



RESPOND. RECLAIM. RENEW.

REMEDIATION CONTRACTING IS DEAD

REMTECH EAST
JUNE 2, 2022

INTRODUCTION



- SPEC ADDENDUM: Stand-alone remediation contracting for large-scale redevelopment projects is dead.

Why?

- Civil & Environmental are converging
- Risk Assessments permit leaving contamination in place
- Soil Reuse are becoming acceptable and in some cases preferred (Excess Soil Regs)
- Designs are being integrated and more complex
- Schedule compression requires overlapping of work and approvals process
- Tightening Regulations and Soil Tracking Requirements (already in ON / BC) -> Making Civil jobs Environmental

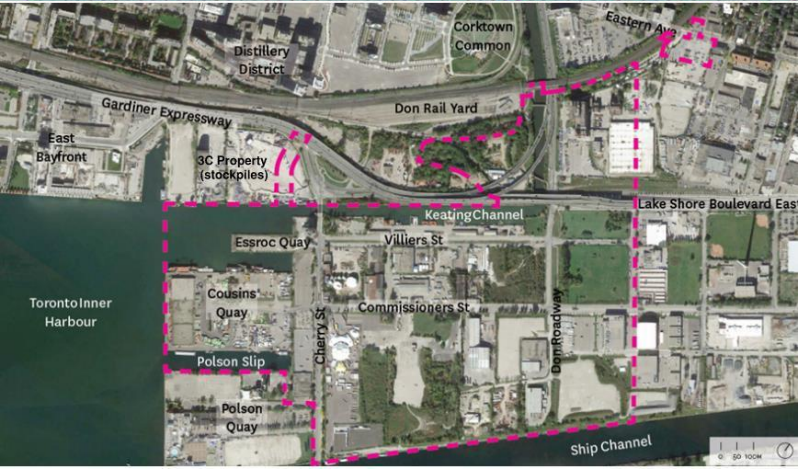
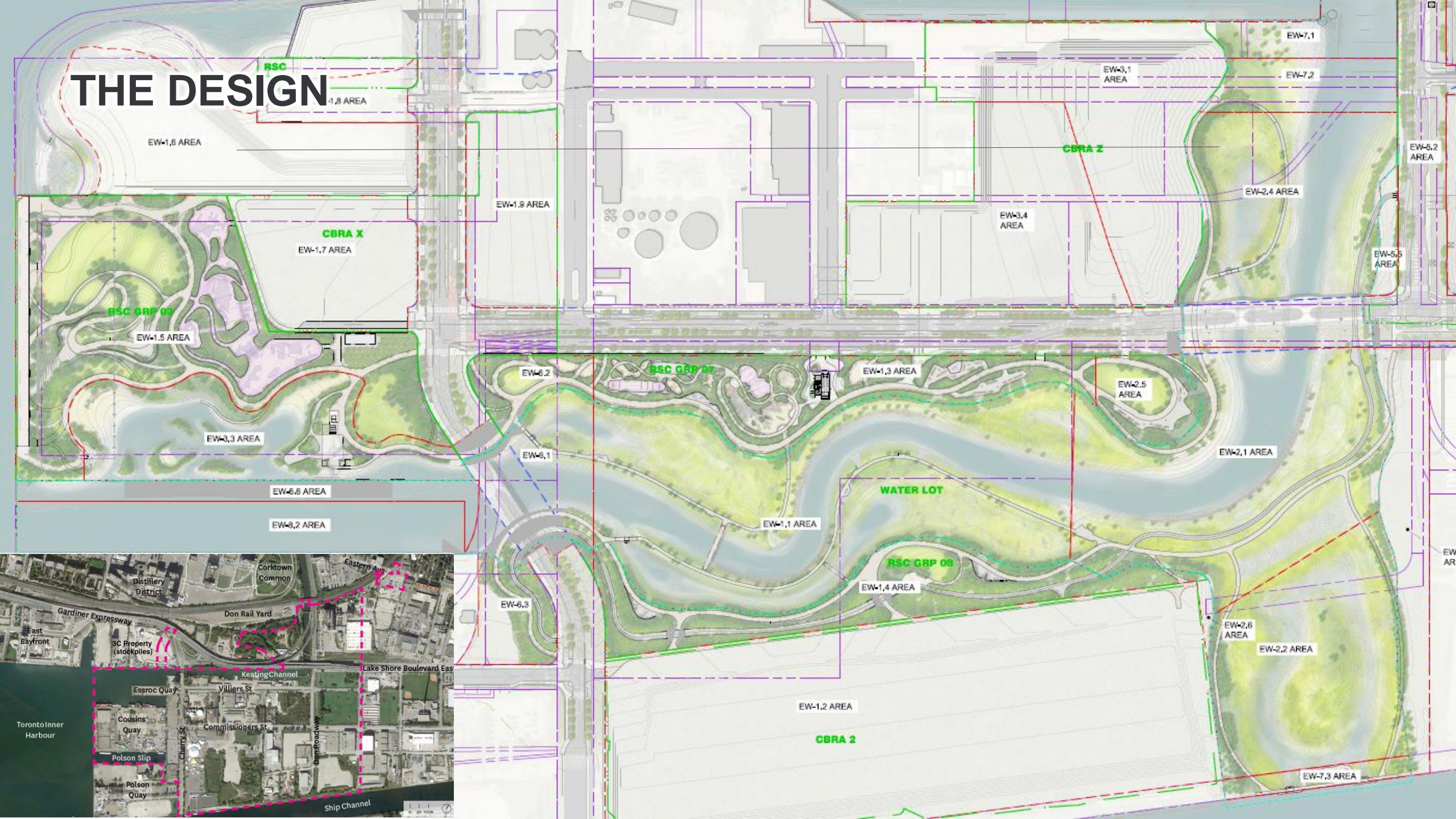
How can contractors respond:

- Multi-disciplinary competency with Integrated Service offering
- Technology
- Solution based approaches

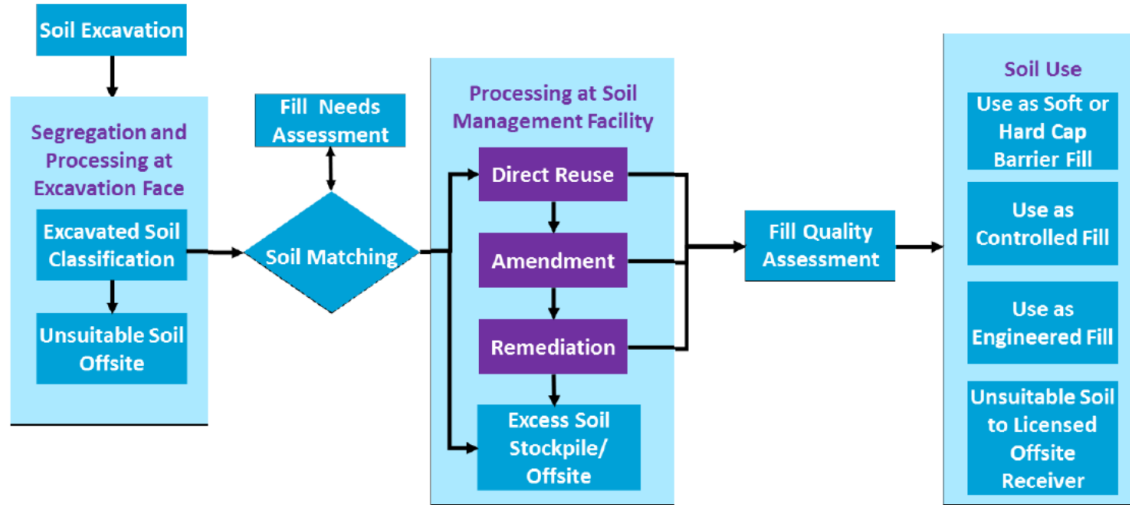
PROJECT OBJECTIVES



THE DESIGN



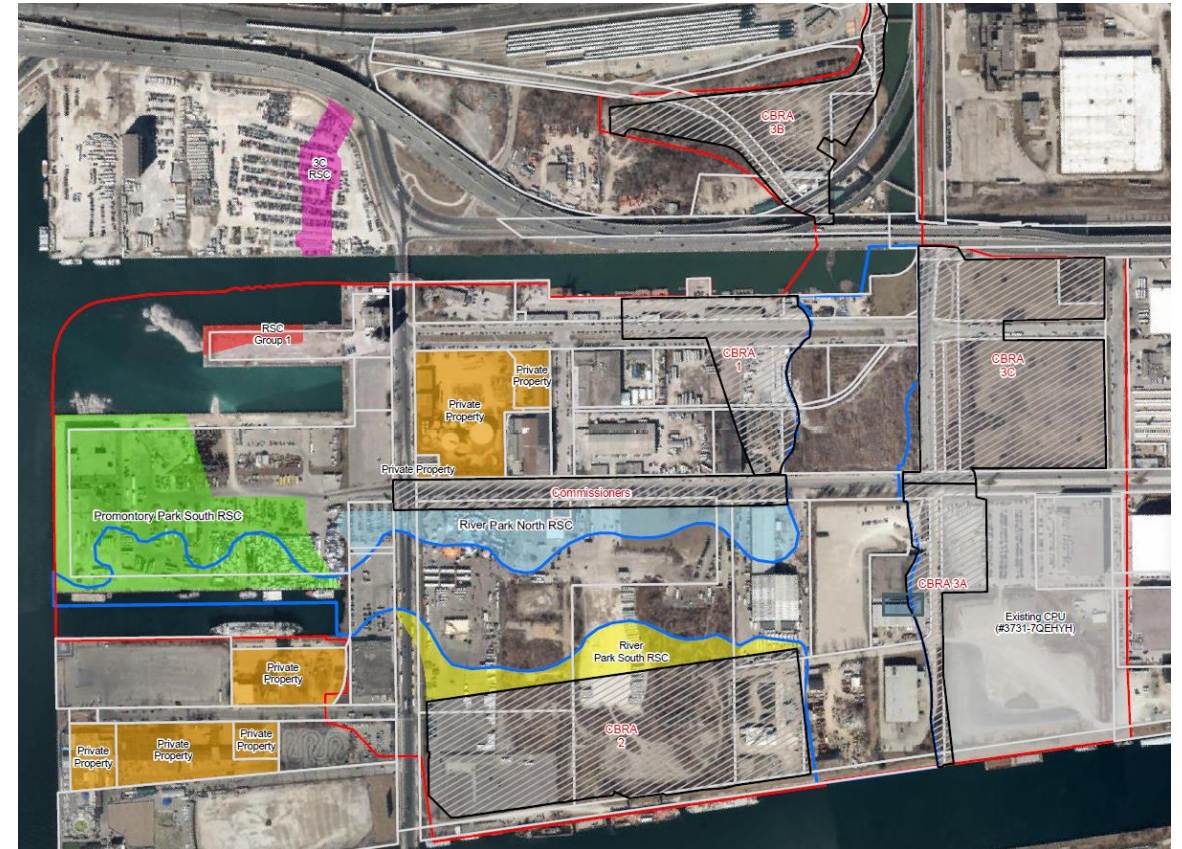
SOIL REUSE CRITERIA & CBRAS



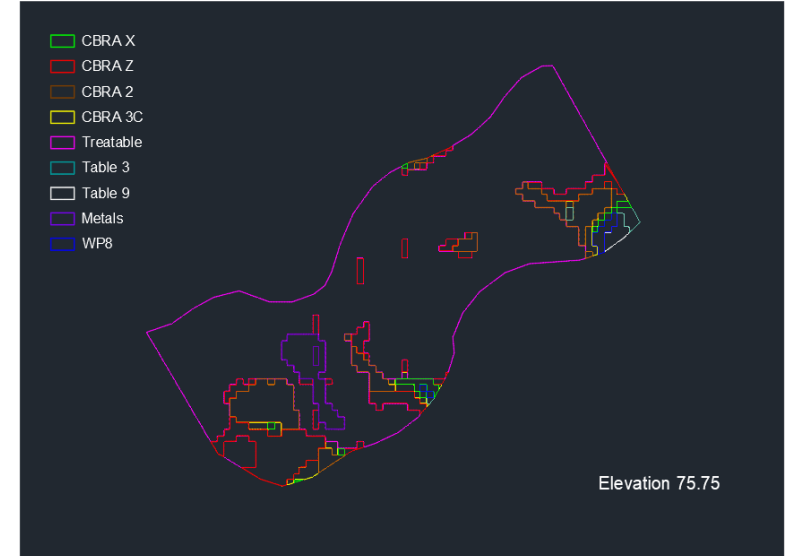
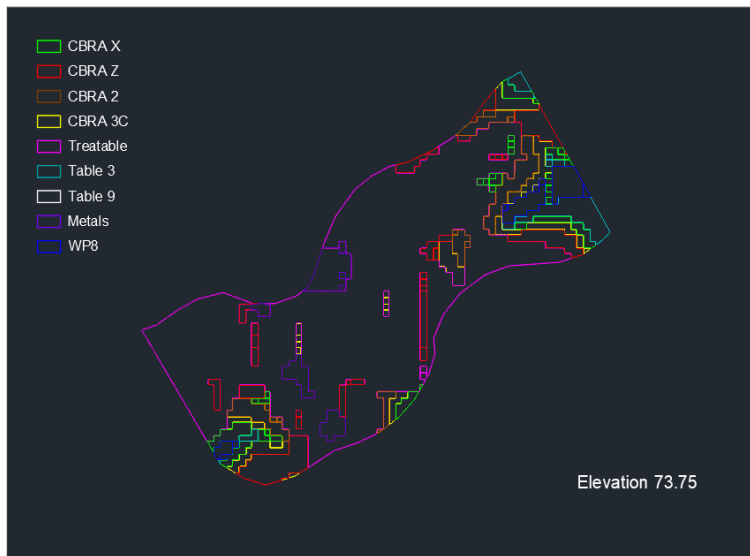
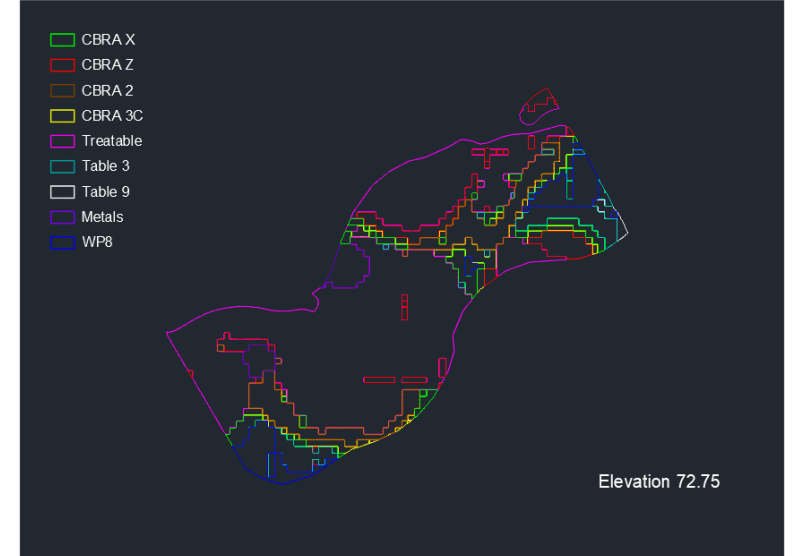
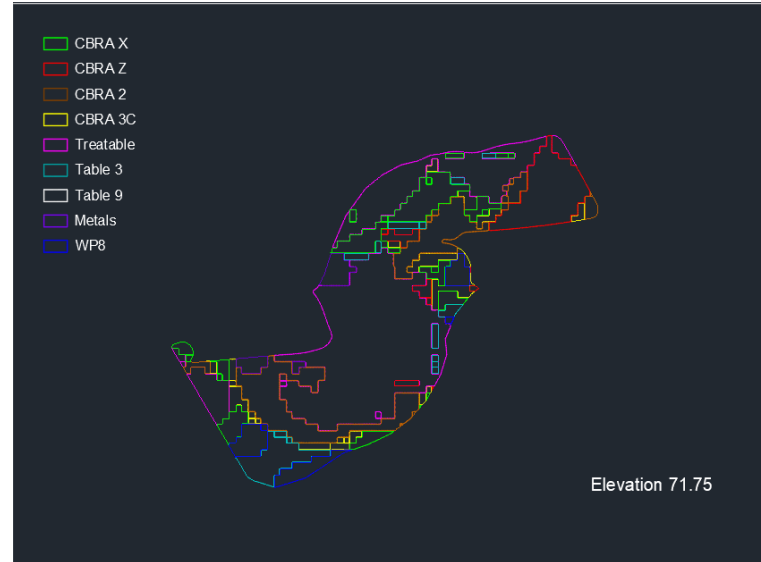
PLFPEI Soil Management Plan, Jacobs (2019)

.2 Digital tracking will include, at a minimum, the following time-stamped criteria for each truck used to move soil or debris material from or within the excavation area shown in the drawings or otherwise identified, commencing with the excavation of source material from the excavation area, and/or the placement of material in a temporary stockpile:

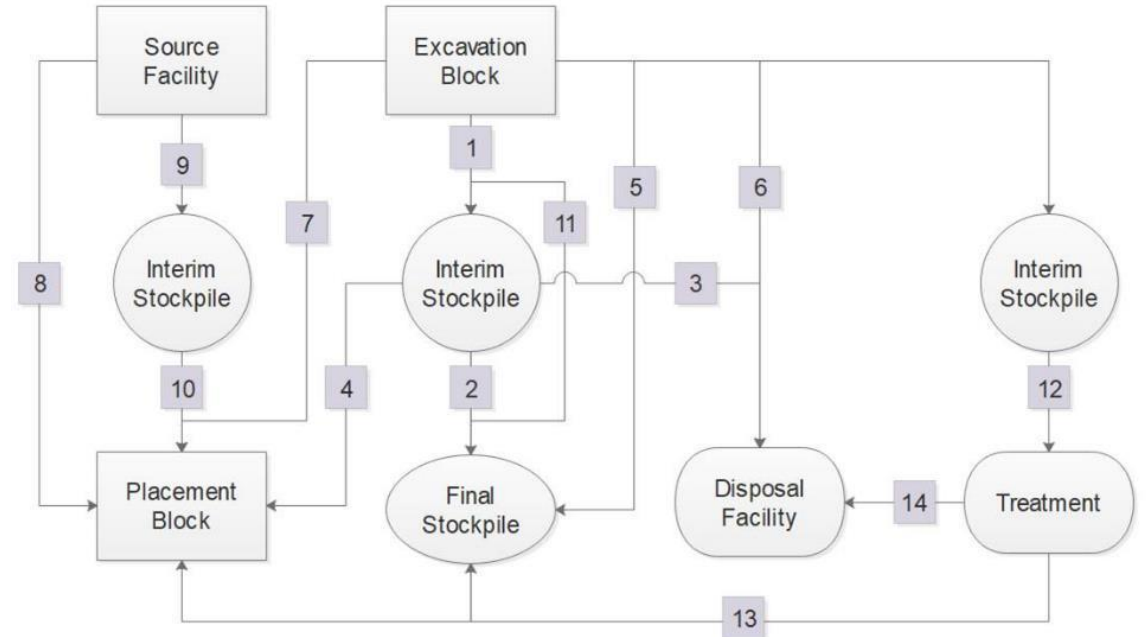
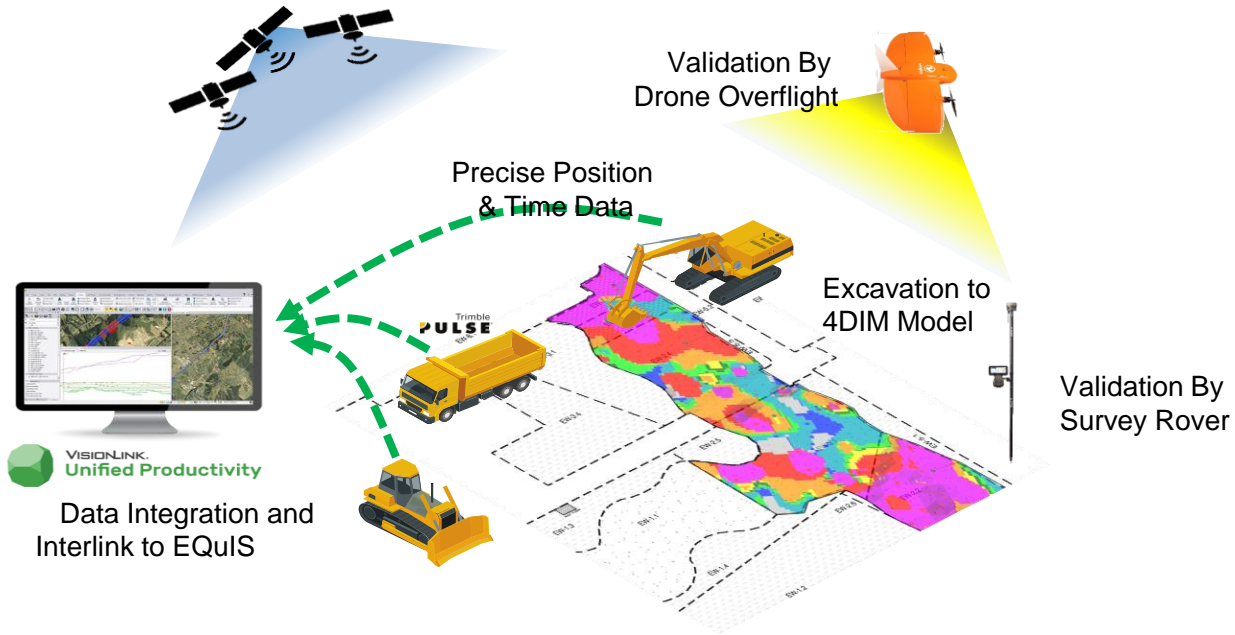
- .1 Unique haul truck identification such as license plate number, registration number or Ministry approval number.
- .2 Load source location (GPS with submeter accuracy coordinates or origin identification), including depth and/or elevation range.
- .3 Load volume.
- .4 Qualitative assessment by Subcontractor of the moisture content (e.g., wet, dry, moist, etc.)
- .5 Load soil type (e.g., sand, fill, silt, etc.)
- .6 Load source soil excavation category as defined on Drawing 4-E-1
- .7 Drop location (spatial coordinates of fill placement) and approximate lift thickness and elevation.



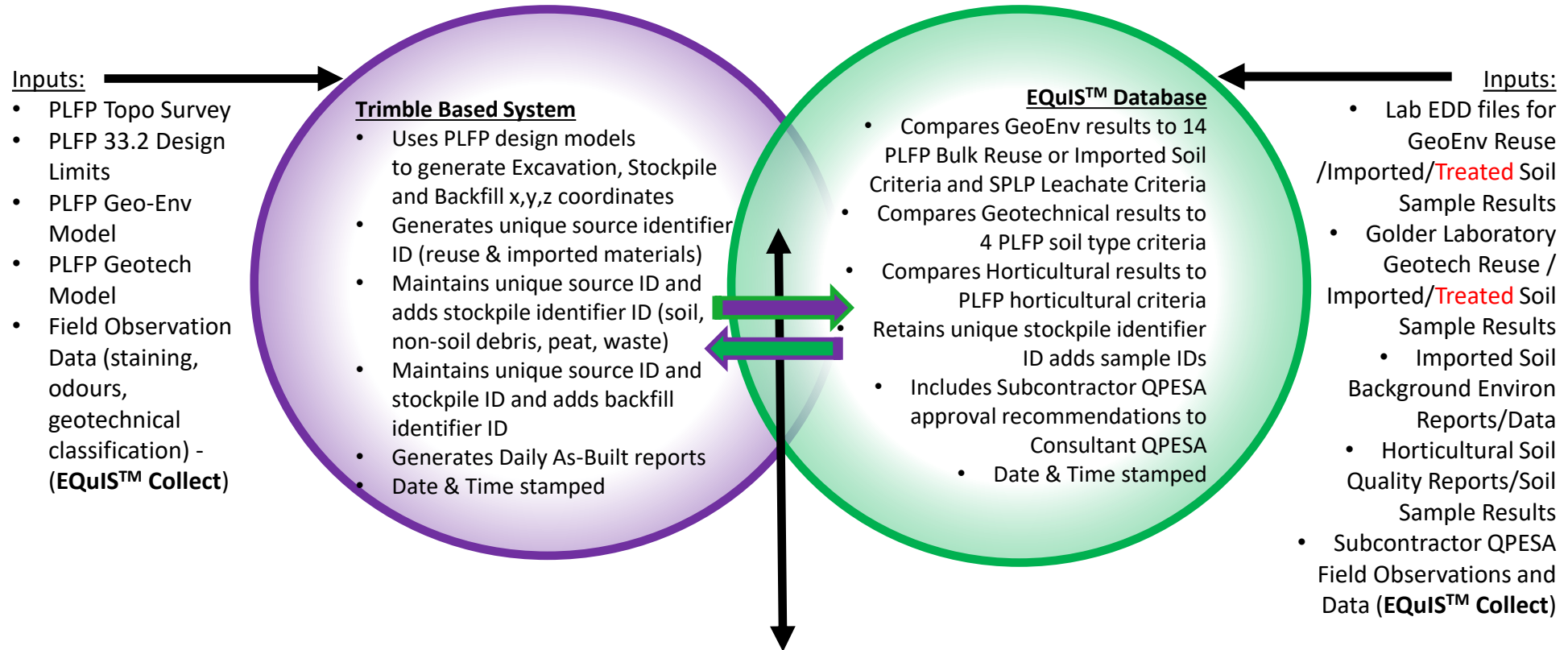
THE MODEL



THE THEORY OF AN APPROACH – FACE TO PLACE



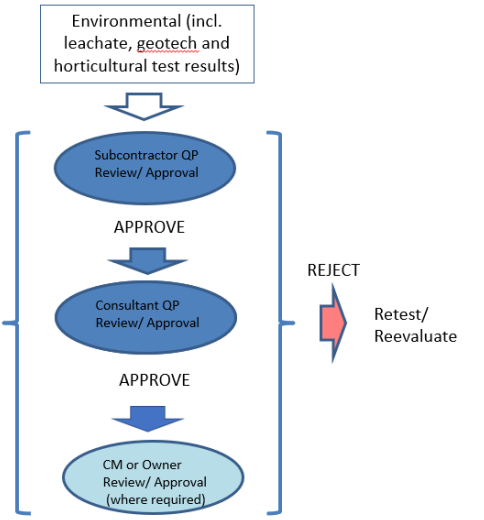
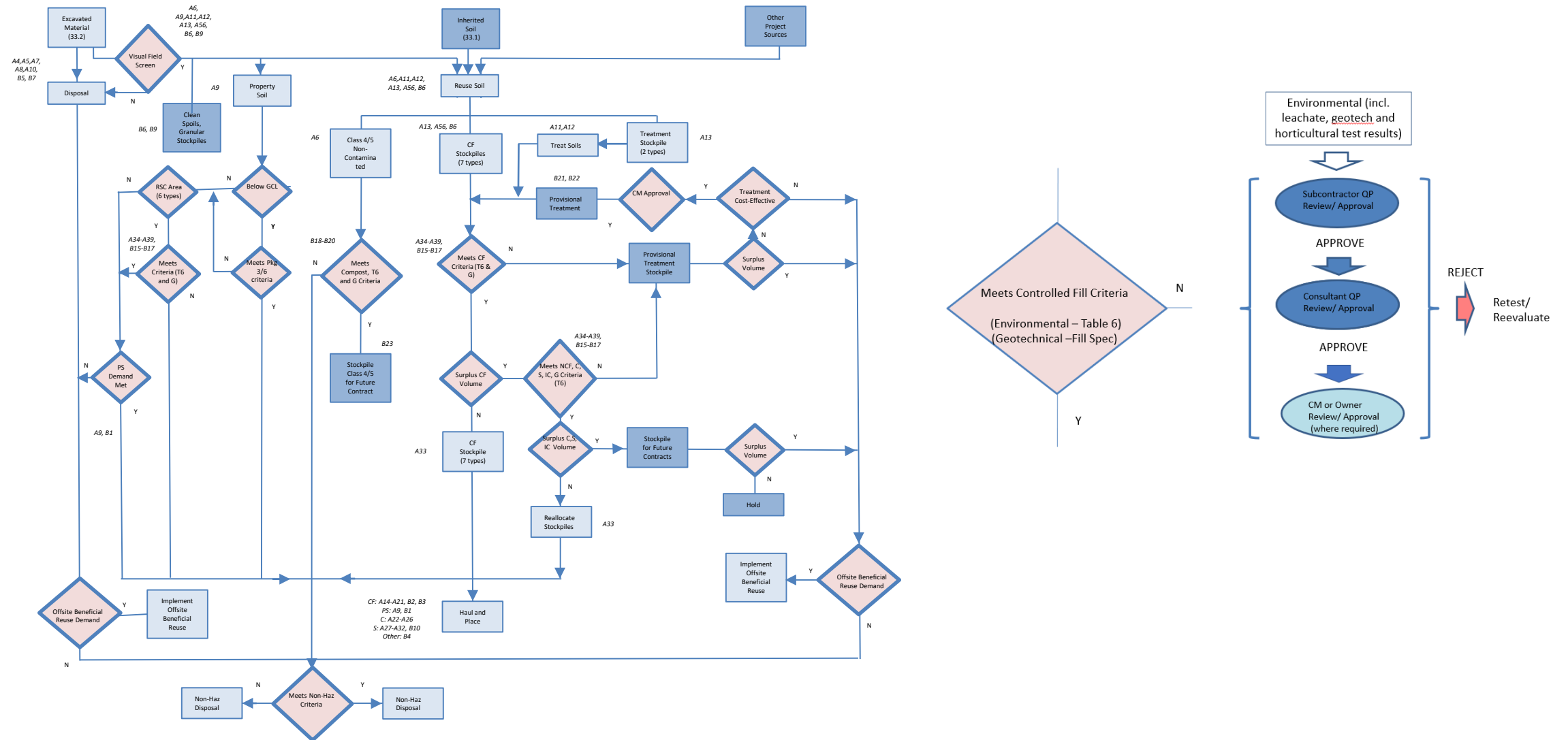
THE THEORY OF AN APPROACH - STAKEHOLDER



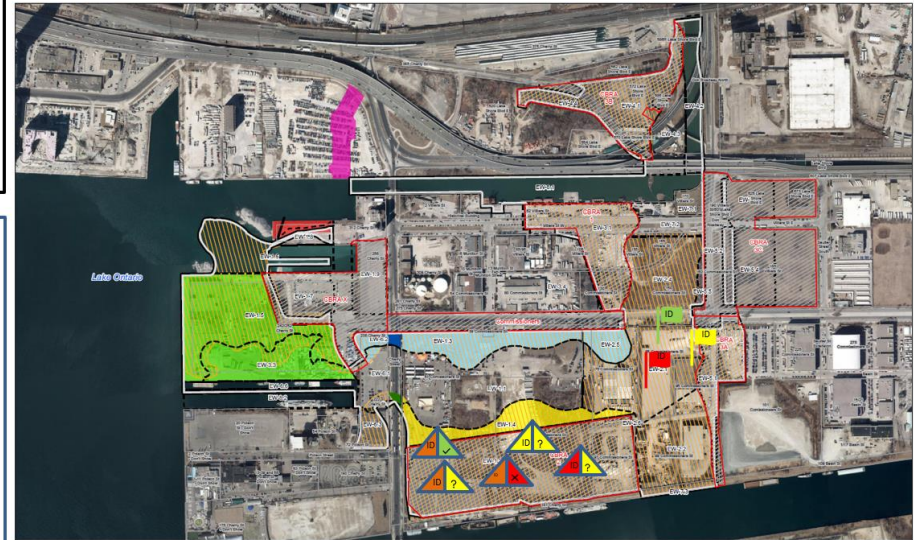
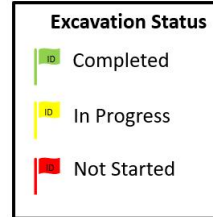
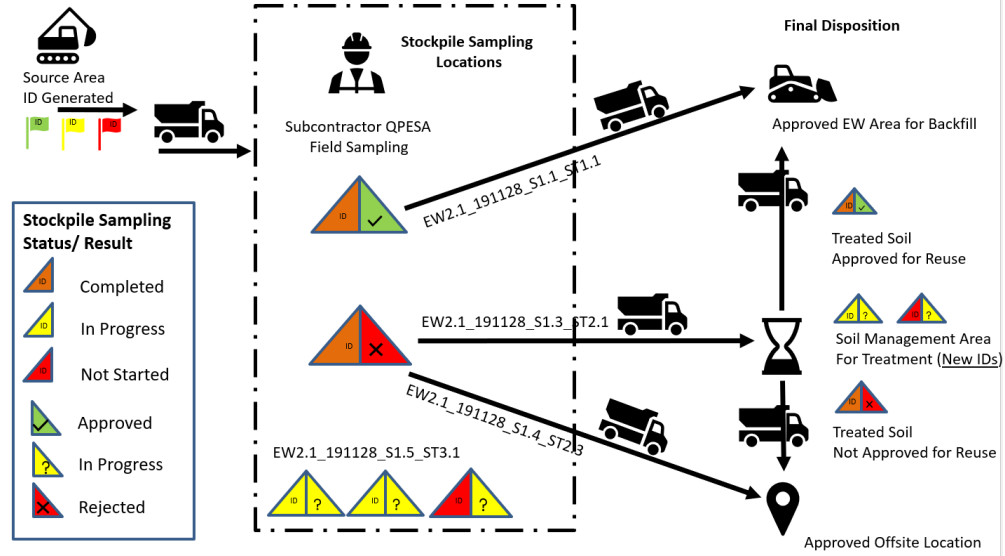
Stakeholder Accessibility Platform:

- Consultant QPESA (Final Approvals)
 - Consultant QPRA
 - Owner (Waterfront Toronto)
- Construction Manager (Ellis Don) – QA results

THE THEORY OF AN APPROACH - WORKFLOW



THE THEORY OF AN APPROACH – THE PLATFORM



SOURCE ID	STOCKPILE ID	GEOENV APPROVALS	GEOTECH APPROVALS	HORT APPROVALS	SubContractor QPESA - Reuse RECOMMENDATION	CONSULTANT QPESA APPROVAL
EW2.1_191128_S1.1	EW2.1_191128_S1.1_ST1.1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Table 1 RSC Area	Pending 6 Days
EW2.1_191128_S1.2	EW2.1_191128_S1.2_ST1.2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SMA_Amend	NA
EW2.1_191128_S1.3	EW2.1_191128_S1.3_ST2.1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SMA_Treat	NA
EW2.1_191128_S1.4	EW2.1_191128_S1.4_ST2.2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Table 3 CBRA	Approved 191125
EW2.1_191128_S1.4	EW2.1_191128_S1.4_ST2.3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Offsite Disposal	Approved 191109
EW2.1_191128_S1.5	EW2.1_191128_S1.5_ST3.1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Pending Results	Awaiting Recommendation

Soil Source Location: **EW2.1**
 Source Sub Volume: **191128**
 Stockpile Subsection/Sample#: **S1.1_ST1.2.1**
 Date Excavated: **191128**
 Stockpile ID: **S1.1**

WHAT WE ACTUALLY BUILT



VISIONLINK 3D Productivity Manager

Current Week (06/28/21 - 06/30/21)

Hide Quality Metrics

Cut/Fill

Cut/Fill Volumes

Recalculate Volumes

This is how much work was completed.

From: <Current Filter> 06/28/21 12:00 AM
To: <Current Filter> 06/30/21 07:36 AM

GOLDER PLFP Soil Tracking

Home About Contact

Hello Nicholas.Doucette@Golder.com | Log off

Reference Links

Stockpile Sample Key

Stockpiles Summary

STOCKPILE ID	GEOTECH APPROVALS	LEACHATE APPROVALS	GLITCH APPROVALS	TREATMENT APPROVALS	
EW1_1_A001_ST0002_B01	X	X	X	X	Samples
EW1_1_A000_ST0001_B0X	X	X	X	X	Samples
EW1_1_A000_ST0007_B06	X	X	X	X	Samples
EW1_1_A000_ST0030_B06	X	X	X	X	Samples
EW1_1_A000_ST0030_B19	X	X	X	X	Samples
EW1_1_A000_ST0031_B19	X	X	X	X	Samples
EW1_1_A000_ST0038_B17	X	X	X	X	Samples
EW1_1_A000_ST0039_B17	X	X	X	X	Samples
EW1_1_A000_ST0040_B17	X	X	X	X	Samples
EW1_1_A000_ST0043_B06	X	X	X	X	Samples

SYSTEM ACTIVITY REPORTING

Filters Results

Lead Date/Time	Equipment	Volume (Cubic meters)	Stock ID	Material	Characterization	Earthwork Area	Municipal Address	Line Item	Dump Date/Time	Route	Stock ID	Earthwork Area	Ticket Number	Ticket Bal.	Ticket Weight (Metric Tons)
2021-06-07 08:43:49	RT009 HW300	12.0	370120 3.4	CBRA 2	CBRA 2 (C)	EW 3.4	7638 Commissioners St	83.1	2021-06-07 09:21:34	Excavator to Stockpile	P00482	EW 3.4			
2021-06-07 09:37:44	RT009 HW300	12.0	370120 3.4	CBRA 2	CBRA 2 (C)	EW 3.4	7638 Commissioners St	83.1	2021-06-07 09:42:59	Excavator to Stockpile	P00482	EW 3.4			
2021-06-07 09:46:04	RT009 HW300	12.0	370120 3.4	CBRA 2	CBRA 2 (C)	EW 3.4	7638 Commissioners St	83.1	2021-06-07 10:08:37	Excavator to Stockpile	P00482	EW 3.4			
2021-06-07 10:06:44	RT009 HW300	12.0	370120 3.4	CBRA 2	CBRA 2 (C)	EW 3.4	7638 Commissioners St	83.1	2021-06-07 10:12:46	Excavator to Stockpile	P00482	EW 3.4			
2021-06-07 10:16:47	RT009 HW300	12.0	370120 3.4	CBRA 2	CBRA 2 (C)	EW 3.4	7638 Commissioners St	83.1	2021-06-07 10:39:49	Excavator to Stockpile	P00482	EW 3.4			
2021-06-07 10:39:48	RT009 HW300	12.0	370120 3.4	CBRA 2	CBRA 2 (C)	EW 3.4	7638 Commissioners St	83.1	2021-06-07 10:47:10	Excavator to Stockpile	P00482	EW 3.4			
2021-06-07 11:02:06	RT009 HW300	12.0	370120 3.4	CBRA 2	CBRA 2 (C)	EW 3.4	7638 Commissioners St	83.1	2021-06-07 11:38:12	Excavator to Stockpile	P00482	EW 3.4			
2021-06-07 11:40:49	RT009 HW300	12.0	370120 3.4	CBRA 2	CBRA 2 (C)	EW 3.4	7638 Commissioners St	83.1	2021-06-07 11:47:19	Excavator to Stockpile	P00482	EW 3.4			
2021-06-07 12:05:28	RT009 HW300	12.0	370120 3.4	CBRA 2	CBRA 2 (C)	EW 3.4	7638 Commissioners St	83.1	2021-06-07 12:08:52	Excavator to Stockpile	P00482	EW 3.4			
2021-06-07 12:11:35	RT009 HW300	12.0	370120 3.4	CBRA 2	CBRA 2 (C)	EW 3.4	7638 Commissioners St	83.1	2021-06-07 12:18:23	Excavator to Stockpile	P00482	EW 3.4			
2021-06-07 12:24:34	RT009 HW300	12.0	370120 3.4	CBRA 2	CBRA 2 (C)	EW 3.4	7638 Commissioners St	83.1	2021-06-07 12:46:03	Excavator to Stockpile	P00482	EW 3.4			
2021-06-07 13:03:02	RT009 HW300	12.0	370234	Table 9	Storage/Rem (C)	EW 2.4	150 Commissioners St	A19	2021-06-07 13:07:18	Excavator to Stockpile	T00049	EW 1.2			
2021-06-07 13:12:19	RT009 HW300	12.0	370234	Table 9	Storage/Rem (C)	EW 2.4	150 Commissioners St	A19	2021-06-07 13:19:37	Excavator to Stockpile	T00049	EW 1.2			
2021-06-07 13:29:14	RT009 HW300	12.0	370234	Table 9	Storage/Rem (C)	EW 2.4	150 Commissioners St	A19	2021-06-07 13:38:12	Excavator to Stockpile	T00049	EW 1.2			

SITE: THE PORTLANDS - TO... SURVEY: 25 JUN 2021-QM

FILES REPORTS SHARE SETTINGS

MEASURE Point Line Polygon

Search for measurements

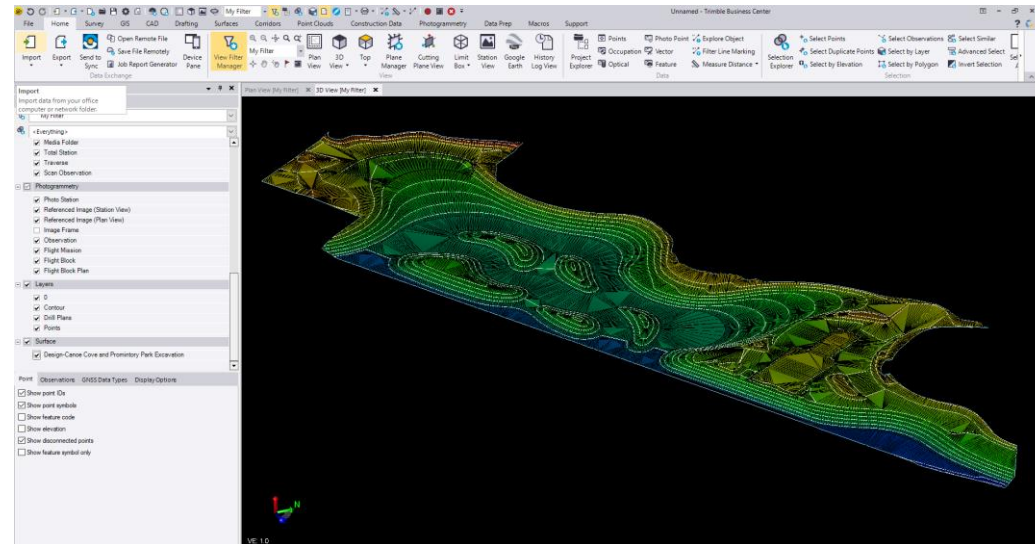
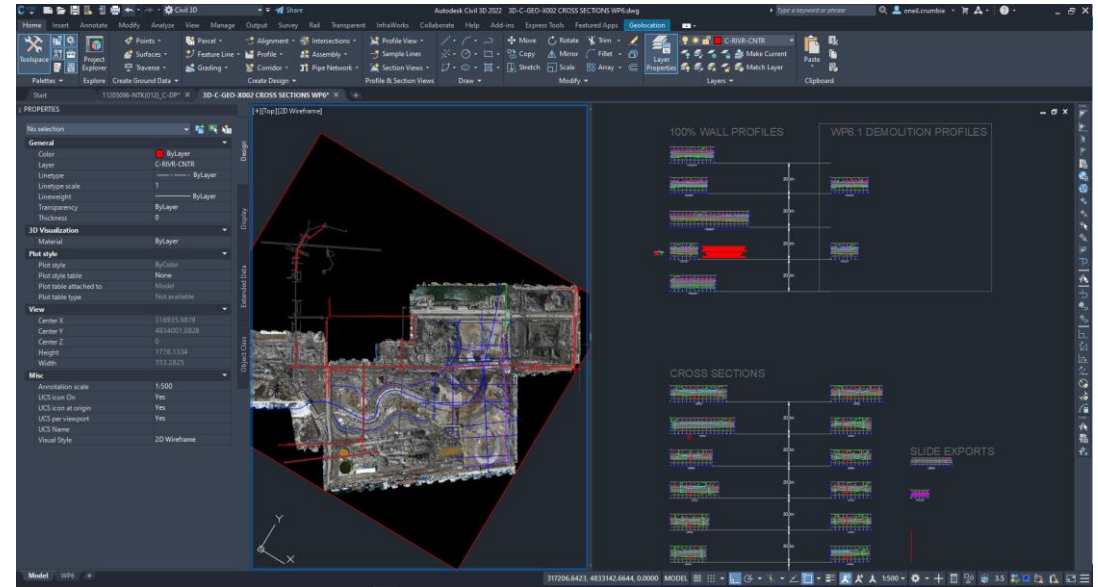
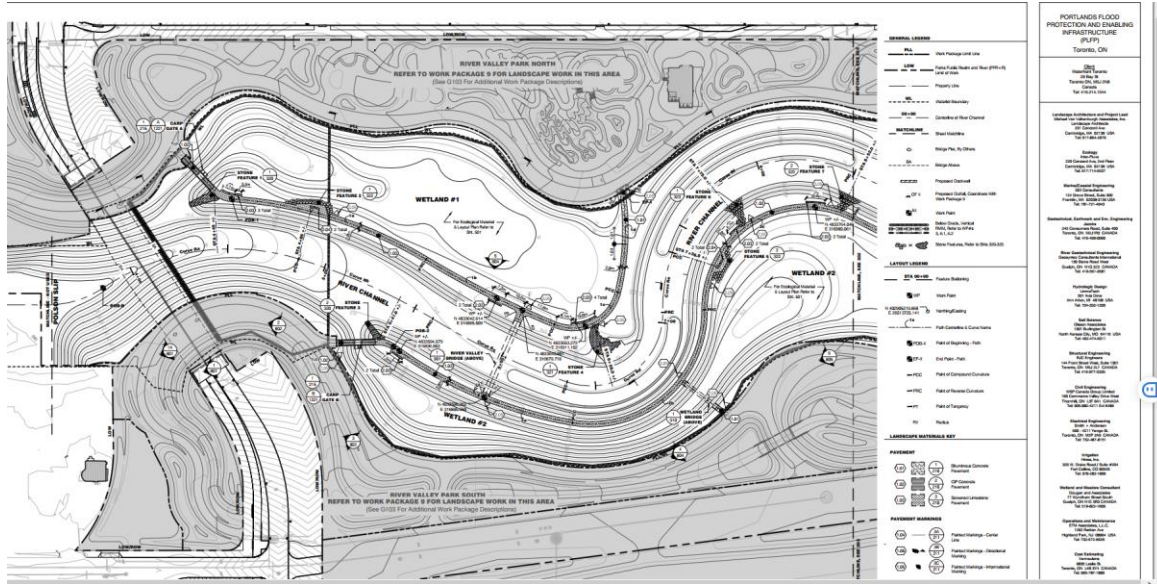
FOLDERS

- EW1.1 CALCS
- EW2.1 CALCS (empty)
- EW2.2 CALCS (empty)
- EW2.4 CALCS (empty)
- RPN CALCS (empty)
- RPS CALCS (empty)
- STOCKPILES (empty)
- Alicia - Stockpile Labels
- Alicia - Measurements
- DRONE - GCPS
- Dan Kalte
- Dave L-Measurements (empty)

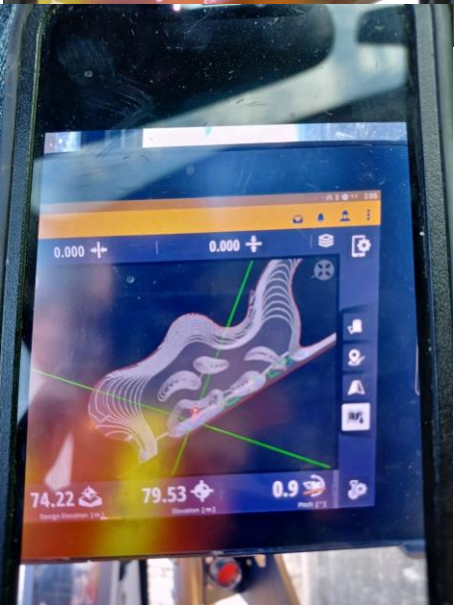
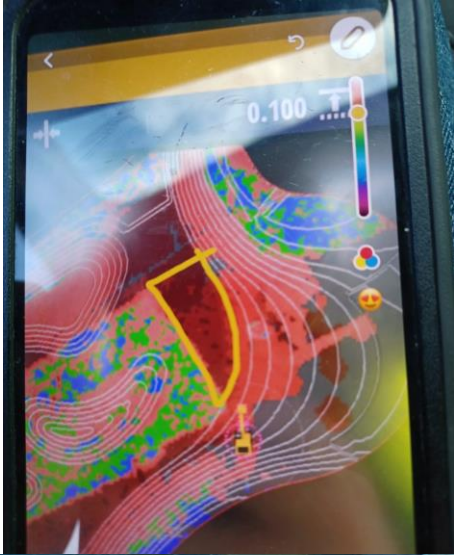
EXPORT PDF MAP

Photo viewer Timeline POWERED BY: proper 100m Local Grid (QM-The Portlands-Toronto-Calibration.jd) N 4 834 307 144 m E 316 834 424 m Z 67 145 m

GEOMATICS DESIGN MANAGEMENT



GRADE CONTROL - OPERATOR



GRADE CONTROL - MANAGER



Trimbles WorksManager Portlands

Projects > Portlands > Dashboard

PORTLANDS

- Map
- Designs
- Members
- Devices
- Settings
- My Projects
- My Accounts

336 DKS10018
Not Reporting
Last Reported 3 days ago

VOLVO EC300 310550
Running Old Design
SDMA - Upland Designs.V01
Last Reported 36 minutes ago

330F
Design Up to Date
CanoeC-SSP-Lineark-V2.V04
Last Reported a minute ago

Z6A00506
No Designs Available
Last Reported a few seconds ago

DEVICE STATUS - MAY 30, 2022

- Not Reporting
- Devices Reporting
- Warnings

DESIGNS IN USE

- Show All
- EWS.1 Additional Fill.V05
- SDMA - Upland Designs.V04
- EWS.1 FLP Works.V07
- EW1.2.RG.SI-04-008-2022-01-10.V04
- Subgrade-Drainage-Protective Cover - All Areas.V04
- Canoe Cove - 34.1.V08

0105
0232
0151
0216 0217
0205

Name	Version	Last Modified	Modified By
Commissioners Cut North of RPN 1B_temp	V04	May 30, 2022 8:10 am	Oneil Crumble
EWS.1 Additional Fill	V05	May 30, 2022 8:10 am	Oneil Crumble
Fill Around ISPS-Temp2	V04	May 30, 2022 8:10 am	Oneil Crumble
Enbridge North - Surcharge Removal_North Section	V04	May 30, 2022 8:10 am	Oneil Crumble
Enbridge North Road Slope Removal	V04	May 30, 2022 8:10 am	Oneil Crumble
RPN - 1B Surcharge Removal	V05	May 30, 2022 8:10 am	Oneil Crumble
EnB_Surcharge Removal and CCap Placement	V04	May 30, 2022 8:10 am	Oneil Crumble
RPS Blcock 1A1 Stockpile S2 Removal_updated	V04	May 30, 2022 8:10 am	Oneil Crumble
Comm Street-FLP Cut - April 22	V04	May 30, 2022 8:10 am	Oneil Crumble
Canoe Cove-Shoreline and Islands-Stone Fill	V04	May 30, 2022 8:10 am	Oneil Crumble
Canoe Cove -West Beach Surfaces	V04	May 30, 2022 8:10 am	Oneil Crumble
Canoe Cove - Rip Rap (Armour Profile A and B)	V04	May 30, 2022 8:10 am	Oneil Crumble

3D Productivity Manager

Custom (04/24/20 - 10/30/20)

Machine Name	Date/Time	Design	Pass	Target Pass Count	Lift	Elevation (m)	Target Thickness (m)	GPS Mode	GPS Accuracy	GPS Tolerance (m)	Machine Gear	Speed (kmph)	CMV	Target C
DGN SGG00906	07/17/20 06:52 AM	Target Excavation - July 1 2020	1	0	-	75.875	-	67	Medium	0.050	Forward	6.5	-	-

RPS TRACKER

- Morgan Chambers
- Dispatcher
- Travel Journal
- Events
- Statistics Report
- Cycle Time Report
- Cycle Planner
- Operations Settings
- Project Settings
- QM Project
- Administration

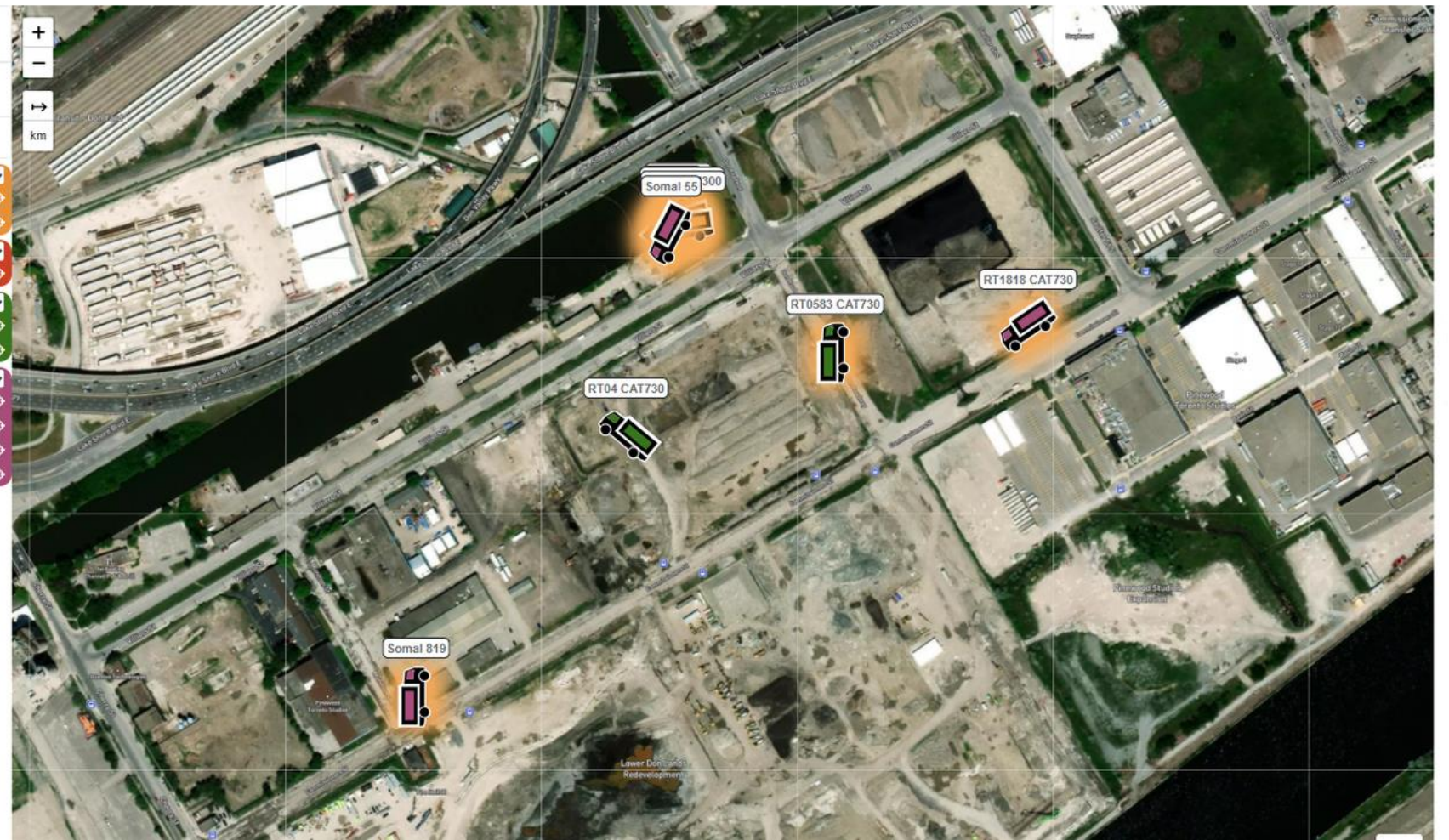
Dispatcher Updated 15:22:42 19 Enable map autoupdate Settings

Select Projects/Routes

Filter...

Include hidden routes

- Excavator to Stockpile**
 - RT011 HM300 (Damian Hellyer) Damian Hellyer...
 - RT012 HM300 (Damian Hellyer) Damian Hellyer...
- Stockpile to Disposal**
 - Somal 820 (Unassigned) Unassigned
- Stockpile to Placement**
 - RT04 CAT730 (Philip Pereira) Philip Pereira
 - RT0583 CAT730 (Juan Cedeno) Juan Cedeno
- Stockpile to Stockpile**
 - RT1818 CAT730 (Michael Goodwin) Michael G...
 - Somal 55 (Unassigned) Unassigned
 - Somal 819 (Unassigned) Unassigned
 - Somal E3 (Unassigned) Unassigned



RPS TRACKER

TRAVEL JOURNAL

QM Environmental Logout

Morgan Chambers

- Dispatcher
- Travel Journal**
- Events
- Statistics Report
- Cycle Time Report
- Cycle Planner
- Operations Settings
- Project Settings
 - Projects / Routes
 - Locations
 - Color Sets
- QM Project
- Administration

Travel Journal

Time range: 2022-04-12 00:00 to 2022-04-13 00:00

Settings

Journals

- Stockpile to Placement RT189 CAT730 Tyler Maxwell
- Stockpile to Placement RT1818 CAT730 Andrew Beattie**
- Stockpile to Stockpile Somal E5 Mariah Melchior
- Stockpile to Placement RT189 CAT730 David Gray
- Stockpile to Disposal Port Lands Q4 Unassigned
- Stockpile to Placement RT189 CAT730 Tristan Metcalfe
- Stockpile to Disposal Port Lands Q2 Unassigned

Journal Summary

April 12, 2022 6:36 am
RT1818 CAT730 - Andrew Beattie

Route: Stockpile to Placement
Started: April 12, 2022 6:36 am
Ended: April 12, 2022 4:16 pm
Engine Accumulated: 0.0h
Driven: 7 km

Counts:
Dump: 25 Fuel: 0
Load: 25 Bulk: 0

Activity Log

- Load April 12, 2022 7:00 am
- Dump April 12, 2022 7:09 am
- Load April 12, 2022 7:15 am
- Dump April 12, 2022 7:20 am
- Load April 12, 2022 7:30 am
- Dump April 12, 2022 7:38 am
- Load April 12, 2022 7:43 am
- Dump April 12, 2022 7:48 am



100 m / 500 ft

Leaflet | Map data © OpenStreetMap contributors, CC-BY-SA, Imagery © Mapbox

April 12, 2022 6:36 am

RPS TRACKER



SYSTEM ACTIVITY REPORTING
Logout

QM Environmental

Morgan Chambers

- Dispatcher
- Travel Journal
- Events
- Statistics Report
- Cycle Time Report
- Cycle Planner
- Operations Settings
- Project Settings
- QM Project
 - Manage Blocks
 - Excavator Settings
 - Activity Reporting
 - Disposal Import
 - Total Excavation Report
- Administration

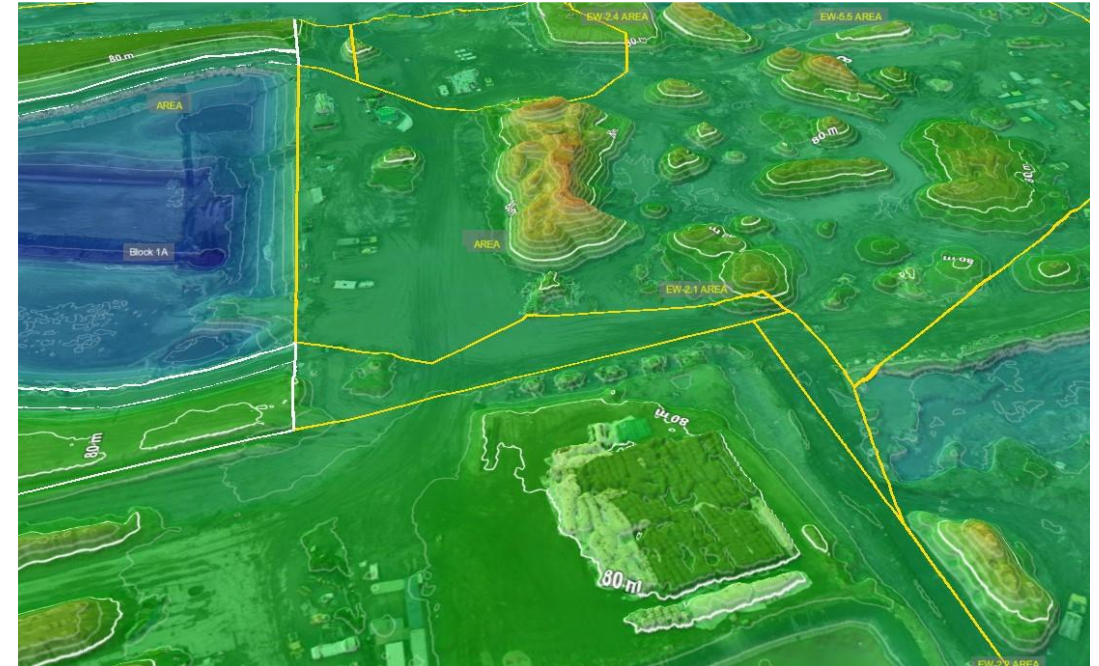
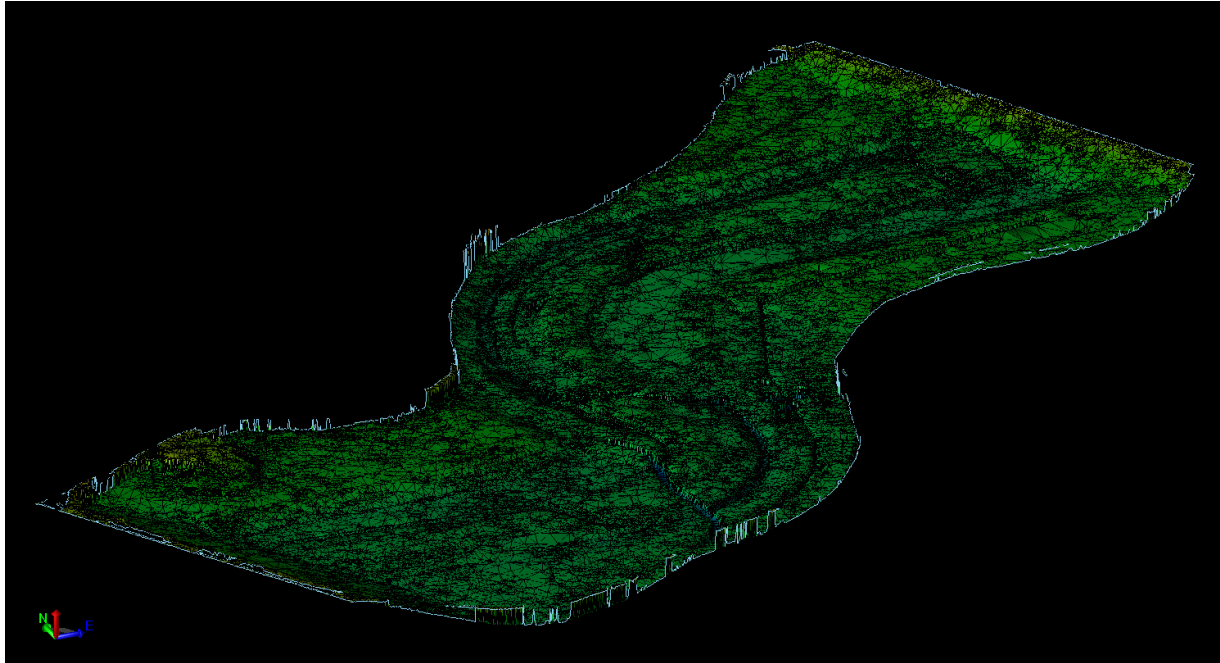
Filters Result

Map

Shows 15 rows Columns Bulk Edit CSV Excel

Load Date/Time	Equipment	Volume (Cubic meters)	Block ID	Material	Characterization	Earthwork Area	Municipal Address	Line Item	Dump Date/Time	Route	Block ID	Earthwork Area	Ticket Number	Ticket BoL	Ticket Weight (Metric Tonnes)
2022-05-09 07:08:53	RT003 CAT730	12.0	ST0346	Debris	CBRA 3C (C)	EW 2.1	75/85 Commissioners St	CCN-147	2022-05-09 07:16:22	Stockpile to Stockpile	C- ST0346	EW 5.4			
2022-05-09 07:24:00	RT003 CAT730	12.0	ST0346	Debris	CBRA 3C (C)	EW 2.1	75/85 Commissioners St	CCN-147	2022-05-09 07:31:36	Stockpile to Stockpile	C- ST0346	EW 5.4			
2022-05-09 07:34:52	RT003 CAT730	12.0	ST0346	Debris	CBRA 3C (C)	EW 2.1	75/85 Commissioners St	CCN-147	2022-05-09 07:40:21	Stockpile to Stockpile	C- ST0346	EW 5.4			
2022-05-09 07:43:54	RT003 CAT730	12.0	ST0346	Debris	CBRA 3C (C)	EW 2.1	75/85 Commissioners St	CCN-147	2022-05-09 07:48:11	Stockpile to Stockpile	C- ST0346	EW 5.4			
2022-05-09 07:52:02	RT003 CAT730	12.0	ST0346	Debris	CBRA 3C (C)	EW 2.1	75/85 Commissioners St	CCN-147	2022-05-09 07:57:00	Stockpile to Stockpile	C- ST0346	EW 5.4			
2022-05-09 08:06:23	RT003 CAT730	12.0	ST0346	Debris	CBRA 3C (C)	EW 2.1	75/85 Commissioners St	CCN-147	2022-05-09 08:32:21	Stockpile to Stockpile	C- ST0346	EW 5.4			
2022-05-09 08:37:00	RT003 CAT730	12.0	ST0346	Debris	CBRA 3C (C)	EW 2.1	75/85 Commissioners St	CCN-147	2022-05-09 08:47:15	Stockpile to Stockpile	C- ST0346	EW 5.4			

AS-BUILT (SEMI-AUTOMATIC)



STAKEHOLDER DATABASE

Reference Links

Stockpile Sample Key

Stockpiles Summary

STOCKPILE ID	GEOENV APPROVALS	LEACHATE APPROVALS	GEOTECH APPROVALS	TREATMENT APPROVALS	
EW1.1_A001_ST0002_B01	X	X	X	X	Samples
EW1.1_AXXX_ST0001_B01	X	X	X	X	Samples
EW1.1_AXXX_ST0007_B06	X	X	X	X	Samples
EW1.1_AXXX_ST0030_B06	X	X	X	X	Samples
EW1.1_AXXX_ST0030_B18	X	X	X	X	Samples
EW1.1_AXXX_ST0031_B18	X	X	X	X	Samples
EW1.1_AXXX_ST0038_B17	X	X	X	X	Samples
EW1.1_AXXX_ST0039_B17	X	X	X	X	Samples
EW1.1_AXXX_ST0040_B17	X	X	X	X	Samples
EW1.1_AXXX_ST0043_B06	X	X	X	X	Samples
EW1.1_AXXX_ST0044_B17	X	X	X	X	Samples

Map



STAKEHOLDER DATABASE



Samples Assessment Attachments

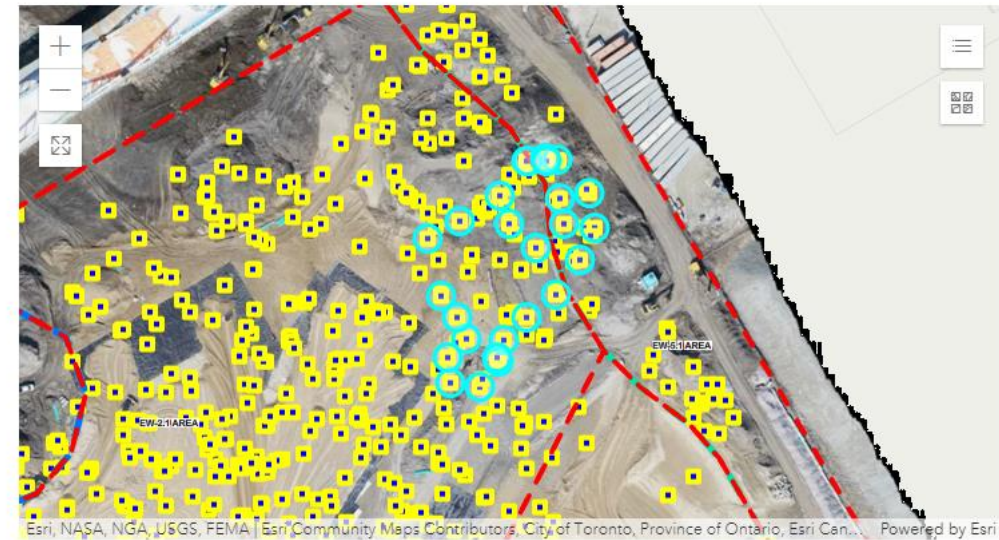
[Stockpile Summary Export](#)

Sample Name

Role	Decision	Reassignment	Datetime	Comment
QPG	R1-Reassign	FD3.1 (CBRA1_Z), FD3.4 (CBRA1_Z)	11/9/2021 9:34:01 AM	Bulk: Meets CBRA1_Z CFTCs based on the attached statistical analysis (NOTE: Lead, zinc, several PAHs and PHC F3/F4 fail for several samples using single-point compliance. SPLP: Meets SPLP 3.1/9.1 Geotech: Meets Interim Fill criteria for all interim fill types noting that organic content is met on average for Type 1 but one sample exceeds 6%. Meets all other interim fill types.
QM	Approve	N/A	11/9/2021 9:50:31 AM	Source: EW2.1; Model: Multiple Model; Volume: 22320m3; Disposition as CBRA Z select, contouring and/or uncontrolled fill. Approved for disposition as CBRA-Z CFTC (EW3.1 and EW3.4) and geotechnically based on the WP4 Fill and Backfill – Interim Area, Revision # SI-04, dated June 22, 2021 for placement in EW3.1 as Select Fill and in

EW2.1_AXXX_ST0270_B51_SA149

Map



EW2.1_AXXX_ST0270_B51_SA149

Controlled Fill (>1.5m)

Cap Standards (<1.5m)

Excess Soil Quality Standards

CBRA Fill Areas					Parks			River/Waterlot		Roads		Generic				
CBRA2 CFTC	CBRA3B CFTC	CBRA3C CFTC	CBRAX CFTC	CBRA1_Z CFTC	RSC_PPS CFTC	RSC_RPS CFTC	RSC_RPN CFTC	WP8 CF	Class 1 WL	Class 2 WL	Comm St CFTC	CBRAX Roads CFTC	Table 1 RPIICC	Table 3 RPI	Table 3 ICC	Table 9 RPIICC
3	4	8	7	✓	10	11	11	4	7	5	1	6	23	9	6	21

Leachate Controlled Fill

Leachate Excess Soil

Leachate		Treatment		
SPLP 3.1	SPLP 9.1	BioPile	StarX WP8 CF	StarX T3 RPI
1	1	11	4	4

Controlled Fill Geotechnical

WP8 Geotechnical

Geotech Report	Type CF-1	Type CF-2	Type CF-3	Type CF-4	Organic Content	Soil Texture	Geotech Observation	Visual Observations	Olfactory Observations
View	X	X	X	X	3.7	SM	Debris, Foreign Objects, Large Rock Fragments, Organics	NO	NO

STAKEHOLDER DATABASE



wsp GOLDER

Hello Alicia.Kruska@QMenv.com! Log off

Samples Assessment Attachments

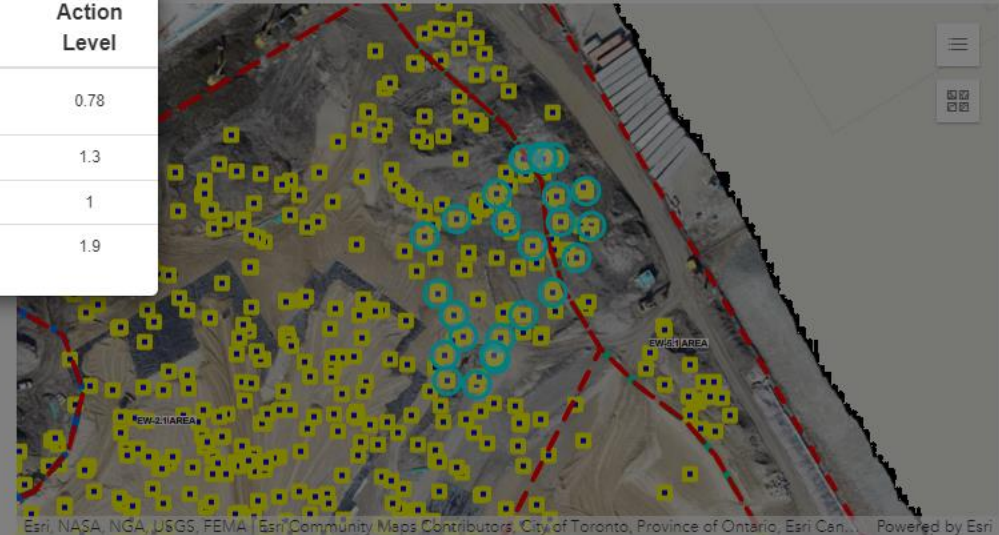
Sample Name

Role	Decision	Reassignment	Date
QPG	R1-Reassign	FD3.1 (CBRA1_Z), FD3.4 (CBRA1_Z)	11/9/2021
QM	Approve	N/A	11/9/2021 9:50:31 AM

Exceedance Summary Table

Category: CBRA3B

Sample Name	Chemical Name	Report Result Value	Action Level
EW2.1_AXXX_ST0270_B51_SA149	Benzo [b,j] fluoranthene	2.0	0.78
EW2.1_AXXX_ST0270_B51_SA149	Benzo[a]anthracene	1.4	1.3
EW2.1_AXXX_ST0270_B51_SA149	Benzo[a]pyrene	1.6	1
EW2.1_AXXX_ST0270_B51_SA149	Fluoranthene	2.5	1.9



EW2.1_AXXX_ST0270_B51_SA149

sample exceeds 6%. Meets all other interim fill types.

Source: EW2.1; Model: Multiple Model; Volume: 22320m3; Disposition as CBRA Z select, contouring and/or uncontrolled fill.

Approved for disposition as CBRA-Z CFTC (EW3.1 and EW3.4) and geotechnically based on the WP4 Fill and Backfill – Interim Area, Revision # SI-04, dated June 22, 2021 for placement in EW3.1 as Select Fill and in

EW2.1_AXXX_ST0270_B51_SA149

Controlled Fill (>1.5m)

Cap Standards (<1.5m)

Excess Soil Quality Standards

CBRA Fill Areas					Parks			River/Waterlot			Roads		Generic			
CBRA2 CFTC	CBRA3B CFTC	CBRA3C CFTC	CBRAX CFTC	CBRA1_Z CFTC	RSC_PPS CFTC	RSC_RPS CFTC	RSC_RPN CFTC	WP8 CF	Class 1 WL	Class 2 WL	Comm St CFTC	CBRAX Roads CFTC	Table 1 RPIICC	Table 3 RPI	Table 3 ICC	Table 9 RPIICC
3	4	8	7	✓	10	11	11	4	7	5	1	6	23	9	6	21

Leachate Controlled Fill

Leachate		Treatment		
SPLP 3.1	SPLP 9.1	BioPile	StarX WP8 CF	StarX T3 RPI

Controlled Fill Geotechnical

Geotech Report	Type CF-1	Type CF-2	Type CF-3	Type CF-4	Organic Content	Soil Texture	Geotech Observation	Visual Observations	Olfactory Observations
							Debris, Foreign Objects, Large		

STAKEHOLDER DATABASE



Samples Assessment [Attachments](#)

[Stockpile Summary Export](#)

	Role	Decision	Reassignment	Datetime	Comment
EW2.1_AXXX_ST0294_B60_SA066	QPG	R1-Reassign	FD5.2 (CBRA3C), FD5.3 (CBRA3C), FD5.4 (CBRA3C)	1/11/2022 5:31:35 AM	Environmental: Stockpile meets CBRA 3C CFTCs Leachate: Meets SPLP 3.1/9.1 Geotech: Meets Interim Fill excluding Select Fill. Stockpile contains significant debris (see attached photos) which may require removal during placement
	QM	Approve	N/A	1/17/2022 9:45:44 AM	Source: EW2.1; Model: Table 3; Volume: 300m3; Disposition as CBRA 3C contouring or uncontrolled fill.
	QPO	Approve	N/A	1/20/2022 3:46:49 AM	Approved for dispositioned as CBRA-3C and geotechnically based on the WP4 Fill and Backfill - Interim Area, Revision #SI-04-009 specification, dated January 6, 2022 for placement in EW5.3 and EW5.4 as Contouring Fill and Uncontrolled Fill.
	ED	Approve	N/A	2/2/2022 4:33:06 AM	Approved for CBRA3c placement based on QPO's comment and submission 033.2-31 23 23-280.

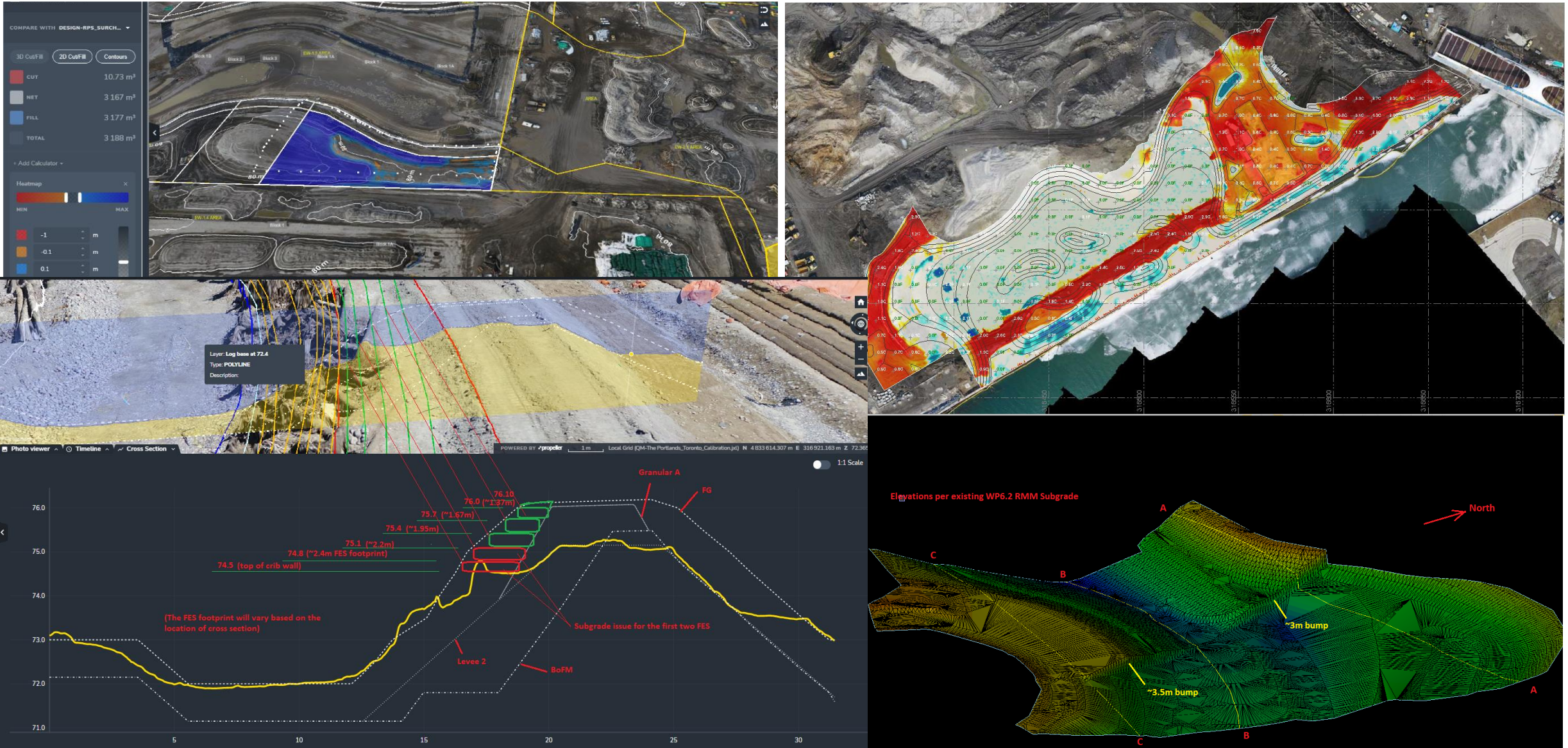
MANAGEMENT PLATFORM



SEQUENCE THE PUZZLE



VISUALIZING THE TASK (OR THE PROBLEM)



APPLICATION EXTENSIONS



THE FUTURE... OR SOONER



CLOSING / QUESTIONS

