

R.116937.001, Nanoose Transmitter Remediation Project
Nanoose, BC

Drawings

Drawing No.	Drawing Title
626268-601	Site Location
626268-602	Wide Area Site Plan
626268-603	Analytical Results for Soil – Federal Standards
626268-604	Analytical Results for Soil – Provincial Standards
626268-605	Analytical Results for Groundwater – Federal Standards
626268-606	Proposed Extent of Remedial Excavation
626268-607	Proposed Site Restoration

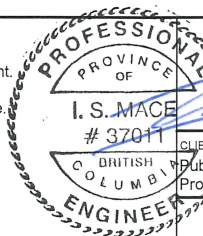


LEGEND

★ Site Location

NOTES

1. Original in colour.
2. Numerical scale reflects full-size print. Print scaling will distort this scale, however scale bar will remain accurate.
3. Intended for illustration purposes, accuracy has not been verified for construction or navigation purposes.



CLIENT NAME:
Public Services and
Procurement Canada



SNC • LAVALIN

PROJECT LOCATION:
Nanoose TX
Nanoose Bay, BC

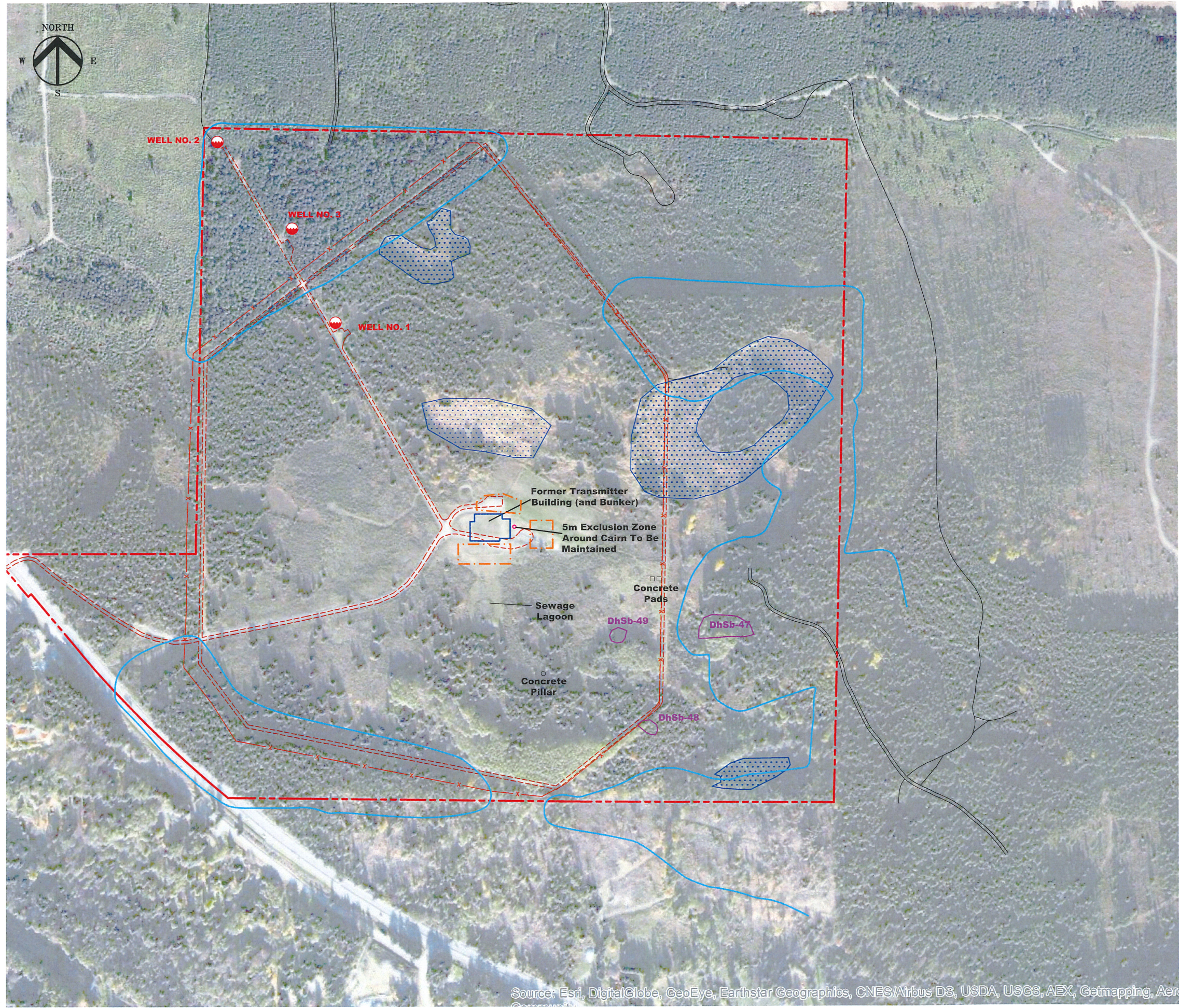
Site Location



BY: PB
CHK'D: CS

DATE: 2016/03/28
SCALE: 1:55,000

REF No: REV: 0
626268-601



LEGEND

- PROPERTY BOUNDARY
- PAVED ROAD
- GRAVEL ROAD
- FENCE
- FORMER STRUCTURE (LOCATION APPROXIMATE)
- WETLAND
- ARCHAEOLOGICAL SITES
- DRINKING WATER WELL
- APPROXIMATE EXTENTS OF EXCAVATION
- POTENTIAL CONTRACTOR EQUIPMENT LAYDOWN AREA AND STOCKPILE LOCATIONS



NOTES

- 1. ORIGINAL DRAWING IN COLOUR.
- 2. LOCATION OF EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND SHOULD BE CONFIRMED PRIOR TO INTRUSIVE WORK. NOT ALL UTILITIES MAY BE SHOWN.

REFERENCE DRAWINGS

FIGURE 2	2004-03	KEYSTONE ENVIRONMENTAL
61323-1	2018-02-08	JE ANDERSON & ASSOCIATES
DWG. NO.	DATE	DESCRIPTION

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK
2	2021-10-20	ISSUED TO CLIENT	PRT	IM
1	2021-07-12	ISSUED TO CLIENT	PRT	IM
0	2020-07-20	ISSUED TO CLIENT	AJK	IM



CLIENT NAME:
PUBLIC SERVICES AND
PROCUREMENT CANADA

PROJECT LOCATION:
NANOOSE TX,
NANOOSE BAY, BC



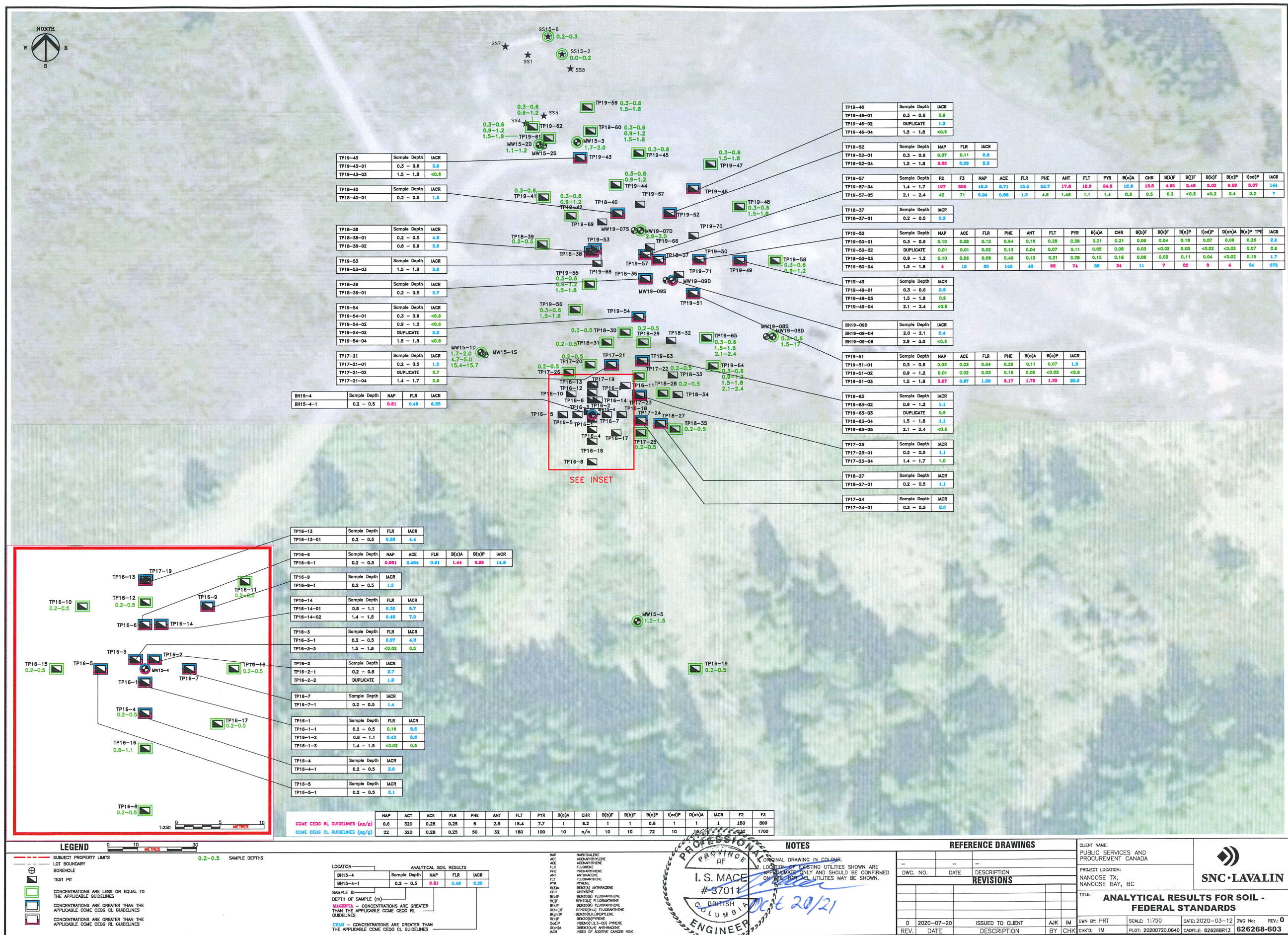
SNC • LAVALIN

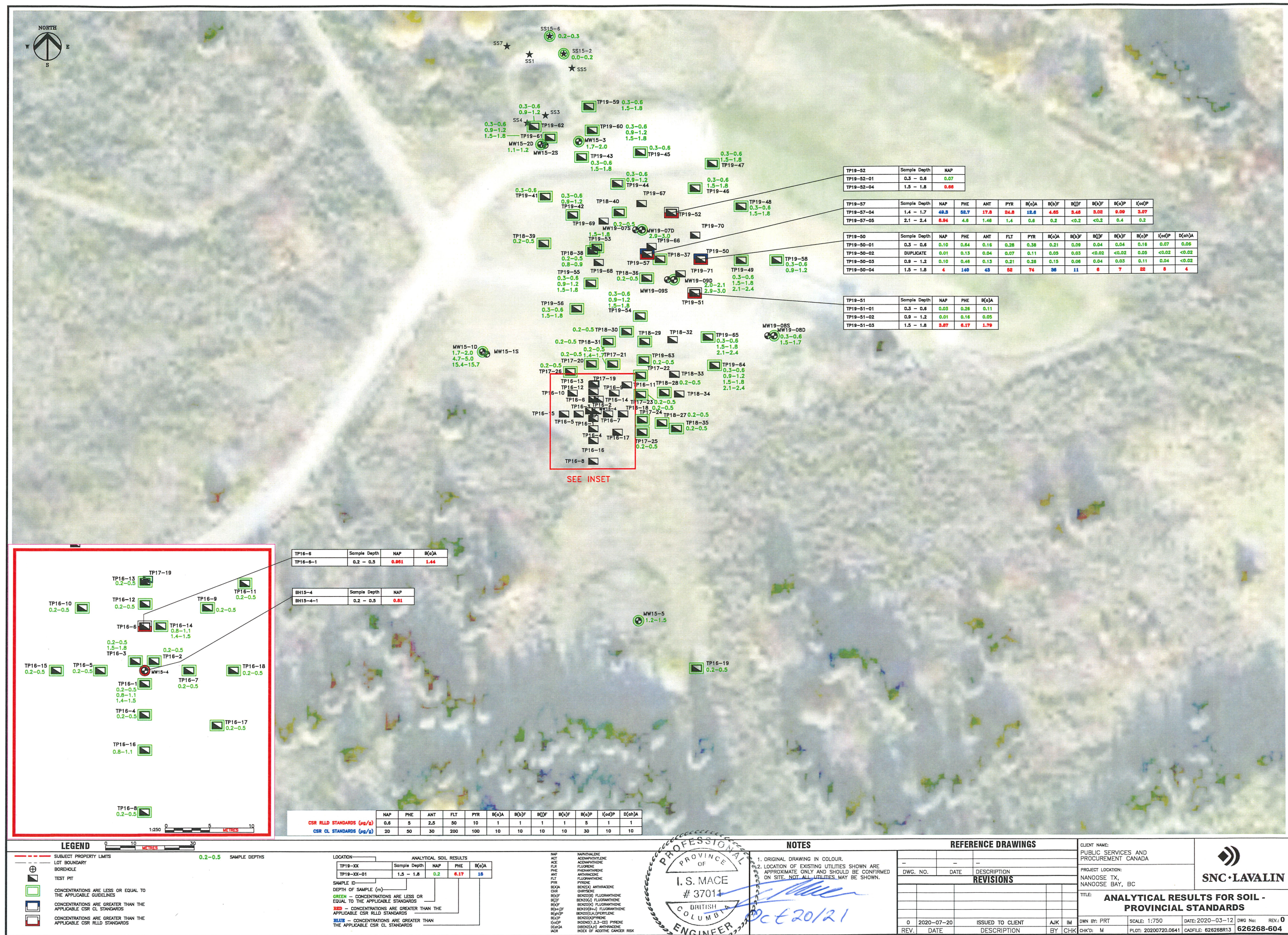
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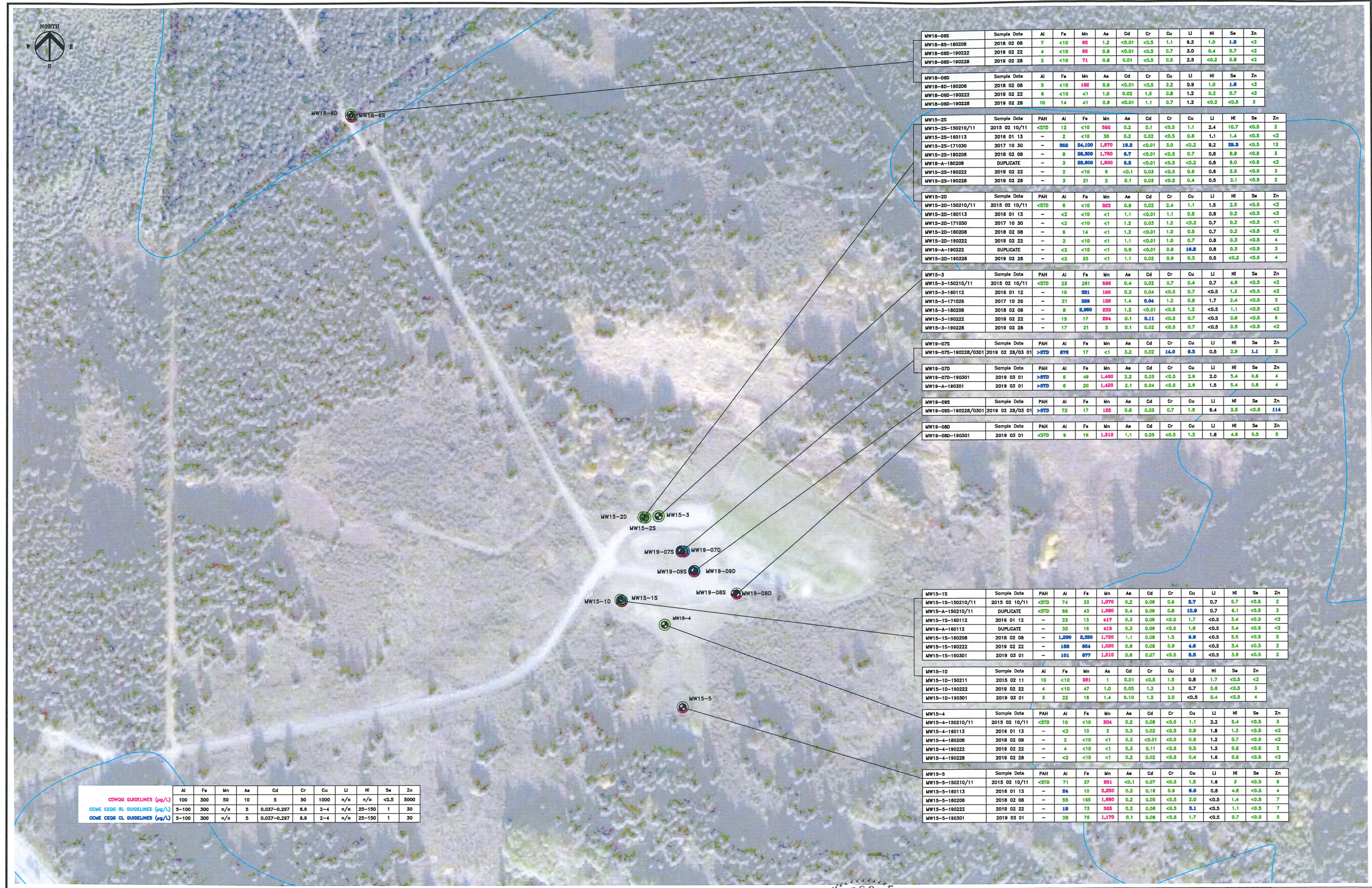
WIDE AREA SITE PLAN

DRN BY: PES	SCALE: 1:6000	DATE: 2020-03-11	DWG No: REV.: 2
CHK'D: CS	PLOT: 20211020.1139	CADFILE: 626268R13	626268-602

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aer







	Al	Fe	Mn	As	Cd	Cr	Cu	Li	Ni	Se	Zn
COWOG GUIDELINES (µg/L)	100	300	50	10	5	50	1000	n/a	n/a	<0.5	5000
COWOG RL GUIDELINES (µg/L)	5-100	300	n/a	5	0.037-0.297	8.9	2-4	n/a	25-150	1	30
COWOG CL GUIDELINES (µg/L)	5-100	300	n/a	5	0.037-0.297	8.9	2-4	n/a	25-150	1	30

MW15-08S	Sample Date	PAH	Al	Fe	Mn	As	Cd	Cr	Cu	Li	Ni	Se	Zn
MW15-08S-180208	2018 02 08	7	<10	68	1.2	<0.01	<0.5	1.1	9.2	1.0	1.8	<2	
MW15-08S-190222	2019 02 22	4	<10	60	0.8	<0.01	<0.5	0.7	3.0	0.4	0.7	<2	
MW15-08S-190228	2019 02 28	2	<10	71	0.8	0.01	<0.5	0.5	2.5	<0.2	0.8	<2	
MW15-08D	Sample Date	PAH	Al	Fe	Mn	As	Cd	Cr	Cu	Li	Ni	Se	Zn
MW15-08D-180208	2018 02 08	5	<10	182	0.6	<0.01	<0.5	2.2	0.9	1.0	1.6	<2	
MW15-08D-190222	2019 02 22	6	<10	<1	1.0	0.02	1.5	0.8	1.2	0.2	0.7	<2	
MW15-08D-190228	2019 02 28	10	14	<1	0.9	<0.01	1.1	0.7	1.2	<0.2	<0.5	3	
MW15-2S	Sample Date	PAH	Al	Fe	Mn	As	Cd	Cr	Cu	Li	Ni	Se	Zn
MW15-2S-150210/11	2015 02 10/11	<STD	12	<10	682	0.2	0.1	<0.5	1.1	2.4	10.7	<0.5	2
MW15-2S-160113	2016 01 13	—	2	<10	30	0.2	0.02	<0.5	0.8	1.1	1.4	<0.5	<2
MW15-2S-171030	2017 10 30	—	868	84,100	1,870	19.8	<0.01	3.0	<0.2	9.2	28.8	<0.5	12
MW15-2S-180208	2018 02 08	—	8	28,300	1,760	8.7	<0.01	<0.5	0.7	0.8	8.9	<0.5	3
MW15-2S-180208	DUPLICATE	—	3	28,600	1,800	8.3	<0.01	<0.5	<0.2	0.8	9.0	<0.5	<2
MW15-2S-190222	2019 02 22	—	2	<10	8	<0.1	0.03	<0.5	0.6	0.6	2.5	<0.5	3
MW15-2S-190228	2019 02 28	—	3	21	2	0.1	0.03	<0.5	0.4	0.5	2.1	<0.5	2
MW15-2D	Sample Date	PAH	Al	Fe	Mn	As	Cd	Cr	Cu	Li	Ni	Se	Zn
MW15-2D-150210/11	2015 02 10/11	<STD	6	<10	323	0.9	0.02	2.4	1.1	1.5	2.5	<0.5	<2
MW15-2D-160113	2016 01 13	—	<2	<10	<1	1.1	<0.01	1.1	0.5	0.8	0.2	<0.5	<2
MW15-2D-171030	2017 10 30	—	<2	<10	<1	1.2	0.03	1.2	<0.2	0.7	0.2	<0.5	<1
MW15-2D-180208	2018 02 08	—	6	14	<1	1.2	<0.01	1.0	0.5	0.7	0.2	<0.5	<2
MW15-2D-190222	2019 02 22	—	2	<10	<1	1.1	<0.01	1.0	0.7	0.8	0.3	<0.5	4
MW15-2D-190222	DUPLICATE	—	<2	<10	<1	0.9	<0.01	0.9	1.8	0.8	0.3	<0.5	3
MW15-2D-190228	2019 02 28	—	<2	25	<1	1.1	0.02	0.9	0.5	0.5	<0.2	<0.5	4
MW15-3	Sample Date	PAH	Al	Fe	Mn	As	Cd	Cr	Cu	Li	Ni	Se	Zn
MW15-3-150210/11	2015 02 10/11	<STD	23	281	696	0.4	0.02	0.7	0.4	0.7	4.8	<0.5	<2
MW15-3-160112	2016 01 12	—	10	321	155	0.3	0.04	<0.5	0.7	<0.5	1.3	<0.5	<2
MW15-3-171026	2017 10 26	—	21	369	158	1.4	0.04	1.2	0.8	1.7	2.4	<0.5	2
MW15-3-180208	2018 02 08	—	8	2,000	233	1.2	<0.01	<0.5	1.2	<0.5	1.1	<0.5	<2
MW15-3-190222	2019 02 22	—	15	17	294	0.1	0.11	<0.5	0.7	<0.5	0.9	<0.5	6
MW15-3-190228	2019 02 28	—	17	21	5	0.1	0.02	<0.5	0.7	<0.5	0.5	<0.5	<2
MW19-07S	Sample Date	PAH	Al	Fe	Mn	As	Cd	Cr	Cu	Li	Ni	Se	Zn
MW19-07S-190228/0301	2019 02 28/03 01	>STD	876	17	<1	3.2	0.02	14.0	9.3	0.5	2.9	1.1	3
MW19-07D	Sample Date	PAH	Al	Fe	Mn	As	Cd	Cr	Cu	Li	Ni	Se	Zn
MW19-07D-190301	2019 03 01	>STD	6	49	1,400	2.2	0.03	<0.5	2.9	2.0	5.4	0.6	4
MW19-07D-190301	2019 03 01	>STD	6	20	1,420	2.1	0.04	<0.5	2.6	1.5	5.4	0.6	4
MW19-09S	Sample Date	PAH	Al	Fe	Mn	As	Cd	Cr	Cu	Li	Ni	Se	Zn
MW19-09S-190228/0301	2019 02 28/03 01	>STD	73	17	125	0.8	0.03	0.7	1.9	9.4	3.5	<0.5	114
MW19-08D	Sample Date	PAH	Al	Fe	Mn	As	Cd	Cr	Cu	Li	Ni	Se	Zn
MW19-08D-190301	2019 03 01	<STD	9	16	1,310	1.1	0.05	<0.5	1.3	1.8	4.9	0.5	5
MW15-1S	Sample Date	PAH	Al	Fe	Mn	As	Cd	Cr	Cu	Li	Ni	Se	Zn
MW15-1S-150210/11	2015 02 10/11	<STD	74	33	1,070	0.2	0.09	0.6	8.7	0.7	5.7	<0.5	2
MW15-1S-150210/11	DUPLICATE	<STD	86	43	1,080	0.4	0.09	0.8	10.8	0.7	6.1	<0.5	3
MW15-1S-160112	2016 01 12	—	23	13	417	0.3	0.09	<0.5	1.7	<0.5	3.4	<0.5	<2
MW15-1S-160112	DUPLICATE	—	30	18	418	0.3	0.09	<0.5	1.8	<0.5	3.4	<0.5	<2
MW15-1S-180208	2018 02 08	—	1,200	2,389	1,780	1.1	0.08	1.5	6.9	<0.5	5.5	<0.5	5
MW15-1S-190222	2019 02 22	—	188	854	1,080	0.8	0.08	0.9	4.8	<0.5	3.4	<0.5	2
MW15-1S-190301	2019 03 01	—	101	677	1,810	0.8	0.07	<0.5	3.3	<0.5	3.9	<0.5	2
MW15-1D	Sample Date	PAH	Al	Fe	Mn	As	Cd	Cr	Cu	Li	Ni	Se	Zn
MW15-1D-150211	2015 02 11	10	<10	281	1	0.01	<0.5	1.5	0.8	1.7	<0.5	<2	
MW15-1D-190222	2019 02 22	4	<10	47	1.0	0.05	1.3	1.3	0.7	0.8	<0.5	3	
MW15-1D-190301	2019 03 01	3	22	18	1.4	0.10	1.5	2.0	<0.5	0.4	<0.5	4	
MW15-4	Sample Date	PAH	Al	Fe	Mn	As	Cd	Cr	Cu	Li	Ni	Se	Zn
MW15-4-150210/11	2015 02 10/11	<STD	10	<10	204	0.2	0.08	<0.5	1.1	2.2	5.4	<0.5	3
MW15-4-160113	2016 01 13	—	<2	10	3	0.3	0.02	<0.5	0.9	1.8	1.3	<0.5	<2
MW15-4-180208	2018 02 08	—	2	<10	<1	0.3	<0.01	<0.5	0.8	1.2	0.7	<0.5	<2
MW15-4-190222	2019 02 22	—	4	<10	<1	0.3	0.11	<0.5	0.5	1.3	0.8	<0.5	2
MW15-4-190228	2019 02 28	—	<2	<10	<1	0.2	0.02	<0.5	0.4	1.6	0.6	<0.5	<2
MW15-5	Sample Date	PAH	Al	Fe	Mn	As	Cd	Cr	Cu	Li	Ni	Se	Zn
MW15-5-150210/11	2015 02 10/11	<STD	71	37	281	<0.1	0.07	<0.5	1.5	1.6	3	<0.5	9
MW15-5-160113	2016 01 13	—	24	10	5,250	0.3	0.16	0.9	8.0	0.8	4.8	<0.5	4
MW15-5-180208	2018 02 08	—	55	185	1,880	0.2	0.05	<0.5	2.0	<0.5	1.4	<0.5	7
MW15-5-190222	2019 02 22	—	19	73	305	0.2	0.06	<0.5	3.1	<0.5	1.1	<0.5	7
MW15-5-190301	2019 03 01	—	28	76	1,170	0.1	0.06	<0.5	1.7	<0.5	0.7	<0.5	5

LEGEND

--- SUBJECT PROPERTY LIMITS

--- LOT BOUNDARY

○ MONITORING WELL

○ CONCENTRATIONS ARE LESS OR EQUAL TO THE APPLICABLE GUIDELINES

○ CONCENTRATIONS ARE GREATER THAN THE APPLICABLE COWOG GUIDELINES

○ CONCENTRATIONS ARE GREATER THAN THE APPLICABLE COWOG RL GUIDELINES

○ CONCENTRATIONS ARE GREATER THAN THE APPLICABLE COWOG CL GUIDELINES

ANALYTICAL GROUNDWATER RESULTS

LOCATION	Sample Date	PAH	Al	Fe	Mn	As	Cd	Cr	Cu	Li	Ni	Se	Zn
MW19-09S	2019 02 28/03 01	>STD	73	17	125	0.8	0.03	0.7	1.9	9.4	3.5	<0.5	114

SAMPLE ID: _____

DEPTH OF SAMPLE (m): _____

BLUE - CONCENTRATIONS ARE GREATER THAN THE APPLICABLE COWOG CL GUIDELINES

MAGENTA - CONCENTRATIONS ARE GREATER THAN THE APPLICABLE COWOG RL GUIDELINES

GREEN - CONCENTRATIONS ARE LESS THAN THE APPLICABLE STANDARDS

REFERENCE DRAWINGS

DWG. NO.	DATE	DESCRIPTION
—	—	—

REV. DATE DESCRIPTION BY CHK

2020-07-20 ISSUED TO CLIENT AJK IM

2020-07-20 DESCRIPTION BY CHK

NOTES

1. EXISTING DRAWINGS IN L&P

2. LOCATION OF EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND SHOULD BE CONFIRMED ON SITE. NO GUARANTEE MAY BE SHOWN.

37011

BRITISH COLUMBIA

ENGINEER

2020/07/20

CLIENT NAME: PUBLIC SERVICES AND PROCUREMENT CANADA

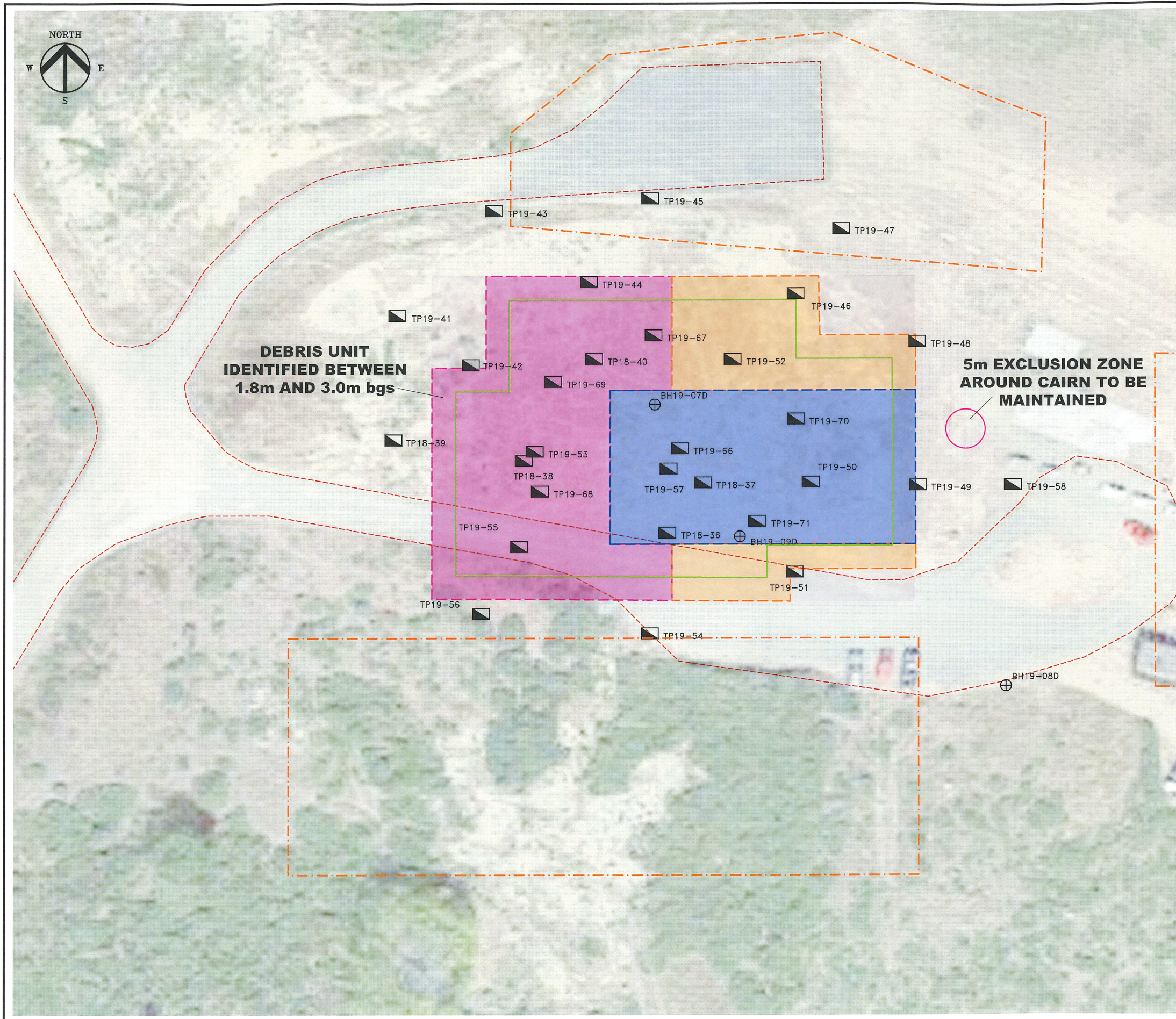
PROJECT LOCATION: NANOOSSE TX, NANOOSSE BAY, BC

TITLE: ANALYTICAL RESULTS FOR GROUNDWATER - FEDERAL STANDARDS

DWN BY: PRT SCALE: 1:750 DATE: 2020-03-12 DWG No: 626268-605

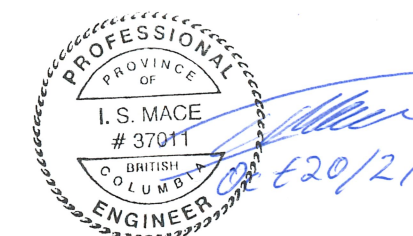
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PAGE: P:\CURRENT PROJECTS\FWGS\626268-NANOOSSE TRANSMITTER\4.0 EXECUTION\4.5 GIS AND DRAWINGS\CAD\626268R13.DWG



LEGEND

- GRAVEL ROAD
- ⊕ BOREHOLE
- ▣ TEST PIT
- PROPOSED EXCAVATION AREA GREATER THAN THE APPLICABLE CCME GUIDELINES (AREA 3)
- PROPOSED EXCAVATION AREA GREATER THAN THE APPLICABLE CSR RLLD STANDARDS (AREA 2)
- PROPOSED EXCAVATION AREA GREATER THAN THE APPLICABLE CSR CL STANDARDS (AREA 1)
- DEBRIS AREA
- POTENTIAL CONTRACTOR EQUIPMENT LAYDOWN AREA AND STOCKPILE LOCATIONS
- ARCHEOLOGICAL SITE



NOTES

1. ORIGINAL DRAWING IN COLOUR.
2. LOCATION OF EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND SHOULD BE CONFIRMED PRIOR TO INTRUSIVE WORK. NOT ALL UTILITIES MAY BE SHOWN.

REFERENCE DRAWINGS

		GOOGLE AERIAL IMAGERY
61323-1	2018-02-08	JE ANDERSON & ASSOCIATES
DWG. NO.	DATE	DESCRIPTION

REVISIONS

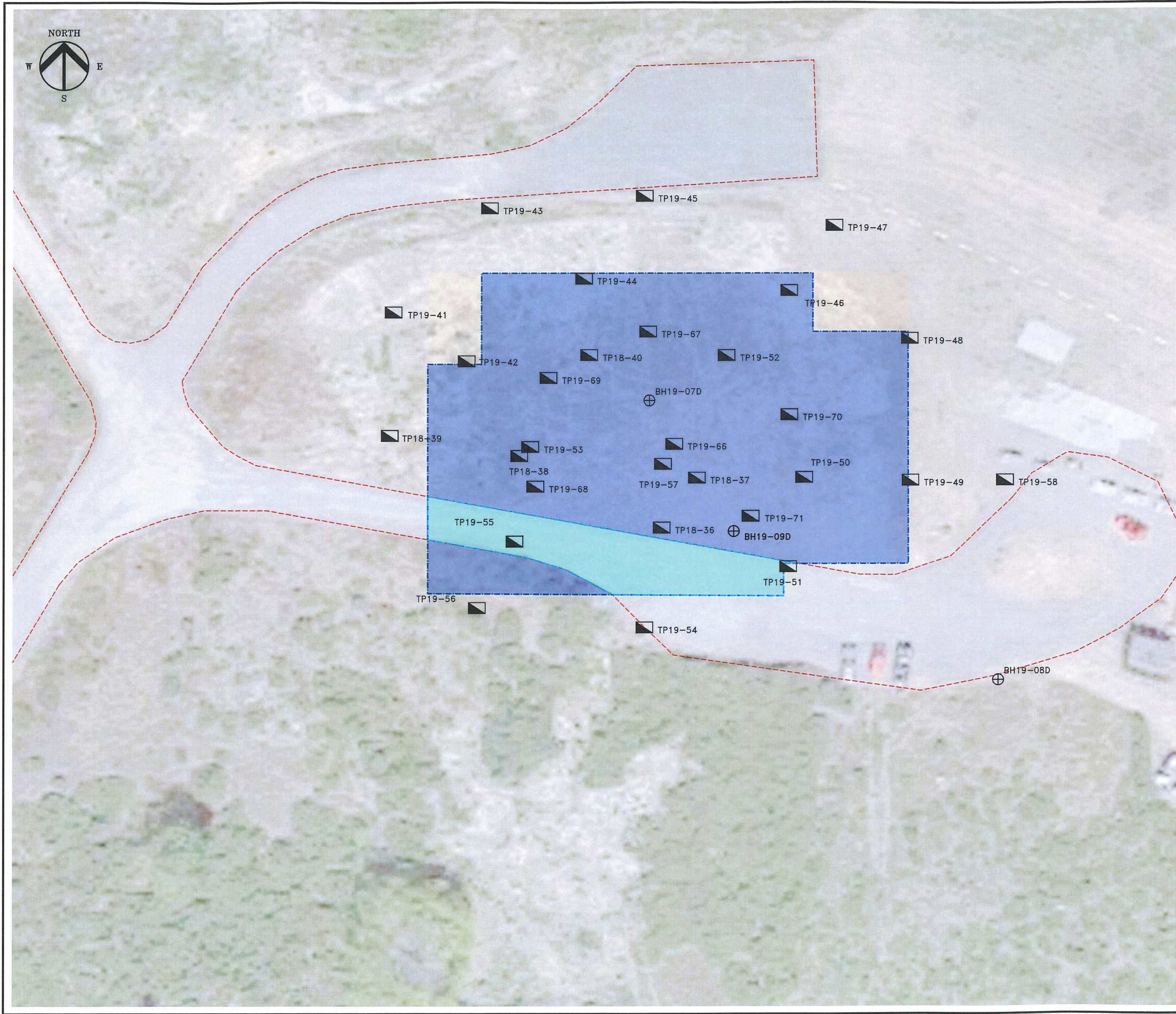
REV.	DATE	DESCRIPTION	BY	CHK
2	2021-10-20	ISSUED TO CLIENT	PRT	IM
1	2021-07-12	ISSUED TO CLIENT	PRT	IM
0	2020-07-20	ISSUED TO CLIENT	AJK	IM



CLIENT NAME: PUBLIC SERVICES AND PROCUREMENT CANADA	PROJECT LOCATION: NANOOSE TX NANOOSE BAY, BC
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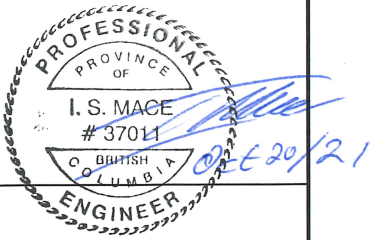
TITLE: PROPOSED EXTENT OF REMEDIAL EXCAVATION

DWN BY: PRT	SCALE: 1:600	DATE: 2020-03-12	DWG No: REV.: 2
CHK'D: IM	PLOT: 20211020.1139	CADFILE: 626268R13	626268-606



LEGEND

- GRAVEL ROAD
- ⊕ BOREHOLE
- ▣ TEST PIT
- BACKFILL COMPACTION 95% WITH 30cm TOPSOIL WITH NATIVE SEED MIX
- BACKFILL COMPACTION 95% WITH ROAD BASE AGGREGATE AT SURFACE



NOTES

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REFERENCE DRAWINGS

		GOOGLE AERIAL IMAGERY
61323-1	2018-02-08	JE ANDERSON & ASSOCIATES
DWG. NO.	DATE	DESCRIPTION

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK
1	2021-07-12	ISSUED TO CLIENT	PRT	IM
0	2020-07-20	ISSUED TO CLIENT	AJK	IM



CLIENT NAME: PUBLIC SERVICES AND PROCUREMENT CANADA	PROJECT LOCATION: NANOOSE TX NANOOSE BAY, BC
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PROPOSED SITE RESTORATION

DWN BY: PRT	SCALE: 1:600	DATE: 2020-03-11	DWG No: REV.: 1
CHK'D: IM	PLOT: 20210712.1417	CADFILE: 626268R13	626268-607