

Reserve Silica Reclamation Site Cleanup Status Update February 1, 2021

Solid Waste Management Program
Northwest Regional Office



Ecology Contacts

Site managers

Alan Noell, PhD, PE

Tim O'Connor, LHG

Public participation coordinator

Nancy Lui

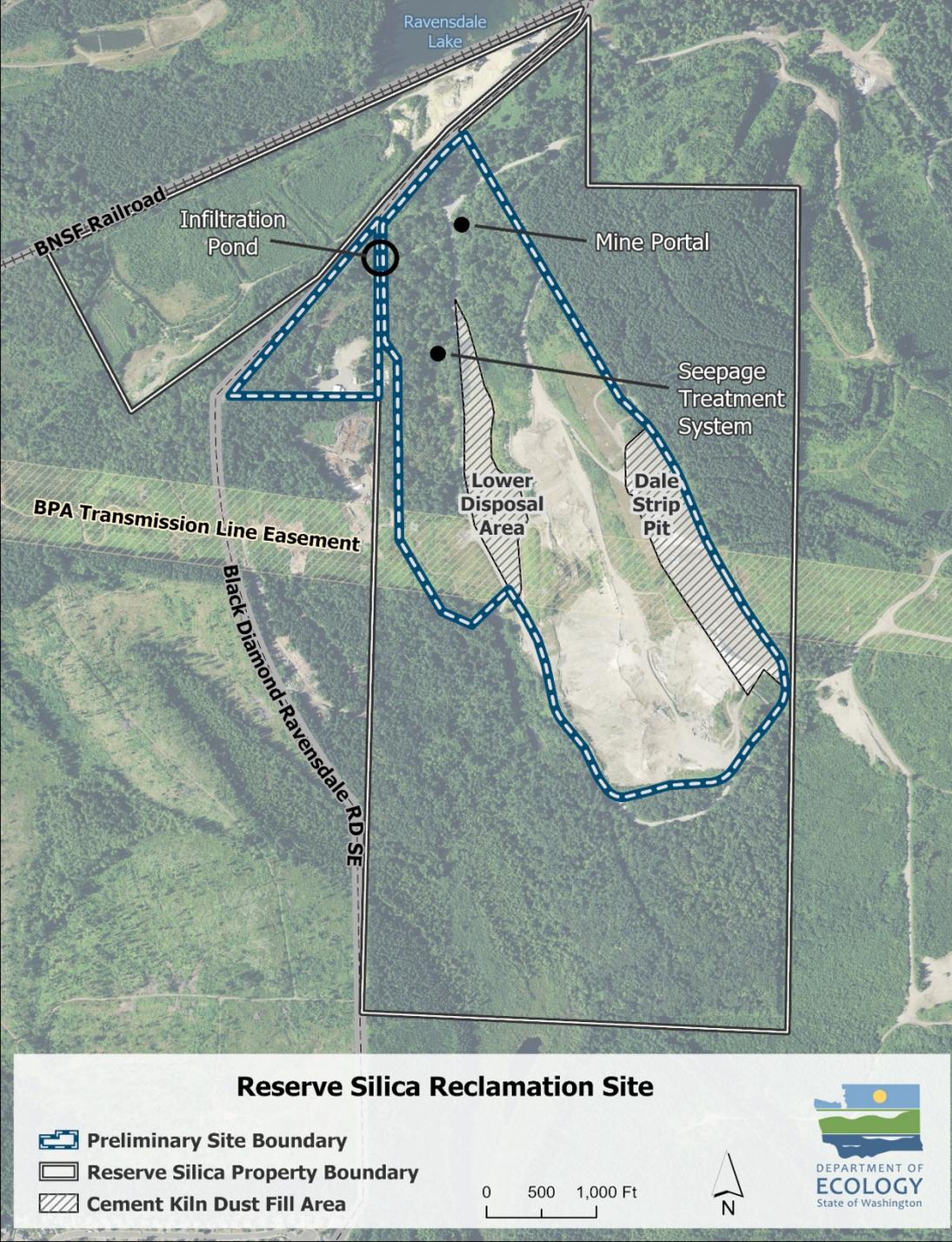
Communication manager

Dave Bennett



Quick Refresher

- Coal and Sand Mining
- Cement Kiln Dust (CKD) Reclamation
- CKD Leachate Release
- Treatment System



Remedial Investigation (RI) Work Plan

- Status
 - Draft RI (6/30/2020)
 - Ecology review comments (9/30/2020)
 - Ongoing negotiations
- Authorized Covid-19 delays
- Preliminary RI task performed in 2020
- Additional activities planned in 2021
- RI Work Plan availability

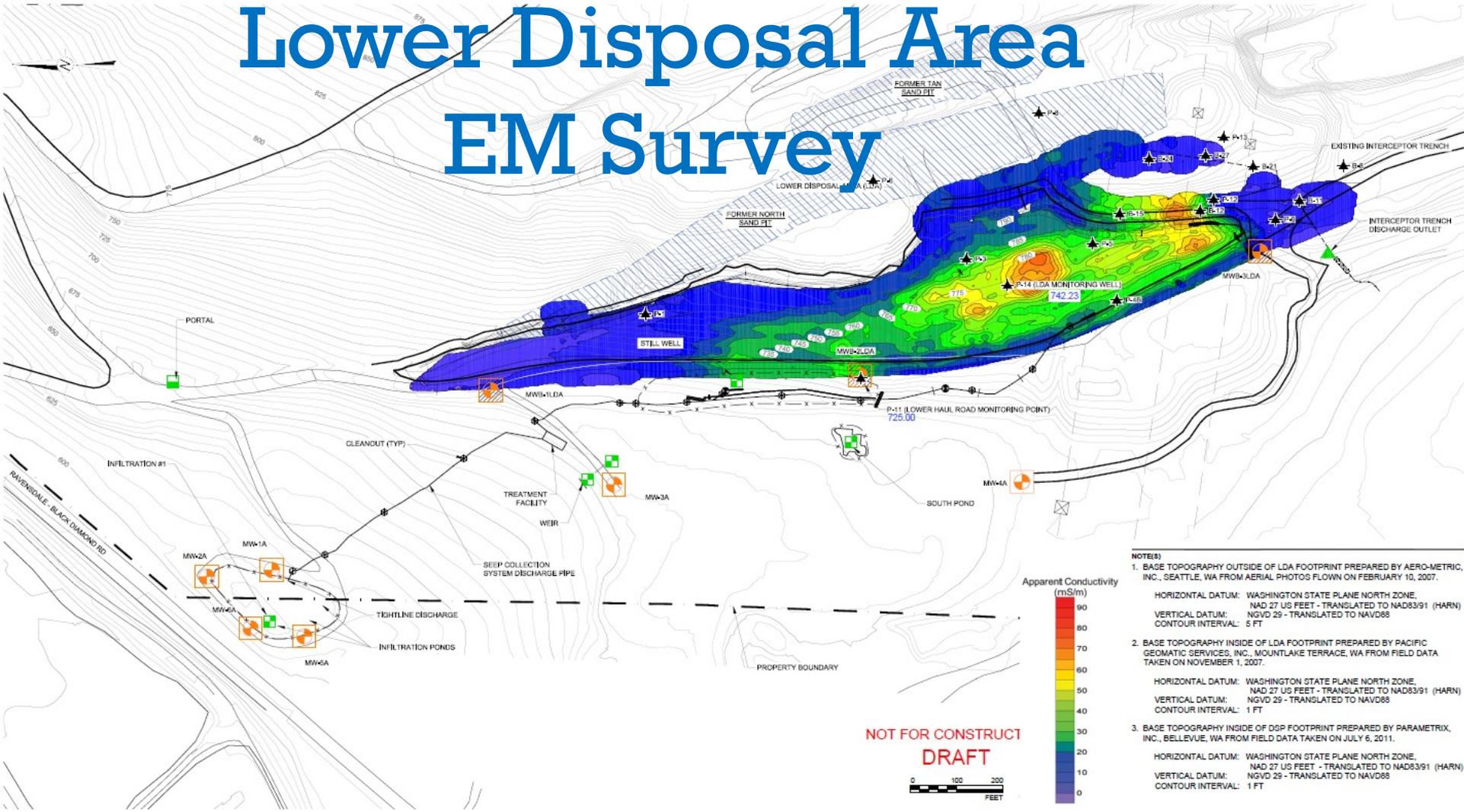


2020 RI Activity Objectives

- Determine Chemicals of Concern
- Sample groundwater in the most impacted areas
 - Within the CKD landfill
 - Beyond CKD landfill, potential impacts of ASARCO slag and mine spoils beneath the haul road
- RI Activities
 - Electromagnetic geophysics survey (Oct 2020)
 - Install well P-14 (Dec 2020)
 - Sample wells P-14 and P-11 (Dec 2020)



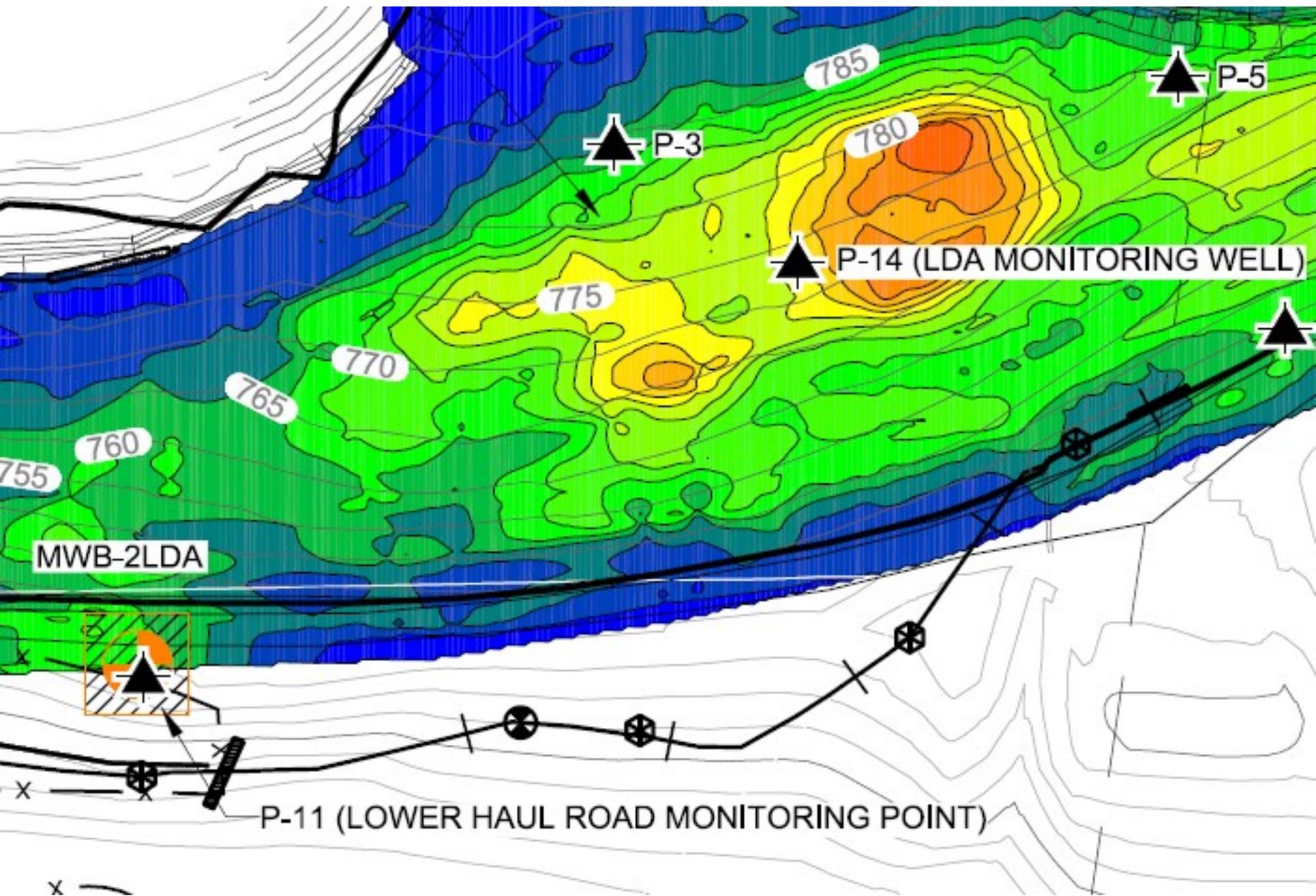
Lower Disposal Area EM Survey



- NOTES:**
1. BASE TOPOGRAPHY OUTSIDE OF LDA FOOTPRINT PREPARED BY AERO-METRIC, INC., SEATTLE, WA FROM AERIAL PHOTOS FLOWN ON FEBRUARY 10, 2007.
 HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD 27 US FEET - TRANSLATED TO NAD83/91 (HARN)
 VERTICAL DATUM: NGVD 29 - TRANSLATED TO NAVD83
 CONTOUR INTERVAL: 5 FT
 2. BASE TOPOGRAPHY INSIDE OF LDA FOOTPRINT PREPARED BY PACIFIC GEOMATIC SERVICES, INC., MOUNTLAKE TERRACE, WA FROM FIELD DATA TAKEN ON NOVEMBER 1, 2007.
 HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD 27 US FEET - TRANSLATED TO NAD83/91 (HARN)
 VERTICAL DATUM: NGVD 29 - TRANSLATED TO NAVD83
 CONTOUR INTERVAL: 1 FT
 3. BASE TOPOGRAPHY INSIDE OF DSP FOOTPRINT PREPARED BY PARAMETRIX, INC., BELLEVUE, WA FROM FIELD DATA TAKEN ON JULY 6, 2011.
 HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD 27 US FEET - TRANSLATED TO NAD83/91 (HARN)
 VERTICAL DATUM: NGVD 29 - TRANSLATED TO NAVD83
 CONTOUR INTERVAL: 1 FT

LEGEND	
	ALLUVIAL MONITORING WELL
	BEDROCK MONITORING WELL
	BEDROCK MONITORING WELL
	LDA SURFACE WATER SAMPLING LOCATION
	DSP BEDROCK SAMPLING LOCATION (PORTAL)
	INTERCEPTOR TRENCH SAMPLING LOCATION
	FENCE LINE
	GOLDER PIEZOMETER - NO PROPOSED SAMPLING UNLESS OTHERWISE SPECIFIED
	GROUNDWATER ELEVATION (12/11/2020), FEET ABOVE MEAN SEA LEVEL

CLIENT HOLCIM	PROJECT RI WORK PLAN 2020 RAVENSDALE, WA																		
CONSULTANT GOLDER	TITLE 2020 GEOPHYSICAL SURVEY AND P-14 WELL LOCATION																		
<table border="1"> <tr><td>YYYY-MM-DD</td><td>2021-01-15</td></tr> <tr><td>DESIGNED</td><td>JX</td></tr> <tr><td>PREPARED</td><td>REDMOND</td></tr> <tr><td>REVIEWED</td><td>JX</td></tr> <tr><td>APPROVED</td><td>OZ</td></tr> </table>	YYYY-MM-DD	2021-01-15	DESIGNED	JX	PREPARED	REDMOND	REVIEWED	JX	APPROVED	OZ	<table border="1"> <tr><td>PROJECT NO.</td><td>152030402</td><td>PHASE</td><td>002</td><td>REV.</td><td>A</td><td>FIGURE</td><td>1</td></tr> </table>	PROJECT NO.	152030402	PHASE	002	REV.	A	FIGURE	1
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PROJECT NO.	152030402	PHASE	002	REV.	A	FIGURE	1												



Questions

Alan Noell

Alan.Noell@ecy.wa.gov

425-213-4803

Tim O'Connor

Tim.OConnor@ecy.wa.gov

425-389-2695

<https://apps.ecology.wa.gov/gsp/Sitepage.aspx?csid=4728>

