EXH. JPH-15 DOCKETS UE-240004/UG-240005 2024 PSE GENERAL RATE CASE WITNESS: JAMES P. HOGAN

## BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION,

Complainant,

v.

**PUGET SOUND ENERGY,** 

Respondent.

**Docket UE-240004 Docket UG-240005** 

# FOURTEENTH EXHIBIT (NONCONFIDENTIAL) TO THE PREFILED DIRECT TESTIMONY OF

JAMES P. HOGAN

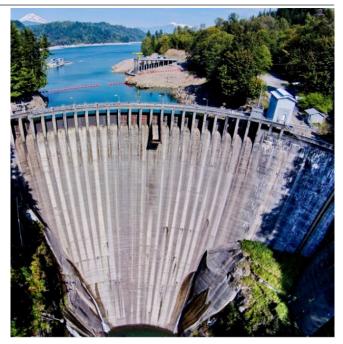
ON BEHALF OF PUGET SOUND ENERGY

# Baker River Operations Board of Consultants Meeting August 29, 2023



#### **Project Update**

- Work Platform Nearly Complete
- Test Grouting Program Nearly Complete
- Phase 2B Grouting Program
  - Continuation of Left Abutment Grouting
  - Riser Pipe Installation on Right Abutment
  - Preparing for MPSP Installation
  - Instrumentation Monitoring





Baker River Operations - BOC Meeting

# Project Schedule

Phase	Duration (weeks)	Start	End	% Complete
1A, Preconstruction Submittals	14	11/01/21	02/04/22	100
1B, Mobilization & Site Preparation (clearing & grubbing)	18	02/07/22	06/08/22	100
2A, Work Access Construction  Diversion Tunnel Plug – 100% Complete  Woody Debris Reshaping – 100% Complete  Right Abutment Seepage Seal – 100% complete  Temporary Work Platform Installation – 100% complete  Drill/Grout Test Program – 99% complete	60	06/09/22	08/11/23	100
2B, Drill/Grout Abutments & Foundations	69	08/14/23	12/13/24	2%
C, Work Access Removal     Remove Temporary Work Platform	22	12/16/24	05/02/25	n/a
3, Site Restoration	9	05/05/25	08/01/25	n/a
Total	192			



#### **Work Platform and Work Access Pad**



Work Access Pad (Left Abutment)

- Completed in June 2023
- Used for Test Grouting Program

#### Work Platform

- Primary structure (brackets, guide frames, deck support) complete
- Remaining items to complete:
  - **Grout Hole Collars**
  - Guide Pipe Turnbuckles
  - Higher-Order Hole Sleeves
  - **Deck Waterproofing**

#### **Work Platform and Work Access Pad**







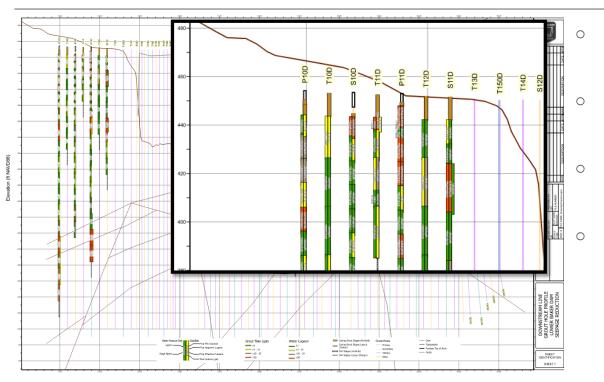
#### **Work Platform – Static Load Test**





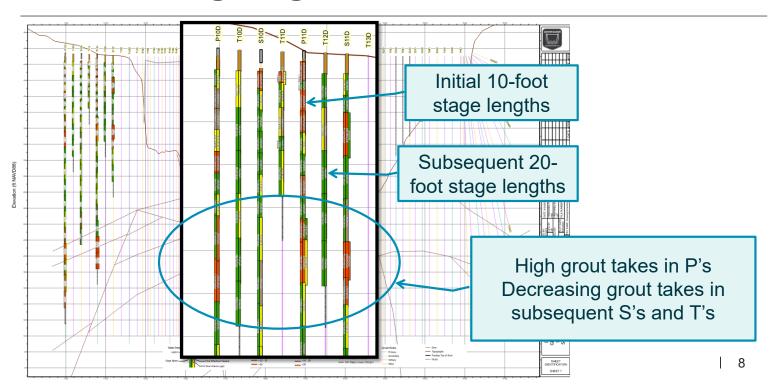


#### **Test Grouting Program – Left Abutment**

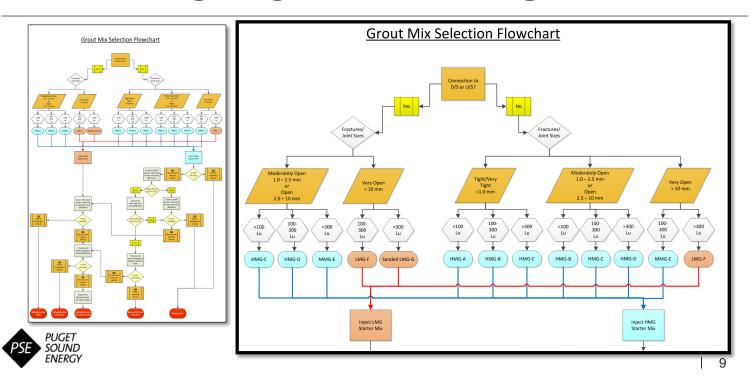


- Began mid-June with downstream holes: P10D, S10D, P11D
- Added T10D, T11D,
   T12D, and S11D July
   2023
- Added P10U, S10U,
   P11U, S11U August
   2023
- 10-foot P/S/T spacing

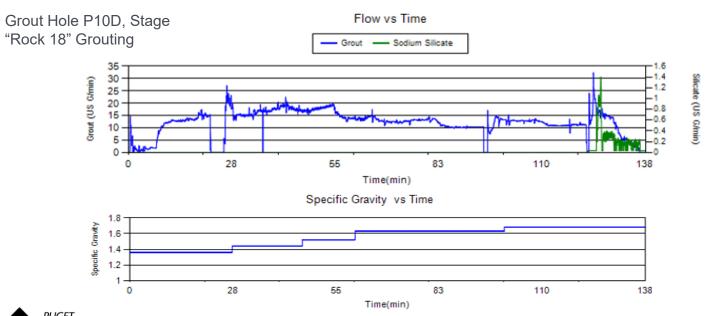
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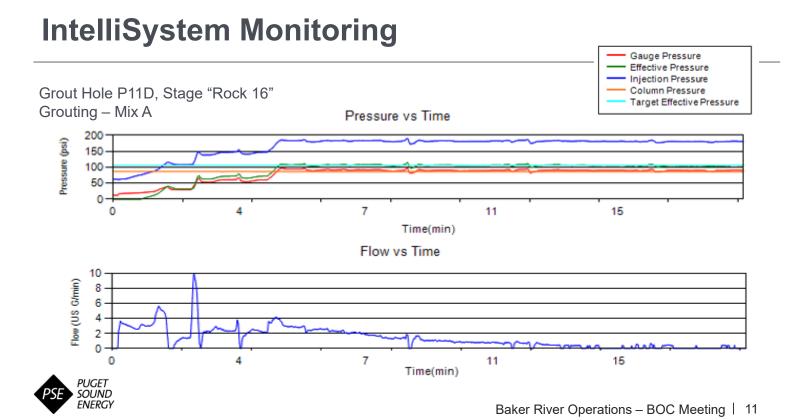


#### **Test Grouting Program – Grout Progression**



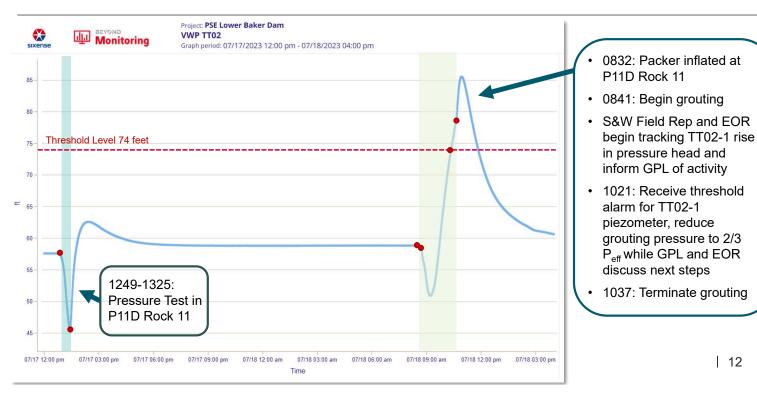
#### **Test Grouting Program – Grout Progression**



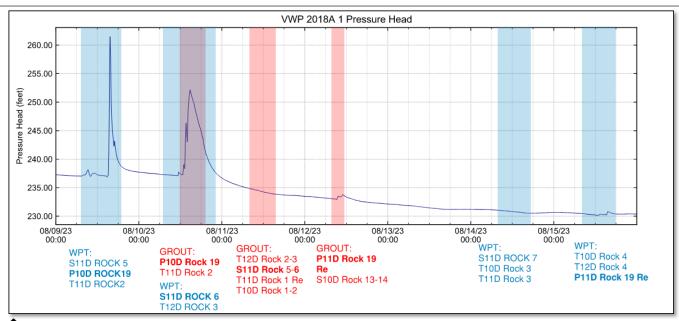


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#### **Instrumentation – Monitoring during Construction**

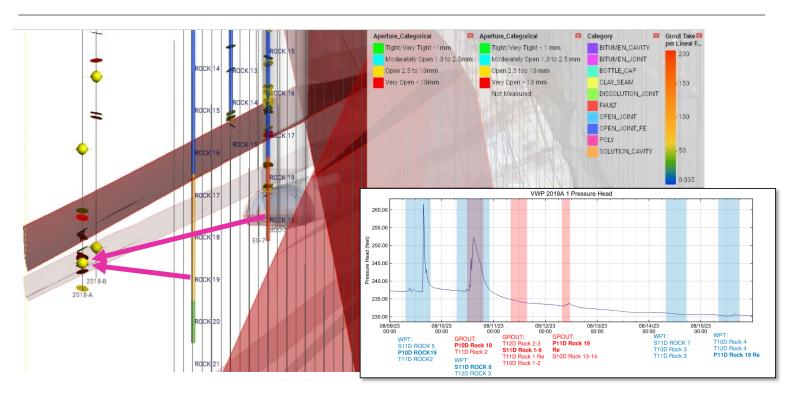


#### Instrumentation

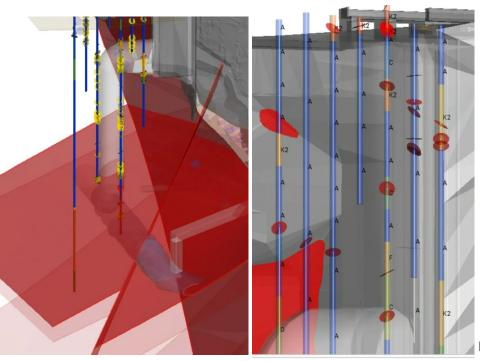




#### **Leapfrog Model**



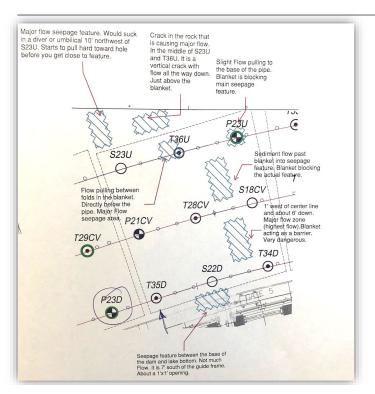
#### **Leapfrog Model**

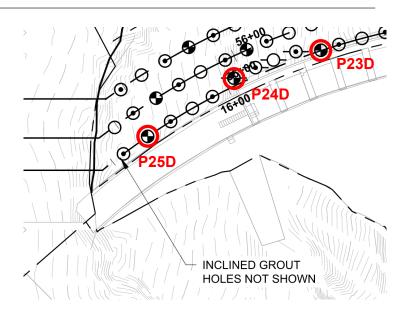


#### Using Leapfrog

- Import and sort teleview data
- View connections (grout hole communication, piezometer responses, downstream communication)
- Update of geological model

#### Right Abutment Exploratory Drilling & Grouting





#### **Lessons Learned**

- 10-foot Hole Spacing
- 10- to 20-foot Stage Lengths
- Use of Sodium Silicate
- Communication between project team members in IntelliSystem Trailer
- Monitoring of pressure changes in VWPs during WPT and Grouting
- 3D visualization with IntelliSystem and Leapfrog





















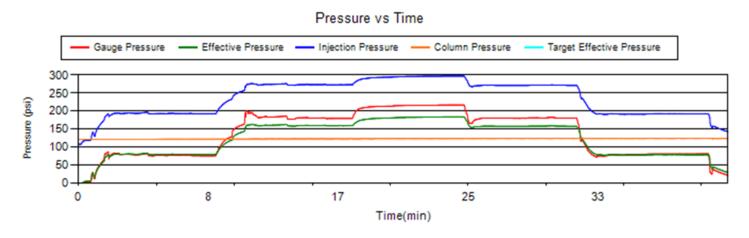






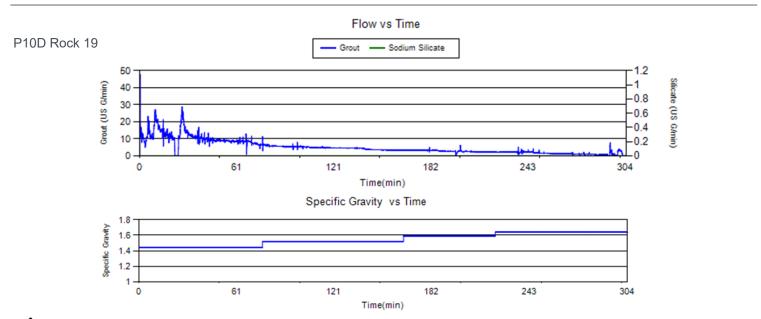
#### **Backup Slides – Water Pressure Test**

P10D Rock 19



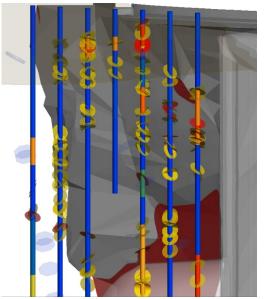


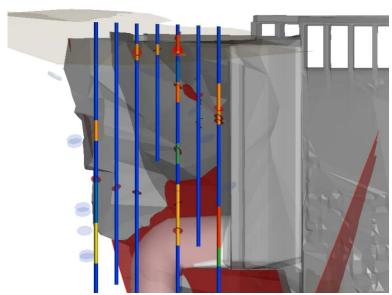
#### **Backup Slides – Grouting Trend**





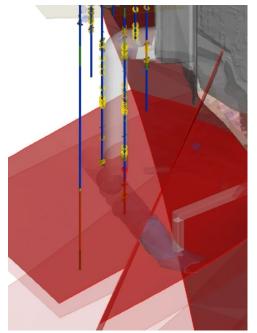
# **Backup Slides**

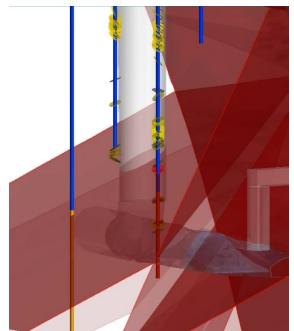






# **Backup Slides**







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