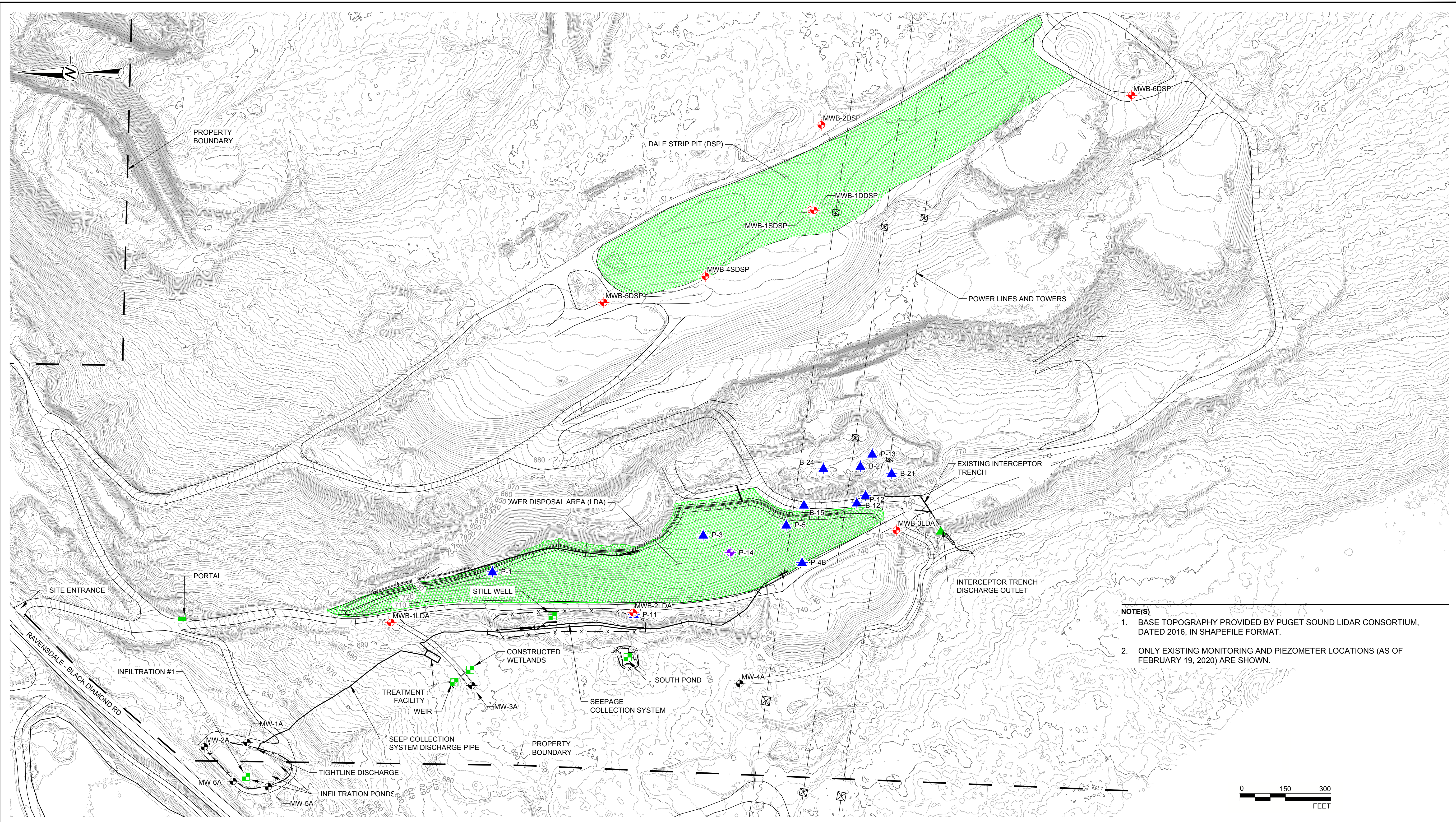


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NOTE(S)
 1. BASE TOPOGRAPHY PROVIDED BY PUGET SOUND LIDAR CONSORTIUM, DATED 2016, IN SHAPEFILE FORMAT.
 2. ONLY EXISTING MONITORING AND PIEZOMETER LOCATIONS (AS OF FEBRUARY 19, 2020) ARE SHOWN.

| LEGEND | |
|--------|--|
| | COVER AREA |
| | ALLUVIAL MONITORING WELL |
| | BEDROCK MONITORING WELL |
| | LDA MONITORING WELL |
| | GOLDER PIEZOMETER |
| | LDA SURFACE WATER SAMPLING LOCATION |
| | DSP BEDROCK SAMPLING LOCATION (PORTAL) |
| | INTERCEPTOR TRENCH SAMPLING LOCATION |
| | FENCE LINE |

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HOLCIM

CONSULTANT



| | |
|------------|------------|
| YYYY-MM-DD | 2021-06-17 |
| DESIGNED | JX |
| PREPARED | REDMOND |
| REVIEWED | JX |
| APPROVED | GZ |

PROJECT
RI WORK PLAN 2021
RAVENSDALE, WA

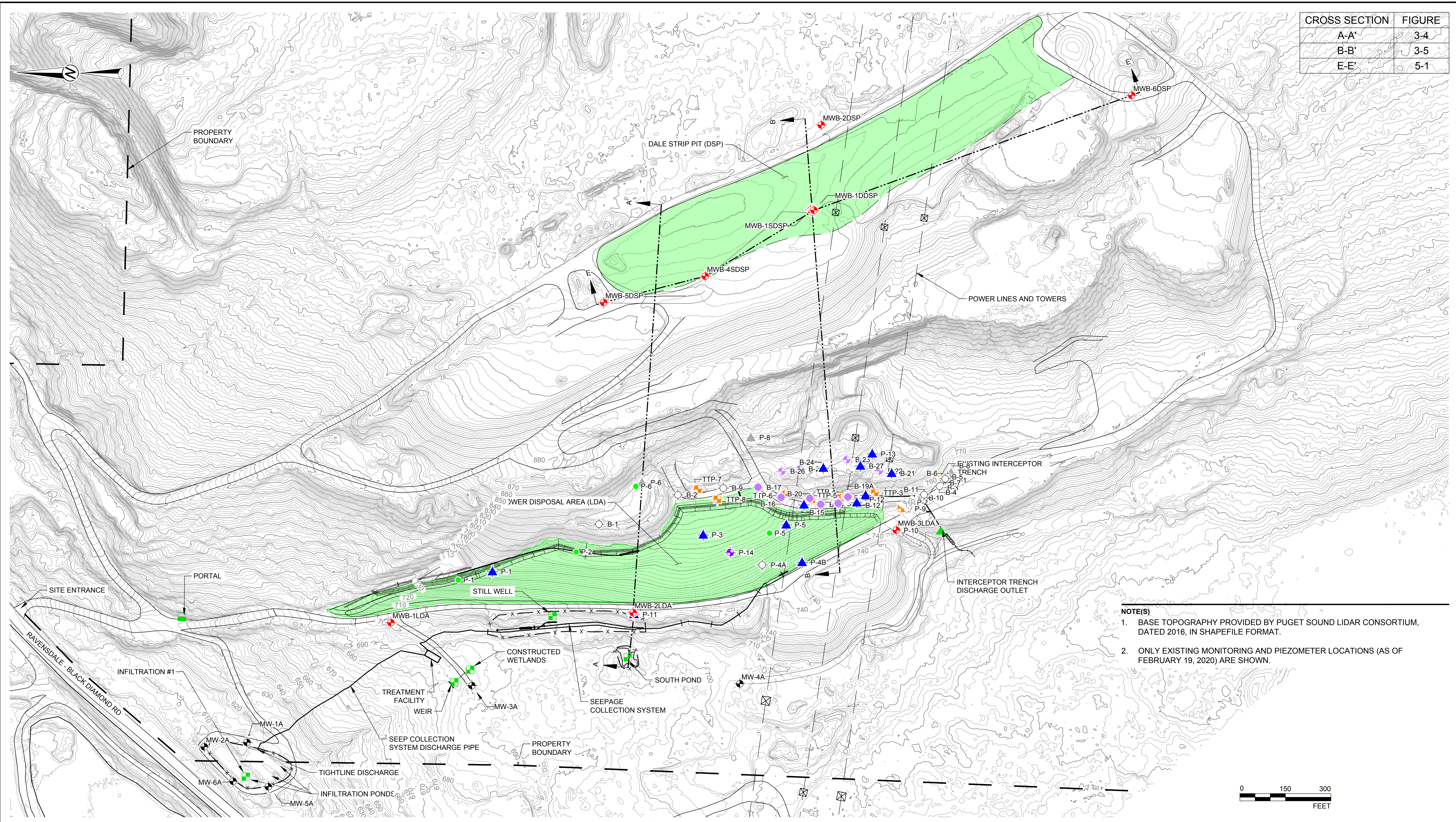
TITLE
EXISTING SITE PIEZOMETERS AND MONITORING WELLS

| PROJECT NO. | PHASE | REV. |
|-------------|-------|------|
| 152030402 | 004 | 0 |

FIGURE
3-1

1 in IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM A3/34

| CROSS SECTION | FIGURE |
|---------------|--------|
| A-A' | 3-4 |
| B-B' | 3-5 |
| E-E' | 5-1 |



- NOTE(S)**
1. BASE TOPOGRAPHY PROVIDED BY PUGET SOUND LIDAR CONSORTIUM, DATED 2016, IN SHAPEFILE FORMAT.
 2. ONLY EXISTING MONITORING AND PIEZOMETER LOCATIONS (AS OF FEBRUARY 19, 2020) ARE SHOWN.

| | | | | |
|-----------|---|--|--|------------|
| MW-1A | ALLUVIAL MONITORING WELL | B-1 | GOLDER EXPLORATORY BOREHOLE (BACKFILLED) | FENCE LINE |
| MWB-1DSPA | BEDROCK MONITORING WELL | TTP-1 | GOLDER TEST PIT (MAY 2010) | |
| P-14 | LDA MONITORING WELL | P-1 | GOLDER DIRECT PUSH PROBE | |
| P-1 | GOLDER PIEZOMETER (EXISTING) | LDA SURFACE WATER SAMPLING LOCATION | | |
| P-6 | GOLDER PIEZOMETER (NO LONGER EXISTING) | DSP BEDROCK SAMPLING LOCATION (PORTAL) | | |
| B-13 | 2017 GOLDER INTERCEPTOR TRENCH EXTENSION BOREHOLE | INTERCEPTOR TRENCH SAMPLING LOCATION | | |
| B-13 | 2016 GOLDER INTERCEPTOR TRENCH EXTENSION BOREHOLE | COVER AREA | | |

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HOLCIM

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| | |
|------------|------------|
| YYYY-MM-DD | 2021-06-17 |
| DESIGNED | JX |
| PREPARED | REDMOND |
| REVIEWED | JX |
| APPROVED | GZ |

PROJECT
**RI WORK PLAN 2021
RAVENSDALE, WA**

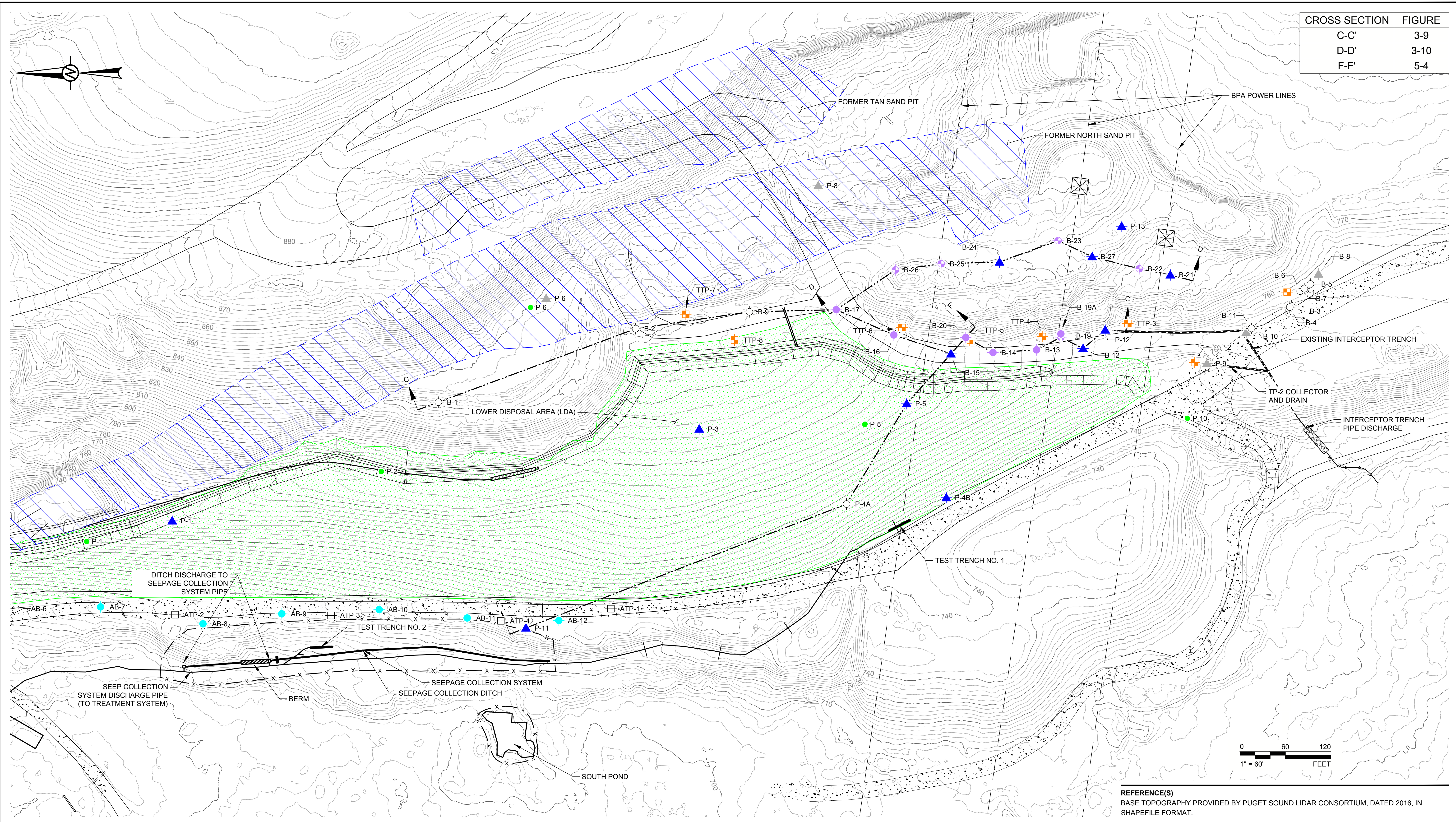
TITLE
**HISTORICAL INVESTIGATORY BOREHOLES, PIEZOMETERS,
AND EXISTING SITE MONITORING WELLS**

| | | | |
|-------------|-------|------|--------|
| PROJECT NO. | PHASE | REV. | FIGURE |
| 152030402 | 004 | 0 | 3-2 |

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1 in IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM A4S1D

| CROSS SECTION | FIGURE |
|---------------|--------|
| C-C' | 3-9 |
| D-D' | 3-10 |
| F-F' | 5-4 |



Path: \\uswestprod\golder\gisdata\geomatica\HOLCIM\RAVENSDALE\09_PROJECTS\152030402_RI_2019\004_RI_2019\004_RI_2019\004_RI_2019.dwg | Last Edited By: nicholasen Date: 2021-07-01 Time: 9:52:22 AM
 File Name: 152030402_004_RI_2019.dwg | Printed By: nicholasen Date: 2021-07-01 Time: 9:52:22 AM

| LEGEND | | |
|--------|-------|---|
| | B-13 | 2017 GOLDER INTERCEPTOR TRENCH EXTENSION BOREHOLE |
| | B-13 | 2016 GOLDER INTERCEPTOR TRENCH EXTENSION BOREHOLE |
| | B-1 | GOLDER EXPLORATORY BOREHOLE (BACKFILLED) |
| | TTP-1 | GOLDER TEST PIT (MAY 2010) |
| | P-1 | GOLDER DIRECT PUSH PROBE |
| | P-1 | GOLDER PIEZOMETER (EXISTING) |
| | P-6 | GOLDER PIEZOMETER (NO LONGER EXISTING) |
| | AB-5 | LOWER HAUL ROAD BORING LOCATION - ASPECT 2017 |
| | ATP-1 | LOWER HAUL ROAD TEST PIT LOCATION - ASPECT 2018 |

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| YYYY-MM-DD | 2021-06-17 |
| DESIGNED | JX |
| PREPARED | REDMOND |
| REVIEWED | JX |
| APPROVED | GZ |

REFERENCE(S)
BASE TOPOGRAPHY PROVIDED BY PUGET SOUND LIDAR CONSORTIUM, DATED 2016, IN SHAPEFILE FORMAT.

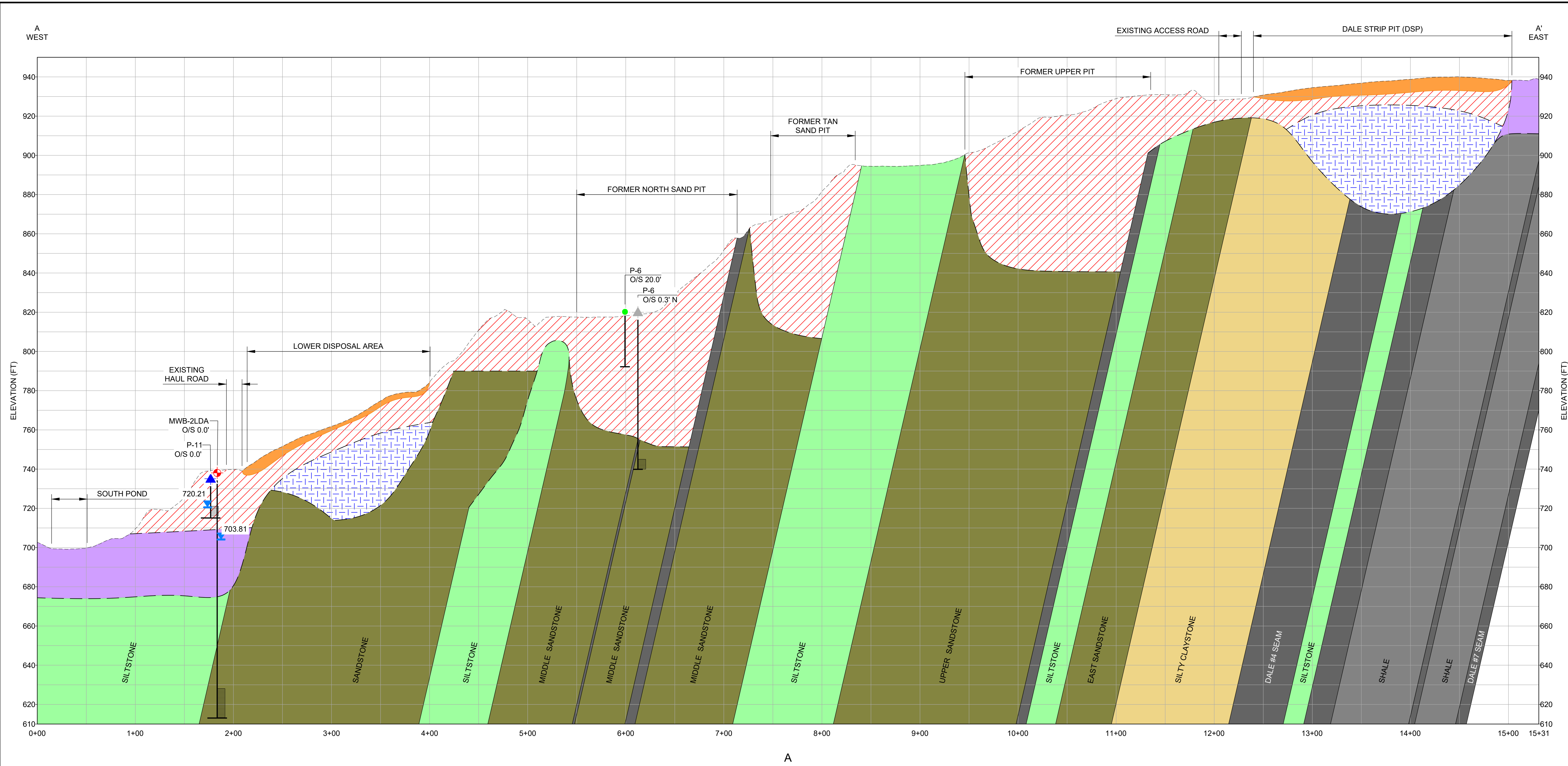
PROJECT
RI WORK PLAN 2021
RAVENSDALE, WA

TITLE
PREVIOUS LDA INVESTIGATORY BOREHOLES AND TEST PITS

| | | | |
|-------------|-------|------|--------|
| PROJECT NO. | PHASE | REV. | FIGURE |
| 152030402 | 004 | 0 | 3-3 |

1 in IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE WAS MODIFIED FROM ANS/D

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LEGEND

| | | | |
|---|--|--------------|---------------------|
| --- EXISTING GROUND PROFILE | ◆ 2017 INTERCEPTOR TRENCH EXTENSION BOREHOLE | ■ COAL | ■ SILTY CLAYSTONE |
| - - - INFERRED GEOLGIC CONTACT | ● 2016 INTERCEPTOR TRENCH EXTENSION BOREHOLE | ■ SHALE | ■ SILTSTONE |
| - - - INFERRED GROUNDWATER SURFACE | ○ EXPLORATORY BOREHOLE (BACKFILLED) | ■ SANDY SILT | ■ SHALE / SILTSTONE |
| ▼ WATER LEVEL MEASURED AUGUST 26, 2019 IN FEET NAVD88 | ● PUSH PROBE | ■ SANDSTONE | ■ BEDROCK |
| → CONCEPTUAL GROUNDWATER FLOW DIRECTION | ■ CAP (CLAYEY SILT) | | |
| ▲ GOLDER PIEZOMETER (EXISTING) | /// FILL (NON-CKD) | | |
| ▲ GOLDER PIEZOMETER (NO LONGER EXISTING) | /// FILL (WITH CKD) | | |
| ◆ BEDROCK GROUNDWATER MONITORING WELL | ■ QVT | | |

NOTE(S)

- PIEZOMETER / MONITORING WELL ELEVATIONS BASED ON SURVEY DATE AND MAY NOT MATCH SURFACE PROFILE FROM KING COUNTY 2016 LIDAR.

REFERENCE(S)

BASE TOPOGRAPHY PROVIDED BY PUGET SOUND LIDAR CONSORTIUM, DATED 2016, IN SHAPEFILE FORMAT.

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| YYYY-MM-DD | 2021-06-17 |
| DESIGNED | JX |
| PREPARED | REDMOND |
| REVIEWED | JX |
| APPROVED | GZ |

GOLDER

PROJECT
RI WORK PLAN 2021
RAVENSDALE, WA

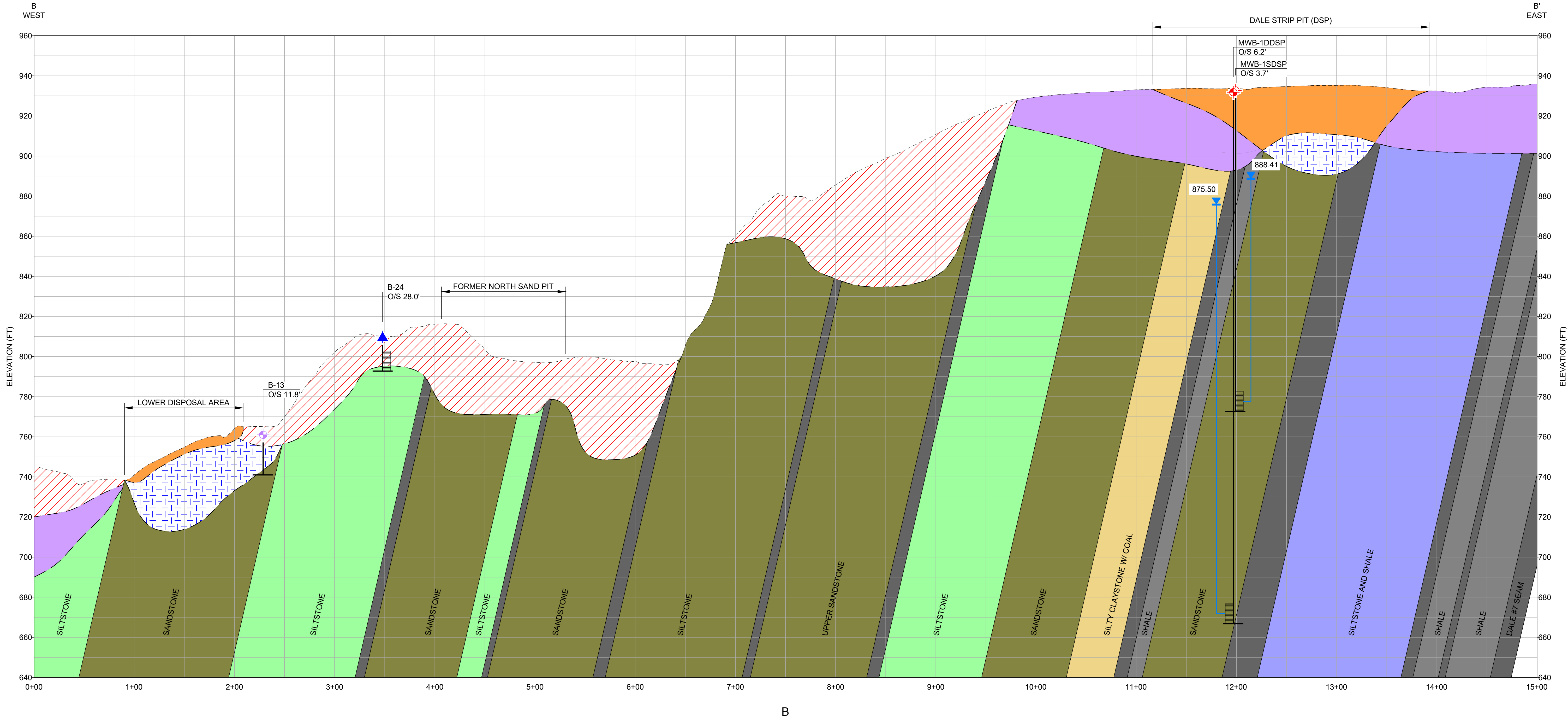
TITLE
CONCEPTUAL CROSS SECTION A-A'

SCALE
0 50 100 FEET

| | | | |
|-------------|-------|------|--------|
| PROJECT NO. | PHASE | REV. | FIGURE |
| 152030402 | 004 | 0 | 3-4 |

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI D

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LEGEND

| | | | |
|-----------|---|---|--|
| ----- | EXISTING GROUND PROFILE | ◆ | 2017 INTERCEPTOR TRENCH EXTENSION BOREHOLE |
| - - - - - | INFERRED GEOLOGIC CONTACT | ◆ | 2016 INTERCEPTOR TRENCH EXTENSION BOREHOLE |
| --- | INFERRED GROUNDWATER SURFACE | ○ | EXPLORATORY BOREHOLE (BACKFILLED) |
| ▼ | WATER LEVEL MEASURED AUGUST 26, 2019 IN FEET NAVD88 | ● | PUSH PROBE |
| → | CONCEPTUAL GROUNDWATER FLOW DIRECTION | ■ | CAP (CLAYEY SILT) |
| ▲ | GOLDER PIEZOMETER (EXISTING) | ▨ | FILL (NON-CKD) |
| ▲ | GOLDER PIEZOMETER (NO LONGER EXISTING) | ▨ | FILL (WITH CKD) |
| ◆ | BEDROCK GROUNDWATER MONITORING WELL | ■ | QVT |

NOTE(S)

- PIEZOMETER / MONITORING WELL ELEVATIONS BASED ON SURVEY DATE AND MAY NOT MATCH SURFACE PROFILE FROM KING COUNTY 2016 LIDAR.

| | | | |
|---|------------|---|-------------------|
| ■ | COAL | ■ | SILTY CLAYSTONE |
| ■ | SHALE | ■ | SILTSTONE |
| ■ | SANDY SILT | ■ | SHALE / SILTSTONE |
| ■ | SANDSTONE | ▨ | BEDROCK |

REFERENCE(S)
BASE TOPOGRAPHY PROVIDED BY PUGET SOUND LIDAR CONSORTIUM, DATED 2016, IN SHAPEFILE FORMAT.

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|-------------------|------------|------------|
| CONSULTANT | YYYY-MM-DD | 2021-06-17 |
| | DESIGNED | JX |
| | PREPARED | REDMOND |
| | REVIEWED | JX |
| | APPROVED | GZ |

PROJECT
RI WORK PLAN 2021
RAVENSDALE, WA

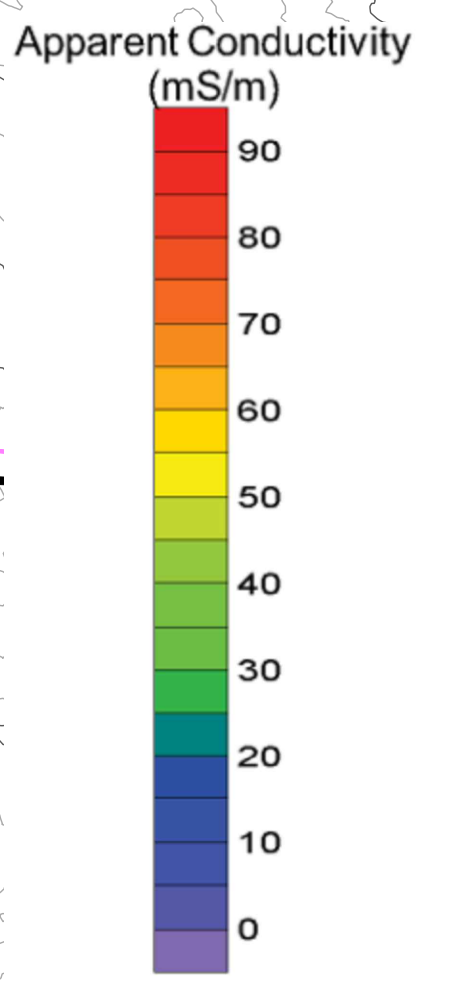
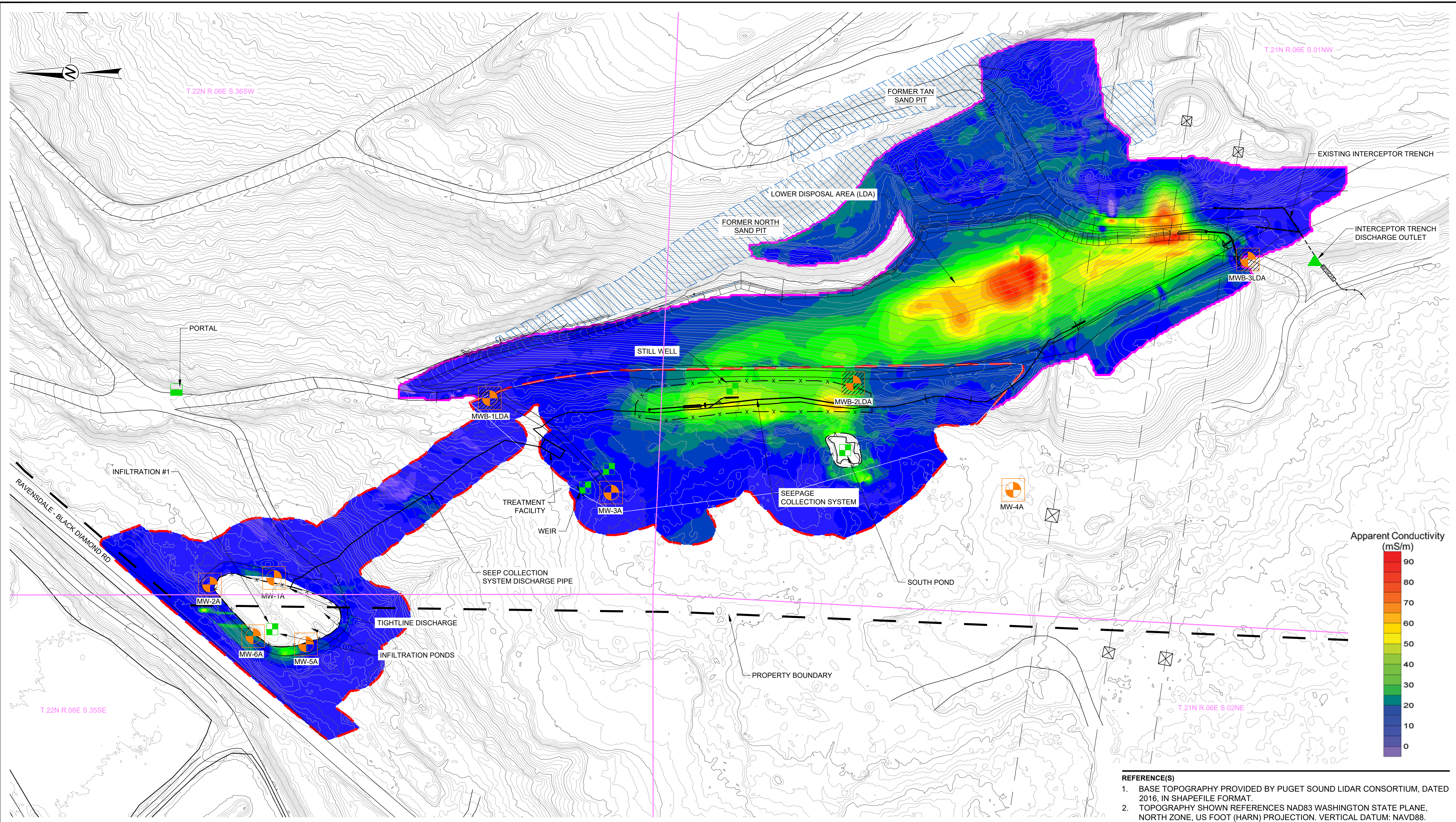
TITLE
CONCEPTUAL CROSS SECTION B-B'

| | | | |
|-------------|-------|------|--------|
| PROJECT NO. | PHASE | REV. | FIGURE |
| 152030402 | 004 | 0 | 3-5 |

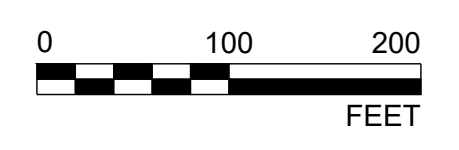


1 in IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI D

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| | | |
|---------------|--|--|
| LEGEND | APPROXIMATE 2019 GEOPHYSICS SURVEY EXTENTS | LDA SURFACE WATER SAMPLING LOCATION |
| | APPROXIMATE 2010 GEOPHYSICS SURVEY EXTENTS | DSP BEDROCK SAMPLING LOCATION (PORTAL) |
| | MW-1A ALLUVIAL MONITORING WELL | INTERCEPTOR TRENCH SAMPLING LOCATION |
| | MWB-1DDSP BEDROCK MONITORING WELL | FENCE LINE |
| | MWB-2DSP BEDROCK MONITORING WELL (NOTE 4) | TOWNSHIP, RANGE, SECTION, AND QUARTER BOUNDARIES |



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| YYYY-MM-DD | 2021-06-17 |
| DESIGNED | JX |
| PREPARED | REDMOND |
| REVIEWED | JX |
| APPROVED | GZ |

- REFERENCE(S)**
1. BASE TOPOGRAPHY PROVIDED BY PUGET SOUND LIDAR CONSORTIUM, DATED 2016, IN SHAPEFILE FORMAT.
 2. TOPOGRAPHY SHOWN REFERENCES NAD83 WASHINGTON STATE PLANE, NORTH ZONE, US FOOT (HARN) PROJECTION. VERTICAL DATUM: NAVD88.

PROJECT
RI WORK PLAN 2021
RAVENSDALE, WA

TITLE
2010 AND 2019 APPARENT CONDUCTIVITY SURVEYS (20 FT DEPTH)

| | | | |
|-------------|-------|------|--------|
| PROJECT NO. | PHASE | REV. | FIGURE |
| 152030402 | 004 | 0 | 3-6 |

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANS1D



LEGEND

- Exploration Name **AB-12** (741.77) Boring (Aspect)
- Surface Elevation (ft, NAVD83)
- Test Pit
- Historical Coal and/or Sand Mine Pit Extent
- Property
- Tax Parcel

REFERENCE(S)

INFORMATION DISPLAYED PROVIDED BY ASPECT CONSULTING, DATED MARCH 2019, DELIVERED IN PDF FORMAT.



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PROJECT
RI WORK PLAN 2021
RAVENSDALE, WA

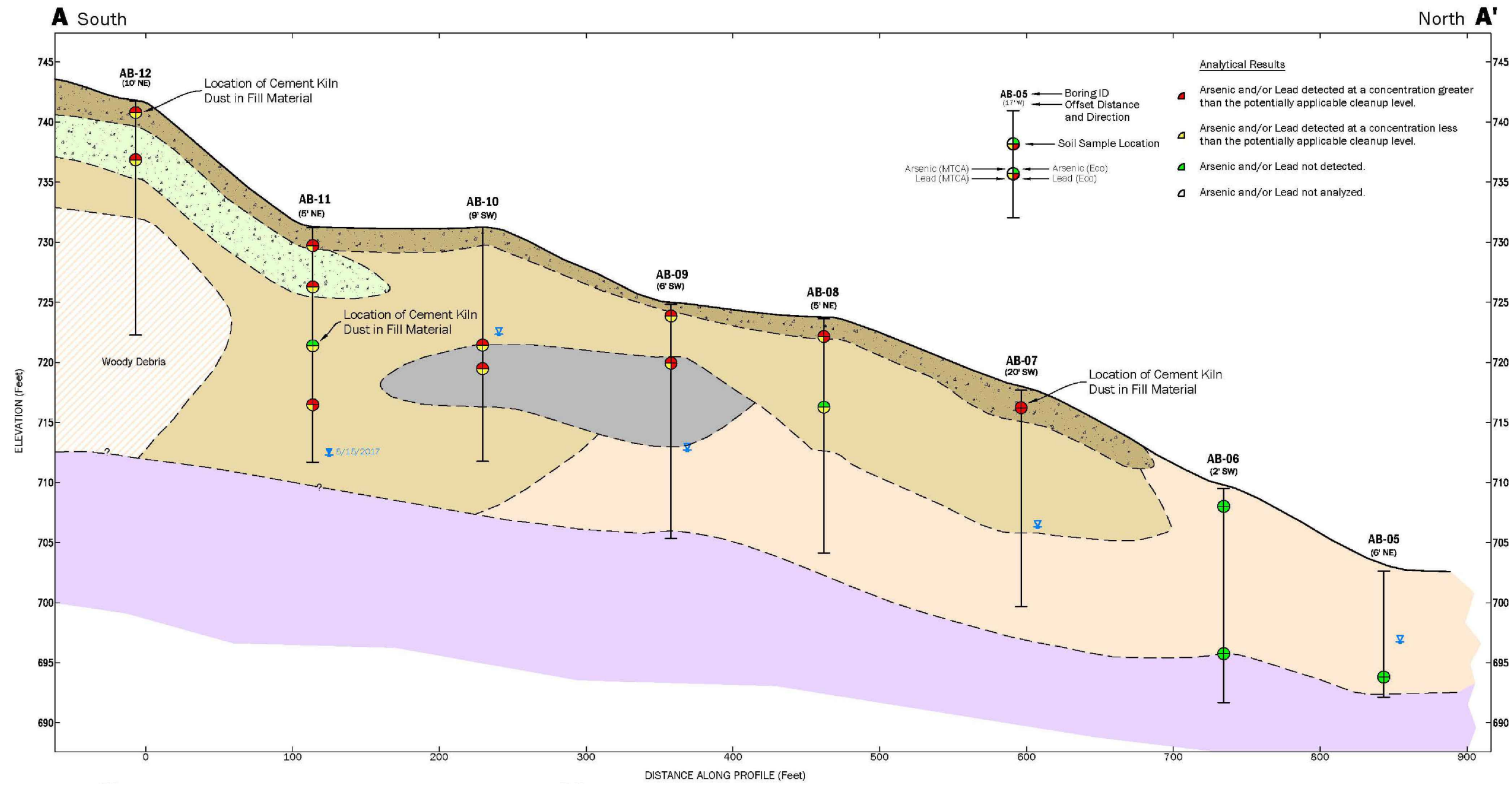
CONSULTANT



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| YYYY-MM-DD | 2021-06-17 |
| DESIGNED | REDMOND |
| PREPARED | JX |
| REVIEWED | JX |
| APPROVED | GZ |

TITLE
LOWER HAUL ROAD PLAN

| | | | |
|-------------|-------|------|--------|
| PROJECT NO. | PHASE | REV. | FIGURE |
| 152030402 | 004 | 0 | 3-7 |



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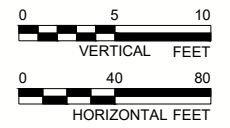
LEGEND

- | | |
|---|--|
| Fill | Native |
| Sand and gravel, contains variable amounts of silt, mixed with slag fragments (GP/SP) | Bedrock or glacial till |
| Silty sand or sandy silt, mixed with gravel, coal fragments, organic material, woody debris and brick fragments (SM/ML) | Depth to Groundwater at Time of Drilling |
| Slightly silty sand, orange-yellow, medium to coarse grained, mixed with coal fragments and woody debris, variable silt and gravel (SP) | Depth to Groundwater (5/15/17) |
| Sand or silty sand, dark-colored with coal and slag fragments (SP/SM) | Estimated Fill/Native Soils Contact |
| Silty gravel and silty sand with coal fragments fining downward (GM/SM) | Fill Horizons Contain Slag |

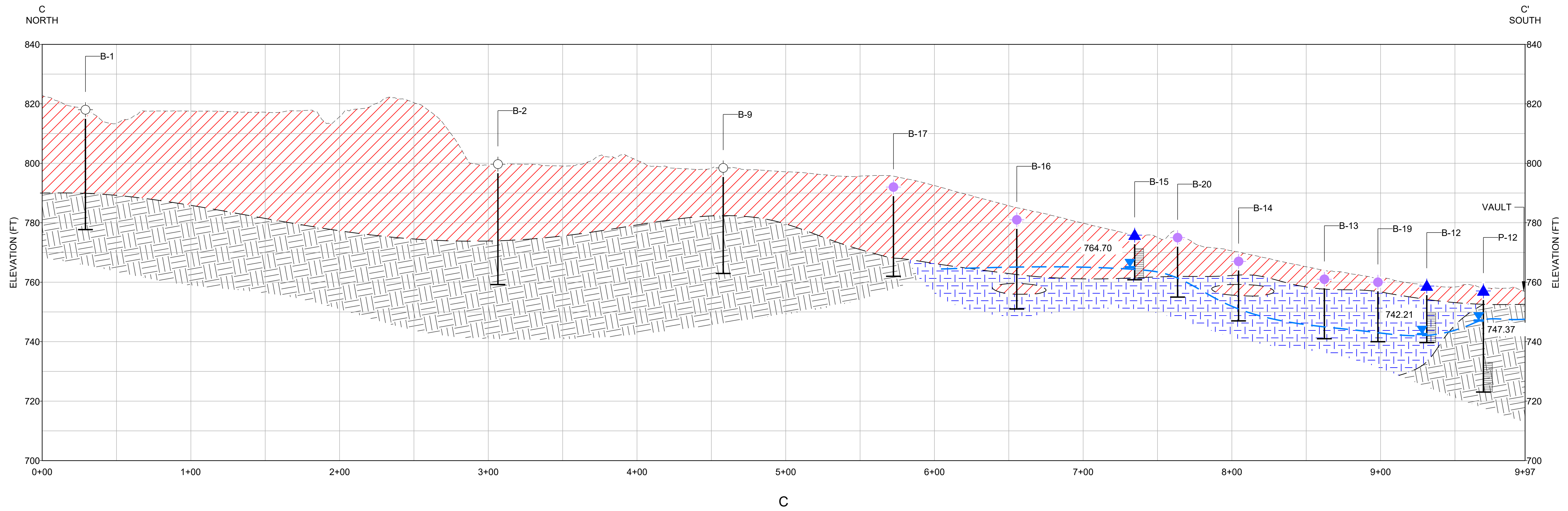
REFERENCE(S)
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| CLIENT | HOLCIM | |
| CONSULTANT | YYYY-MM-DD | 2021-06-17 |
| | DESIGNED | JX |
| | PREPARED | REDMOND |
| | REVIEWED | JX |
| | APPROVED | GZ |

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|-------------|-------------------------------------|------|
| PROJECT | RI WORK PLAN 2021 RAVENSDALE, WA | |
| TITLE | LOWER HAUL ROAD CROSS SECTION | |
| PROJECT NO. | PHASE | REV. |
| 152030402 | 004 | 0 |
| FIGURE | 3-8 | |



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LEGEND

- | | | | |
|-----------|---|---|--|
| ----- | EXISTING GROUND PROFILE | ⊕ | 2017 INTERCEPTOR TRENCH EXTENSION BOREHOLE |
| - - - - - | INFERRED GEOLOGIC CONTACT | ⊕ | 2016 INTERCEPTOR TRENCH EXTENSION BOREHOLE |
| --- | INFERRED GROUNDWATER SURFACE | ⊙ | EXPLORATORY BOREHOLE (BACKFILLED) |
| ▼ | WATER LEVEL MEASURED AUGUST 26, 2019 IN FEET NAVD88 | ● | PUSH PROBE |
| → | CONCEPTUAL GROUNDWATER FLOW DIRECTION | ■ | CAP (CLAYEY SILT) |
| ▲ | GOLDER PIEZOMETER (EXISTING) | ▨ | FILL (NON-CKD) |
| ▲ | GOLDER PIEZOMETER (NO LONGER EXISTING) | ▨ | FILL (WITH CKD) |
| ⊕ | BEDROCK GROUNDWATER MONITORING WELL | ■ | QVT |

- | | | | |
|---|------------|---|-------------------|
| ■ | COAL | ■ | SILTY CLAYSTONE |
| ■ | SHALE | ■ | SILTSTONE |
| ■ | SANDY SILT | ■ | SHALE / SILTSTONE |
| ■ | SANDSTONE | ▨ | BEDROCK |

- NOTE(S)**
- PIEZOMETER / MONITORING WELL ELEVATIONS BASED ON SURVEY DATE AND MAY NOT MATCH SURFACE PROFILE FROM KING COUNTY 2016 LIDAR.
 - GEOLOGIC UNITS INFERRED AND PROJECTED ONTO CROSS SECTION LINE.

REFERENCE(S)

BASE TOPOGRAPHY PROVIDED BY PUGET SOUND LIDAR CONSORTIUM, DATED 2016, IN SHAPEFILE FORMAT.

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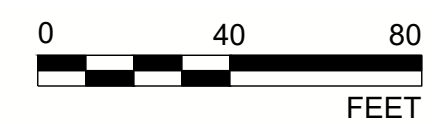
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| YYYY-MM-DD | 2021-06-17 |
| DESIGNED | JX |
| PREPARED | REDMOND |
| REVIEWED | JX |
| APPROVED | GZ |

PROJECT
**RI WORK PLAN 2021
RAVENSDALE, WA**

TITLE
CONCEPTUAL CROSS SECTION C-C'

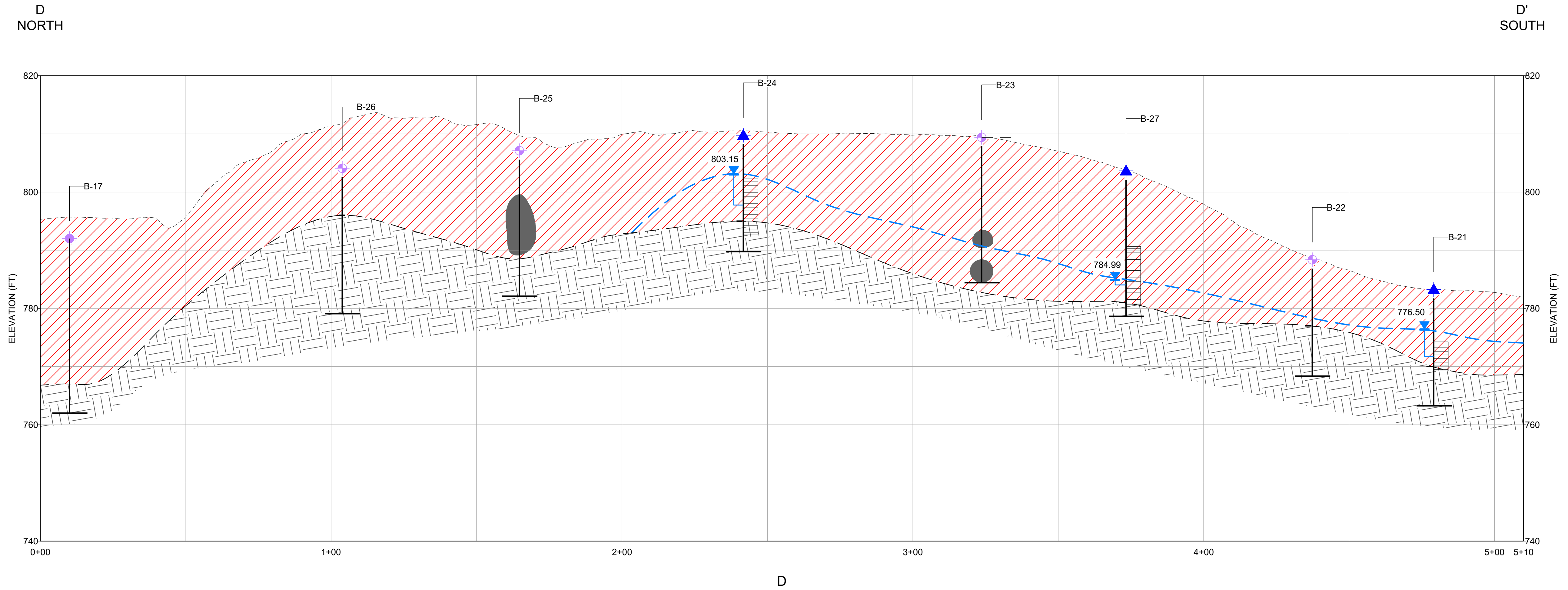
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| PROJECT NO. | PHASE | REV. |
| 152030402 | 004 | 0 |

FIGURE
3-9



1 in IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANS/D

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LEGEND

- | | | | | | | | |
|-----------|--|---|--|---|------------|---|-------------------|
| ----- | EXISTING GROUND PROFILE | ◆ | 2017 INTERCEPTOR TRENCH EXTENSION BOREHOLE | ■ | COAL | ■ | SILTY CLAYSTONE |
| - - - - - | INFERRED GEOLOGIC CONTACT | ◆ | 2016 INTERCEPTOR TRENCH EXTENSION BOREHOLE | ■ | SHALE | ■ | SILTSTONE |
| - - - - - | INFERRED GROUNDWATER SURFACE | ○ | EXPLORATORY BOREHOLE (BACKFILLED) | ■ | SANDY SILT | ■ | SHALE / SILTSTONE |
| ▼ | WATER LEVEL MEASURED APRIL 16, 2019 IN FEET NAVD88 | ● | PUSH PROBE | ■ | SANDSTONE | ■ | BEDROCK |
| → | CONCEPTUAL GROUNDWATER FLOW DIRECTION | ■ | CAP (CLAYEY SILT) | ■ | | ■ | |
| ▲ | GOLDER PIEZOMETER (EXISTING) | ▨ | FILL (NON-CKD) | ■ | | ■ | |
| ▲ | GOLDER PIEZOMETER (NO LONGER EXISTING) | ▨ | FILL (WITH CKD) | ■ | | ■ | |
| ◆ | BEDROCK GROUNDWATER MONITORING WELL | ■ | QVT | ■ | | ■ | |

NOTE(S)

1. PIEZOMETER / MONITORING WELL ELEVATIONS BASED ON SURVEY DATE AND MAY NOT MATCH SURFACE PROFILE FROM KING COUNTY 2016 LIDAR.
2. GEOLOGIC UNITS INFERRED AND PROJECTED ONTO CROSS SECTION LINE.
3. B-21, B-24, B-27 GO DRY DURING DRY MONTHS. APRIL 2019 WATER LEVEL MEASUREMENT DATA PROVIDED.

REFERENCE(S)

BASE TOPOGRAPHY PROVIDED BY PUGET SOUND LIDAR CONSORTIUM, DATED 2016, IN SHAPEFILE FORMAT.

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| PREPARED | REDMOND |
| REVIEWED | JX |
| APPROVED | GZ |

PROJECT
**RI WORK PLAN 2021
RAVENSDALE, WA**

TITLE
CONCEPTUAL CROSS SECTION D-D'

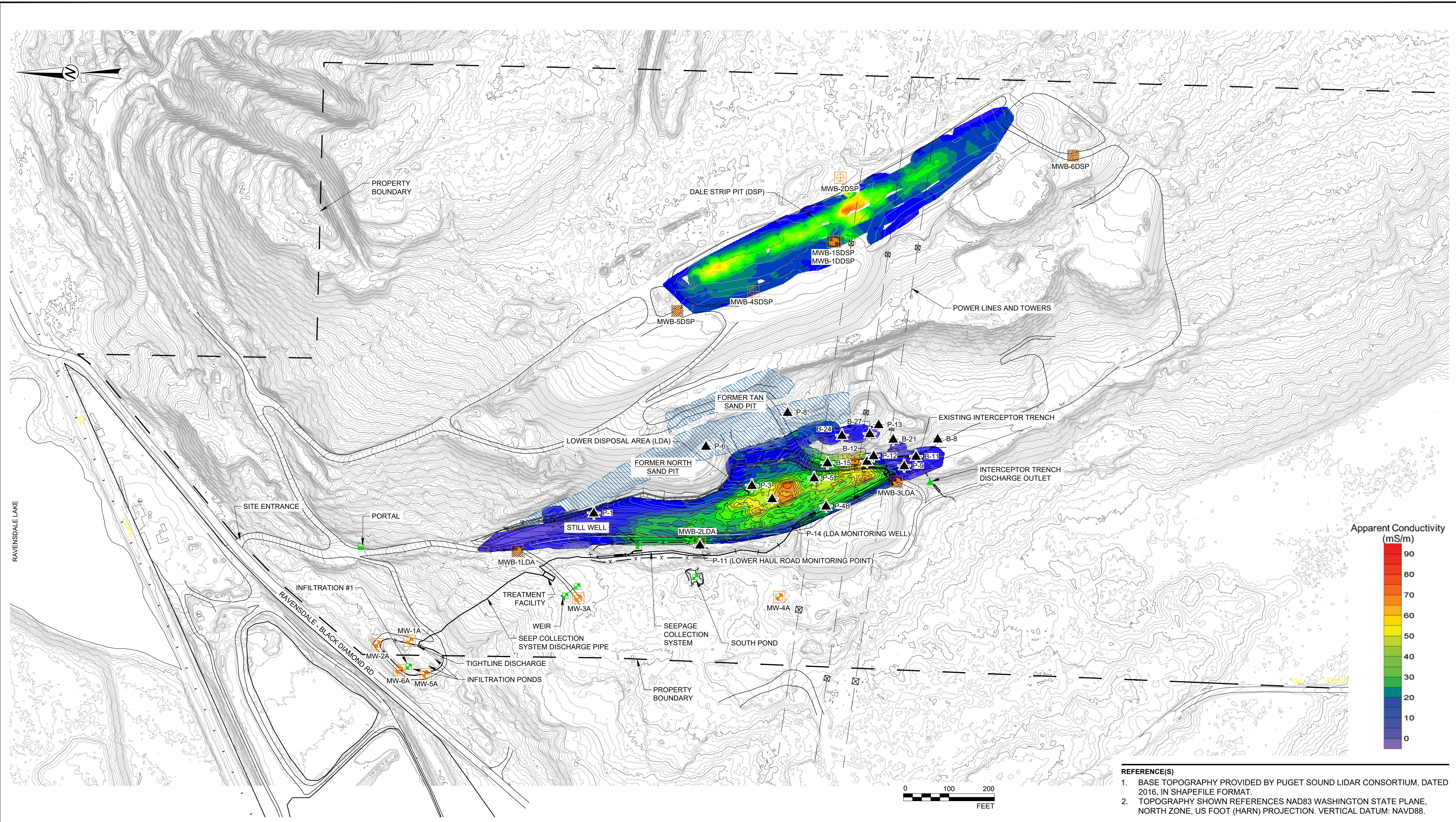
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| PROJECT NO. | PHASE | REV. |
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FIGURE
3-10



1 in IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI D

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| LEGEND | |
|--------|---|
| | MW-1A ALLUVIAL MONITORING WELL |
| | MWB-1DDSP BEDROCK MONITORING WELL |
| | MWB-2DSP BEDROCK MONITORING WELL |
| | LDA SURFACE WATER SAMPLING LOCATION |
| | DSP BEDROCK SAMPLING LOCATION (PORTAL) |
| | INTERCEPTOR TRENCH SAMPLING LOCATION |
| | FENCE LINE |
| | P-1 GOLDER PIEZOMETER - NO PROPOSED SAMPLING UNLESS OTHERWISE SPECIFIED |

CLIENT
HOLCIM

CONSULTANT



| | |
|------------|------------|
| YYYY-MM-DD | 2021-06-17 |
| DESIGNED | JX |
| PREPARED | REDMOND |
| REVIEWED | JX |
| APPROVED | GZ |

- REFERENCE(S)**
1. BASE TOPOGRAPHY PROVIDED BY PUGET SOUND LIDAR CONSORTIUM, DATED 2016, IN SHAPEFILE FORMAT.
 2. TOPOGRAPHY SHOWN REFERENCES NAD83 WASHINGTON STATE PLANE, NORTH ZONE, US FOOT (HARN) PROJECTION. VERTICAL DATUM: NAVD88.

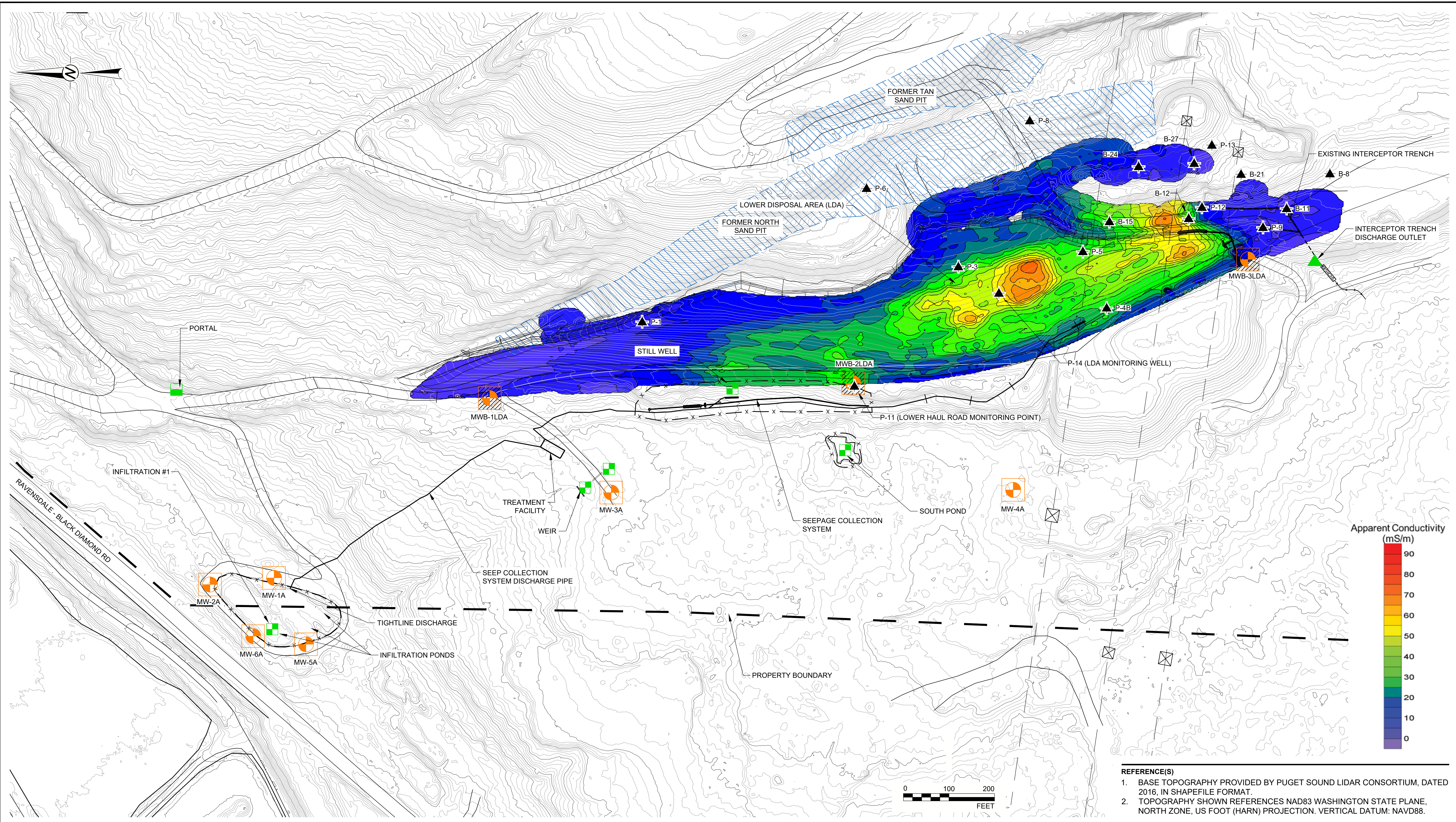
PROJECT
**RI WORK PLAN 2021
RAVENSDALE, WA**

TITLE
2020 GEOPHYSICAL SURVEY LDA AND DSP

| PROJECT NO. | PHASE | REV. | FIGURE |
|-------------|-------|------|--------|
| 152030402 | 004 | 0 | 3-11 |

1 in IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANS/D

Path: \\vancouver.golder.com\golder\geomatics\HOLCIM\Ravensdale\09_PROJECTS\152030402_RI_2019\004_RI_Tasks_2021\02_PRODUCTION\DWG\1 File Name: 152030402_RI_2019\004_RI_Tasks_2021\02_PRODUCTION\DWG\1 Printed By: N.Christensen Date: 2021-06-17 Time: 1:58:46 PM



| LEGEND | |
|--------|---|
| | MW-1A ALLUVIAL MONITORING WELL |
| | MWB-1DDSP BEDROCK MONITORING WELL |
| | MWB-2DSP BEDROCK MONITORING WELL |
| | LDA SURFACE WATER SAMPLING LOCATION |
| | DSP BEDROCK SAMPLING LOCATION (PORTAL) |
| | P-1 GOLDER PIEZOMETER - NO PROPOSED SAMPLING UNLESS OTHERWISE SPECIFIED |
| | INTERCEPTOR TRENCH SAMPLING LOCATION |
| | FENCE LINE |

| | | | | | | | | | | | |
|------------|---|------------|------------|----------|----|----------|---------|----------|----|----------|----|
| CLIENT | HOLCIM | | | | | | | | | | |
| CONSULTANT | <table border="1"> <tr> <td>YYYY-MM-DD</td> <td>2021-06-17</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>GZ</td> </tr> </table> | YYYY-MM-DD | 2021-06-17 | DESIGNED | JX | PREPARED | REDMOND | REVIEWED | JX | APPROVED | GZ |
| YYYY-MM-DD | 2021-06-17 | | | | | | | | | | |
| DESIGNED | JX | | | | | | | | | | |
| PREPARED | REDMOND | | | | | | | | | | |
| REVIEWED | JX | | | | | | | | | | |
| APPROVED | GZ | | | | | | | | | | |

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| | |
|-------------|-------------------------------------|
| PROJECT | RI WORK PLAN 2021 RAVENSDALE, WA |
| TITLE | 2020 GEOPHYSICAL SURVEY LDA |
| PROJECT NO. | 152030402 |
| PHASE | 004 |
| REV. | 0 |
| FIGURE | 3-12 |

1 in IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANS1D