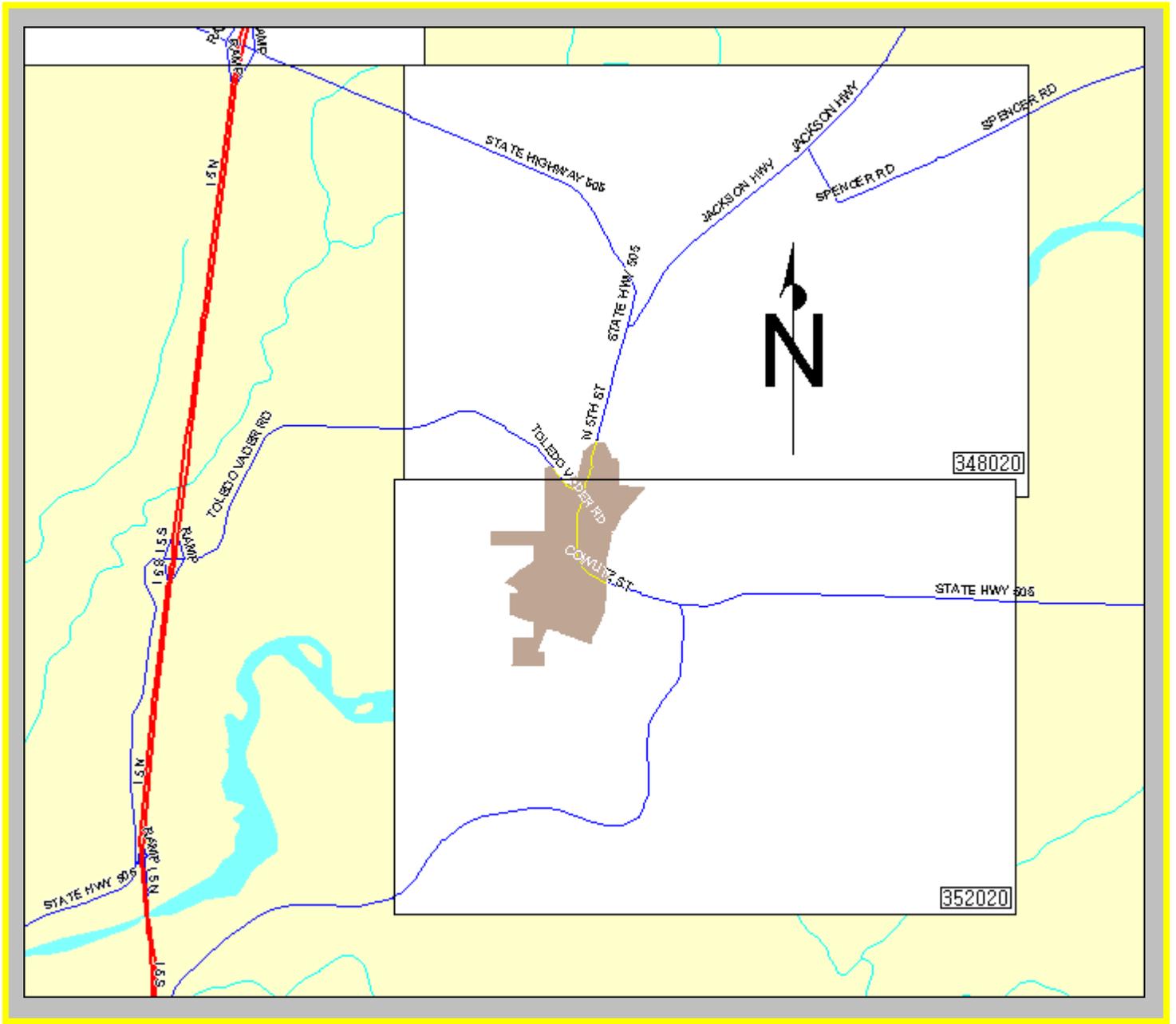


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CITY MAP

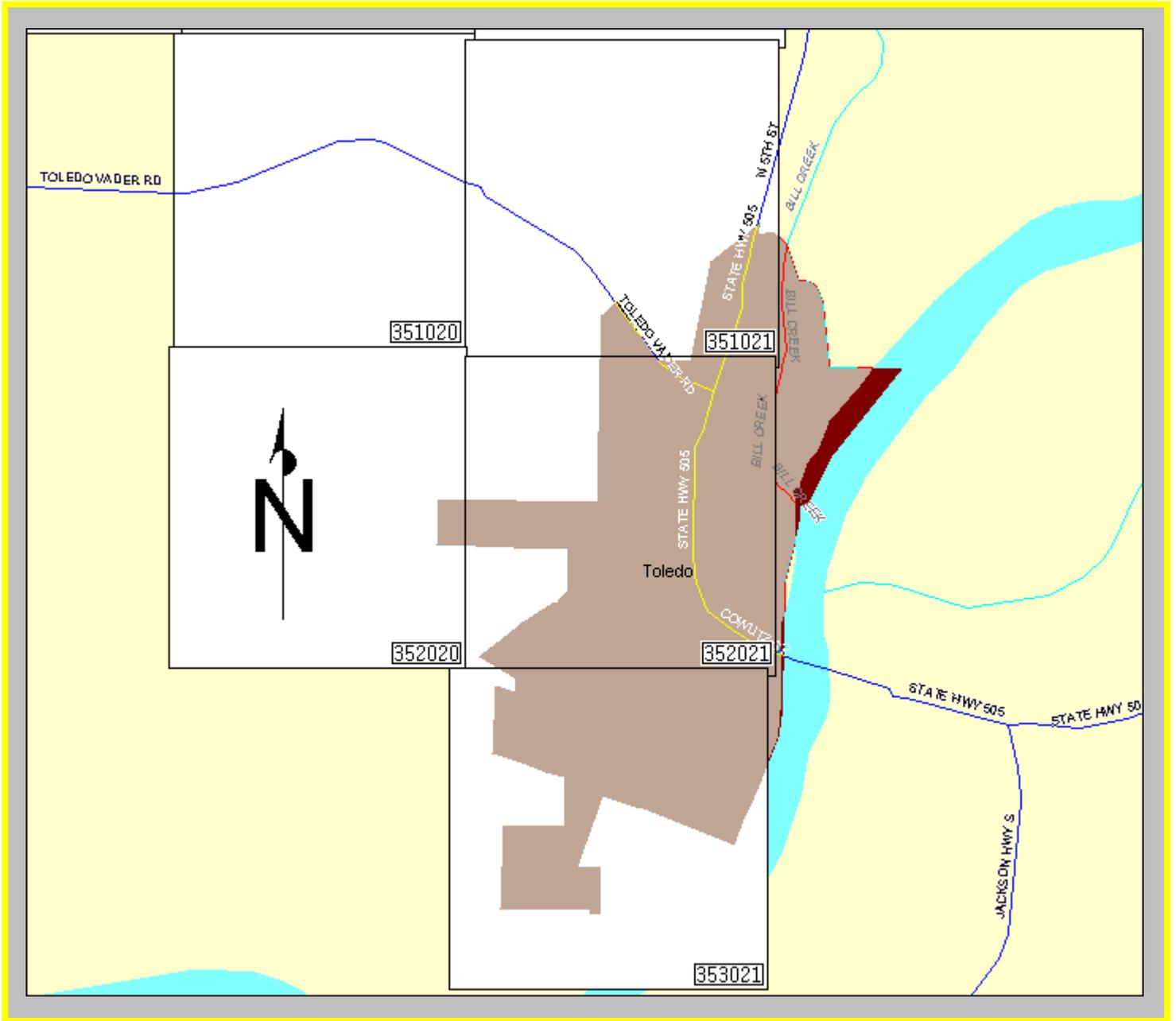


OPERATIONS MAP KEY



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PLAT MAP KEY



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ROLES AND RESPONSIBILITIES OF THE SERVICE PROVIDERS

Infrasource Contractors (IFS) performs the installation of new customer construction on both residential and commercial gas services. They perform gas system upgrades and replacements, as well as, gas system operation and maintenance. In addition, Infrasource Contractors (IFS) responds to breaks at the request of PSE Gas Dispatch.

Vashon Island EMERGENCY RESPONSE PLAN

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EMERGENCY RESPONSE PLAN

Vashon Island

How Vashon will be served

Regular business hours:

During regular business hours we will utilize employees who are working on the Island. This could include Gas First Response personnel, SC&P, or Infrasource Contractors (IFS)

Personnel assigned to work on the island on a day to day basis will notify dispatch when they arrive on and leave the island.

After Hours:

PSE has one Electric employee who lives on the Island. PSE has also identified those gas employees that live near the ferry terminals at Fauntleroy, Southworth and Tacoma. Outside of normal business hours we will contact the Gas First Response employees living closest to the ferry terminals. If this fails, we will dispatch the First Responders per the standard callout process that moves the closest GFR personnel to the event.

Ferry Service after Hours:

If ferry service is needed outside the normal service hours, you can contact the System Manager at 81-4681, (425)882-4681 or (800)383-1759. They have set up an arrangement with the Washington Ferry System to take PSE vehicles to the Island in case of emergencies (see After Hours Ferry Procedure page).

Alternative Access:

If access by conventional means is unavailable, you may be able to deliver personnel and materials to Vashon Island area by helicopter. The System Manager at 81-4681, (425) 882-4681 or (800) 383-1759 on duty should be called to arrange helicopter support.

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PSE STAFF WHO RESIDE ON THE ISLAND

Mark Churchman

PSE Cell 360-271-1103

Wes Peterson

17825 Beall Road Sw

Vashon, WA 98070

PSE Cell 206-920-2099

PSE STAFF WHO WORK ON THE ISLAND

Mark Churchman

PSE Cell 360-271-1103

Wes Peterson

17825 Beall Road Sw

Vashon, WA 98070

PSE Cell 206-920-2099

Patricia McClements (Supv. Community Services – Vashon)

5001 57th Ave. Ct. W.

University Place, WA 98467

Home phone: (253) 566-6994

Verizon phone: (206) 276-3083

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PSE STAFF WHO LIVE NEAR A FERRY TERMINAL

Faultleroy

Georgetown/SKC personnel close to the **Faultleroy Ferry Terminal:**

Ron Swenson	1st Response CFS	4729 25 AV SW
Jed Doyle	1st Response CFS	12639 Desmoines Memorial Dr S
Brandon Severson	GFR Supervisor	1317 S 251 st Ct, Des Moines

Southworth

Doug Sullivan	System Technician	8205 145 ST NW
Tom Cowdery	System Technician	306 S. Charlotte AV

Tacoma - Tahlaquah (Pt. Defiance)

Steve Engler	System Technician	3215 45 Ave NE
Dave Pearson	Pressure Control	1118 N Washington St
Corey Scheuffele	1st Response CFS	5406 Orca Dr NE

PSE STAFF WHO LIVE IN KITSAP COUNTY WITHIN DRIVING DISTANCE TO VASHON

Robert McLeod	1st Response CFS	4242 Andasio loop SE
Kevin Silvernale	1st Response CFS	4927 Glenwood Rd SW
Marcus Toledo	1st Response CFS	3824 Chum Lane NW

FACILITIES

Puget Sound Energy's Vashon Service Center office is located just south of the town of Vashon on the main Highway.

Address

18125 Vashon Highway

The building site sits back off the highway about 100 yards and is somewhat secluded.

Map and Driving Directions to Facility

The facility is located at 18125 Vashon Highway (see page 7 for layout of Vashon facility).

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The building sets back off the highway about 100 yards and is hard to see from the road.

You will need an authorized security access card to enter the facility.

Hours of Operation

The Vashon Service Center hours of operation are between 9:00 a.m. to 4:00 p.m., Monday through Friday. The service center is closed on all company recognized holidays.

Gate Access

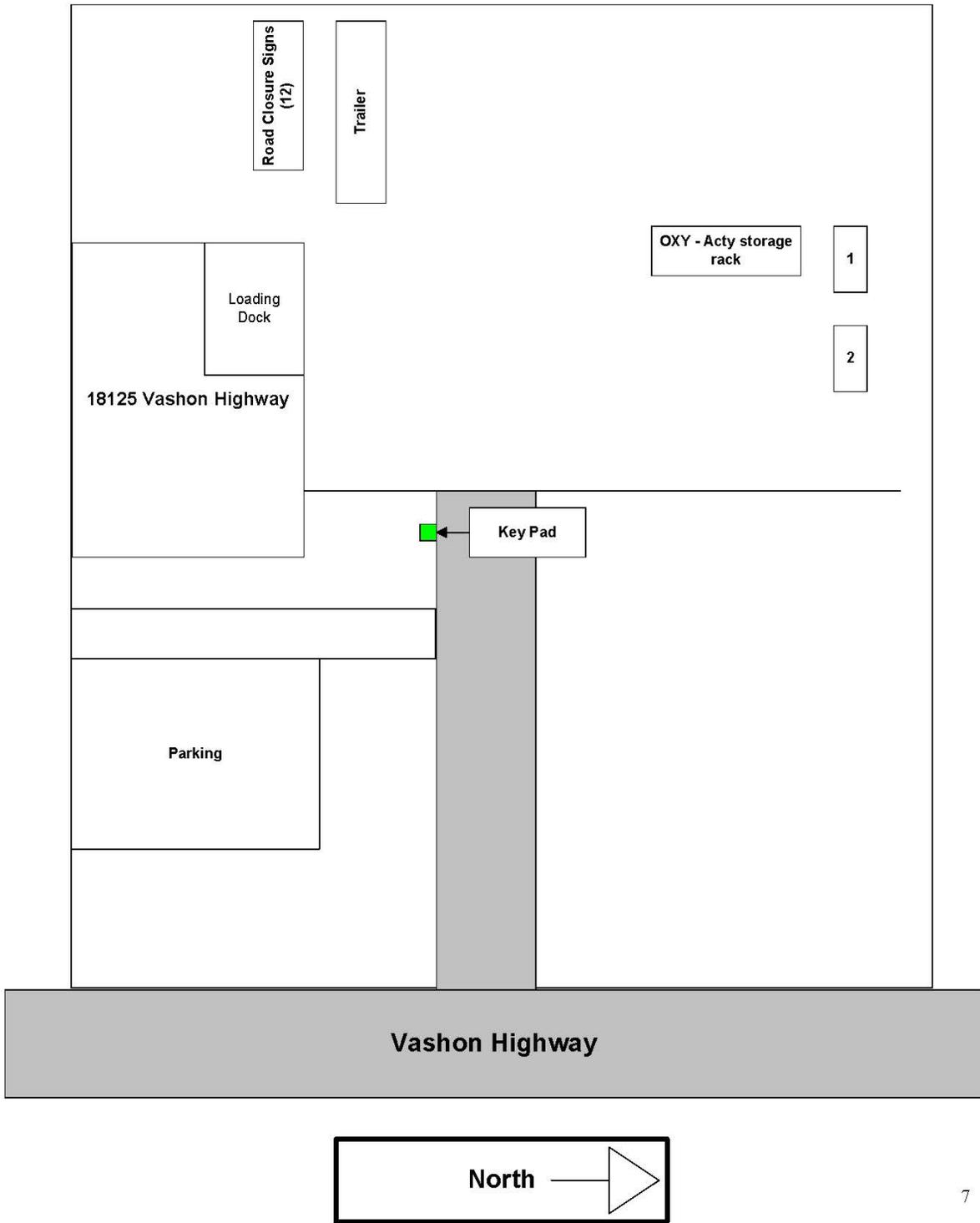
The gate for facility access is key card controlled. The card reader pedestal is on the left-hand side of gate entrance. To open gate personnel must have an authorized security access card. All First Response personnel that may be called upon for response to the Island have received the necessary key card clearance.

Material

We will maintain a trailer at our Vashon facility, which will be used to carry materials needed in case of a gas emergency (see Material and Tool List Available at the Facility, page 14).

During emergencies this trailer will be picked up by the first PSE employee to respond, which may not necessarily be a gas employee.

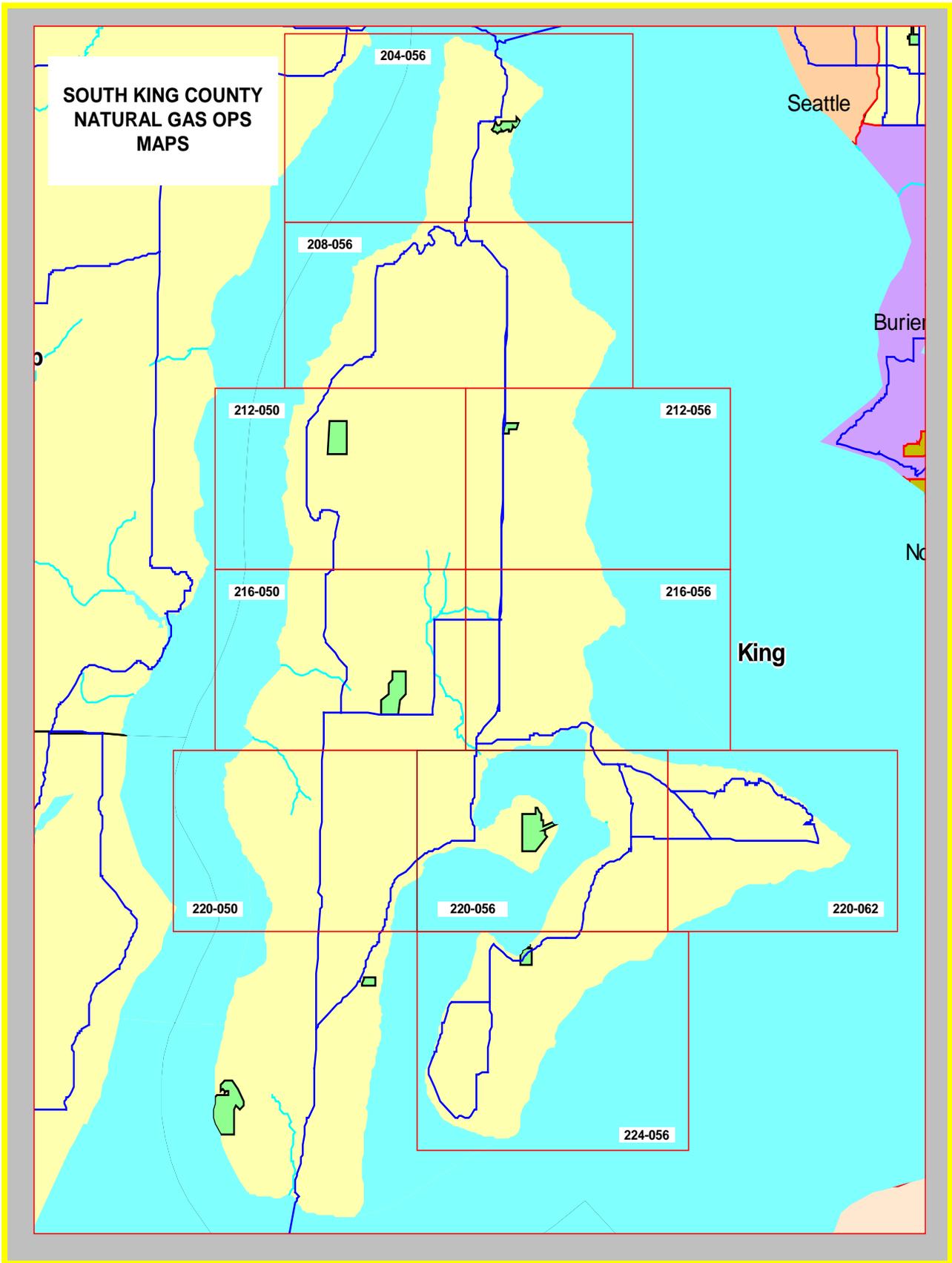
PUGET SOUND ENERGY'S VASHON ISLAND OFFICE



7

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7



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FERRY PROCEDURE

WASHINGTON STATE FERRY SYSTEM (WSF)

Adopted 12-22-98

Current information: www.wsdot.wa.gov/ferries/schedules/current

Reviewed 06/02/06

PRIORITY LOADING PROCEDURE - GAS EMERGENCY

This procedure addresses gas emergencies only.

There are no hard and fast rules relating to who qualifies for priority loading of utility vehicles on ferry routes. The WSF Operations Watch Supervisor is the key contact person to arrange priority loading and will make the ultimate decision whether or not to approve such a request.

In order to reduce the possibility for abusing the system for personal benefit, the Operations Watch Supervisor will only accept loading requests from PSE's Gas Operations Dispatchers. Employees will not be able to arrange their own priority loading with the dock attendants.

The procedures to be followed are:

- The Gas Operations Dispatcher has the responsibility to **determine if the emergency in question requires an immediate response** necessitating priority loading on a Washington State ferry.

NOTE: In general, events such as broken and blowing lines, Class A leaks, inside odors, and possible CO poisoning would meet this test. There may be other valid emergencies such as employee injuries or vehicle accidents, but these can adequately be covered by local emergency responders and probably don't require special loading of PSE personnel. The WSF Operations Watch Supervisor will rely on our Dispatchers to make proper judgments.

- If the emergency meets this test, the dispatcher shall **contact the WSF Operations Watch Supervisor. Call 206.515.3456**

- **Provide** the following **information**.

Name and contact number of Gas Operations Dispatcher calling

Type of gas emergency necessitating priority boarding

Ferry route affected

Number and type of vehicles requiring priority loading

Estimated arrival time of vehicles at terminal

- Dispatcher shall **obtain** the following **information** from the WSF Operations Watch Supervisor. **Record the information** on the Emergency Report form. **Communicate approval information** to vehicles involved.

Name of Operations Watch Supervisor

Date and time of request for priority loading

Confirmation of approval of PSE's request

- The **Operations Watch Supervisor will contact the dock attendant** at the affected terminal and communicate the information.

- **If difficulties arise** at the terminal, the dock attendant should be asked to contact the Operations Watch Supervisor. PSE's Dispatcher may also call as well to confirm the previously agreed to arrangements. In no case shall PSE employees at the dock engage in arguments regarding loading. All such difficulties, especially those resulting in a delayed response, shall be recorded on the Emergency Report form.

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DRIVING DIRECTIONS TO FERRY TERMINALS

Southworth Terminal 11564 SE State Hwy 160 Southworth, WA 98386

Coming from the South:

- Take **I-5 North**
- Take **exit 132** and proceed West on **Hwy 16** approximately 35 miles to **Hwy 160 exit**
- Take **Hwy 160 (Sedgwick road)** exit
- Turn Right onto **Hwy 160** at stop sign and proceed **approximately 7 miles to yet another stop sign**
- Turn **right**; ferry dock straight ahead.

Coming from the North:

- Take **I-5 South**
- Take the **WA-16 West/SO 38th ST exit, exit #132**, towards Gig Harbor/Bremerton.
- Keep **Right** at the fork in the ramp
- Merge onto **WA-16 W**
- Take **Mullenix Road** exit
- Turn Right **onto SE Mullenix Road**
- Turn Left onto **Olalla Valley Rd SE**
- Turn Left onto **Banner Rd SE**
- Turn Right onto **Sedgwick Rd SE/WA-160**
- Turn Right onto **SE Southworth DR/WA-160**
- Turn Left onto **Rocky RD SE**
- You're there!



Fautleroy Terminal

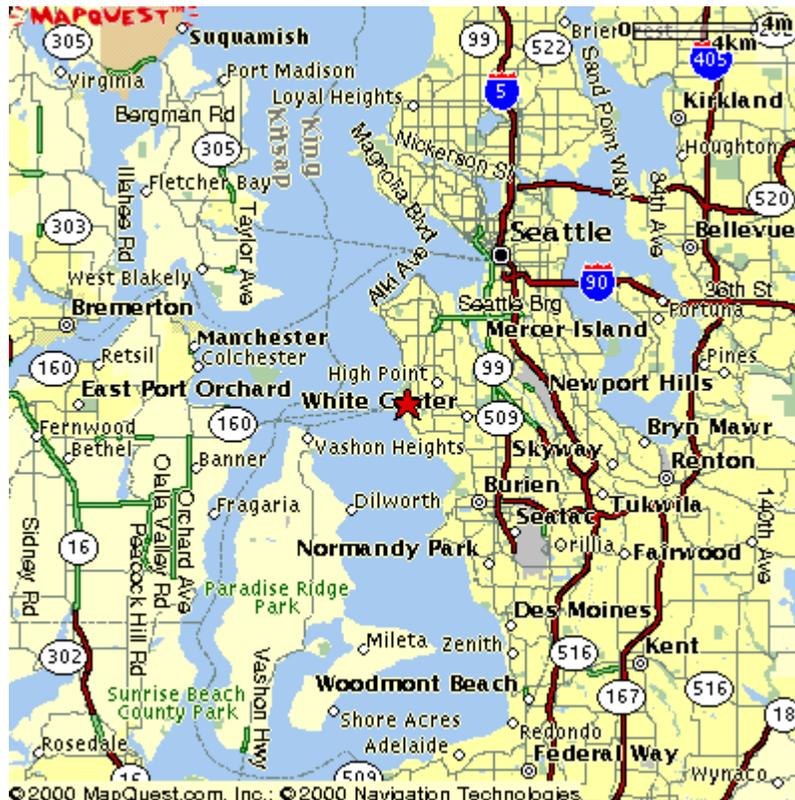
4829 SW Barton
Seattle, WA 98136

Coming from the South:

- Take **I-5 North**
- Take the **WA-599 North** exit, **exit number 156**, towards **Tukwila/W. Marginal Way**
- Merge onto **WA-599 N**
- Take **WA-99 N**
- Take the **Des Moines Dr./14th Ave SO** exit
- Keep **Right at the fork** in the ramp
- Turn Left onto **14th Ave S**
- Turn Left onto **S Cloverdale St**
- **S Cloverdale St** becomes **1st AVE S**
- Turn sight right onto **Olson PL SW**
- Turn slight Right onto **SW Roxbury St**
- Turn Right onto **35th AVE SW**
- Turn Left onto **SW Barton ST**
- Turn Left onto **California AVE SW**
- **California AVE SW** becomes **SW Brace Point DR**
- Turn slight Right onto **SW Wildwood PL**
- Turn Right onto **Fautleroy Way SW**
- Turn Left onto **SW Barton ST**

Coming from the North:

- Merge onto **I-5 S**
- Take the **W SEATTLE FWY/COLUMBIAN WAY** exit, exit number **163A**.
- Keep **RIGHT** at the fork in the ramp
- Merge onto **W SEATTLE BRIDGE**
- Stay straight to go onto **FAUTLEROY WAY SW**
- Turn **RIGHT** onto **SW BARTON**



Pt. Defiance / Tahlequah Terminal

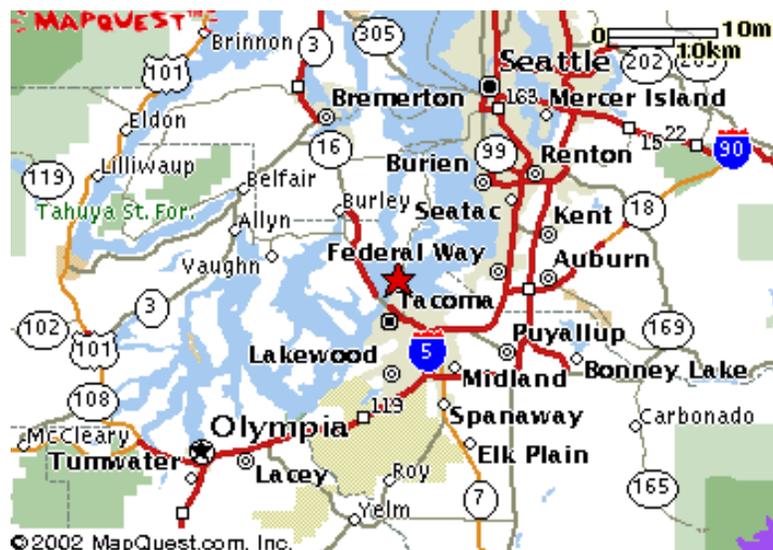
5810 N. Pearl St.
Tacoma WA 98405

Coming from the South:

- Merge onto **I-5 N**
- Take the **SO. 38 ST. exit** – exit number **132** toward **GIG HARBOR WA-16/BREMERTON**
- Take the **S 38 ST WEST** ramp toward **GIG HARBOR/WA-16 W/ BREMERTON/TACOMA MALL**
- Keep **left** at the fork in the ramp
- Merge onto **WA-16 W**
- Take the **6th AVE** exit toward **WA-163**
- Turn **LEFT** onto **6th AVE**
- Turn **RIGHT** onto **N PEARL ST**
- Stay **straight** to go onto **N PEARL ST/WA-163**

Coming from the North:

- Merge onto **I-5 S.**
- Take the **WA-16 W/SO. 38 ST. exit-** exit number **132-** towards **GIG HARBOR/BREMERTON**
- Keep **RIGHT** at the fork in the ramp
- Merge onto **WA-16 W**
- Take the **6th AVE** exit toward **WA-163**
- Turn **LEFT** onto **6th AVE**
- Turn **RIGHT** onto **N PEARL ST**
- Stay straight to go onto **N PEARL ST/WA-163**



ROLES AND RESPONSIBILITIES OF THE SERVICE PROVIDERS

Infrasource Contractors (IFS) performs the installation of new customer construction on both residential and commercial gas services. They perform gas system upgrades and replacements, as well as, gas system operation and maintenance. In addition, Infrasource Contractors (IFS) responds to breaks at the request of PSE Gas Dispatch.

Infrasource Contractors (IFS) notifies Gas Dispatch when they get on the ferry going to the island and again when they are leaving the island.

MATERIAL AND TOOL LIST AVAILABLE AT THE FACILITY

Vashon Reserve Emergency Supply Parts and Equipment

Weld Equipment

Oxy/acetylene - Two bottles each of oxygen and acetylene will be stored at the facility. If additional Oxy. Act. Is needed it can be obtained from **Kevin Leonard @ Island Hardware Store**
(206) 463 -5000 ext. 13

Equipment store on the trailer at PSE's facility

Squeeze Tools:

4" and 6" PE Squeeze Machines and Hydraulic pump
Small steel squeeze machine
Large steel squeeze machine

Valve keys:

One standard
One long (8' or better)

Leak Clamps:

Full circle clamps - 2" by 12" long - two
Full circle clamps - 4" by 12" long - two
Full circle clamps - 6" by 12" long - two

Band clamps - ½", ¾", 1", 1 ¼", 2", 4" and 6"

Shoring:

Two 24" spreaders and two - 4 X 4' sheets of board
12' ladder

Incidental equipment:

Wood plugs - variety of sizes
Environmental Packs (two)
Fire Extinguisher

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AGREEMENT BETWEEN PSE AND VASHON FIRE DEPARTMENT

PSE Operations personnel initially met with the Vashon Fire department on December 17, 2001. As a result, the guidelines below were agreed to by both the Vashon Fire Department (VFD) and Puget Sound Energy.

Since that time, PSE has provided Emergency Responder Training every couple of years at the VFD Training facility. In addition, VFD personnel are invited to attend the same program at our PSE training sites in Tacoma and Georgetown annually. Also, our PI Inspector for Vashon visits the VFD facility occasionally throughout the year.

Response Coordination is discussed at each of these training sessions and meetings.

PSE Operations

➤ **Communication with the Beachcomber**

PSE is communicating with the Beachcomber and will continue to stay in touch with them.

➤ **Emergency Center**

PSE will participate with the Vashon Fire Department regarding Emergency Center Operations. PSE's contact is **John Spellman, Manager Operations Continuity, 425-503-3172**

➤ **Open House**

PSE will participate in the Fire Department Open House. Our contact for this is either **Dave Brodie, 425-882-4635** or **Dave Lagerquist, 253-405-2923**

➤ **Natural Gas Training**

PSE provides natural gas emergency training, our contact is: **Dennis Smedsrud, Community Affairs Program Manager, 425-462-3324**

➤ **Road Closed Signs:**

PSE has 12 plastic barricades at our Vashon Facility, located next to the Oxygen/ Acetylene storage rack (see attached diagram).

The Fire Department can gain access by using the Knox box.

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➤ **Direct Communication With Dispatch**

Our dispatch numbers are:

ELECTRIC-

Fire and police hit line for direct access to Electric Dispatch

1-800-208-7015

1-425-882-4435 - Use this number to gain record information

GAS

Fire & Police hot line for direct access to Gas Dispatch

1-800-552-7171

1-425-882-4689

Use this number to gain record information from Gas Dispatch

425-882-4690

➤ **Vashon Response Time**

PSE's goal is to meet or exceed the 55-minute SQI (Service Quality Index) agreed to with the WUTC.

➤ **Annual Valve Surveys**

PSE's Gas First Response PI (Public Improvement) Inspector will meet with the Vashon Fire Department annually. They will provide an updated service valve list and review the completed service valve survey results with the chief and his staff.

➤ **Tools & Material**

We will review the number of valve keys and wooden plugs they presently are equipped with, re-supply where needed.

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Winlock

EMERGENCY RESPONSE PLAN

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EMERGENCY RESPONSE PLAN

Winlock

How Winlock will be served

Regular business hours:

During regular business hours we will utilize employees who are working in Winlock. This could include Gas First Response, SC&P, or Pilchuck personnel.

After Hours:

Puget Sound Energy has identified those gas employees that live in close proximity to Winlock. Dispatch will first contact the GFR staff that live near Winlock. If that fails, Dispatch will move the closest GFR personnel to the problem per the Standard Call-Out process. In the case were GFR personnel is unavailable, Dispatch will contact SC&P staff trained for First Response.

Floods:

Lewis County has had numerous 100-year floods in the past several years; this area is prone to flooding. This area may be closed to any traffic except for emergency vehicles and local traffic. In the past I-5 has been shut down. During flooding, the best way to get there may be through Littlerock or Bucoda. The City of Centralia and Chehalis as well as Lewis Co. has historically informed PSE of any wash outs or any other problems we may need to be aware of. PSE may need to isolate areas of the gas system during flooding.

Alternative Access:

If access by conventional means is unavailable, you may be able to deliver personnel and materials to the Winlock area by helicopter. The System Manager [\(81-4681\)](tel:(81-4681)), [\(425\)882-4681](tel:(425)882-4681) or [\(800\)383-1759](tel:(800)383-1759) on duty should be called to arrange helicopter support.

PSE STAFF WHO WORK IN WINLOCK.

PSE STAFF WHO LIVE NEAR WINLOCK

Travis Beirsto Gas
504 "M" St
Centralia, WA 98531
Home phone: (360) 807-6491
Cell Phone: (253) 405-7353
Pager: (360) 971-8119

Keith Raines Gas
225 N King St
Centralia, WA 98531
Home: 360-736-3500
Pager: 253-291-1045
Cell: 253-377-7035

Chad Chartrey Gas GFR Supervisor, Olympia Office
9327 Del Phi Road SW
Olympia, WA 98579
Home phone: (360) 753-2359
Cell phone: (253) 261-1276
Pager: (206) 560-0915

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Directions (From Olympia)

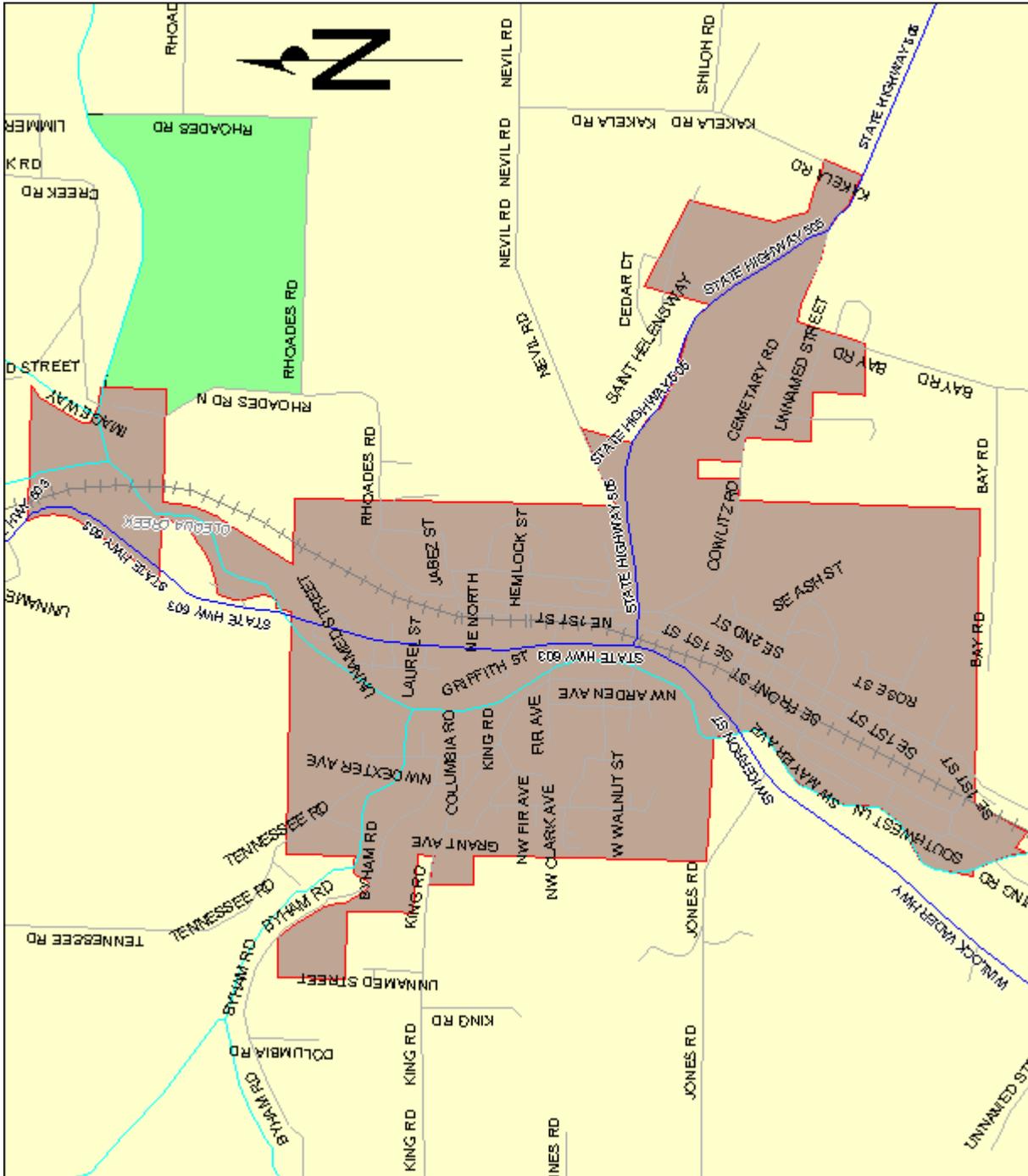
1. Merge onto I-5 S toward PORTLAND. 29.24 miles
2. Take the WA-6 exit- exit number 77- toward RAYMOND/ PE ELL 0.24 miles
3. Turn LEFT onto MAIN ST W/ WA-6. Continue to follow MAIN ST W. 0.75 miles
4. Turn RIGHT onto S MARKET BLVD. 0.04 miles

Total Estimated Driving Time from Olympia: 32 minutes
Total Distance: 30.71 miles

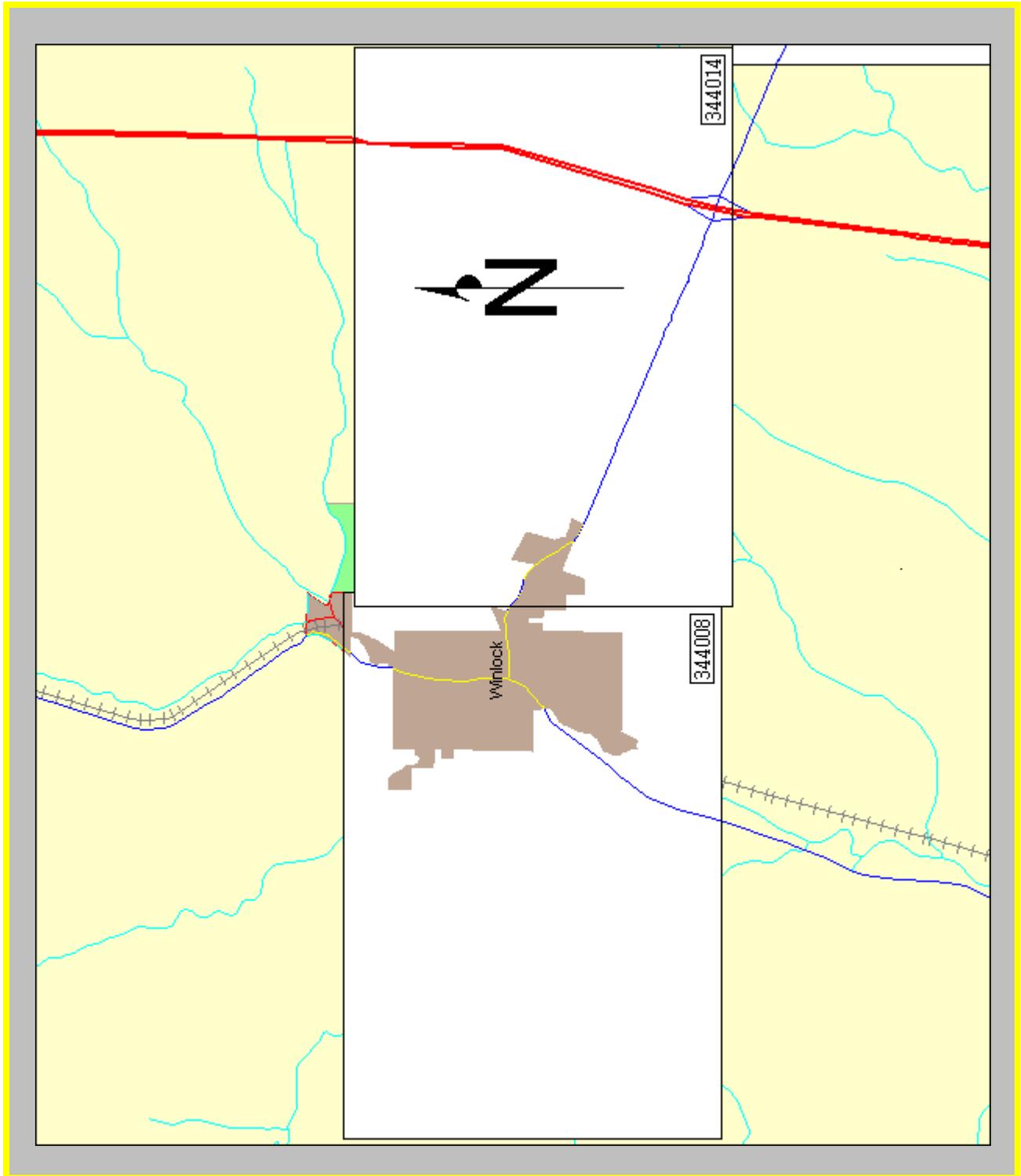


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CITY MAP Winlock

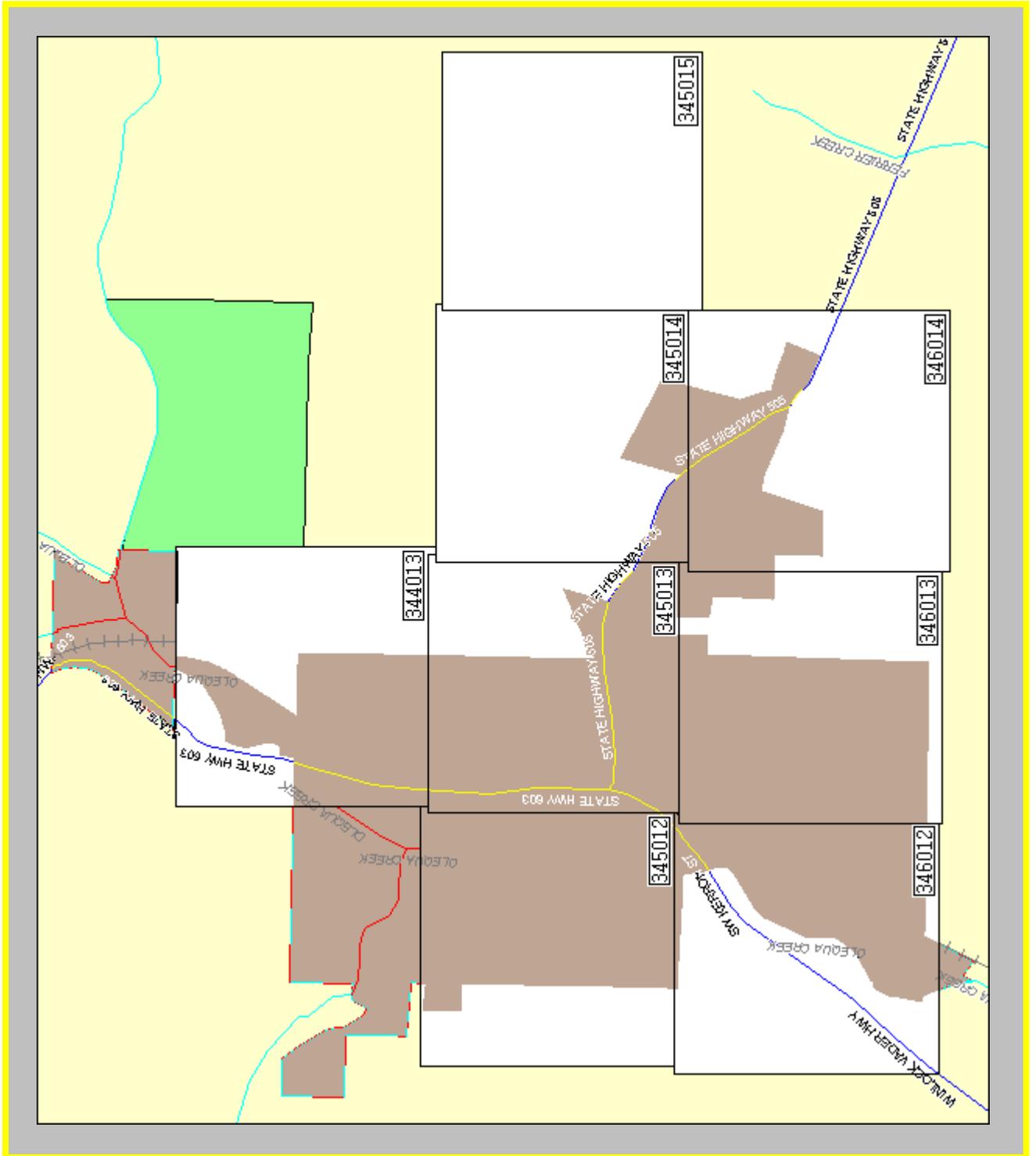


OPERATIONS MAP KEY



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PLAT MAP KEY



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