

DTE St. Clair Power Plant

Unit 6 Scrubber Basins
Closure By Removal
Certification Report

Project Number: 60541096

December 2018

Prepared for:

DTE Energy
4877 M-29
East China, MI 48054

Prepared by:

AECOM
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1. Introduction

1.1 General

This report summarizes the Construction Quality Assurance (CQA) monitoring activities for closure of the Unit 6 Sludge Scrubber Basins, a former impoundment at the DTE Energy St. Clair Power Plant located in St. Clair Michigan. The report is based upon observations and oversight performed by AECOM representatives and information provided by Raymond Excavating. (Contractor) during CCR Removal. The report represents a determination that the work is in conformance with the requirements of the closure-by-removal standards contained in US EPA's *Disposal of Coal Combustion Residuals from Electric Utilities* regulations (2015) and the approved Work Plan. CQA services were performed by AECOM for these CCR Removal activities from June 2018 through October 2018.

1.2 Project Background

The St. Clair Power Plant is located in East China Township, St. Clair County, Michigan on the west bank of the St. Clair River. The plant was initially built in 1953. Unit 6 Scrubber basins were built in 1973 to handle FGD scrubber material generated as the scrubber cleaned the gases passing through the smokestacks. Filling of the basins ceased in the mid-1970's.

The purpose of this project was to facilitate and verify removal of any remaining CCR material as determined through visual evidence. On completion of the closure-by-removal activities, the basins will continue to be used as a stormwater basin for drainage of the surrounding DTE properties. DTE decided to pursue closure-by-removal for the Scrubber Basins pursuant to process changes and in response to the US EPA regulations *Disposal of Coal Combustion Residuals from Electric Utilities* (2015) pursuant to 40 CFR § 257.102(c).

AECOM provided drawings for the CCR Removal of the Scrubber Basins

The key documents generated and/or utilized during the design of this project are:

- St. Clair Power Plant Land Improvement CCR Removal Unit 6 Scrubber Basins, Issued for Bid, July 14, 2017.
- St. Clair Power Plant Land Improvement CCR Removal Unit 6 Scrubber Basins, July 14, 2017

AECOM provided oversight for the required activities which included:

- Review of contractor technical submittals and requests for information (RFIs);
- Verification by observation of removal of CCR materials from within the limits of the scrubber basins

2. Construction Quality Assurance

2.1 Project Team Organization

The Scrubber Basins Closure Project was directed by DTE, designed by AECOM and constructed by Raymond Excavating between June and October 2018. The project team for the St. Clair Scrubber Basins Closure Project includes the following personnel and their respective companies:

DTE - Owner

- Kelvin Thomas – Project Manager, Large Capital Projects
- Joseph Glinz – Project Engineer, Large Capital Projects
- Robert Lee – Manager, Environmental Management & Resources
- Rommy Sleiman – Environmental Engineer, Environmental Management & Resources
- Jason Roggenbuck – Environmental Engineer, Environmental Management & Resources

AECOM – CCR Removal Observation and Quality Assurance

- Scott Hutsell, P.E. –Project Manager and Certifying Engineer
- Andrew Rodzianko – Project Engineer

Raymond Excavating – General Contractor

- Jerry Thomas – Project Manager

Subcontractors/Major Suppliers

- Bill Lang – Lang Tool Company (Material Stabilization)

2.2 Construction Quality Assurance/Quality Control

Construction quality assurance/quality control (QA/QC) is provided through the CQA team to evaluate and measure conformity with the design, material selection, and installation of equipment and materials in accordance with the design plans and specifications. Quality Assurance (QA) started at the beginning of the project during preparation of the engineering plans and specifications and setting up a framework for maintaining quality throughout the project by establishing testing methods, frequencies and requirements as well as construction specifications. Quality Control (QC) includes actions taken by all parties, including the designer, contractor, manufacturer, fabricator, and/or installer, to document that their methods, materials, and workmanship are accurate and correct, the requirements of the regulations are met, and are in accordance with the approved plans and specifications. QC is provided by each party for its own work, product, or service.

The CQA team documented through observation and testing that the DTE St. Clair Scrubber Basins Closure Project was completed in accordance with the contract documents.

3. Construction Activities

The construction activities performed as part of the Scrubber Basins Closure are detailed in the following sections. The daily field reports that describe the tasks performed each day and can be found in **Appendix A**.

3.1 Subbase Preparation and Dewatering Activities

Before any removal could begin, the Scrubber Basins was dewatered. A temporary sump was located in the southeast and southwest portions of the basins for dewatering. After dewatering was complete, the remaining Scrubber Basins CCR materials were stabilized by controlled mixing with portland cement materials. After mixing and stabilization, CCR materials were excavated and removed as described in **Section 3.2**. Lang Tool reports of stabilization activities and quantities of portland cement used are included in **Appendix B**.

3.2 Removal of CCR Material

In order to initiate closure-by-removal activities, all CCR materials within the impoundment needed to be removed in accordance with Section 257.102 of the EPA's CCR Rule. The excavation to subgrade within the Scrubber Basins included the removal of CCR materials on the Scrubber Basin bottom and side slopes. The closure design established preliminary Scrubber Basin excavation limits based on historical drawings.

As a further conservative measure, the Scrubber Basins floor was excavated 6" below the bottom of CCR materials. The bottom of the Scrubber Basins appeared to have a consistent clay layer which served as a good witness layer for establishing the bottom limits of the basins. Additionally, materials imported into the Scrubber Basins for ease of construction (stone for staging purposes and truck ramp construction) were also excavated and removed. In total, approximately 79,217 cubic yards of material (CCR material and overexcavation) were removed from the Scrubber Basins and disposed of at DTE's Range Road Landfill. Photographs documenting the bottom of the Scrubber Basins after removal of CCR materials are included in **Appendix C**.

3.3 Site Restoration Activities

After the former Scrubber Basins removal project was complete, site restoration activities took place to repair any disturbed areas surrounding the project site. This included regrading of the truck ramp to provide for safer slopes and restoration of the staging area to the north of the basins.

3.4 As-Built Drawings

As-Built Drawings and drawings depicting the volume of material removed from the Scrubber Basins are included in **Appendix D**.

4. Alterations/Challenges

4.1 Alterations

Several alterations to the original design occurred during CCR Removal due to construction strategy, site conditions, and access constraints. These alterations did not impact the scope or design intent of the closure project and were implemented as CCR Removal proceeded to reduce cost, shorten the schedule, or add value to the project. Alterations are discussed below:

Excavate scrubber sludge materials from around the coal conveyor foundations and the southern portion of the Basins and consolidate with earthwork equipment instead of stabilized by Lang Tool's mixing equipment.

The small depth of scrubber sludge found in the southern portions of the basins (less than 6") made industrial mixing operations impractical and removing the material with earthwork equipment provided for project savings and better protection of the foundations

Elimination of reseeding of sideslopes and floor bottom

Local wetland plants rapidly established themselves on the excavated sideslopes after removal activities were complete and reseeding of slopes was not necessary

5. Limitations

The signature of AECOM's authorized representative on this document represents that to the best of AECOM's knowledge, information and belief in the exercise of its professional judgment, that the aforementioned information is accurate as of the date of such signature. AECOM does not guarantee the performance of construction contractors, their materials, or assume responsibility for their failure to perform in accordance with the contract documents or applicable law. Any recommendation, opinion, or decisions by AECOM are made on the basis of AECOM's experience, qualifications and professional judgment and are not to be construed as warranties or guaranties. In addition, opinions relating to environmental, geologic, and geotechnical conditions or other estimates are based on limited data and that actual conditions may vary from those encountered at the times and locations where data are obtained, despite the use of due care. Any inspection or observation by AECOM refers to the visual observation of the contractor's work so as to permit AECOM to render a professional opinion as to whether the contractor performed work in a manner indicating that the completed construction is in reasonable conformance with the contract documents. Further, such inspections, or observations by AECOM, are limited to spot checking, selective sampling, and similar methods of general observation of the work based on AECOM's exercise of professional judgment.

6. Engineer's Certification

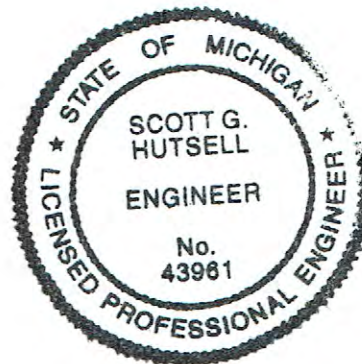
**ENGINEER'S CERTIFICATION
AECOM
DTE UNIT 6 SCRUBBER BASINS CLOSURE
ST. CLAIR, MICHIGAN**

I, Scott G. Hutsell, P.E., being a Registered Professional Engineer in accordance with the Michigan Professional Engineer's Registration do hereby certify to my knowledge, information and belief, that the information contained in the accompanying report related to removal of coal combustion residuals (CCR) from the Unit 6 Scrubber Basins the St. Clair Power Plant is true and correct and has been prepared in accordance with the current industry standard of practice for CCR removal.

SIGNATURE: *Scott G. Hutsell* DATE: 12/27/18

ADDRESS 27777 Franklin Road, Suite 2000
Southfield, MI 48034

TELEPHONE 517-505-1301



Appendix A Raymond Excavation Daily Reports

DTE Unit 6 Scrubber Basins Land Improvement - CCR Removal

Date:	Area:	Mixed (CY):	To Date Mixed (CY):	To Date Portland Plant Scale (LBS):	To Date Portland Plant Scale (TN):	Removal Area:	Loads Removed (EA):	CY Removed (CY):	To Date Loads Removed (EA):	To Date CY Removed (EA):
6/15/2018	NE Quadrant	1,244.74	1,244.74	160,800.00	80.40		0	0	0	-
6/16/2018		-	1,244.74	160,800.00	80.40		0	0	0	-
6/17/2018		-	1,244.74	160,800.00	80.40		0	0	0	-
6/18/2018	NE Quadrant	1,112.92	2,357.66	305,600.00	152.80		0	0	0	-
6/19/2018	NE Quadrant	1,192.69	3,550.35	459,340.00	229.67		0	0	0	-
6/20/2018	NE Quadrant	1,088.88	4,639.23	601,430.00	300.72		0	0	0	-
6/21/2018	NE Quadrant	1,176.19	5,815.42	757,960.00	378.98		0	0	0	-
6/22/2018	NE Quadrant	708.73	6,524.15	848,610.00	424.31		0	0	0	-
6/23/2018		-	6,524.15	848,610.00	424.31		0	0	0	-
6/24/2018		-	6,524.15	848,610.00	424.31		0	0	0	-
6/25/2018	NE Quadrant	1,410.34	7,934.49	1,032,810.00	516.41		0	0	0	-
6/26/2018	NE Quadrant	1,115.75	9,050.24	1,196,680.00	598.34		0	0	0	-
6/27/2018	NE Quadrant	1,047.60	10,097.84	1,343,470.00	671.74		-	-	-	-
6/28/2018	NE Quadrant	948.96	11,046.80	1,495,940.00	747.97		-	-	-	-
6/29/2018	NE Quadrant	1,183.15	12,229.95	1,681,110.00	840.56		-	-	-	-
6/30/2018		-	12,229.95	1,681,110.00	840.56		-	-	-	-
7/1/2018		-	12,229.95	1,681,110.00	840.56		-	-	-	-
7/2/2018	NE Quadrant	1,222.27	13,452.22	1,870,410.00	935.21	NE Quadrant	59.00	1,416.00	59.00	1,416.00
7/3/2018	NE Quadrant	1,248.77	14,700.99	2,063,600.00	1,031.80	NE Quadrant	78.00	1,950.00	137.00	3,366.00
7/4/2018		-	14,700.99	2,063,600.00	1,031.80		-	-	137.00	3,366.00
7/5/2018	NE Quadrant	1,410.23	16,111.22	2,245,610.00	1,122.81	NE Quadrant	86.00	2,150.00	223.00	5,516.00
7/6/2018	NE Quadrant	1,283.07	17,394.29	2,411,400.00	1,205.70	NE Quadrant	68.00	1,700.00	291.00	7,216.00
7/7/2018		-	17,394.29	2,411,400.00	1,205.70		-	-	291.00	7,216.00
7/8/2018		-	17,394.29	2,411,400.00	1,205.70		-	-	291.00	7,216.00
7/9/2018	NE Quadrant	1,323.14	18,717.43	2,582,120.00	1,291.06	NE Quadrant	104.00	2,600.00	395.00	9,816.00
7/10/2018	NE Quadrant	1,392.31	20,109.74	2,767,590.00	1,383.80	NE Quadrant	102.00	2,550.00	497.00	12,366.00
7/11/2018	NE Quadrant	712.09	20,821.83	2,859,640.00	1,429.82	NE Quadrant	103.00	2,575.00	600.00	14,941.00
7/12/2018	NE Quadrant	117.37	20,939.20	2,875,800.00	1,437.90	NE Quadrant	98.00	2,450.00	698.00	17,391.00
7/12/2018	NW Quadrant	948.74	21,887.94	2,996,580.00	1,498.29		-	-	-	-
7/13/2018	NW Quadrant	1,012.46	22,900.40	3,128,210.00	1,564.11	NE Quadrant	105.00	2,625.00	803.00	20,016.00
7/14/2018		-	22,900.40	3,128,210.00	1,564.11		-	-	803.00	20,016.00
7/15/2018		-	22,900.40	3,128,210.00	1,564.11		-	-	803.00	20,016.00
7/16/2018	NW Quadrant	944.03	23,844.43	3,249,470.00	1,624.74	NE Quadrant	92.00	2,300.00	895.00	22,316.00
7/17/2018	NW Quadrant	1,399.47	25,243.90	3,429,580.00	1,714.79	NE Quadrant	96.00	2,400.00	991.00	24,716.00
7/18/2018	NW Quadrant	1,617.70	26,861.60	3,637,830.00	1,818.92	NE Quadrant	109.00	2,725.00	1,100.00	27,441.00

Denotes Final Mixing on NE Quadrant

Through: 7/18/2018

MIXING

52,091 CY Mix and Haul Set up in PO
 26,861.60 CY Mixed to Date
 25,229.41 CY Remaining to be mixed

PORTLAND PERCENTAGES

LBS/CY @ 5% 128.5
 LBS/CY @ 6% 154.2
 (25.7 lbs/%)

HAULING

27,441 CY Hauled to Landfill to Date
 1,100.00 Loads Hauled to Landfill to Date

ADD MIXTURE

3,333.00 TN Add Mixture in PO
 1,818.92 TN Used to Date
 1,514.09 TN Available in PO
 54.57% Percent used to Date

TO DATE PORTLAND USAGE

NE Plant Scale 2,875,800.00 LBS
 1,437.90 TN
 NW Plant Scale 762,030.00 LBS
 381.02 TN
 TOTAL TO DATE 3,637,830.00 LBS
 1,818.92 TN

Cubic Yards Mixed 26,861.60 CY
 Portland Used 1,818.92 TN
 Avg Lbs/CY Used 135.43 LBS/CY
 Avg Percent Portland/CY to Date 5.27 %

		Projected
		(Amount Remaining in Current Tons Setup - Amount Required)
		Over (+) (Projected Surplus)
		Under (-) (Projected Shortfall)
Cubic Yards Remaining to be mixed:	25,229.41 CY	
Remaining Portland Available in PO:	1,514.09 TN	
Remaining Portland Req'd at 5%:	1,620.99 TN	-106.90
Remaining Portland Req'd at 6%:	1,945.19 TN	-431.10

DTE Unit 6 Scrubber Basins Land Improvement - CCR Removal

Date:	Area:	Mixed (CY):	To Date Mixed (CY):	To Date Portland Plant Scale (LBS):	To Date Portland Plant Scale (TN):	Removal Area:	Loads Removed (EA):	CY Removed (CY):	To Date Loads Removed (EA):	To Date CY Removed (EA):
6/15/2018	NE Quadrant	1,244.74	1,244.74	160,800.00	80.40		0	0	0	-
6/16/2018		-	1,244.74	160,800.00	80.40		0	0	0	-
6/17/2018		-	1,244.74	160,800.00	80.40		0	0	0	-
6/18/2018	NE Quadrant	1,112.92	2,357.66	305,600.00	152.80		0	0	0	-
6/19/2018	NE Quadrant	1,192.69	3,550.35	459,340.00	229.67		0	0	0	-
6/20/2018	NE Quadrant	1,088.88	4,639.23	601,430.00	300.72		0	0	0	-
6/21/2018	NE Quadrant	1,176.19	5,815.42	757,960.00	378.98		0	0	0	-
6/22/2018	NE Quadrant	708.73	6,524.15	848,610.00	424.31		0	0	0	-
6/23/2018		-	6,524.15	848,610.00	424.31		0	0	0	-
6/24/2018		-	6,524.15	848,610.00	424.31		0	0	0	-
6/25/2018	NE Quadrant	1,410.34	7,934.49	1,032,810.00	516.41		0	0	0	-
6/26/2018	NE Quadrant	1,115.75	9,050.24	1,196,680.00	598.34		0	0	0	-
6/27/2018	NE Quadrant	1,047.60	10,097.84	1,343,470.00	671.74		-	-	-	-
6/28/2018	NE Quadrant	948.96	11,046.80	1,495,940.00	747.97		-	-	-	-
6/29/2018	NE Quadrant	1,183.15	12,229.95	1,681,110.00	840.56		-	-	-	-
6/30/2018		-	12,229.95	1,681,110.00	840.56		-	-	-	-
7/1/2018		-	12,229.95	1,681,110.00	840.56		-	-	-	-
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7/8/2018		-	17,394.29	2,411,400.00	1,205.70		-	-	291.00	7,216.00
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7/12/2018	NE Quadrant	117.37	20,939.20	2,875,800.00	1,437.90	NE Quadrant	98.00	2,450.00	698.00	17,391.00
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7/14/2018		-	22,900.40	3,128,210.00	1,564.11		-	-	803.00	20,016.00
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7/18/2018	NW Quadrant	1,617.70	26,861.60	3,637,830.00	1,818.92	NE Quadrant	109.00	2,725.00	1,100.00	27,441.00
7/19/2018	NW Quadrant	1,210.15	28,071.75	3,793,630.00	1,896.82	NE Quadrant	84.00	2,100.00	1,184.00	29,541.00

Denotes Final Mixing on NE Quadrant

Through: 7/18/2018

MIXING

52,091 CY Mix and Haul Set up in PO
 28,071.75 CY Mixed to Date
 24,019.26 CY Remaining to be mixed

PORTLAND PERCENTAGES

LBS/CY @ 5% 128.5
 LBS/CY @ 6% 154.2
 (25.7 lbs/%)

HAULING

29,541 CY Hauled to Landfill to Date
 1,184.00 Loads Hauled to Landfill to Date

ADD MIXTURE

3,333.00 TN Add Mixture in PO
 1,896.82 TN Used to Date
 1,436.19 TN Available in PO
 56.91% Percent used to Date

TO DATE PORTLAND USAGE

NE Plant Scale 2,875,800.00 LBS
 1,437.90 TN
 NW Plant Scale 917,830.00 LBS
 458.92 TN
 TOTAL TO DATE 3,793,630.00 LBS
 1,896.82 TN

Cubic Yards Mixed 28,071.75 CY
 Portland Used 1,896.82 TN
 Avg Lbs/CY Used 135.14 LBS/CY
 Avg Percent Portland/CY to Date 5.26 %

		Projected
		(Amount Remaining in Current Tons Setup - Amount Required)
		Over (+) (Projected Surplus)
		Under (-) (Projected Shortfall)
Cubic Yards Remaining to be mixed:	24,019.26 CY	
Remaining Portland Available in PO:	1,436.19 TN	
Remaining Portland Req'd at 5%:	1,543.24 TN	-107.05
Remaining Portland Req'd at 6%:	1,851.88 TN	-415.70

DTE Unit 6 Scrubber Basins Land Improvement - CCR Removal

Date:	Area:	Mixed (CY):	To Date Mixed (CY):	To Date Portland Plant Scale (LBS):	To Date Portland Plant Scale (TN):	Removal Area:	Loads Removed (EA):	CY Removed (CY):	To Date Loads Removed (EA):	To Date CY Removed (EA):
6/15/2018	NE Quadrant	1,244.74	1,244.74	160,800.00	80.40		0	0	0	-
6/16/2018		-	1,244.74	160,800.00	80.40		0	0	0	-
6/17/2018		-	1,244.74	160,800.00	80.40		0	0	0	-
6/18/2018	NE Quadrant	1,112.92	2,357.66	305,600.00	152.80		0	0	0	-
6/19/2018	NE Quadrant	1,192.69	3,550.35	459,340.00	229.67		0	0	0	-
6/20/2018	NE Quadrant	1,088.88	4,639.23	601,430.00	300.72		0	0	0	-
6/21/2018	NE Quadrant	1,176.19	5,815.42	757,960.00	378.98		0	0	0	-
6/22/2018	NE Quadrant	708.73	6,524.15	848,610.00	424.31		0	0	0	-
6/23/2018		-	6,524.15	848,610.00	424.31		0	0	0	-
6/24/2018		-	6,524.15	848,610.00	424.31		0	0	0	-
6/25/2018	NE Quadrant	1,410.34	7,934.49	1,032,810.00	516.41		0	0	0	-
6/26/2018	NE Quadrant	1,115.75	9,050.24	1,196,680.00	598.34		0	0	0	-
6/27/2018	NE Quadrant	1,047.60	10,097.84	1,343,470.00	671.74		-	-	-	-
6/28/2018	NE Quadrant	948.96	11,046.80	1,495,940.00	747.97		-	-	-	-
6/29/2018	NE Quadrant	1,183.15	12,229.95	1,681,110.00	840.56		-	-	-	-
6/30/2018		-	12,229.95	1,681,110.00	840.56		-	-	-	-
7/1/2018		-	12,229.95	1,681,110.00	840.56		-	-	-	-
7/2/2018	NE Quadrant	1,222.27	13,452.22	1,870,410.00	935.21	NE Quadrant	59.00	1,416.00	59.00	1,416.00
7/3/2018	NE Quadrant	1,248.77	14,700.99	2,063,600.00	1,031.80	NE Quadrant	78.00	1,950.00	137.00	3,366.00
7/4/2018		-	14,700.99	2,063,600.00	1,031.80		-	-	137.00	3,366.00
7/5/2018	NE Quadrant	1,410.23	16,111.22	2,245,610.00	1,122.81	NE Quadrant	86.00	2,150.00	223.00	5,516.00
7/6/2018	NE Quadrant	1,283.07	17,394.29	2,411,400.00	1,205.70	NE Quadrant	68.00	1,700.00	291.00	7,216.00
7/7/2018		-	17,394.29	2,411,400.00	1,205.70		-	-	291.00	7,216.00
7/8/2018		-	17,394.29	2,411,400.00	1,205.70		-	-	291.00	7,216.00
7/9/2018	NE Quadrant	1,323.14	18,717.43	2,582,120.00	1,291.06	NE Quadrant	104.00	2,600.00	395.00	9,816.00
7/10/2018	NE Quadrant	1,392.31	20,109.74	2,767,590.00	1,383.80	NE Quadrant	102.00	2,550.00	497.00	12,366.00
7/11/2018	NE Quadrant	712.09	20,821.83	2,859,640.00	1,429.82	NE Quadrant	103.00	2,575.00	600.00	14,941.00
7/12/2018	NE Quadrant	117.37	20,939.20	2,875,800.00	1,437.90	NE Quadrant	98.00	2,450.00	698.00	17,391.00
7/12/2018	NW Quadrant	948.74	21,887.94	2,996,580.00	1,498.29		-	-	-	-
7/13/2018	NW Quadrant	1,012.46	22,900.40	3,128,210.00	1,564.11	NE Quadrant	105.00	2,625.00	803.00	20,016.00
7/14/2018		-	22,900.40	3,128,210.00	1,564.11		-	-	803.00	20,016.00
7/15/2018		-	22,900.40	3,128,210.00	1,564.11		-	-	803.00	20,016.00
7/16/2018	NW Quadrant	944.03	23,844.43	3,249,470.00	1,624.74	NE Quadrant	92.00	2,300.00	895.00	22,316.00
7/17/2018	NW Quadrant	1,399.47	25,243.90	3,429,580.00	1,714.79	NE Quadrant	96.00	2,400.00	991.00	24,716.00
7/18/2018	NW Quadrant	1,617.70	26,861.60	3,637,830.00	1,818.92	NE Quadrant	109.00	2,725.00	1,100.00	27,441.00
7/19/2018	NW Quadrant	1,210.15	28,071.75	3,793,630.00	1,896.82	NE Quadrant	84.00	2,100.00	1,184.00	29,541.00
7/20/2018	NW Quadrant	1,617.47	29,689.22	4,001,820.00	2,000.91	NE Quadrant	41.00	1,025.00	1,225.00	30,566.00

Denotes Final Mixing on NE Quadrant

Through: 7/20/2018

MIXING

52,091 CY Mix and Haul Set up in PO
 29,689.22 CY Mixed to Date
 22,401.79 CY Remaining to be mixed

PORTLAND PERCENTAGES

LBS/CY @ 5% 128.5
 LBS/CY @ 6% 154.2
 (25.7 lbs/%)

HAULING

30,566 CY Hauled to Landfill to Date
 1,225.00 Loads Hauled to Landfill to Date

ADD MIXTURE

3,333.00 TN Add Mixture in PO
 2,000.91 TN Used to Date
 1,332.09 TN Available in PO
 60.03% Percent used to Date

TO DATE PORTLAND USAGE

NE Plant Scale 2,875,800.00 LBS
 1,437.90 TN
 NW Plant Scale 1,126,020.00 LBS
 563.01 TN
 TOTAL TO DATE 4,001,820.00 LBS
 2,000.91 TN

Cubic Yards Mixed 29,689.22 CY
 Portland Used 2,000.91 TN
 Avg Lbs/CY Used 134.79 LBS/CY
 Avg Percent Portland/CY to Date 5.24 %

		Projected
		(Amount Remaining in Current Tons Setup - Amount Required)
		Over (+) (Projected Surplus)
		Under (-) (Projected Shortfall)
Cubic Yards Remaining to be mixed:	22,401.79 CY	
Remaining Portland Available in PO:	1,332.09 TN	
Remaining Portland Req'd at 5%:	1,439.31 TN	-107.22
Remaining Portland Req'd at 6%:	1,727.18 TN	-395.09

DTE Unit 6 Scrubber Basins Land Improvement - CCR Removal

Date:	Area:	Mixed (CY):	To Date Mixed (CY):	To Date Portland Plant Scale (LBS):	To Date Portland Plant Scale (TN):	Removal Area:	Loads Removed (EA):	CY Removed (CY):	To Date Loads Removed (EA):	To Date CY Removed (EA):
6/15/2018	NE Quadrant	1,244.74	1,244.74	160,800.00	80.40		0	0	0	-
6/16/2018		-	1,244.74	160,800.00	80.40		0	0	0	-
6/17/2018		-	1,244.74	160,800.00	80.40		0	0	0	-
6/18/2018	NE Quadrant	1,112.92	2,357.66	305,600.00	152.80		0	0	0	-
6/19/2018	NE Quadrant	1,192.69	3,550.35	459,340.00	229.67		0	0	0	-
6/20/2018	NE Quadrant	1,088.88	4,639.23	601,430.00	300.72		0	0	0	-
6/21/2018	NE Quadrant	1,176.19	5,815.42	757,960.00	378.98		0	0	0	-
6/22/2018	NE Quadrant	708.73	6,524.15	848,610.00	424.31		0	0	0	-
6/23/2018		-	6,524.15	848,610.00	424.31		0	0	0	-
6/24/2018		-	6,524.15	848,610.00	424.31		0	0	0	-
6/25/2018	NE Quadrant	1,410.34	7,934.49	1,032,810.00	516.41		0	0	0	-
6/26/2018	NE Quadrant	1,115.75	9,050.24	1,196,680.00	598.34		0	0	0	-
6/27/2018	NE Quadrant	1,047.60	10,097.84	1,343,470.00	671.74		-	-	-	-
6/28/2018	NE Quadrant	948.96	11,046.80	1,495,940.00	747.97		-	-	-	-
6/29/2018	NE Quadrant	1,183.15	12,229.95	1,681,110.00	840.56		-	-	-	-
6/30/2018		-	12,229.95	1,681,110.00	840.56		-	-	-	-
7/1/2018		-	12,229.95	1,681,110.00	840.56		-	-	-	-
7/2/2018	NE Quadrant	1,222.27	13,452.22	1,870,410.00	935.21	NE Quadrant	59.00	1,416.00	59.00	1,416.00
7/3/2018	NE Quadrant	1,248.77	14,700.99	2,063,600.00	1,031.80	NE Quadrant	78.00	1,950.00	137.00	3,366.00
7/4/2018		-	14,700.99	2,063,600.00	1,031.80		-	-	137.00	3,366.00
7/5/2018	NE Quadrant	1,410.23	16,111.22	2,245,610.00	1,122.81	NE Quadrant	86.00	2,150.00	223.00	5,516.00
7/6/2018	NE Quadrant	1,283.07	17,394.29	2,411,400.00	1,205.70	NE Quadrant	68.00	1,700.00	291.00	7,216.00
7/7/2018		-	17,394.29	2,411,400.00	1,205.70		-	-	291.00	7,216.00
7/8/2018		-	17,394.29	2,411,400.00	1,205.70		-	-	291.00	7,216.00
7/9/2018	NE Quadrant	1,323.14	18,717.43	2,582,120.00	1,291.06	NE Quadrant	104.00	2,600.00	395.00	9,816.00
7/10/2018	NE Quadrant	1,392.31	20,109.74	2,767,590.00	1,383.80	NE Quadrant	102.00	2,550.00	497.00	12,366.00
7/11/2018	NE Quadrant	712.09	20,821.83	2,859,640.00	1,429.82	NE Quadrant	103.00	2,575.00	600.00	14,941.00
7/12/2018	NE Quadrant	117.37	20,939.20	2,875,800.00	1,437.90	NE Quadrant	98.00	2,450.00	698.00	17,391.00
7/12/2018	NW Quadrant	948.74	21,887.94	2,996,580.00	1,498.29		-	-	-	-
7/13/2018	NW Quadrant	1,012.46	22,900.40	3,128,210.00	1,564.11	NE Quadrant	105.00	2,625.00	803.00	20,016.00
7/14/2018		-	22,900.40	3,128,210.00	1,564.11		-	-	803.00	20,016.00
7/15/2018		-	22,900.40	3,128,210.00	1,564.11		-	-	803.00	20,016.00
7/16/2018	NW Quadrant	944.03	23,844.43	3,249,470.00	1,624.74	NE Quadrant	92.00	2,300.00	895.00	22,316.00
7/17/2018	NW Quadrant	1,399.47	25,243.90	3,429,580.00	1,714.79	NE Quadrant	96.00	2,400.00	991.00	24,716.00
7/18/2018	NW Quadrant	1,617.70	26,861.60	3,637,830.00	1,818.92	NE Quadrant	109.00	2,725.00	1,100.00	27,441.00
7/19/2018	NW Quadrant	1,210.15	28,071.75	3,793,630.00	1,896.82	NE Quadrant	84.00	2,100.00	1,184.00	29,541.00
7/20/2018	NW Quadrant	1,617.47	29,689.22	4,001,820.00	2,000.91	NE Quadrant	41.00	1,025.00	1,225.00	30,566.00
7/23/2018	NW Quadrant	1,488.71	31,177.93	4,193,360.00	2,096.68		-	-	-	-

 Denotes Final Mixing on NE Quadrant

Through: 7/23/2017

MIXING

52,091 CY Mix and Haul Set up in PO
 31,177.93 CY Mixed to Date
 20,913.08 CY Remaining to be mixed

PORTLAND PERCENTAGES

LBS/CY @ 5% 128.5
 LBS/CY @ 6% 154.2
 (25.7 lbs/%)

HAULING

30,566 CY Hauled to Landfill to Date
 1,225.00 Loads Hauled to Landfill to Date

ADD MIXTURE

3,333.00 TN Add Mixture in PO
 2,096.68 TN Used to Date
 1,236.32 TN Available in PO
 62.91% Percent used to Date

TO DATE PORTLAND USAGE

NE Plant Scale 2,875,800.00 LBS
 1,437.90 TN
 NW Plant Scale 1,317,560.00 LBS
 658.78 TN
 TOTAL TO DATE 4,193,360.00 LBS
 2,096.68 TN

Cubic Yards Mixed 31,177.93 CY
 Portland Used 2,096.68 TN
 Avg Lbs/CY Used 134.50 LBS/CY
 Avg Percent Portland/CY to Date 5.23 %

		Projected
		(Amount Remaining in Current Tons Setup - Amount Required)
		Over (+) (Projected Surplus)
		Under (-) (Projected Shortfall)
Cubic Yards Remaining to be mixed:	20,913.08 CY	
Remaining Portland Available in PO:	1,236.32 TN	
Remaining Portland Req'd at 5%:	1,343.67 TN	-107.35
Remaining Portland Req'd at 6%:	1,612.40 TN	-376.08

DTE Unit 6 Scrubber Basins Land Improvement - CCR Removal

Date:	Area:	Mixed (CY):	To Date Mixed (CY):	To Date Portland Plant Scale (LBS):	To Date Portland Plant Scale (TN):	Removal Area:	Loads Removed (EA):	CY Removed (CY):	To Date Loads Removed (EA):	To Date CY Removed (EA):
6/15/2018	NE Quadrant	1,244.74	1,244.74	160,800.00	80.40		0	0	0	-
6/16/2018		-	1,244.74	160,800.00	80.40		0	0	0	-
6/17/2018		-	1,244.74	160,800.00	80.40		0	0	0	-
6/18/2018	NE Quadrant	1,112.92	2,357.66	305,600.00	152.80		0	0	0	-
6/19/2018	NE Quadrant	1,192.69	3,550.35	459,340.00	229.67		0	0	0	-
6/20/2018	NE Quadrant	1,088.88	4,639.23	601,430.00	300.72		0	0	0	-
6/21/2018	NE Quadrant	1,176.19	5,815.42	757,960.00	378.98		0	0	0	-
6/22/2018	NE Quadrant	708.73	6,524.15	848,610.00	424.31		0	0	0	-
6/23/2018		-	6,524.15	848,610.00	424.31		0	0	0	-
6/24/2018		-	6,524.15	848,610.00	424.31		0	0	0	-
6/25/2018	NE Quadrant	1,410.34	7,934.49	1,032,810.00	516.41		0	0	0	-
6/26/2018	NE Quadrant	1,115.75	9,050.24	1,196,680.00	598.34		0	0	0	-
6/27/2018	NE Quadrant	1,047.60	10,097.84	1,343,470.00	671.74		-	-	-	-
6/28/2018	NE Quadrant	948.96	11,046.80	1,495,940.00	747.97		-	-	-	-
6/29/2018	NE Quadrant	1,183.15	12,229.95	1,681,110.00	840.56		-	-	-	-
6/30/2018		-	12,229.95	1,681,110.00	840.56		-	-	-	-
7/1/2018		-	12,229.95	1,681,110.00	840.56		-	-	-	-
7/2/2018	NE Quadrant	1,222.27	13,452.22	1,870,410.00	935.21	NE Quadrant	59.00	1,416.00	59.00	1,416.00
7/3/2018	NE Quadrant	1,248.77	14,700.99	2,063,600.00	1,031.80	NE Quadrant	78.00	1,950.00	137.00	3,366.00
7/4/2018		-	14,700.99	2,063,600.00	1,031.80		-	-	137.00	3,366.00
7/5/2018	NE Quadrant	1,410.23	16,111.22	2,245,610.00	1,122.81	NE Quadrant	86.00	2,150.00	223.00	5,516.00
7/6/2018	NE Quadrant	1,283.07	17,394.29	2,411,400.00	1,205.70	NE Quadrant	68.00	1,700.00	291.00	7,216.00
7/7/2018		-	17,394.29	2,411,400.00	1,205.70		-	-	291.00	7,216.00
7/8/2018		-	17,394.29	2,411,400.00	1,205.70		-	-	291.00	7,216.00
7/9/2018	NE Quadrant	1,323.14	18,717.43	2,582,120.00	1,291.06	NE Quadrant	104.00	2,600.00	395.00	9,816.00
7/10/2018	NE Quadrant	1,392.31	20,109.74	2,767,590.00	1,383.80	NE Quadrant	102.00	2,550.00	497.00	12,366.00
7/11/2018	NE Quadrant	712.09	20,821.83	2,859,640.00	1,429.82	NE Quadrant	103.00	2,575.00	600.00	14,941.00
7/12/2018	NE Quadrant	117.37	20,939.20	2,875,800.00	1,437.90	NE Quadrant	98.00	2,450.00	698.00	17,391.00
7/12/2018	NW Quadrant	948.74	21,887.94	2,996,580.00	1,498.29		-	-	-	-
7/13/2018	NW Quadrant	1,012.46	22,900.40	3,128,210.00	1,564.11	NE Quadrant	105.00	2,625.00	803.00	20,016.00
7/14/2018		-	22,900.40	3,128,210.00	1,564.11		-	-	803.00	20,016.00
7/15/2018		-	22,900.40	3,128,210.00	1,564.11		-	-	803.00	20,016.00
7/16/2018	NW Quadrant	944.03	23,844.43	3,249,470.00	1,624.74	NE Quadrant	92.00	2,300.00	895.00	22,316.00
7/17/2018	NW Quadrant	1,399.47	25,243.90	3,429,580.00	1,714.79	NE Quadrant	96.00	2,400.00	991.00	24,716.00
7/18/2018	NW Quadrant	1,617.70	26,861.60	3,637,830.00	1,818.92	NE Quadrant	109.00	2,725.00	1,100.00	27,441.00
7/19/2018	NW Quadrant	1,210.15	28,071.75	3,793,630.00	1,896.82	NE Quadrant	84.00	2,100.00	1,184.00	29,541.00
7/20/2018	NW Quadrant	1,617.47	29,689.22	4,001,820.00	2,000.91	NE Quadrant	41.00	1,025.00	1,225.00	30,566.00
7/23/2018	NW Quadrant	1,488.71	31,177.93	4,193,360.00	2,096.68		-	-	-	-
7/24/2018	NW Quadrant	1,388.89	32,566.82	4,372,100.00	2,186.05		-	-	-	-

 Denotes Final Mixing on NE Quadrant

Through: 7/24/2018

MIXING

52,091 CY Mix and Haul Set up in PO
 32,566.82 CY Mixed to Date
 19,524.19 CY Remaining to be mixed

PORTLAND PERCENTAGES

LBS/CY @ 5% 128.5
 LBS/CY @ 6% 154.2
 (25.7 lbs/%)

HAULING

30,566 CY Hauled to Landfill to Date
 1,225.00 Loads Hauled to Landfill to Date

ADD MIXTURE

3,333.00 TN Add Mixture in PO
 2,186.05 TN Used to Date
 1,146.95 TN Available in PO
 65.59% Percent used to Date

TO DATE PORTLAND USAGE

NE Plant Scale 2,875,800.00 LBS
 1,437.90 TN
 NW Plant Scale 1,496,300.00 LBS
 748.15 TN
 TOTAL TO DATE 4,372,100.00 LBS
 2,186.05 TN

Cubic Yards Mixed 32,566.82 CY
 Portland Used 2,186.05 TN
 Avg Lbs/CY Used 134.25 LBS/CY
 Avg Percent Portland/CY to Date 5.22 %

		Projected
		(Amount Remaining in Current Tons Setup - Amount Required)
		Over (+) (Projected Surplus)
		Under (-) (Projected Shortfall)
Cubic Yards Remaining to be mixed:	19,524.19 CY	
Remaining Portland Available in PO:	1,146.95 TN	
Remaining Portland Req'd at 5%:	1,254.43 TN	-107.48
Remaining Portland Req'd at 6%:	1,505.31 TN	-358.36

DTE Unit 6 Scrubber Basins Land Improvement - CCR Removal

Date:	Area:	Mixed (CY):	To Date Mixed (CY):	To Date Portland Plant Scale (LBS):	To Date Portland Plant Scale (TN):	Removal Area:	Loads Removed (EA):	CY Removed (CY):	To Date Loads Removed (EA):	To Date CY Removed (EA):
6/15/2018	NE Quadrant	1,244.74	1,244.74	160,800.00	80.40		0	0	0	-
6/16/2018		-	1,244.74	160,800.00	80.40		0	0	0	-
6/17/2018		-	1,244.74	160,800.00	80.40		0	0	0	-
6/18/2018	NE Quadrant	1,112.92	2,357.66	305,600.00	152.80		0	0	0	-
6/19/2018	NE Quadrant	1,192.69	3,550.35	459,340.00	229.67		0	0	0	-
6/20/2018	NE Quadrant	1,088.88	4,639.23	601,430.00	300.72		0	0	0	-
6/21/2018	NE Quadrant	1,176.19	5,815.42	757,960.00	378.98		0	0	0	-
6/22/2018	NE Quadrant	708.73	6,524.15	848,610.00	424.31		0	0	0	-
6/23/2018		-	6,524.15	848,610.00	424.31		0	0	0	-
6/24/2018		-	6,524.15	848,610.00	424.31		0	0	0	-
6/25/2018	NE Quadrant	1,410.34	7,934.49	1,032,810.00	516.41		0	0	0	-
6/26/2018	NE Quadrant	1,115.75	9,050.24	1,196,680.00	598.34		0	0	0	-
6/27/2018	NE Quadrant	1,047.60	10,097.84	1,343,470.00	671.74		-	-	-	-
6/28/2018	NE Quadrant	948.96	11,046.80	1,495,940.00	747.97		-	-	-	-
6/29/2018	NE Quadrant	1,183.15	12,229.95	1,681,110.00	840.56		-	-	-	-
6/30/2018		-	12,229.95	1,681,110.00	840.56		-	-	-	-
7/1/2018		-	12,229.95	1,681,110.00	840.56		-	-	-	-
7/2/2018	NE Quadrant	1,222.27	13,452.22	1,870,410.00	935.21	NE Quadrant	59.00	1,416.00	59.00	1,416.00
7/3/2018	NE Quadrant	1,248.77	14,700.99	2,063,600.00	1,031.80	NE Quadrant	78.00	1,950.00	137.00	3,366.00
7/4/2018		-	14,700.99	2,063,600.00	1,031.80		-	-	137.00	3,366.00
7/5/2018	NE Quadrant	1,410.23	16,111.22	2,245,610.00	1,122.81	NE Quadrant	86.00	2,150.00	223.00	5,516.00
7/6/2018	NE Quadrant	1,283.07	17,394.29	2,411,400.00	1,205.70	NE Quadrant	68.00	1,700.00	291.00	7,216.00
7/7/2018		-	17,394.29	2,411,400.00	1,205.70		-	-	291.00	7,216.00
7/8/2018		-	17,394.29	2,411,400.00	1,205.70		-	-	291.00	7,216.00
7/9/2018	NE Quadrant	1,323.14	18,717.43	2,582,120.00	1,291.06	NE Quadrant	104.00	2,600.00	395.00	9,816.00
7/10/2018	NE Quadrant	1,392.31	20,109.74	2,767,590.00	1,383.80	NE Quadrant	102.00	2,550.00	497.00	12,366.00
7/11/2018	NE Quadrant	712.09	20,821.83	2,859,640.00	1,429.82	NE Quadrant	103.00	2,575.00	600.00	14,941.00
7/12/2018	NE Quadrant	117.37	20,939.20	2,875,800.00	1,437.90	NE Quadrant	98.00	2,450.00	698.00	17,391.00
7/12/2018	NW Quadrant	948.74	21,887.94	2,996,580.00	1,498.29		-	-	-	-
7/13/2018	NW Quadrant	1,012.46	22,900.40	3,128,210.00	1,564.11	NE Quadrant	105.00	2,625.00	803.00	20,016.00
7/14/2018		-	22,900.40	3,128,210.00	1,564.11		-	-	803.00	20,016.00
7/15/2018		-	22,900.40	3,128,210.00	1,564.11		-	-	803.00	20,016.00
7/16/2018	NW Quadrant	944.03	23,844.43	3,249,470.00	1,624.74	NE Quadrant	92.00	2,300.00	895.00	22,316.00
7/17/2018	NW Quadrant	1,399.47	25,243.90	3,429,580.00	1,714.79	NE Quadrant	96.00	2,400.00	991.00	24,716.00
7/18/2018	NW Quadrant	1,617.70	26,861.60	3,637,830.00	1,818.92	NE Quadrant	109.00	2,725.00	1,100.00	27,441.00
7/19/2018	NW Quadrant	1,210.15	28,071.75	3,793,630.00	1,896.82	NE Quadrant	84.00	2,100.00	1,184.00	29,541.00
7/20/2018	NW Quadrant	1,617.47	29,689.22	4,001,820.00	2,000.91	NE Quadrant	41.00	1,025.00	1,225.00	30,566.00
7/23/2018	NW Quadrant	1,488.71	31,177.93	4,193,360.00	2,096.68		-	-	-	-
7/24/2018	NW Quadrant	1,388.89	32,566.82	4,372,100.00	2,186.05		-	-	-	-
7/25/2018	NW Quadrant	1,534.85	34,101.67	4,569,630.00	2,284.82		-	-	-	-

2,875,800.00 Denotes Final Mixing on NE Quadrant

Through: 7/25/2018

MIXING

52,091 CY Mix and Haul Set up in PO
 34,101.67 CY Mixed to Date
 17,989.34 CY Remaining to be mixed

PORTLAND PERCENTAGES

LBS/CY @ 5% 128.5
 LBS/CY @ 6% 154.2
 (25.7 lbs/%)

HAULING

30,566 CY Hauled to Landfill to Date
 1,225.00 Loads Hauled to Landfill to Date

ADD MIXTURE

3,333.00 TN Add Mixture in PO
 2,284.82 TN Used to Date
 1,048.19 TN Available in PO
 68.55% Percent used to Date

TO DATE PORTLAND USAGE

NE Plant Scale 2,875,800.00 LBS
 1,437.90 TN
 NW Plant Scale 1,693,830.00 LBS
 846.92 TN
 TOTAL TO DATE 4,569,630.00 LBS
 2,284.82 TN

Cubic Yards Mixed 34,101.67 CY
 Portland Used 2,284.82 TN
 Avg Lbs/CY Used 134.00 LBS/CY
 Avg Percent Portland/CY to Date 5.21 %

		Projected
		(Amount Remaining in Current Tons Setup - Amount Required)
		Over (+) (Projected Surplus)
		Under (-) (Projected Shortfall)
Cubic Yards Remaining to be mixed:	17,989.34 CY	
Remaining Portland Available in PO:	1,048.19 TN	
Remaining Portland Req'd at 5%:	1,155.81 TN	-107.63
Remaining Portland Req'd at 6%:	1,386.98 TN	-338.79

DTE Unit 6 Scrubber Basins Land Improvement - CCR Removal

Date:	Area:	Mixed (CY):	To Date Mixed (CY):	To Date Portland Plant Scale (LBS):	To Date Portland Plant Scale (TN):	Removal Area:	Loads Removed (EA):	CY Removed (CY):	To Date Loads Removed (EA):	To Date CY Removed (EA):
6/15/2018	NE Quadrant	1,244.74	1,244.74	160,800.00	80.40		0	0	0	-
6/16/2018		-	1,244.74	160,800.00	80.40		0	0	0	-
6/17/2018		-	1,244.74	160,800.00	80.40		0	0	0	-
6/18/2018	NE Quadrant	1,112.92	2,357.66	305,600.00	152.80		0	0	0	-
6/19/2018	NE Quadrant	1,192.69	3,550.35	459,340.00	229.67		0	0	0	-
6/20/2018	NE Quadrant	1,088.88	4,639.23	601,430.00	300.72		0	0	0	-
6/21/2018	NE Quadrant	1,176.19	5,815.42	757,960.00	378.98		0	0	0	-
6/22/2018	NE Quadrant	708.73	6,524.15	848,610.00	424.31		0	0	0	-
6/23/2018		-	6,524.15	848,610.00	424.31		0	0	0	-
6/24/2018		-	6,524.15	848,610.00	424.31		0	0	0	-
6/25/2018	NE Quadrant	1,410.34	7,934.49	1,032,810.00	516.41		0	0	0	-
6/26/2018	NE Quadrant	1,115.75	9,050.24	1,196,680.00	598.34		0	0	0	-
6/27/2018	NE Quadrant	1,047.60	10,097.84	1,343,470.00	671.74		-	-	-	-
6/28/2018	NE Quadrant	948.96	11,046.80	1,495,940.00	747.97		-	-	-	-
6/29/2018	NE Quadrant	1,183.15	12,229.95	1,681,110.00	840.56		-	-	-	-
6/30/2018		-	12,229.95	1,681,110.00	840.56		-	-	-	-
7/1/2018		-	12,229.95	1,681,110.00	840.56		-	-	-	-
7/2/2018	NE Quadrant	1,222.27	13,452.22	1,870,410.00	935.21	NE Quadrant	59.00	1,416.00	59.00	1,416.00
7/3/2018	NE Quadrant	1,248.77	14,700.99	2,063,600.00	1,031.80	NE Quadrant	78.00	1,950.00	137.00	3,366.00
7/4/2018		-	14,700.99	2,063,600.00	1,031.80		-	-	137.00	3,366.00
7/5/2018	NE Quadrant	1,410.23	16,111.22	2,245,610.00	1,122.81	NE Quadrant	86.00	2,150.00	223.00	5,516.00
7/6/2018	NE Quadrant	1,283.07	17,394.29	2,411,400.00	1,205.70	NE Quadrant	68.00	1,700.00	291.00	7,216.00
7/7/2018		-	17,394.29	2,411,400.00	1,205.70		-	-	291.00	7,216.00
7/8/2018		-	17,394.29	2,411,400.00	1,205.70		-	-	291.00	7,216.00
7/9/2018	NE Quadrant	1,323.14	18,717.43	2,582,120.00	1,291.06	NE Quadrant	104.00	2,600.00	395.00	9,816.00
7/10/2018	NE Quadrant	1,392.31	20,109.74	2,767,590.00	1,383.80	NE Quadrant	102.00	2,550.00	497.00	12,366.00
7/11/2018	NE Quadrant	712.09	20,821.83	2,859,640.00	1,429.82	NE Quadrant	103.00	2,575.00	600.00	14,941.00
7/12/2018	NE Quadrant	117.37	20,939.20	2,875,800.00	1,437.90	NE Quadrant	98.00	2,450.00	698.00	17,391.00
7/12/2018	NW Quadrant	948.74	21,887.94	2,996,580.00	1,498.29		-	-	-	-
7/13/2018	NW Quadrant	1,012.46	22,900.40	3,128,210.00	1,564.11	NE Quadrant	105.00	2,625.00	803.00	20,016.00
7/14/2018		-	22,900.40	3,128,210.00	1,564.11		-	-	803.00	20,016.00
7/15/2018		-	22,900.40	3,128,210.00	1,564.11		-	-	803.00	20,016.00
7/16/2018	NW Quadrant	944.03	23,844.43	3,249,470.00	1,624.74	NE Quadrant	92.00	2,300.00	895.00	22,316.00
7/17/2018	NW Quadrant	1,399.47	25,243.90	3,429,580.00	1,714.79	NE Quadrant	96.00	2,400.00	991.00	24,716.00
7/18/2018	NW Quadrant	1,617.70	26,861.60	3,637,830.00	1,818.92	NE Quadrant	109.00	2,725.00	1,100.00	27,441.00
7/19/2018	NW Quadrant	1,210.15	28,071.75	3,793,630.00	1,896.82	NE Quadrant	84.00	2,100.00	1,184.00	29,541.00
7/20/2018	NW Quadrant	1,617.47	29,689.22	4,001,820.00	2,000.91	NE Quadrant	41.00	1,025.00	1,225.00	30,566.00
7/23/2018	NW Quadrant	1,488.71	31,177.93	4,193,360.00	2,096.68		-	-	-	-
7/24/2018	NW Quadrant	1,388.89	32,566.82	4,372,100.00	2,186.05		-	-	-	-
7/25/2018	NW Quadrant	1,534.85	34,101.67	4,569,630.00	2,284.82		-	-	-	-
7/26/2018	NW Quadrant	1,514.81	35,616.48	4,764,600.00	2,382.30		-	-	-	-

 Denotes Final Mixing on NE Quadrant

Through: 7/26/2018

MIXING

52,091 CY Mix and Haul Set up in PO
 35,616.48 CY Mixed to Date
 16,474.53 CY Remaining to be mixed

PORTLAND PERCENTAGES

LBS/CY @ 5% 128.5
 LBS/CY @ 6% 154.2
 (25.7 lbs/%)

HAULING

30,566 CY Hauled to Landfill to Date
 1,225.00 Loads Hauled to Landfill to Date

ADD MIXTURE

3,333.00 TN Add Mixture in PO
 2,382.30 TN Used to Date
 950.70 TN Available in PO
 71.48% Percent used to Date

TO DATE PORTLAND USAGE

NE Plant Scale 2,875,800.00 LBS
 1,437.90 TN
 NW Plant Scale 1,888,800.00 LBS
 944.40 TN
 TOTAL TO DATE 4,764,600.00 LBS
 2,382.30 TN

Cubic Yards Mixed 35,616.48 CY
 Portland Used 2,382.30 TN
 Avg Lbs/CY Used 133.78 LBS/CY
 Avg Percent Portland/CY to Date 5.21 %

		Projected (Amount Remaining in Current Tons Setup - Amount Required)
		Over (+) (Projected Surplus)
		Under (-) (Projected Shortfall)
Cubic Yards Remaining to be mixed:	16,474.53 CY	
Remaining Portland Available in PO:	950.70 TN	
Remaining Portland Req'd at 5%:	1,058.49 TN	-107.79
Remaining Portland Req'd at 6%:	1,270.19 TN	-319.49

DTE Unit 6 Scrubber Basins Land Improvement - CCR Removal

Date:	Area:	Mixed (CY):	To Date Mixed (CY):	To Date Portland Plant Scale (LBS):	To Date Portland Plant Scale (TN):	Removal Area:	Loads Removed (EA):	CY Removed (CY):	To Date Loads Removed (EA):	To Date CY Removed (EA):
6/15/2018	NE Quadrant	1,244.74	1,244.74	160,800.00	80.40		0	0	0	-
6/16/2018		-	1,244.74	160,800.00	80.40		0	0	0	-
6/17/2018		-	1,244.74	160,800.00	80.40		0	0	0	-
6/18/2018	NE Quadrant	1,112.92	2,357.66	305,600.00	152.80		0	0	0	-
6/19/2018	NE Quadrant	1,192.69	3,550.35	459,340.00	229.67		0	0	0	-
6/20/2018	NE Quadrant	1,088.88	4,639.23	601,430.00	300.72		0	0	0	-
6/21/2018	NE Quadrant	1,176.19	5,815.42	757,960.00	378.98		0	0	0	-
6/22/2018	NE Quadrant	708.73	6,524.15	848,610.00	424.31		0	0	0	-
6/23/2018		-	6,524.15	848,610.00	424.31		0	0	0	-
6/24/2018		-	6,524.15	848,610.00	424.31		0	0	0	-
6/25/2018	NE Quadrant	1,410.34	7,934.49	1,032,810.00	516.41		0	0	0	-
6/26/2018	NE Quadrant	1,115.75	9,050.24	1,196,680.00	598.34		0	0	0	-
6/27/2018	NE Quadrant	1,047.60	10,097.84	1,343,470.00	671.74		-	-	-	-
6/28/2018	NE Quadrant	948.96	11,046.80	1,495,940.00	747.97		-	-	-	-
6/29/2018	NE Quadrant	1,183.15	12,229.95	1,681,110.00	840.56		-	-	-	-
6/30/2018		-	12,229.95	1,681,110.00	840.56		-	-	-	-
7/1/2018		-	12,229.95	1,681,110.00	840.56		-	-	-	-
7/2/2018	NE Quadrant	1,222.27	13,452.22	1,870,410.00	935.21	NE Quadrant	59.00	1,416.00	59.00	1,416.00
7/3/2018	NE Quadrant	1,248.77	14,700.99	2,063,600.00	1,031.80	NE Quadrant	78.00	1,950.00	137.00	3,366.00
7/4/2018		-	14,700.99	2,063,600.00	1,031.80		-	-	137.00	3,366.00
7/5/2018	NE Quadrant	1,410.23	16,111.22	2,245,610.00	1,122.81	NE Quadrant	86.00	2,150.00	223.00	5,516.00
7/6/2018	NE Quadrant	1,283.07	17,394.29	2,411,400.00	1,205.70	NE Quadrant	68.00	1,700.00	291.00	7,216.00
7/7/2018		-	17,394.29	2,411,400.00	1,205.70		-	-	291.00	7,216.00
7/8/2018		-	17,394.29	2,411,400.00	1,205.70		-	-	291.00	7,216.00
7/9/2018	NE Quadrant	1,323.14	18,717.43	2,582,120.00	1,291.06	NE Quadrant	104.00	2,600.00	395.00	9,816.00
7/10/2018	NE Quadrant	1,392.31	20,109.74	2,767,590.00	1,383.80	NE Quadrant	102.00	2,550.00	497.00	12,366.00
7/11/2018	NE Quadrant	712.09	20,821.83	2,859,640.00	1,429.82	NE Quadrant	103.00	2,575.00	600.00	14,941.00
7/12/2018	NE Quadrant	117.37	20,939.20	2,875,800.00	1,437.90	NE Quadrant	98.00	2,450.00	698.00	17,391.00
7/12/2018	NW Quadrant	948.74	21,887.94	2,996,580.00	1,498.29		-	-	-	-
7/13/2018	NW Quadrant	1,012.46	22,900.40	3,128,210.00	1,564.11	NE Quadrant	105.00	2,625.00	803.00	20,016.00
7/14/2018		-	22,900.40	3,128,210.00	1,564.11		-	-	803.00	20,016.00
7/15/2018		-	22,900.40	3,128,210.00	1,564.11		-	-	803.00	20,016.00
7/16/2018	NW Quadrant	944.03	23,844.43	3,249,470.00	1,624.74	NE Quadrant	92.00	2,300.00	895.00	22,316.00
7/17/2018	NW Quadrant	1,399.47	25,243.90	3,429,580.00	1,714.79	NE Quadrant	96.00	2,400.00	991.00	24,716.00
7/18/2018	NW Quadrant	1,617.70	26,861.60	3,637,830.00	1,818.92	NE Quadrant	109.00	2,725.00	1,100.00	27,441.00
7/19/2018	NW Quadrant	1,210.15	28,071.75	3,793,630.00	1,896.82	NE Quadrant	84.00	2,100.00	1,184.00	29,541.00
7/20/2018	NW Quadrant	1,617.47	29,689.22	4,001,820.00	2,000.91	NE Quadrant	41.00	1,025.00	1,225.00	30,566.00
7/23/2018	NW Quadrant	1,488.71	31,177.93	4,193,360.00	2,096.68		-	-	-	-
7/24/2018	NW Quadrant	1,388.89	32,566.82	4,372,100.00	2,186.05		-	-	-	-
7/25/2018	NW Quadrant	1,534.85	34,101.67	4,569,630.00	2,284.82		-	-	-	-
7/26/2018	NW Quadrant	1,514.81	35,616.48	4,764,600.00	2,382.30		-	-	-	-
7/27/2018	NW Quadrant	1,461.97	37,078.45	4,952,800.00	2,476.40		-	-	-	-

Denotes Final Mixing on NE Quadrant

Through: 7/27/2018

MIXING

52,091 CY Mix and Haul Set up in PO
 37,078.45 CY Mixed to Date
 15,012.56 CY Remaining to be mixed

PORTLAND PERCENTAGES

LBS/CY @ 5% 128.5
 LBS/CY @ 6% 154.2
 (25.7 lbs/%)

HAULING

30,566 CY Hauled to Landfill to Date
 1,225.00 Loads Hauled to Landfill to Date

ADD MIXTURE

3,333.00 TN Add Mixture in PO
 2,476.40 TN Used to Date
 856.60 TN Available in PO
 74.30% Percent used to Date

TO DATE PORTLAND USAGE

NE Plant Scale 2,875,800.00 LBS
 1,437.90 TN
 NW Plant Scale 2,077,000.00 LBS
 1,038.50 TN
 TOTAL TO DATE 4,952,800.00 LBS
 2,476.40 TN

Cubic Yards Mixed 37,078.45 CY
 Portland Used 2,476.40 TN
 Avg Lbs/CY Used 133.58 LBS/CY
 Avg Percent Portland/CY to Date 5.20 %

		Projected
		(Amount Remaining in Current Tons Setup - Amount Required)
		Over (+) (Projected Surplus)
		Under (-) (Projected Shortfall)
Cubic Yards Remaining to be mixed:	15,012.56 CY	
Remaining Portland Available in PO:	856.60 TN	
Remaining Portland Req'd at 5%:	964.56 TN	-107.96
Remaining Portland Req'd at 6%:	1,157.47 TN	-300.87

DTE Unit 6 Scrubber Basins Land Improvement - CCR Removal

Date:	Area:	Mixed (CY):	To Date Mixed (CY):	To Date Portland Plant Scale (LBS):	To Date Portland Plant Scale (TN):	Removal Area:	Loads Removed (EA):	CY Removed (CY):	To Date Loads Removed (EA):	To Date CY Removed (EA):
6/15/2018	NE Quadrant	1,244.74	1,244.74	160,800.00	80.40		0	0	0	-
6/16/2018		-	1,244.74	160,800.00	80.40		0	0	0	-
6/17/2018		-	1,244.74	160,800.00	80.40		0	0	0	-
6/18/2018	NE Quadrant	1,112.92	2,357.66	305,600.00	152.80		0	0	0	-
6/19/2018	NE Quadrant	1,192.69	3,550.35	459,340.00	229.67		0	0	0	-
6/20/2018	NE Quadrant	1,088.88	4,639.23	601,430.00	300.72		0	0	0	-
6/21/2018	NE Quadrant	1,176.19	5,815.42	757,960.00	378.98		0	0	0	-
6/22/2018	NE Quadrant	708.73	6,524.15	848,610.00	424.31		0	0	0	-
6/23/2018		-	6,524.15	848,610.00	424.31		0	0	0	-
6/24/2018		-	6,524.15	848,610.00	424.31		0	0	0	-
6/25/2018	NE Quadrant	1,410.34	7,934.49	1,032,810.00	516.41		0	0	0	-
6/26/2018	NE Quadrant	1,115.75	9,050.24	1,196,680.00	598.34		0	0	0	-
6/27/2018	NE Quadrant	1,047.60	10,097.84	1,343,470.00	671.74		-	-	-	-
6/28/2018	NE Quadrant	948.96	11,046.80	1,495,940.00	747.97		-	-	-	-
6/29/2018	NE Quadrant	1,183.15	12,229.95	1,681,110.00	840.56		-	-	-	-
6/30/2018		-	12,229.95	1,681,110.00	840.56		-	-	-	-
7/1/2018		-	12,229.95	1,681,110.00	840.56		-	-	-	-
7/2/2018	NE Quadrant	1,222.27	13,452.22	1,870,410.00	935.21	NE Quadrant	59.00	1,416.00	59.00	1,416.00
7/3/2018	NE Quadrant	1,248.77	14,700.99	2,063,600.00	1,031.80	NE Quadrant	78.00	1,950.00	137.00	3,366.00
7/4/2018		-	14,700.99	2,063,600.00	1,031.80		-	-	137.00	3,366.00
7/5/2018	NE Quadrant	1,410.23	16,111.22	2,245,610.00	1,122.81	NE Quadrant	86.00	2,150.00	223.00	5,516.00
7/6/2018	NE Quadrant	1,283.07	17,394.29	2,411,400.00	1,205.70	NE Quadrant	68.00	1,700.00	291.00	7,216.00
7/7/2018		-	17,394.29	2,411,400.00	1,205.70		-	-	291.00	7,216.00
7/8/2018		-	17,394.29	2,411,400.00	1,205.70		-	-	291.00	7,216.00
7/9/2018	NE Quadrant	1,323.14	18,717.43	2,582,120.00	1,291.06	NE Quadrant	104.00	2,600.00	395.00	9,816.00
7/10/2018	NE Quadrant	1,392.31	20,109.74	2,767,590.00	1,383.80	NE Quadrant	102.00	2,550.00	497.00	12,366.00
7/11/2018	NE Quadrant	712.09	20,821.83	2,859,640.00	1,429.82	NE Quadrant	103.00	2,575.00	600.00	14,941.00
7/12/2018	NE Quadrant	117.37	20,939.20	2,875,800.00	1,437.90	NE Quadrant	98.00	2,450.00	698.00	17,391.00
7/12/2018	NW Quadrant	948.74	21,887.94	2,996,580.00	1,498.29		-	-	-	17,391.00
7/13/2018	NW Quadrant	1,012.46	22,900.40	3,128,210.00	1,564.11	NE Quadrant	105.00	2,625.00	803.00	20,016.00
7/14/2018		-	22,900.40	3,128,210.00	1,564.11		-	-	803.00	20,016.00
7/15/2018		-	22,900.40	3,128,210.00	1,564.11		-	-	803.00	20,016.00
7/16/2018	NW Quadrant	944.03	23,844.43	3,249,470.00	1,624.74	NE Quadrant	92.00	2,300.00	895.00	22,316.00
7/17/2018	NW Quadrant	1,399.47	25,243.90	3,429,580.00	1,714.79	NE Quadrant	96.00	2,400.00	991.00	24,716.00
7/18/2018	NW Quadrant	1,617.70	26,861.60	3,637,830.00	1,818.92	NE Quadrant	109.00	2,725.00	1,100.00	27,441.00
7/19/2018	NW Quadrant	1,210.15	28,071.75	3,793,630.00	1,896.82	NE Quadrant	84.00	2,100.00	1,184.00	29,541.00
7/20/2018	NW Quadrant	1,617.47	29,689.22	4,001,820.00	2,000.91	NE Quadrant	41.00	1,025.00	1,225.00	30,566.00
7/23/2018	NW Quadrant	1,488.71	31,177.93	4,193,360.00	2,096.68		-	-	1,225.00	30,566.00
7/24/2018	NW Quadrant	1,388.89	32,566.82	4,372,100.00	2,186.05		-	-	1,225.00	30,566.00
7/25/2018	NW Quadrant	1,534.85	34,101.67	4,569,630.00	2,284.82		-	-	1,225.00	30,566.00
7/26/2018	NW Quadrant	1,514.81	35,616.48	4,764,600.00	2,382.30		-	-	1,225.00	30,566.00
7/27/2018	NW Quadrant	1,461.97	37,078.45	4,952,800.00	2,476.40		-	-	1,225.00	30,566.00
7/30/2018	NW Quadrant	1,565.70	38,644.15	5,154,240.00	2,577.12		-	-	1,225.00	30,566.00

Denotes Final Mixing on NE Quadrant

Through: 7/30/2018

MIXING

52,091 CY Mix and Haul Set up in PO
 38,644.15 CY Mixed to Date
 13,446.86 CY Remaining to be mixed

PORTLAND PERCENTAGES

LBS/CY @ 5% 128.5
 LBS/CY @ 6% 154.2
 (25.7 lbs/%)

HAULING

30,566 CY Hauled to Landfill to Date
 1,225.00 Loads Hauled to Landfill to Date

ADD MIXTURE

3,333.00 TN Add Mixture in PO
 2,577.12 TN Used to Date
 755.88 TN Available in PO
 77.32% Percent used to Date

TO DATE PORTLAND USAGE

NE Plant Scale 2,875,800.00 LBS
 1,437.90 TN
 NW Plant Scale 2,278,440.00 LBS
 1,139.22 TN
 TOTAL TO DATE 5,154,240.00 LBS
 2,577.12 TN

Cubic Yards Mixed 38,644.15 CY
 Portland Used 2,577.12 TN
 Avg Lbs/CY Used 133.38 LBS/CY
 Avg Percent Portland/CY to Date 5.19 %

		Projected (Amount Remaining in Current Tons Setup - Amount Required)
		Over (+) (Projected Surplus)
		Under (-) (Projected Shortfall)
Cubic Yards Remaining to be mixed:	13,446.86 CY	
Remaining Portland Available in PO:	755.88 TN	
Remaining Portland Req'd at 5%:	863.96 TN	-108.08
Remaining Portland Req'd at 6%:	1,036.75 TN	-280.87

DTE Unit 6 Scrubber Basins Land Improvement - CCR Removal

Date:	Area:	Mixed (CY):	To Date Mixed (CY):	To Date Portland Plant Scale (LBS):	To Date Portland Plant Scale (TN):	Removal Area:	Loads Removed (EA):	CY Removed (CY):	To Date Loads Removed (EA):	To Date CY Removed (EA):
6/15/2018	NE Quadrant	1,244.74	1,244.74	160,800.00	80.40		0	0	0	-
6/16/2018		-	1,244.74	160,800.00	80.40		0	0	0	-
6/17/2018		-	1,244.74	160,800.00	80.40		0	0	0	-
6/18/2018	NE Quadrant	1,112.92	2,357.66	305,600.00	152.80		0	0	0	-
6/19/2018	NE Quadrant	1,192.69	3,550.35	459,340.00	229.67		0	0	0	-
6/20/2018	NE Quadrant	1,088.88	4,639.23	601,430.00	300.72		0	0	0	-
6/21/2018	NE Quadrant	1,176.19	5,815.42	757,960.00	378.98		0	0	0	-
6/22/2018	NE Quadrant	708.73	6,524.15	848,610.00	424.31		0	0	0	-
6/23/2018		-	6,524.15	848,610.00	424.31		0	0	0	-
6/24/2018		-	6,524.15	848,610.00	424.31		0	0	0	-
6/25/2018	NE Quadrant	1,410.34	7,934.49	1,032,810.00	516.41		0	0	0	-
6/26/2018	NE Quadrant	1,115.75	9,050.24	1,196,680.00	598.34		0	0	0	-
6/27/2018	NE Quadrant	1,047.60	10,097.84	1,343,470.00	671.74		-	-	-	-
6/28/2018	NE Quadrant	948.96	11,046.80	1,495,940.00	747.97		-	-	-	-
6/29/2018	NE Quadrant	1,183.15	12,229.95	1,681,110.00	840.56		-	-	-	-
6/30/2018		-	12,229.95	1,681,110.00	840.56		-	-	-	-
7/1/2018		-	12,229.95	1,681,110.00	840.56		-	-	-	-
7/2/2018	NE Quadrant	1,222.27	13,452.22	1,870,410.00	935.21	NE Quadrant	59.00	1,416.00	59.00	1,416.00
7/3/2018	NE Quadrant	1,248.77	14,700.99	2,063,600.00	1,031.80	NE Quadrant	78.00	1,950.00	137.00	3,366.00
7/4/2018		-	14,700.99	2,063,600.00	1,031.80		-	-	137.00	3,366.00
7/5/2018	NE Quadrant	1,410.23	16,111.22	2,245,610.00	1,122.81	NE Quadrant	86.00	2,150.00	223.00	5,516.00
7/6/2018	NE Quadrant	1,283.07	17,394.29	2,411,400.00	1,205.70	NE Quadrant	68.00	1,700.00	291.00	7,216.00
7/7/2018		-	17,394.29	2,411,400.00	1,205.70		-	-	291.00	7,216.00
7/8/2018		-	17,394.29	2,411,400.00	1,205.70		-	-	291.00	7,216.00
7/9/2018	NE Quadrant	1,323.14	18,717.43	2,582,120.00	1,291.06	NE Quadrant	104.00	2,600.00	395.00	9,816.00
7/10/2018	NE Quadrant	1,392.31	20,109.74	2,767,590.00	1,383.80	NE Quadrant	102.00	2,550.00	497.00	12,366.00
7/11/2018	NE Quadrant	712.09	20,821.83	2,859,640.00	1,429.82	NE Quadrant	103.00	2,575.00	600.00	14,941.00
7/12/2018	NE Quadrant	117.37	20,939.20	2,875,800.00	1,437.90	NE Quadrant	98.00	2,450.00	698.00	17,391.00
7/12/2018	NW Quadrant	948.74	21,887.94	2,996,580.00	1,498.29		-	-	-	17,391.00
7/13/2018	NW Quadrant	1,012.46	22,900.40	3,128,210.00	1,564.11	NE Quadrant	105.00	2,625.00	803.00	20,016.00
7/14/2018		-	22,900.40	3,128,210.00	1,564.11		-	-	803.00	20,016.00
7/15/2018		-	22,900.40	3,128,210.00	1,564.11		-	-	803.00	20,016.00
7/16/2018	NW Quadrant	944.03	23,844.43	3,249,470.00	1,624.74	NE Quadrant	92.00	2,300.00	895.00	22,316.00
7/17/2018	NW Quadrant	1,399.47	25,243.90	3,429,580.00	1,714.79	NE Quadrant	96.00	2,400.00	991.00	24,716.00
7/18/2018	NW Quadrant	1,617.70	26,861.60	3,637,830.00	1,818.92	NE Quadrant	109.00	2,725.00	1,100.00	27,441.00
7/19/2018	NW Quadrant	1,210.15	28,071.75	3,793,630.00	1,896.82	NE Quadrant	84.00	2,100.00	1,184.00	29,541.00
7/20/2018	NW Quadrant	1,617.47	29,689.22	4,001,820.00	2,000.91	NE Quadrant	41.00	1,025.00	1,225.00	30,566.00
7/23/2018	NW Quadrant	1,488.71	31,177.93	4,193,360.00	2,096.68		-	-	1,225.00	30,566.00
7/24/2018	NW Quadrant	1,388.89	32,566.82	4,372,100.00	2,186.05		-	-	1,225.00	30,566.00
7/25/2018	NW Quadrant	1,534.85	34,101.67	4,569,630.00	2,284.82		-	-	1,225.00	30,566.00
7/26/2018	NW Quadrant	1,514.81	35,616.48	4,764,600.00	2,382.30		-	-	1,225.00	30,566.00
7/27/2018	NW Quadrant	1,461.97	37,078.45	4,952,800.00	2,476.40		-	-	1,225.00	30,566.00
7/30/2018	NW Quadrant	1,565.70	38,644.15	5,154,240.00	2,577.12		-	-	1,225.00	30,566.00
7/31/2018	NW Quadrant	1,752.55	40,396.70	5,379,800.00	2,689.90	NW Quadrant	72.00	1,800.00	1,297.00	32,366.00

Denotes Final Mixing on NE Quadrant

Through: 7/31/2018

MIXING		Percent of P.O.	PORTLAND PERCENTAGES	
	52,091	CY Mix and Haul Set up in PO	100%	LBS/CY @ 5% 128.5
	40,396.70	CY Mixed to Date	78%	LBS/CY @ 6% 154.2
	11,694.31	CY Remaining to be mixed	22%	(25.7 lbs/%)

HAULING

	32,366	CY Hauled to Landfill to Date
	1,297.00	Loads Hauled to Landfill to Date

ADD MIXTURE

	3,333.00	TN Add Mixture in PO
	2,689.90	TN Used to Date
	643.10	TN Available in PO
	80.71%	Percent used to Date

TO DATE PORTLAND USAGE

NE Plant Scale	2,875,800.00	LBS
	1,437.90	TN
NW Plant Scale	2,504,000.00	LBS
	1,252.00	TN
TOTAL TO DATE	5,379,800.00	LBS
	2,689.90	TN

Cubic Yards Mixed	40,396.70	CY
Portland Used	2,689.90	TN
Avg Lbs/CY Used	133.17	LBS/CY
Avg Percent Portland/CY to Date	5.18	%

		Projected
		(Amount Remaining in Current Tons Setup - Amount Required)
		Over (+) (Projected Surplus)
		Under (-) (Projected Shortfall)
Cubic Yards Remaining to be mixed:	11,694.31	CY
Remaining Portland Available in PO:	643.10	TN
Remaining Portland Req'd at 5%:	751.36	TN
Remaining Portland Req'd at 6%:	901.63	TN
		-108.26
		-258.53

DTE Unit 6 Scrubber Basins Land Improvement - CCR Removal

Date:	Area:	Mixed (CY):	To Date Mixed (CY):	Total Portland Delivered to Site (LBS):	Total Portland Delivered to Site (TN):	To Date Portland Plant Scale (LBS):	To Date Portland Plant Scale (TN):	Removal Area:	Loads Removed (EA):	CY Removed (CY):	To Date Loads Removed (EA):	To Date CY Removed (EA):
6/15/2018	NE Quadrant	1,244.74	1,244.74	251,660.00	125.83	160,800.00	80.40		0	0	0	-
6/16/2018		-	1,244.74			160,800.00	80.40		0	0	0	-
6/17/2018		-	1,244.74			160,800.00	80.40		0	0	0	-
6/18/2018	NE Quadrant	1,112.92	2,357.66	412,320.00	206.16	305,600.00	152.80		0	0	0	-
6/19/2018	NE Quadrant	1,192.69	3,550.35	572,620.00	286.31	459,340.00	229.67		0	0	0	-
6/20/2018	NE Quadrant	1,088.88	4,639.23	733,220.00	366.61	601,430.00	300.72		0	0	0	-
6/21/2018	NE Quadrant	1,176.19	5,815.42	893,240.00	446.62	757,960.00	378.98		0	0	0	-
6/22/2018	NE Quadrant	708.73	6,524.15	1,000,600.00	500.30	848,610.00	424.31		0	0	0	-
6/23/2018		-	6,524.15			848,610.00	424.31		0	0	0	-
6/24/2018		-	6,524.15			848,610.00	424.31		0	0	0	-
6/25/2018	NE Quadrant	1,410.34	7,934.49	1,002,147.00	501.07	1,032,810.00	516.41		0	0	0	-
6/26/2018	NE Quadrant	1,115.75	9,050.24	1,246,900.00	623.45	1,196,680.00	598.34		0	0	0	-
6/27/2018	NE Quadrant	1,047.60	10,097.84	1,447,580.00	723.79	1,343,470.00	671.74		-	-	-	-
6/28/2018	NE Quadrant	948.96	11,046.80	1,594,960.00	797.48	1,495,940.00	747.97		-	-	-	-
6/29/2018	NE Quadrant	1,183.15	12,229.95	1,742,060.00	871.03	1,681,110.00	840.56		-	-	-	-
6/30/2018		-	12,229.95			1,681,110.00	840.56		-	-	-	-
7/1/2018		-	12,229.95			1,681,110.00	840.56		-	-	-	-
7/2/2018	NE Quadrant	1,222.27	13,452.22	1,988,100.00	994.05	1,870,410.00	935.21	NE Quadrant	59.00	1,416.00	59.00	1,416.00
7/3/2018	NE Quadrant	1,248.77	14,700.99	2,135,000.00	1,067.50	2,063,600.00	1,031.80	NE Quadrant	78.00	1,950.00	137.00	3,366.00
7/4/2018		-	14,700.99			2,063,600.00	1,031.80		-	-	137.00	3,366.00
7/5/2018	NE Quadrant	1,410.23	16,111.22	2,382,220.00	1,191.11	2,245,610.00	1,122.81	NE Quadrant	86.00	2,150.00	223.00	5,516.00
7/6/2018	NE Quadrant	1,283.07	17,394.29	2,530,560.00	1,265.28	2,411,400.00	1,205.70	NE Quadrant	68.00	1,700.00	291.00	7,216.00
7/7/2018		-	17,394.29			2,411,400.00	1,205.70		-	-	291.00	7,216.00
7/8/2018		-	17,394.29			2,411,400.00	1,205.70		-	-	291.00	7,216.00
7/9/2018	NE Quadrant	1,323.14	18,717.43	2,675,340.00	1,337.67	2,582,120.00	1,291.06	NE Quadrant	104.00	2,600.00	395.00	9,816.00
7/10/2018	NE Quadrant	1,392.31	20,109.74	2,874,680.00	1,437.34	2,767,590.00	1,383.80	NE Quadrant	102.00	2,550.00	497.00	12,366.00
7/11/2018	NE Quadrant	712.09	20,821.83	2,971,200.00	1,485.60	2,859,640.00	1,429.82	NE Quadrant	103.00	2,575.00	600.00	14,941.00
7/12/2018	NE Quadrant	117.37	20,939.20	3,020,020.00	1,510.01	2,875,800.00	1,437.90	NE Quadrant	98.00	2,450.00	698.00	17,391.00
7/12/2018	NW Quadrant	948.74	21,887.94	3,261,900.00	1,630.95	2,996,580.00	1,498.29		-	-	698.00	17,391.00
7/13/2018	NW Quadrant	1,012.46	22,900.40	3,406,820.00	1,703.41	3,128,210.00	1,564.11	NE Quadrant	105.00	2,625.00	803.00	20,016.00
7/14/2018		-	22,900.40			3,128,210.00	1,564.11		-	-	803.00	20,016.00
7/15/2018		-	22,900.40			3,128,210.00	1,564.11		-	-	803.00	20,016.00
7/16/2018	NW Quadrant	944.03	23,844.43	3,503,600.00	1,751.80	3,249,470.00	1,624.74	NE Quadrant	92.00	2,300.00	895.00	22,316.00
7/17/2018	NW Quadrant	1,399.47	25,243.90	3,649,040.00	1,824.52	3,429,580.00	1,714.79	NE Quadrant	96.00	2,400.00	991.00	24,716.00
7/18/2018	NW Quadrant	1,617.70	26,861.60	3,800,460.00	1,900.23	3,637,830.00	1,818.92	NE Quadrant	109.00	2,725.00	1,100.00	27,441.00
7/19/2018	NW Quadrant	1,210.15	28,071.75	4,048,140.00	2,024.07	3,793,630.00	1,896.82	NE Quadrant	84.00	2,100.00	1,184.00	29,541.00
7/20/2018	NW Quadrant	1,617.47	29,689.22	4,243,680.00	2,121.84	4,001,820.00	2,000.91	NE Quadrant	41.00	1,025.00	1,225.00	30,566.00
7/23/2018	NW Quadrant	1,488.71	31,177.93	4,441,740.00	2,220.87	4,193,360.00	2,096.68		-	-	1,225.00	30,566.00
7/24/2018	NW Quadrant	1,388.89	32,566.82	4,587,880.00	2,293.94	4,372,100.00	2,186.05		-	-	1,225.00	30,566.00
7/25/2018	NW Quadrant	1,534.85	34,101.67	4,782,900.00	2,391.45	4,569,630.00	2,284.82		-	-	1,225.00	30,566.00
7/26/2018	NW Quadrant	1,514.81	35,616.48	4,979,840.00	2,489.92	4,764,600.00	2,382.30		-	-	1,225.00	30,566.00
7/27/2018	NW Quadrant	1,461.97	37,078.45	5,178,320.00	2,589.16	4,952,800.00	2,476.40		-	-	1,225.00	30,566.00
7/30/2018	NW Quadrant	1,565.70	38,644.15	5,373,020.00	2,686.51	5,154,240.00	2,577.12		-	-	1,225.00	30,566.00
7/31/2018	NW Quadrant	1,752.55	40,396.70	5,621,440.00	2,810.72	5,379,800.00	2,689.90	NW Quadrant	72.00	1,800.00	1,297.00	32,366.00
8/1/2018	NW Quadrant	1,611.11	42,007.81	5,816,330.00	2,908.17	5,588,170.00	2,794.09		-	-	1,297.00	32,366.00

Denotes Final Mixing on NE Quadrant

Through: 8/1/2018

MIXING		Percent of P.O.	PORTLAND PERCENTAGES	
	52,091	CY Mix and Haul Set up in PO	100%	LBS/CY @ 5% 128.5
	42,007.81	CY Mixed to Date	81%	LBS/CY @ 6% 154.2
	10,083.20	CY Remaining to be mixed	19%	(25.7 lbs/%)

HAULING

	32,366	CY Hauled to Landfill to Date
	1,297.00	Loads Hauled to Landfill to Date

ADD MIXTURE

	3,333.00	TN Add Mixture in PO
	2,794.09	TN Used to Date
	538.92	TN Available in PO
	83.83%	Percent used to Date

TO DATE PORTLAND USAGE

NE Plant Scale	2,875,800.00	LBS
	1,437.90	TN
NW Plant Scale	2,712,370.00	LBS
	1,356.19	TN
TOTAL TO DATE	5,588,170.00	LBS
	2,794.09	TN

Cubic Yards Mixed	42,007.81	CY
Portland Used	2,794.09	TN
Avg Lbs/CY Used	133.03	LBS/CY
Avg Percent Portland/CY to Date	5.18	%

		Projected
		(Amount Remaining in Current Tons Setup - Amount Required)
		Over (+) (Projected Surplus)
		Under (-) (Projected Shortfall)
Cubic Yards Remaining to be mixed:	10,083.20	CY
Remaining Portland Available in PO:	538.92	TN
Remaining Portland Req'd at 5%:	647.85	TN -108.93
Remaining Portland Req'd at 6%:	777.41	TN -238.50

DTE Unit 6 Scrubber Basins Land Improvement - CCR Removal

Date:	Area:	Mixed (CY):	To Date Mixed ALL Quadrants (CY):	Total Portland Delivered to Site ALL Quadrants (LBS):	Total Portland Delivered to Site ALL Quadrants (TN):	Total Portland Delivered to Site Daily (TN):	To Date Portland Plant Scale ALL Quadrants (LBS):	To Date Portland Plant Scale ALL Quadrants (TN):	Removal Area:	Loads Removed (EA):	CY Removed (CY):	To Date Loads Removed (EA):	To Date CY Removed (EA):
6/15/2018	NE Quadrant	1,244.74	1,244.74	251,660.00	125.83	125.83	160,800.00	80.40		0	0	0	-
6/16/2018		-	1,244.74				160,800.00	80.40		0	0	0	-
6/17/2018		-	1,244.74				160,800.00	80.40		0	0	0	-
6/18/2018	NE Quadrant	1,112.92	2,357.66	412,320.00	206.16	80.33	305,600.00	152.80		0	0	0	-
6/19/2018	NE Quadrant	1,192.69	3,550.35	572,620.00	286.31	80.15	459,340.00	229.67		0	0	0	-
6/20/2018	NE Quadrant	1,088.88	4,639.23	733,220.00	366.61	80.30	601,430.00	300.72		0	0	0	-
6/21/2018	NE Quadrant	1,176.19	5,815.42	893,240.00	446.62	80.01	757,960.00	378.98		0	0	0	-
6/22/2018	NE Quadrant	708.73	6,524.15	1,000,600.00	500.30	53.68	848,610.00	424.31		0	0	0	-
6/23/2018		-	6,524.15				848,610.00	424.31		0	0	0	-
6/24/2018		-	6,524.15				848,610.00	424.31		0	0	0	-
6/25/2018	NE Quadrant	1,410.34	7,934.49	1,098,780.00	549.39	49.09	1,032,810.00	516.41		0	0	0	-
6/26/2018	NE Quadrant	1,115.75	9,050.24	1,246,900.00	623.45	74.06	1,196,680.00	598.34		0	0	0	-
6/27/2018	NE Quadrant	1,047.60	10,097.84	1,447,580.00	723.79	100.34	1,343,470.00	671.74		-	-	-	-
6/28/2018	NE Quadrant	948.96	11,046.80	1,594,960.00	797.48	73.69	1,495,940.00	747.97		-	-	-	-
6/29/2018	NE Quadrant	1,183.15	12,229.95	1,742,060.00	871.03	73.55	1,681,110.00	840.56		-	-	-	-
6/30/2018		-	12,229.95				1,681,110.00	840.56		-	-	-	-
7/1/2018		-	12,229.95				1,681,110.00	840.56		-	-	-	-
7/2/2018	NE Quadrant	1,222.27	13,452.22	1,988,100.00	994.05	123.02	1,870,410.00	935.21	NE Quadrant	59.00	1,416.00	59.00	1,416.00
7/3/2018	NE Quadrant	1,248.77	14,700.99	2,135,000.00	1,067.50	73.45	2,063,600.00	1,031.80	NE Quadrant	78.00	1,950.00	137.00	3,366.00
7/4/2018		-	14,700.99				2,063,600.00	1,031.80		-	-	137.00	3,366.00
7/5/2018	NE Quadrant	1,410.23	16,111.22	2,382,220.00	1,191.11	123.61	2,245,610.00	1,122.81	NE Quadrant	86.00	2,150.00	223.00	5,516.00
7/6/2018	NE Quadrant	1,283.07	17,394.29	2,530,560.00	1,265.28	197.78	2,411,400.00	1,205.70	NE Quadrant	68.00	1,700.00	291.00	7,216.00
7/7/2018		-	17,394.29				2,411,400.00	1,205.70		-	-	291.00	7,216.00
7/8/2018		-	17,394.29				2,411,400.00	1,205.70		-	-	291.00	7,216.00
7/9/2018	NE Quadrant	1,323.14	18,717.43	2,675,340.00	1,337.67	72.39	2,582,120.00	1,291.06	NE Quadrant	104.00	2,600.00	395.00	9,816.00
7/10/2018	NE Quadrant	1,392.31	20,109.74	2,874,680.00	1,437.34	99.67	2,767,590.00	1,383.80	NE Quadrant	102.00	2,550.00	497.00	12,366.00
7/11/2018	NE Quadrant	712.09	20,821.83	2,971,200.00	1,485.60	48.26	2,859,640.00	1,429.82	NE Quadrant	103.00	2,575.00	600.00	14,941.00
7/12/2018	NE Quadrant	117.37	20,939.20	3,020,020.00	1,510.01	24.41	2,875,800.00	1,437.90	NE Quadrant	98.00	2,450.00	698.00	17,391.00
7/12/2018	NW Quadrant	948.74	21,887.94	3,261,900.00	1,630.95	120.94	2,996,580.00	1,498.29		-	-	698.00	17,391.00
7/13/2018	NW Quadrant	1,012.46	22,900.40	3,406,820.00	1,703.41	72.46	3,128,210.00	1,564.11	NE Quadrant	105.00	2,625.00	803.00	20,016.00
7/14/2018		-	22,900.40				3,128,210.00	1,564.11		-	-	803.00	20,016.00
7/15/2018		-	22,900.40				3,128,210.00	1,564.11		-	-	803.00	20,016.00
7/16/2018	NW Quadrant	944.03	23,844.43	3,503,600.00	1,751.80	48.39	3,249,470.00	1,624.74	NE Quadrant	92.00	2,300.00	895.00	22,316.00
7/17/2018	NW Quadrant	1,399.47	25,243.90	3,649,040.00	1,824.52	72.72	3,429,580.00	1,714.79	NE Quadrant	96.00	2,400.00	991.00	24,716.00
7/18/2018	NW Quadrant	1,617.70	26,861.60	3,800,460.00	1,900.23	75.71	3,637,830.00	1,818.92	NE Quadrant	109.00	2,725.00	1,100.00	27,441.00
7/19/2018	NW Quadrant	1,210.15	28,071.75	4,048,140.00	2,024.07	123.84	3,793,630.00	1,896.82	NE Quadrant	84.00	2,100.00	1,184.00	29,541.00
7/20/2018	NW Quadrant	1,617.47	29,689.22	4,243,680.00	2,121.84	97.77	4,001,820.00	2,000.91	NE Quadrant	41.00	1,025.00	1,225.00	30,566.00
7/23/2018	NW Quadrant	1,488.71	31,177.93	4,441,740.00	2,220.87	99.03	4,193,360.00	2,096.68		-	-	1,225.00	30,566.00
7/24/2018	NW Quadrant	1,388.89	32,566.82	4,587,880.00	2,293.94	73.07	4,372,100.00	2,186.05		-	-	1,225.00	30,566.00
7/25/2018	NW Quadrant	1,534.85	34,101.67	4,782,900.00	2,391.45	97.51	4,569,630.00	2,284.82		-	-	1,225.00	30,566.00
7/26/2018	NW Quadrant	1,514.81	35,616.48	4,979,840.00	2,489.92	98.47	4,764,600.00	2,382.30		-	-	1,225.00	30,566.00
7/27/2018	NW Quadrant	1,461.97	37,078.45	5,178,320.00	2,589.16	99.24	4,952,800.00	2,476.40		-	-	1,225.00	30,566.00
7/30/2018	NW Quadrant	1,565.70	38,644.15	5,373,020.00	2,686.51	97.35	5,154,240.00	2,577.12		-	-	1,225.00	30,566.00
7/31/2018	NW Quadrant	1,752.55	40,396.70	5,621,440.00	2,810.72	124.21	5,379,800.00	2,689.90	NW Quadrant	72.00	1,800.00	1,297.00	32,366.00
8/1/2018	NW Quadrant	1,611.11	42,007.81	5,816,330.00	2,908.17	97.45	5,588,170.00	2,794.09		-	-	1,297.00	32,366.00
8/2/2018	NW Quadrant	1,686.27	43,694.08	6,065,810.00	3,032.91	124.74	5,805,490.00	2,902.75	NW Quadrant	93.00	2,325.00	1,390.00	34,691.00

Denotes Final Mixing on NE Quadrant

Through: 8/2/2018

MIXING		Percent of P.O.	PORTLAND PERCENTAGES	
	52,091	CY Mix and Haul Set up in PO	100%	LBS/CY @ 5% 128.5
	43,694.08	CY Mixed to Date	84%	LBS/CY @ 6% 154.2
	8,396.93	CY Remaining to be mixed	16%	(25.7 lbs/%)

HAULING		
	34,691	CY Hauled to Landfill to Date
	1,390.00	Loads Hauled to Landfill to Date

ADD MIXTURE			TO DATE PORTLAND USAGE	
	3,333.00	TN Add Mixture in PO	NE Plant Scale	2,875,800.00 LBS
	2,902.75	TN Used to Date		1,437.90 TN
	430.26	TN Available in PO	NW Plant Scale	2,929,690.00 LBS
	87.09%	Percent used to Date		1,464.85 TN
			TOTAL TO DATE	5,805,490.00 LBS
				2,902.75 TN

Cubic Yards Mixed	43,694.08	CY
Portland Used	2,902.75	TN
Avg Lbs/CY Used	132.87	LBS/CY
Avg Percent Portland/CY to Date	5.17	%

		Projected	
		(Amount Remaining in Current Tons Setup - Amount Required)	
		Over (+) (Projected Surplus)	
		Under (-) (Projected Shortfall)	
Cubic Yards Remaining to be mixed:	8,396.93	CY	
Remaining Portland Available in PO:	430.26	TN	
Remaining Portland Req'd at 5%:	539.50	TN	-109.25
Remaining Portland Req'd at 6%:	647.40	TN	-217.15

DTE Unit 6 Scrubber Basins Land Improvement - CCR Removal

Date:	Area:	Mixed (CY):	To Date Mixed ALL Quadrants (CY):	Total Portland Delivered to Site ALL Quadrants (LBS):	Total Portland Delivered to Site ALL Quadrants (TN):	Total Portland Delivered to Site Daily (TN):	To Date Portland Plant Scale ALL Quadrants (LBS):	To Date Portland Plant Scale ALL Quadrants (TN):	Removal Area:	Loads Removed (EA):	CY Removed (CY):	To Date Loads Removed (EA):	To Date CY Removed (EA):
6/15/2018	NE Quadrant	1,244.74	1,244.74	251,660.00	125.83	125.83	160,800.00	80.40		0	0	0	-
6/16/2018		-	1,244.74				160,800.00	80.40		0	0	0	-
6/17/2018		-	1,244.74				160,800.00	80.40		0	0	0	-
6/18/2018	NE Quadrant	1,112.92	2,357.66	412,320.00	206.16	80.33	305,600.00	152.80		0	0	0	-
6/19/2018	NE Quadrant	1,192.69	3,550.35	572,620.00	286.31	80.15	459,340.00	229.67		0	0	0	-
6/20/2018	NE Quadrant	1,088.88	4,639.23	733,220.00	366.61	80.30	601,430.00	300.72		0	0	0	-
6/21/2018	NE Quadrant	1,176.19	5,815.42	893,240.00	446.62	80.01	757,960.00	378.98		0	0	0	-
6/22/2018	NE Quadrant	708.73	6,524.15	1,000,600.00	500.30	53.68	848,610.00	424.31		0	0	0	-
6/23/2018		-	6,524.15				848,610.00	424.31		0	0	0	-
6/24/2018		-	6,524.15				848,610.00	424.31		0	0	0	-
6/25/2018	NE Quadrant	1,410.34	7,934.49	1,098,780.00	549.39	49.09	1,032,810.00	516.41		0	0	0	-
6/26/2018	NE Quadrant	1,115.75	9,050.24	1,246,900.00	623.45	74.06	1,196,680.00	598.34		0	0	0	-
6/27/2018	NE Quadrant	1,047.60	10,097.84	1,447,580.00	723.79	100.34	1,343,470.00	671.74		-	-	-	-
6/28/2018	NE Quadrant	948.96	11,046.80	1,594,960.00	797.48	73.69	1,495,940.00	747.97		-	-	-	-
6/29/2018	NE Quadrant	1,183.15	12,229.95	1,742,060.00	871.03	73.55	1,681,110.00	840.56		-	-	-	-
6/30/2018		-	12,229.95				1,681,110.00	840.56		-	-	-	-
7/1/2018		-	12,229.95				1,681,110.00	840.56		-	-	-	-
7/2/2018	NE Quadrant	1,222.27	13,452.22	1,988,100.00	994.05	123.02	1,870,410.00	935.21	NE Quadrant	59.00	1,416.00	59.00	1,416.00
7/3/2018	NE Quadrant	1,248.77	14,700.99	2,135,000.00	1,067.50	73.45	2,063,600.00	1,031.80	NE Quadrant	78.00	1,950.00	137.00	3,366.00
7/4/2018		-	14,700.99				2,063,600.00	1,031.80		-	-	137.00	3,366.00
7/5/2018	NE Quadrant	1,410.23	16,111.22	2,382,220.00	1,191.11	123.61	2,245,610.00	1,122.81	NE Quadrant	86.00	2,150.00	223.00	5,516.00
7/6/2018	NE Quadrant	1,283.07	17,394.29	2,530,560.00	1,265.28	197.78	2,411,400.00	1,205.70	NE Quadrant	68.00	1,700.00	291.00	7,216.00
7/7/2018		-	17,394.29				2,411,400.00	1,205.70		-	-	291.00	7,216.00
7/8/2018		-	17,394.29				2,411,400.00	1,205.70		-	-	291.00	7,216.00
7/9/2018	NE Quadrant	1,323.14	18,717.43	2,675,340.00	1,337.67	72.39	2,582,120.00	1,291.06	NE Quadrant	104.00	2,600.00	395.00	9,816.00
7/10/2018	NE Quadrant	1,392.31	20,109.74	2,874,680.00	1,437.34	99.67	2,767,590.00	1,383.80	NE Quadrant	102.00	2,550.00	497.00	12,366.00
7/11/2018	NE Quadrant	712.09	20,821.83	2,971,200.00	1,485.60	48.26	2,859,640.00	1,429.82	NE Quadrant	103.00	2,575.00	600.00	14,941.00
7/12/2018	NE Quadrant	117.37	20,939.20	3,020,020.00	1,510.01	24.41	2,875,800.00	1,437.90	NE Quadrant	98.00	2,450.00	698.00	17,391.00
7/12/2018	NW Quadrant	948.74	21,887.94	3,261,900.00	1,630.95	120.94	2,996,580.00	1,498.29		-	-	698.00	17,391.00
7/13/2018	NW Quadrant	1,012.46	22,900.40	3,406,820.00	1,703.41	72.46	3,128,210.00	1,564.11	NE Quadrant	105.00	2,625.00	803.00	20,016.00
7/14/2018		-	22,900.40				3,128,210.00	1,564.11		-	-	803.00	20,016.00
7/15/2018		-	22,900.40				3,128,210.00	1,564.11		-	-	803.00	20,016.00
7/16/2018	NW Quadrant	944.03	23,844.43	3,503,600.00	1,751.80	48.39	3,249,470.00	1,624.74	NE Quadrant	92.00	2,300.00	895.00	22,316.00
7/17/2018	NW Quadrant	1,399.47	25,243.90	3,649,040.00	1,824.52	72.72	3,429,580.00	1,714.79	NE Quadrant	96.00	2,400.00	991.00	24,716.00
7/18/2018	NW Quadrant	1,617.70	26,861.60	3,800,460.00	1,900.23	75.71	3,637,830.00	1,818.92	NE Quadrant	109.00	2,725.00	1,100.00	27,441.00
7/19/2018	NW Quadrant	1,210.15	28,071.75	4,048,140.00	2,024.07	123.84	3,793,630.00	1,896.82	NE Quadrant	84.00	2,100.00	1,184.00	29,541.00
7/20/2018	NW Quadrant	1,617.47	29,689.22	4,243,680.00	2,121.84	97.77	4,001,820.00	2,000.91	NE Quadrant	41.00	1,025.00	1,225.00	30,566.00
7/23/2018	NW Quadrant	1,488.71	31,177.93	4,441,740.00	2,220.87	99.03	4,193,360.00	2,096.68		-	-	1,225.00	30,566.00
7/24/2018	NW Quadrant	1,388.89	32,566.82	4,587,880.00	2,293.94	73.07	4,372,100.00	2,186.05		-	-	1,225.00	30,566.00
7/25/2018	NW Quadrant	1,534.85	34,101.67	4,782,900.00	2,391.45	97.51	4,569,630.00	2,284.82		-	-	1,225.00	30,566.00
7/26/2018	NW Quadrant	1,514.81	35,616.48	4,979,840.00	2,489.92	98.47	4,764,600.00	2,382.30		-	-	1,225.00	30,566.00
7/27/2018	NW Quadrant	1,461.97	37,078.45	5,178,320.00	2,589.16	99.24	4,952,800.00	2,476.40		-	-	1,225.00	30,566.00
7/30/2018	NW Quadrant	1,565.70	38,644.15	5,373,020.00	2,686.51	97.35	5,154,240.00	2,577.12		-	-	1,225.00	30,566.00
7/31/2018	NW Quadrant	1,752.55	40,396.70	5,621,440.00	2,810.72	124.21	5,379,800.00	2,689.90	NW Quadrant	72.00	1,800.00	1,297.00	32,366.00
8/1/2018	NW Quadrant	1,611.11	42,007.81	5,816,330.00	2,908.17	97.45	5,588,170.00	2,794.09		-	-	1,297.00	32,366.00
8/2/2018	NW Quadrant	1,686.27	43,694.08	6,065,810.00	3,032.91	124.74	5,805,490.00	2,902.75	NW Quadrant	93.00	2,325.00	1,390.00	34,691.00
8/3/2018	NW Quadrant	1,022.30	44,716.38	6,114,590.00	3,057.30	24.39	5,970,370.00	2,985.19	NW Quadrant	98.00	2,450.00	1,488.00	37,141.00

Denotes Final Mixing on NE Quadrant

Through: 8/3/2018

		Percent	PORTLAND PERCENTAGES	
MIXING		of P.O.		
52,091	CY Mix and Haul Set up in PO	100%	LBS/CY @ 5%	128.5
44,716.38	CY Mixed to Date	86%	LBS/CY @ 6%	154.2
7,374.63	CY Remaining to be mixed	14%	(25.7 lbs/%)	

HAULING

37,141	CY Hauled to Landfill to Date
1,488.00	Loads Hauled to Landfill to Date

ADD MIXTURE		TO DATE PORTLAND USAGE	
3,333.00	TN Add Mixture in PO	NE Plant Scale	2,875,800.00 LBS
2,985.19	TN Used to Date		1,437.90 TN
347.82	TN Available in PO	NW Plant Scale	3,094,570.00 LBS
89.56%	Percent used to Date		1,547.29 TN
		TOTAL TO DATE	5,970,370.00 LBS
			2,985.19 TN

Cubic Yards Mixed 44,716.38 CY
 Portland Used 2,985.19 TN
 Avg Lbs/CY Used 133.52 LBS/CY
 Avg Percent Portland/CY to Date 5.20 %

		Projected
		(Amount Remaining in Current Tons Setup - Amount Required)
		Over (+) (Projected Surplus)
		Under (-) (Projected Shortfall)
Cubic Yards Remaining to be mixed:	7,374.63 CY	
Remaining Portland Available in PO:	347.82 TN	
Remaining Portland Req'd at 5%:	473.82 TN	-126.00
Remaining Portland Req'd at 6%:	568.58 TN	-220.77

DTE Unit 6 Scrubber Basins Land Improvement - CCR Removal

Date:	Area:	Mixed (CY):	To Date Mixed ALL Quadrants (CY):	Total Portland Delivered to Site ALL Quadrants (LBS):	Total Portland Delivered to Site ALL Quadrants (TN):	Total Portland Delivered to Site Daily (TN):	To Date Portland Plant Scale ALL Quadrants (LBS):	To Date Portland Plant Scale ALL Quadrants (TN):	Removal Area:	Loads Removed (EA):	CY Removed (CY):	To Date Loads Removed (EA):	To Date CY Removed (EA):
6/15/2018	NE Quadrant	1,244.74	1,244.74	251,660.00	125.83	125.83	160,800.00	80.40		0	0	0	-
6/16/2018		-	1,244.74				160,800.00	80.40		0	0	0	-
6/17/2018		-	1,244.74				160,800.00	80.40		0	0	0	-
6/18/2018	NE Quadrant	1,112.92	2,357.66	412,320.00	206.16	80.33	305,600.00	152.80		0	0	0	-
6/19/2018	NE Quadrant	1,192.69	3,550.35	572,620.00	286.31	80.15	459,340.00	229.67		0	0	0	-
6/20/2018	NE Quadrant	1,088.88	4,639.23	733,220.00	366.61	80.30	601,430.00	300.72		0	0	0	-
6/21/2018	NE Quadrant	1,176.19	5,815.42	893,240.00	446.62	80.01	757,960.00	378.98		0	0	0	-
6/22/2018	NE Quadrant	708.73	6,524.15	1,000,600.00	500.30	53.68	848,610.00	424.31		0	0	0	-
6/23/2018		-	6,524.15				848,610.00	424.31		0	0	0	-
6/24/2018		-	6,524.15				848,610.00	424.31		0	0	0	-
6/25/2018	NE Quadrant	1,410.34	7,934.49	1,098,780.00	549.39	49.09	1,032,810.00	516.41		0	0	0	-
6/26/2018	NE Quadrant	1,115.75	9,050.24	1,246,900.00	623.45	74.06	1,196,680.00	598.34		0	0	0	-
6/27/2018	NE Quadrant	1,047.60	10,097.84	1,447,580.00	723.79	100.34	1,343,470.00	671.74		-	-	-	-
6/28/2018	NE Quadrant	948.96	11,046.80	1,594,960.00	797.48	73.69	1,495,940.00	747.97		-	-	-	-
6/29/2018	NE Quadrant	1,183.15	12,229.95	1,742,060.00	871.03	73.55	1,681,110.00	840.56		-	-	-	-
6/30/2018		-	12,229.95				1,681,110.00	840.56		-	-	-	-
7/1/2018		-	12,229.95				1,681,110.00	840.56		-	-	-	-
7/2/2018	NE Quadrant	1,222.27	13,452.22	1,988,100.00	994.05	123.02	1,870,410.00	935.21	NE Quadrant	59.00	1,416.00	59.00	1,416.00
7/3/2018	NE Quadrant	1,248.77	14,700.99	2,135,000.00	1,067.50	73.45	2,063,600.00	1,031.80	NE Quadrant	78.00	1,950.00	137.00	3,366.00
7/4/2018		-	14,700.99				2,063,600.00	1,031.80		-	-	137.00	3,366.00
7/5/2018	NE Quadrant	1,410.23	16,111.22	2,382,220.00	1,191.11	123.61	2,245,610.00	1,122.81	NE Quadrant	86.00	2,150.00	223.00	5,516.00
7/6/2018	NE Quadrant	1,283.07	17,394.29	2,530,560.00	1,265.28	197.78	2,411,400.00	1,205.70	NE Quadrant	68.00	1,700.00	291.00	7,216.00
7/7/2018		-	17,394.29				2,411,400.00	1,205.70		-	-	291.00	7,216.00
7/8/2018		-	17,394.29				2,411,400.00	1,205.70		-	-	291.00	7,216.00
7/9/2018	NE Quadrant	1,323.14	18,717.43	2,675,340.00	1,337.67	72.39	2,582,120.00	1,291.06	NE Quadrant	104.00	2,600.00	395.00	9,816.00
7/10/2018	NE Quadrant	1,392.31	20,109.74	2,874,680.00	1,437.34	99.67	2,767,590.00	1,383.80	NE Quadrant	102.00	2,550.00	497.00	12,366.00
7/11/2018	NE Quadrant	712.09	20,821.83	2,971,200.00	1,485.60	48.26	2,859,640.00	1,429.82	NE Quadrant	103.00	2,575.00	600.00	14,941.00
7/12/2018	NE Quadrant	117.37	20,939.20	3,020,020.00	1,510.01	24.41	2,875,800.00	1,437.90	NE Quadrant	98.00	2,450.00	698.00	17,391.00
7/12/2018	NW Quadrant	948.74	21,887.94	3,261,900.00	1,630.95	120.94	2,996,580.00	1,498.29		-	-	698.00	17,391.00
7/13/2018	NW Quadrant	1,012.46	22,900.40	3,406,820.00	1,703.41	72.46	3,128,210.00	1,564.11	NE Quadrant	105.00	2,625.00	803.00	20,016.00
7/14/2018		-	22,900.40				3,128,210.00	1,564.11		-	-	803.00	20,016.00
7/15/2018		-	22,900.40				3,128,210.00	1,564.11		-	-	803.00	20,016.00
7/16/2018	NW Quadrant	944.03	23,844.43	3,503,600.00	1,751.80	48.39	3,249,470.00	1,624.74	NE Quadrant	92.00	2,300.00	895.00	22,316.00
7/17/2018	NW Quadrant	1,399.47	25,243.90	3,649,040.00	1,824.52	72.72	3,429,580.00	1,714.79	NE Quadrant	96.00	2,400.00	991.00	24,716.00
7/18/2018	NW Quadrant	1,617.70	26,861.60	3,800,460.00	1,900.23	75.71	3,637,830.00	1,818.92	NE Quadrant	109.00	2,725.00	1,100.00	27,441.00
7/19/2018	NW Quadrant	1,210.15	28,071.75	4,048,140.00	2,024.07	123.84	3,793,630.00	1,896.82	NE Quadrant	84.00	2,100.00	1,184.00	29,541.00
7/20/2018	NW Quadrant	1,617.47	29,689.22	4,243,680.00	2,121.84	97.77	4,001,820.00	2,000.91	NE Quadrant	41.00	1,025.00	1,225.00	30,566.00
7/23/2018	NW Quadrant	1,488.71	31,177.93	4,441,740.00	2,220.87	99.03	4,193,360.00	2,096.68		-	-	1,225.00	30,566.00
7/24/2018	NW Quadrant	1,388.89	32,566.82	4,587,880.00	2,293.94	73.07	4,372,100.00	2,186.05		-	-	1,225.00	30,566.00
7/25/2018	NW Quadrant	1,534.85	34,101.67	4,782,900.00	2,391.45	97.51	4,569,630.00	2,284.82		-	-	1,225.00	30,566.00
7/26/2018	NW Quadrant	1,514.81	35,616.48	4,979,840.00	2,489.92	98.47	4,764,600.00	2,382.30		-	-	1,225.00	30,566.00
7/27/2018	NW Quadrant	1,461.97	37,078.45	5,178,320.00	2,589.16	99.24	4,952,800.00	2,476.40		-	-	1,225.00	30,566.00
7/30/2018	NW Quadrant	1,565.70	38,644.15	5,373,020.00	2,686.51	97.35	5,154,240.00	2,577.12		-	-	1,225.00	30,566.00
7/31/2018	NW Quadrant	1,752.55	40,396.70	5,621,440.00	2,810.72	124.21	5,379,800.00	2,689.90	NW Quadrant	72.00	1,800.00	1,297.00	32,366.00
8/1/2018	NW Quadrant	1,611.11	42,007.81	5,816,330.00	2,908.17	97.45	5,588,170.00	2,794.09		-	-	1,297.00	32,366.00
8/2/2018	NW Quadrant	1,686.27	43,694.08	6,065,810.00	3,032.91	124.74	5,805,490.00	2,902.75	NW Quadrant	93.00	2,325.00	1,390.00	34,691.00
8/3/2018	NW Quadrant	1,022.30	44,716.38	6,114,590.00	3,057.30	24.39	5,970,370.00	2,985.19	NW Quadrant	98.00	2,450.00	1,488.00	37,141.00
8/6/2018	NE Quadrant								NE Quadrant	23.00	575.00	1,511.00	37,716.00
8/6/2018	NW Quadrant								NW Quadrant	24.00	600.00	1,535.00	38,316.00

Denotes Final Mixing on NE Quadrant

Through: 8/6/2018

MIXING		Percent of P.O.	PORTLAND PERCENTAGES	
	52,091	CY Mix and Haul Set up in PO	100%	LBS/CY @ 5% 128.5
	44,716.38	CY Mixed to Date	86%	LBS/CY @ 6% 154.2
	7,374.63	CY Remaining to be mixed	14%	(25.7 lbs/%)

HAULING

	38,316	CY Hauled to Landfill to Date
	1,535.00	Loads Hauled to Landfill to Date

ADD MIXTURE

	3,333.00	TN Add Mixture in PO
	2,985.19	TN Used to Date
	347.82	TN Available in PO
	89.56%	Percent used to Date

TO DATE PORTLAND USAGE

NE Plant Scale	2,875,800.00	LBS
	1,437.90	TN
NW Plant Scale	3,094,570.00	LBS
	1,547.29	TN
TOTAL TO DATE	5,970,370.00	LBS
	2,985.19	TN

Cubic Yards Mixed	44,716.38	CY
Portland Used	2,985.19	TN
Avg Lbs/CY Used	133.52	LBS/CY
Avg Percent Portland/CY to Date	5.20	%

		Projected	
		(Amount Remaining in Current Tons Setup - Amount Required)	
		Over (+) (Projected Surplus)	
		Under (-) (Projected Shortfall)	
Cubic Yards Remaining to be mixed:	7,374.63	CY	
Remaining Portland Available in PO:	347.82	TN	
Remaining Portland Req'd at 5%:	473.82	TN	-126.00
Remaining Portland Req'd at 6%:	568.58	TN	-220.77

DTE Unit 6 Scrubber Basins Land Improvement - CCR Removal

Date:	Area:	Mixed (CY):	To Date Mixed (CY):	Total Portland Delivered to Site (LBS):	Total Portland Delivered to Site (TN):	Total Portland Delivered to Daily (TN):	To Date Portland Plant Scale (LBS):	To Date Portland Plant Scale (TN):	Removal Area:	Loads Removed (EA):	CY Removed (CY):	To Date Loads Removed (EA):	To Date CY Removed (EA):
6/15/2018	NE Quadrant	1,244.74	1,244.74	251,660.00	125.83	125.83	160,800.00	80.40		0	0	0	-
6/16/2018		-	1,244.74				160,800.00	80.40		0	0	0	-
6/17/2018		-	1,244.74				160,800.00	80.40		0	0	0	-
6/18/2018	NE Quadrant	1,112.92	2,357.66	412,320.00	206.16	80.33	305,600.00	152.80		0	0	0	-
6/19/2018	NE Quadrant	1,192.69	3,550.35	572,620.00	286.31	80.15	459,340.00	229.67		0	0	0	-
6/20/2018	NE Quadrant	1,088.88	4,639.23	733,220.00	366.61	80.30	601,430.00	300.72		0	0	0	-
6/21/2018	NE Quadrant	1,176.19	5,815.42	893,240.00	446.62	80.01	757,960.00	378.98		0	0	0	-
6/22/2018	NE Quadrant	708.73	6,524.15	1,000,600.00	500.30	53.68	848,610.00	424.31		0	0	0	-
6/23/2018		-	6,524.15				848,610.00	424.31		0	0	0	-
6/24/2018		-	6,524.15				848,610.00	424.31		0	0	0	-
6/25/2018	NE Quadrant	1,410.34	7,934.49	1,098,780.00	549.39	49.09	1,032,810.00	516.41		0	0	0	-
6/26/2018	NE Quadrant	1,115.75	9,050.24	1,246,900.00	623.45	74.06	1,196,680.00	598.34		0	0	0	-
6/27/2018	NE Quadrant	1,047.60	10,097.84	1,447,580.00	723.79	100.34	1,343,470.00	671.74		-	-	-	-
6/28/2018	NE Quadrant	948.96	11,046.80	1,594,960.00	797.48	73.69	1,495,940.00	747.97		-	-	-	-
6/29/2018	NE Quadrant	1,183.15	12,229.95	1,742,060.00	871.03	73.55	1,681,110.00	840.56		-	-	-	-
6/30/2018		-	12,229.95				1,681,110.00	840.56		-	-	-	-
7/1/2018		-	12,229.95				1,681,110.00	840.56		-	-	-	-
7/2/2018	NE Quadrant	1,222.27	13,452.22	1,988,100.00	994.05	123.02	1,870,410.00	935.21	NE Quadrant	59.00	1,416.00	59.00	1,416.00
7/3/2018	NE Quadrant	1,248.77	14,700.99	2,135,000.00	1,067.50	73.45	2,063,600.00	1,031.80	NE Quadrant	78.00	1,950.00	137.00	3,366.00
7/4/2018		-	14,700.99				2,063,600.00	1,031.80		-	-	137.00	3,366.00
7/5/2018	NE Quadrant	1,410.23	16,111.22	2,382,220.00	1,191.11	123.61	2,245,610.00	1,122.81	NE Quadrant	86.00	2,150.00	223.00	5,516.00
7/6/2018	NE Quadrant	1,283.07	17,394.29	2,530,560.00	1,265.28	197.78	2,411,400.00	1,205.70	NE Quadrant	68.00	1,700.00	291.00	7,216.00
7/7/2018		-	17,394.29				2,411,400.00	1,205.70		-	-	291.00	7,216.00
7/8/2018		-	17,394.29				2,411,400.00	1,205.70		-	-	291.00	7,216.00
7/9/2018	NE Quadrant	1,323.14	18,717.43	2,675,340.00	1,337.67	72.39	2,582,120.00	1,291.06	NE Quadrant	104.00	2,600.00	395.00	9,816.00
7/10/2018	NE Quadrant	1,392.31	20,109.74	2,874,680.00	1,437.34	99.67	2,767,590.00	1,383.80	NE Quadrant	102.00	2,550.00	497.00	12,366.00
7/11/2018	NE Quadrant	712.09	20,821.83	2,971,200.00	1,485.60	48.26	2,859,640.00	1,429.82	NE Quadrant	103.00	2,575.00	600.00	14,941.00
7/12/2018	NE Quadrant	117.37	20,939.20	3,020,020.00	1,510.01	24.41	2,875,800.00	1,437.90	NE Quadrant	98.00	2,450.00	698.00	17,391.00
7/12/2018	NW Quadrant	948.74	21,887.94	3,261,900.00	1,630.95	120.94	2,996,580.00	1,498.29		-	-	698.00	17,391.00
7/13/2018	NW Quadrant	1,012.46	22,900.40	3,406,820.00	1,703.41	72.46	3,128,210.00	1,564.11	NE Quadrant	105.00	2,625.00	803.00	20,016.00
7/14/2018		-	22,900.40				3,128,210.00	1,564.11		-	-	803.00	20,016.00
7/15/2018		-	22,900.40				3,128,210.00	1,564.11		-	-	803.00	20,016.00
7/16/2018	NW Quadrant	944.03	23,844.43	3,503,600.00	1,751.80	48.39	3,249,470.00	1,624.74	NE Quadrant	92.00	2,300.00	895.00	22,316.00
7/17/2018	NW Quadrant	1,399.47	25,243.90	3,649,040.00	1,824.52	72.72	3,429,580.00	1,714.79	NE Quadrant	96.00	2,400.00	991.00	24,716.00
7/18/2018	NW Quadrant	1,617.70	26,861.60	3,800,460.00	1,900.23	75.71	3,637,830.00	1,818.92	NE Quadrant	109.00	2,725.00	1,100.00	27,441.00
7/19/2018	NW Quadrant	1,210.15	28,071.75	4,048,140.00	2,024.07	123.84	3,793,630.00	1,896.82	NE Quadrant	84.00	2,100.00	1,184.00	29,541.00
7/20/2018	NW Quadrant	1,617.47	29,689.22	4,243,680.00	2,121.84	97.77	4,001,820.00	2,000.91	NE Quadrant	41.00	1,025.00	1,225.00	30,566.00
7/23/2018	NW Quadrant	1,488.71	31,177.93	4,441,740.00	2,220.87	99.03	4,193,360.00	2,096.68		-	-	1,225.00	30,566.00
7/24/2018	NW Quadrant	1,388.89	32,566.82	4,587,880.00	2,293.94	73.07	4,372,100.00	2,186.05		-	-	1,225.00	30,566.00
7/25/2018	NW Quadrant	1,534.85	34,101.67	4,782,900.00	2,391.45	97.51	4,569,630.00	2,284.82		-	-	1,225.00	30,566.00
7/26/2018	NW Quadrant	1,514.81	35,616.48	4,979,840.00	2,489.92	98.47	4,764,600.00	2,382.30		-	-	1,225.00	30,566.00
7/27/2018	NW Quadrant	1,461.97	37,078.45	5,178,320.00	2,589.16	99.24	4,952,800.00	2,476.40		-	-	1,225.00	30,566.00
7/30/2018	NW Quadrant	1,565.70	38,644.15	5,373,020.00	2,686.51	97.35	5,154,240.00	2,577.12		-	-	1,225.00	30,566.00
7/31/2018	NW Quadrant	1,752.55	40,396.70	5,621,440.00	2,810.72	124.21	5,379,800.00	2,689.90	NW Quadrant	72.00	1,800.00	1,297.00	32,366.00
8/1/2018	NW Quadrant	1,611.11	42,007.81	5,816,330.00	2,908.17	97.45	5,588,170.00	2,794.09		-	-	1,297.00	32,366.00
8/2/2018	NW Quadrant	1,686.27	43,694.08	6,065,810.00	3,032.91	124.74	5,805,490.00	2,902.75	NW Quadrant	93.00	2,325.00	1,390.00	34,691.00
8/3/2018	NW Quadrant	1,022.30	44,716.38	6,114,590.00	3,057.30	24.39	5,937,120.00	2,968.56	NW Quadrant	98.00	2,450.00	1,488.00	37,141.00
8/6/2018	NE Quadrant								NE Quadrant	23.00	575.00	1,511.00	37,716.00
8/6/2018	NW Quadrant								NW Quadrant	24.00	600.00	1,535.00	38,316.00
8/7/2018	NE Quadrant								NE Quadrant	7.00	175.00	1,542.00	38,491.00
8/7/2018	NW Quadrant	1,699.42	46,415.80	6,366,770.00	3,183.39	126.09	6,112,150.00	3,056.08	NW Quadrant	96.00	2,400.00	1,638.00	40,891.00

Denotes Final Mixing on NE Quadrant

Through: 8/7/2018

MIXING		Percent of P.O.	PORTLAND PERCENTAGES	
	52,091	CY Mix and Haul Set up in PO	100%	LBS/CY @ 5% 128.5
	46,415.80	CY Mixed to Date	89%	LBS/CY @ 6% 154.2
	5,675.21	CY Remaining to be mixed	11%	(25.7 lbs/%)

HAULING

	40,891	CY Hauled to Landfill to Date
	1,638.00	Loads Hauled to Landfill to Date

ADD MIXTURE			TO DATE PORTLAND USAGE
	3,333.00	TN Add Mixture in PO	NE Plant Scale 2,875,800.00 LBS
	3,056.08	TN Used to Date	1,437.90 TN
	276.93	TN Available in PO	NW Plant Scale 3,236,350.00 LBS
	91.69%	Percent used to Date	1,618.18 TN
			TOTAL TO DATE 6,112,150.00 LBS
			3,056.08 TN

Cubic Yards Mixed	46,415.80	CY
Portland Used	3,056.08	TN
Avg Lbs/CY Used	131.68	LBS/CY
Avg Percent Portland/CY to Date	5.12	%

		Projected (Amount Remaining in Current Tons Setup - Amount Required)
		Over (+) (Projected Surplus)
		Under (-) (Projected Shortfall)
Cubic Yards Remaining to be mixed:	5,675.21	CY
Remaining Portland Available in PO:	276.93	TN
Remaining Portland Req'd at 5%:	364.63	TN -87.71
Remaining Portland Req'd at 6%:	437.56	TN -160.63

DTE Unit 6 Scrubber Basins Land Improvement - CCR Removal

Date:	Area:	Mixed (CY):	To Date Mixed ALL Quadrants (CY):	Total Portland Delivered to Site ALL Quadrants (LBS):	Total Portland Delivered to Site ALL Quadrants (TN):	Total Portland Delivered to Site Daily (TN):	To Date Portland Plant Scale ALL Quadrants (LBS):	To Date Portland Plant Scale ALL Quadrants (TN):	Removal Area:	Loads Removed (EA):	CY Removed (CY):	To Date Loads Removed (EA):	To Date CY Removed (EA):
6/15/2018	NE Quadrant	1,244.74	1,244.74	251,660.00	125.83	125.83	160,800.00	80.40		0	0	0	-
6/16/2018		-	1,244.74				160,800.00	80.40		0	0	0	-
6/17/2018		-	1,244.74				160,800.00	80.40		0	0	0	-
6/18/2018	NE Quadrant	1,112.92	2,357.66	412,320.00	206.16	80.33	305,600.00	152.80		0	0	0	-
6/19/2018	NE Quadrant	1,192.69	3,550.35	572,620.00	286.31	80.15	459,340.00	229.67		0	0	0	-
6/20/2018	NE Quadrant	1,088.88	4,639.23	733,220.00	366.61	80.30	601,430.00	300.72		0	0	0	-
6/21/2018	NE Quadrant	1,176.19	5,815.42	893,240.00	446.62	80.01	757,960.00	378.98		0	0	0	-
6/22/2018	NE Quadrant	708.73	6,524.15	1,000,600.00	500.30	53.68	848,610.00	424.31		0	0	0	-
6/23/2018		-	6,524.15				848,610.00	424.31		0	0	0	-
6/24/2018		-	6,524.15				848,610.00	424.31		0	0	0	-
6/25/2018	NE Quadrant	1,410.34	7,934.49	1,098,780.00	549.39	49.09	1,032,810.00	516.41		0	0	0	-
6/26/2018	NE Quadrant	1,115.75	9,050.24	1,246,900.00	623.45	74.06	1,196,680.00	598.34		0	0	0	-
6/27/2018	NE Quadrant	1,047.60	10,097.84	1,447,580.00	723.79	100.34	1,343,470.00	671.74		-	-	-	-
6/28/2018	NE Quadrant	948.96	11,046.80	1,594,960.00	797.48	73.69	1,495,940.00	747.97		-	-	-	-
6/29/2018	NE Quadrant	1,183.15	12,229.95	1,742,060.00	871.03	73.55	1,681,110.00	840.56		-	-	-	-
6/30/2018		-	12,229.95				1,681,110.00	840.56		-	-	-	-
7/1/2018		-	12,229.95				1,681,110.00	840.56		-	-	-	-
7/2/2018	NE Quadrant	1,222.27	13,452.22	1,988,100.00	994.05	123.02	1,870,410.00	935.21	NE Quadrant	59.00	1,416.00	59.00	1,416.00
7/3/2018	NE Quadrant	1,248.77	14,700.99	2,135,000.00	1,067.50	73.45	2,063,600.00	1,031.80	NE Quadrant	78.00	1,950.00	137.00	3,366.00
7/4/2018		-	14,700.99				2,063,600.00	1,031.80		-	-	137.00	3,366.00
7/5/2018	NE Quadrant	1,410.23	16,111.22	2,382,220.00	1,191.11	123.61	2,245,610.00	1,122.81	NE Quadrant	86.00	2,150.00	223.00	5,516.00
7/6/2018	NE Quadrant	1,283.07	17,394.29	2,530,560.00	1,265.28	197.78	2,411,400.00	1,205.70	NE Quadrant	68.00	1,700.00	291.00	7,216.00
7/7/2018		-	17,394.29				2,411,400.00	1,205.70		-	-	291.00	7,216.00
7/8/2018		-	17,394.29				2,411,400.00	1,205.70		-	-	291.00	7,216.00
7/9/2018	NE Quadrant	1,323.14	18,717.43	2,675,340.00	1,337.67	72.39	2,582,120.00	1,291.06	NE Quadrant	104.00	2,600.00	395.00	9,816.00
7/10/2018	NE Quadrant	1,392.31	20,109.74	2,874,680.00	1,437.34	99.67	2,767,590.00	1,383.80	NE Quadrant	102.00	2,550.00	497.00	12,366.00
7/11/2018	NE Quadrant	712.09	20,821.83	2,971,200.00	1,485.60	48.26	2,859,640.00	1,429.82	NE Quadrant	103.00	2,575.00	600.00	14,941.00
7/12/2018	NE Quadrant	117.37	20,939.20	3,020,020.00	1,510.01	24.41	2,875,800.00	1,437.90	NE Quadrant	98.00	2,450.00	698.00	17,391.00
7/12/2018	NW Quadrant	948.74	21,887.94	3,261,900.00	1,630.95	120.94	2,996,580.00	1,498.29		-	-	698.00	17,391.00
7/13/2018	NW Quadrant	1,012.46	22,900.40	3,406,820.00	1,703.41	72.46	3,128,210.00	1,564.11	NE Quadrant	105.00	2,625.00	803.00	20,016.00
7/14/2018		-	22,900.40				3,128,210.00	1,564.11		-	-	803.00	20,016.00
7/15/2018		-	22,900.40				3,128,210.00	1,564.11		-	-	803.00	20,016.00
7/16/2018	NW Quadrant	944.03	23,844.43	3,503,600.00	1,751.80	48.39	3,249,470.00	1,624.74	NE Quadrant	92.00	2,300.00	895.00	22,316.00
7/17/2018	NW Quadrant	1,399.47	25,243.90	3,649,040.00	1,824.52	72.72	3,429,580.00	1,714.79	NE Quadrant	96.00	2,400.00	991.00	24,716.00
7/18/2018	NW Quadrant	1,617.70	26,861.60	3,800,460.00	1,900.23	75.71	3,637,830.00	1,818.92	NE Quadrant	109.00	2,725.00	1,100.00	27,441.00
7/19/2018	NW Quadrant	1,210.15	28,071.75	4,048,140.00	2,024.07	123.84	3,793,630.00	1,896.82	NE Quadrant	84.00	2,100.00	1,184.00	29,541.00
7/20/2018	NW Quadrant	1,617.47	29,689.22	4,243,680.00	2,121.84	97.77	4,001,820.00	2,000.91	NE Quadrant	41.00	1,025.00	1,225.00	30,566.00
7/23/2018	NW Quadrant	1,488.71	31,177.93	4,441,740.00	2,220.87	99.03	4,193,360.00	2,096.68		-	-	1,225.00	30,566.00
7/24/2018	NW Quadrant	1,388.89	32,566.82	4,587,880.00	2,293.94	73.07	4,372,100.00	2,186.05		-	-	1,225.00	30,566.00
7/25/2018	NW Quadrant	1,534.85	34,101.67	4,782,900.00	2,391.45	97.51	4,569,630.00	2,284.82		-	-	1,225.00	30,566.00
7/26/2018	NW Quadrant	1,514.81	35,616.48	4,979,840.00	2,489.92	98.47	4,764,600.00	2,382.30		-	-	1,225.00	30,566.00
7/27/2018	NW Quadrant	1,461.97	37,078.45	5,178,320.00	2,589.16	99.24	4,952,800.00	2,476.40		-	-	1,225.00	30,566.00
7/30/2018	NW Quadrant	1,565.70	38,644.15	5,373,020.00	2,686.51	97.35	5,154,240.00	2,577.12		-	-	1,225.00	30,566.00
7/31/2018	NW Quadrant	1,752.55	40,396.70	5,621,440.00	2,810.72	124.21	5,379,800.00	2,689.90	NW Quadrant	72.00	1,800.00	1,297.00	32,366.00
8/1/2018	NW Quadrant	1,611.11	42,007.81	5,816,330.00	2,908.17	97.45	5,588,170.00	2,794.09		-	-	1,297.00	32,366.00
8/2/2018	NW Quadrant	1,686.27	43,694.08	6,065,810.00	3,032.91	124.74	5,805,490.00	2,902.75	NW Quadrant	93.00	2,325.00	1,390.00	34,691.00
8/3/2018	NW Quadrant	1,022.30	44,716.38	6,114,590.00	3,057.30	24.39	5,937,120.00	2,968.56	NW Quadrant	98.00	2,450.00	1,488.00	37,141.00
8/6/2018	NE Quadrant								NE Quadrant	23.00	575.00	1,511.00	37,716.00
8/6/2018	NW Quadrant								NW Quadrant	24.00	600.00	1,535.00	38,316.00
8/7/2018	NE Quadrant								NE Quadrant	7.00	175.00	1,542.00	38,491.00
8/7/2018	NW Quadrant	1,699.42	46,415.80	6,366,770.00	3,183.39	126.09	6,112,150.00	3,056.08	NW Quadrant	96.00	2,400.00	1,638.00	40,891.00
8/8/2018	NW Quadrant	727.58	47,143.38	6,470,410.00	3,235.21	51.82	6,187,250.00	3,093.63	NW Quadrant	104.00	2,600.00	1,742.00	43,491.00
8/8/2018	S Quadrants	509.80	47,653.18	6,684,130.00	3,342.07	106.86	6,253,100.00	3,126.55					

Denotes Final Mixing on NE Quadrant

Denotes Final Mixing on NW Quadrant

Through: 8/8/2018

		Percent	PORTLAND PERCENTAGES	
MIXING		of P.O.		
52,091	CY Mix and Haul Set up in PO	100%	LBS/CY @ 5%	128.5
47,143.38	CY Mixed to Date	91%	LBS/CY @ 6%	154.2
4,947.63	CY Remaining to be mixed	9%	(25.7 lbs/%)	

HAULING

43,491	CY Hauled to Landfill to Date
1,742.00	Loads Hauled to Landfill to Date

ADD MIXTURE		TO DATE PORTLAND USAGE	
3,333.00	TN Add Mixture in PO	NE Plant Scale	2,875,800.00 LBS
3,093.63	TN Used to Date		1,437.90 TN
239.38	TN Available in PO	NW Plant Scale	3,311,450.00 LBS
92.82%	Percent used to Date		1,655.73 TN
		TOTAL TO DATE	6,187,250.00 LBS
			3,093.63 TN

Cubic Yards Mixed	47,143.38	CY
Portland Used	3,093.63	TN
Avg Lbs/CY Used	131.24	LBS/CY
Avg Percent Portland/CY to Date	5.11	%

		Projected
		(Amount Remaining in Current Tons Setup - Amount Required)
		Over (+) (Projected Surplus)
		Under (-) (Projected Shortfall)
Cubic Yards Remaining to be mixed:	4,947.63	CY
Remaining Portland Available in PO:	239.38	TN
Remaining Portland Req'd at 5%:	317.88	TN
Remaining Portland Req'd at 6%:	381.46	TN
		-78.51
		-142.09

DTE Unit 6 Scrubber Basins Land Improvement - CCR Removal

Date:	Area:	Mixed (CY):	To Date Mixed ALL Quadrants (CY):	Total Portland Delivered to Site ALL Quadrants (LBS):	Total Portland Delivered to Site ALL Quadrants (TN):	Total Portland Delivered to Site Daily (TN):	To Date Portland Plant Scale ALL Quadrants (LBS):	To Date Portland Plant Scale ALL Quadrants (TN):	Removal Area:	Loads Removed (EA):	CY Removed (CY):	To Date Loads Removed (EA):	To Date CY Removed (EA):
6/15/2018	NE Quadrant	1,244.74	1,244.74	251,660.00	125.83	125.83	160,800.00	80.40		0	0	0	-
6/16/2018		-	1,244.74				160,800.00	80.40		0	0	0	-
6/17/2018		-	1,244.74				160,800.00	80.40		0	0	0	-
6/18/2018	NE Quadrant	1,112.92	2,357.66	412,320.00	206.16	80.33	305,600.00	152.80		0	0	0	-
6/19/2018	NE Quadrant	1,192.69	3,550.35	572,620.00	286.31	80.15	459,340.00	229.67		0	0	0	-
6/20/2018	NE Quadrant	1,088.88	4,639.23	733,220.00	366.61	80.30	601,430.00	300.72		0	0	0	-
6/21/2018	NE Quadrant	1,176.19	5,815.42	893,240.00	446.62	80.01	757,960.00	378.98		0	0	0	-
6/22/2018	NE Quadrant	708.73	6,524.15	1,000,600.00	500.30	53.68	848,610.00	424.31		0	0	0	-
6/23/2018		-	6,524.15				848,610.00	424.31		0	0	0	-
6/24/2018		-	6,524.15				848,610.00	424.31		0	0	0	-
6/25/2018	NE Quadrant	1,410.34	7,934.49	1,098,780.00	549.39	49.09	1,032,810.00	516.41		0	0	0	-
6/26/2018	NE Quadrant	1,115.75	9,050.24	1,246,900.00	623.45	74.06	1,196,680.00	598.34		0	0	0	-
6/27/2018	NE Quadrant	1,047.60	10,097.84	1,447,580.00	723.79	100.34	1,343,470.00	671.74		-	-	-	-
6/28/2018	NE Quadrant	948.96	11,046.80	1,594,960.00	797.48	73.69	1,495,940.00	747.97		-	-	-	-
6/29/2018	NE Quadrant	1,183.15	12,229.95	1,742,060.00	871.03	73.55	1,681,110.00	840.56		-	-	-	-
6/30/2018		-	12,229.95				1,681,110.00	840.56		-	-	-	-
7/1/2018		-	12,229.95				1,681,110.00	840.56		-	-	-	-
7/2/2018	NE Quadrant	1,222.27	13,452.22	1,988,100.00	994.05	123.02	1,870,410.00	935.21	NE Quadrant	59.00	1,416.00	59.00	1,416.00
7/3/2018	NE Quadrant	1,248.77	14,700.99	2,135,000.00	1,067.50	73.45	2,063,600.00	1,031.80	NE Quadrant	78.00	1,950.00	137.00	3,366.00
7/4/2018		-	14,700.99				2,063,600.00	1,031.80		-	-	137.00	3,366.00
7/5/2018	NE Quadrant	1,410.23	16,111.22	2,382,220.00	1,191.11	123.61	2,245,610.00	1,122.81	NE Quadrant	86.00	2,150.00	223.00	5,516.00
7/6/2018	NE Quadrant	1,283.07	17,394.29	2,530,560.00	1,265.28	197.78	2,411,400.00	1,205.70	NE Quadrant	68.00	1,700.00	291.00	7,216.00
7/7/2018		-	17,394.29				2,411,400.00	1,205.70		-	-	291.00	7,216.00
7/8/2018		-	17,394.29				2,411,400.00	1,205.70		-	-	291.00	7,216.00
7/9/2018	NE Quadrant	1,323.14	18,717.43	2,675,340.00	1,337.67	72.39	2,582,120.00	1,291.06	NE Quadrant	104.00	2,600.00	395.00	9,816.00
7/10/2018	NE Quadrant	1,392.31	20,109.74	2,874,680.00	1,437.34	99.67	2,767,590.00	1,383.80	NE Quadrant	102.00	2,550.00	497.00	12,366.00
7/11/2018	NE Quadrant	712.09	20,821.83	2,971,200.00	1,485.60	48.26	2,859,640.00	1,429.82	NE Quadrant	103.00	2,575.00	600.00	14,941.00
7/12/2018	NE Quadrant	117.37	20,939.20	3,020,020.00	1,510.01	24.41	2,875,800.00	1,437.90	NE Quadrant	98.00	2,450.00	698.00	17,391.00
7/12/2018	NW Quadrant	948.74	21,887.94	3,261,900.00	1,630.95	120.94	2,996,580.00	1,498.29		-	-	698.00	17,391.00
7/13/2018	NW Quadrant	1,012.46	22,900.40	3,406,820.00	1,703.41	72.46	3,128,210.00	1,564.11	NE Quadrant	105.00	2,625.00	803.00	20,016.00
7/14/2018		-	22,900.40				3,128,210.00	1,564.11		-	-	803.00	20,016.00
7/15/2018		-	22,900.40				3,128,210.00	1,564.11		-	-	803.00	20,016.00
7/16/2018	NW Quadrant	944.03	23,844.43	3,503,600.00	1,751.80	48.39	3,249,470.00	1,624.74	NE Quadrant	92.00	2,300.00	895.00	22,316.00
7/17/2018	NW Quadrant	1,399.47	25,243.90	3,649,040.00	1,824.52	72.72	3,429,580.00	1,714.79	NE Quadrant	96.00	2,400.00	991.00	24,716.00
7/18/2018	NW Quadrant	1,617.70	26,861.60	3,800,460.00	1,900.23	75.71	3,637,830.00	1,818.92	NE Quadrant	109.00	2,725.00	1,100.00	27,441.00
7/19/2018	NW Quadrant	1,210.15	28,071.75	4,048,140.00	2,024.07	123.84	3,793,630.00	1,896.82	NE Quadrant	84.00	2,100.00	1,184.00	29,541.00
7/20/2018	NW Quadrant	1,617.47	29,689.22	4,243,680.00	2,121.84	97.77	4,001,820.00	2,000.91	NE Quadrant	41.00	1,025.00	1,225.00	30,566.00
7/23/2018	NW Quadrant	1,488.71	31,177.93	4,441,740.00	2,220.87	99.03	4,193,360.00	2,096.68		-	-	1,225.00	30,566.00
7/24/2018	NW Quadrant	1,388.89	32,566.82	4,587,880.00	2,293.94	73.07	4,372,100.00	2,186.05		-	-	1,225.00	30,566.00
7/25/2018	NW Quadrant	1,534.85	34,101.67	4,782,900.00	2,391.45	97.51	4,569,630.00	2,284.82		-	-	1,225.00	30,566.00
7/26/2018	NW Quadrant	1,514.81	35,616.48	4,979,840.00	2,489.92	98.47	4,764,600.00	2,382.30		-	-	1,225.00	30,566.00
7/27/2018	NW Quadrant	1,461.97	37,078.45	5,178,320.00	2,589.16	99.24	4,952,800.00	2,476.40		-	-	1,225.00	30,566.00
7/30/2018	NW Quadrant	1,565.70	38,644.15	5,373,020.00	2,686.51	97.35	5,154,240.00	2,577.12		-	-	1,225.00	30,566.00
7/31/2018	NW Quadrant	1,752.55	40,396.70	5,621,440.00	2,810.72	124.21	5,379,800.00	2,689.90	NW Quadrant	72.00	1,800.00	1,297.00	32,366.00
8/1/2018	NW Quadrant	1,611.11	42,007.81	5,816,330.00	2,908.17	97.45	5,588,170.00	2,794.09		-	-	1,297.00	32,366.00
8/2/2018	NW Quadrant	1,686.27	43,694.08	6,065,810.00	3,032.91	124.74	5,805,490.00	2,902.75	NW Quadrant	93.00	2,325.00	1,390.00	34,691.00
8/3/2018	NW Quadrant	1,022.30	44,716.38	6,114,590.00	3,057.30	24.39	5,937,120.00	2,968.56	NW Quadrant	98.00	2,450.00	1,488.00	37,141.00
8/6/2018	NE Quadrant								NE Quadrant	23.00	575.00	1,511.00	37,716.00
8/6/2018	NW Quadrant								NW Quadrant	24.00	600.00	1,535.00	38,316.00
8/7/2018	NE Quadrant								NE Quadrant	7.00	175.00	1,542.00	38,491.00
8/7/2018	NW Quadrant	1,699.42	46,415.80	6,366,770.00	3,183.39	126.09	6,112,150.00	3,056.08	NW Quadrant	96.00	2,400.00	1,638.00	40,891.00
8/8/2018	NW Quadrant	727.58	47,143.38	6,470,410.00	3,235.21	51.82	6,187,250.00	3,093.63	NW Quadrant	104.00	2,600.00	1,742.00	43,491.00
8/8/2018	S Quadrants	509.80	47,653.18	6,684,130.00	3,342.07	106.86	6,253,100.00	3,126.55					

Denotes Final Mixing on NE Quadrant

Denotes Final Mixing on NW Quadrant

Through: 8/8/2018

MIXING		Percent of P.O.	PORTLAND PERCENTAGES
	52,091	CY Mix and Haul Set up in PO	100%
	47,653.18	CY Mixed to Date	91%
	4,437.83	CY Remaining to be mixed	9%
			LBS/CY @ 5% 128.5
			LBS/CY @ 6% 154.2
			(25.7 lbs/%)

HAULING

	43,491	CY Hauled to Landfill to Date
	1,742.00	Loads Hauled to Landfill to Date


ADD MIXTURE			TO DATE PORTLAND USAGE
	3,333.00	TN Add Mixture in PO	NE Plant Scale 2,875,800.00 LBS
	3,126.55	TN Used to Date	1,437.90 TN
	206.45	TN Available in PO	NW Plant Scale 3,311,450.00 LBS
	93.81%	Percent used to Date	1,655.73 TN
			S Plant Scale 65,850.00 LBS
			32.93 TN
			TOTAL TO DATE 6,253,100.00 LBS
			3,126.55 TN


Cubic Yards Mixed	47,653.18	CY
Portland Used	3,126.55	TN
Avg Lbs/CY Used	131.22	LBS/CY
Avg Percent Portland/CY to Date	5.11	%

		Projected
		(Amount Remaining in Current Tons Setup - Amount Required)
		Over (+) (Projected Surplus)
		Under (-) (Projected Shortfall)
Cubic Yards Remaining to be mixed:	4,437.83	CY
Remaining Portland Available in PO:	206.45	TN
Remaining Portland Req'd at 5%:	285.13	TN
Remaining Portland Req'd at 6%:	342.16	TN
		-78.68
		-135.71

DTE Unit 6 Scrubber Basins Land Improvement - CCR Removal

Date:	Area:	Mixed (CY):	To Date Mixed ALL Quadrants (CY):	Total Portland Delivered to Site ALL Quadrants (LBS):	Total Portland Delivered to Site ALL Quadrants (TN):	Total Portland Delivered to Site Daily (TN):	To Date Portland Plant Scale ALL Quadrants (LBS):	To Date Portland Plant Scale ALL Quadrants (TN):	Removal Area:	Loads Removed (EA):	CY Removed (CY):	To Date Loads Removed (EA):	To Date CY Removed (EA):
6/15/2018	NE Quadrant	1,244.74	1,244.74	251,660.00	125.83	125.83	160,800.00	80.40		0	0	0	-
6/16/2018		-	1,244.74				160,800.00	80.40		0	0	0	-
6/17/2018		-	1,244.74				160,800.00	80.40		0	0	0	-
6/18/2018	NE Quadrant	1,112.92	2,357.66	412,320.00	206.16	80.33	305,600.00	152.80		0	0	0	-
6/19/2018	NE Quadrant	1,192.69	3,550.35	572,620.00	286.31	80.15	459,340.00	229.67		0	0	0	-
6/20/2018	NE Quadrant	1,088.88	4,639.23	733,220.00	366.61	80.30	601,430.00	300.72		0	0	0	-
6/21/2018	NE Quadrant	1,176.19	5,815.42	893,240.00	446.62	80.01	757,960.00	378.98		0	0	0	-
6/22/2018	NE Quadrant	708.73	6,524.15	1,000,600.00	500.30	53.68	848,610.00	424.31		0	0	0	-
6/23/2018		-	6,524.15				848,610.00	424.31		0	0	0	-
6/24/2018		-	6,524.15				848,610.00	424.31		0	0	0	-
6/25/2018	NE Quadrant	1,410.34	7,934.49	1,098,780.00	549.39	49.09	1,032,810.00	516.41		0	0	0	-
6/26/2018	NE Quadrant	1,115.75	9,050.24	1,246,900.00	623.45	74.06	1,196,680.00	598.34		0	0	0	-
6/27/2018	NE Quadrant	1,047.60	10,097.84	1,447,580.00	723.79	100.34	1,343,470.00	671.74		-	-	-	-
6/28/2018	NE Quadrant	948.96	11,046.80	1,594,960.00	797.48	73.69	1,495,940.00	747.97		-	-	-	-
6/29/2018	NE Quadrant	1,183.15	12,229.95	1,742,060.00	871.03	73.55	1,681,110.00	840.56		-	-	-	-
6/30/2018		-	12,229.95				1,681,110.00	840.56		-	-	-	-
7/1/2018		-	12,229.95				1,681,110.00	840.56		-	-	-	-
7/2/2018	NE Quadrant	1,222.27	13,452.22	1,988,100.00	994.05	123.02	1,870,410.00	935.21	NE Quadrant	59.00	1,416.00	59.00	1,416.00
7/3/2018	NE Quadrant	1,248.77	14,700.99	2,135,000.00	1,067.50	73.45	2,063,600.00	1,031.80	NE Quadrant	78.00	1,950.00	137.00	3,366.00
7/4/2018		-	14,700.99				2,063,600.00	1,031.80		-	-	137.00	3,366.00
7/5/2018	NE Quadrant	1,410.23	16,111.22	2,382,220.00	1,191.11	123.61	2,245,610.00	1,122.81	NE Quadrant	86.00	2,150.00	223.00	5,516.00
7/6/2018	NE Quadrant	1,283.07	17,394.29	2,530,560.00	1,265.28	197.78	2,411,400.00	1,205.70	NE Quadrant	68.00	1,700.00	291.00	7,216.00
7/7/2018		-	17,394.29				2,411,400.00	1,205.70		-	-	291.00	7,216.00
7/8/2018		-	17,394.29				2,411,400.00	1,205.70		-	-	291.00	7,216.00
7/9/2018	NE Quadrant	1,323.14	18,717.43	2,675,340.00	1,337.67	72.39	2,582,120.00	1,291.06	NE Quadrant	104.00	2,600.00	395.00	9,816.00
7/10/2018	NE Quadrant	1,392.31	20,109.74	2,874,680.00	1,437.34	99.67	2,767,590.00	1,383.80	NE Quadrant	102.00	2,550.00	497.00	12,366.00
7/11/2018	NE Quadrant	712.09	20,821.83	2,971,200.00	1,485.60	48.26	2,859,640.00	1,429.82	NE Quadrant	103.00	2,575.00	600.00	14,941.00
7/12/2018	NE Quadrant	117.37	20,939.20	3,020,020.00	1,510.01	24.41	2,875,800.00	1,437.90	NE Quadrant	103.00	2,450.00	698.00	17,391.00
7/12/2018	NW Quadrant	948.74	21,887.94	3,261,900.00	1,630.95	120.94	2,996,580.00	1,498.29		-	-	698.00	17,391.00
7/13/2018	NW Quadrant	1,012.46	22,900.40	3,406,820.00	1,703.41	72.46	3,128,210.00	1,564.11	NE Quadrant	105.00	2,625.00	803.00	20,016.00
7/14/2018		-	22,900.40				3,128,210.00	1,564.11		-	-	803.00	20,016.00
7/15/2018		-	22,900.40				3,128,210.00	1,564.11		-	-	803.00	20,016.00
7/16/2018	NW Quadrant	944.03	23,844.43	3,503,600.00	1,751.80	48.39	3,249,470.00	1,624.74	NE Quadrant	92.00	2,300.00	895.00	22,316.00
7/17/2018	NW Quadrant	1,399.47	25,243.90	3,649,040.00	1,824.52	72.72	3,429,580.00	1,714.79	NE Quadrant	96.00	2,400.00	991.00	24,716.00
7/18/2018	NW Quadrant	1,617.70	26,861.60	3,800,460.00	1,900.23	75.71	3,637,830.00	1,818.92	NE Quadrant	109.00	2,725.00	1,100.00	27,441.00
7/19/2018	NW Quadrant	1,210.15	28,071.75	4,048,140.00	2,024.07	123.84	3,793,630.00	1,896.82	NE Quadrant	84.00	2,100.00	1,184.00	29,541.00
7/20/2018	NW Quadrant	1,617.47	29,689.22	4,243,680.00	2,121.84	97.77	4,001,820.00	2,000.91	NE Quadrant	41.00	1,025.00	1,225.00	30,566.00
7/23/2018	NW Quadrant	1,488.71	31,177.93	4,441,740.00	2,220.87	99.03	4,193,360.00	2,096.68		-	-	1,225.00	30,566.00
7/24/2018	NW Quadrant	1,388.89	32,566.82	4,587,880.00	2,293.94	73.07	4,372,100.00	2,186.05		-	-	1,225.00	30,566.00
7/25/2018	NW Quadrant	1,534.85	34,101.67	4,782,900.00	2,391.45	97.51	4,569,630.00	2,284.82		-	-	1,225.00	30,566.00
7/26/2018	NW Quadrant	1,514.81	35,616.48	4,979,840.00	2,489.92	98.47	4,764,600.00	2,382.30		-	-	1,225.00	30,566.00
7/27/2018	NW Quadrant	1,461.97	37,078.45	5,178,320.00	2,589.16	99.24	4,952,800.00	2,476.40		-	-	1,225.00	30,566.00
7/30/2018	NW Quadrant	1,565.70	38,644.15	5,373,020.00	2,686.51	97.35	5,154,240.00	2,577.12		-	-	1,225.00	30,566.00
7/31/2018	NW Quadrant	1,752.55	40,396.70	5,621,440.00	2,810.72	124.21	5,379,800.00	2,689.90	NW Quadrant	72.00	1,800.00	1,297.00	32,366.00
8/1/2018	NW Quadrant	1,611.11	42,007.81	5,816,330.00	2,908.17	97.45	5,588,170.00	2,794.09		-	-	1,297.00	32,366.00
8/2/2018	NW Quadrant	1,686.27	43,694.08	6,065,810.00	3,032.91	124.74	5,805,490.00	2,902.75	NW Quadrant	93.00	2,325.00	1,390.00	34,691.00
8/3/2018	NW Quadrant	1,022.30	44,716.38	6,114,590.00	3,057.30	24.39	5,937,120.00	2,968.56	NW Quadrant	98.00	2,450.00	1,488.00	37,141.00
8/6/2018	NE Quadrant								NE Quadrant	23.00	575.00	1,511.00	37,716.00
8/6/2018	NW Quadrant								NW Quadrant	24.00	600.00	1,535.00	38,316.00
8/7/2018	NE Quadrant								NE Quadrant	7.00	175.00	1,542.00	38,491.00
8/7/2018	NW Quadrant	1,699.42	46,415.80	6,366,770.00	3,183.39	126.09	6,112,150.00	3,056.08	NW Quadrant	96.00	2,400.00	1,638.00	40,891.00
8/8/2018	NW Quadrant	727.58	47,143.38	6,470,410.00	3,235.21	51.82	6,187,250.00	3,093.63	NW Quadrant	104.00	2,600.00	1,742.00	43,491.00
8/8/2018	S Quadrants	509.80	47,653.18	6,684,130.00	3,342.07	106.86	6,253,100.00	3,126.55					
8/9/2018	S Quadrants	604.06	48,257.24	6,781,090.00	3,390.55	48.48	6,447,630.00	3,223.82	NW Quadrant	102.00	2,550.00	1,844.00	46,041.00

 Denotes Final Mixing on NE Quadrant

 Denotes Final Mixing on NW Quadrant

Through: 8/9/2018

MIXING		Percent of P.O.	PORTLAND PERCENTAGES	
	52,091	CY Mix and Haul Set up in PO	100%	LBS/CY @ 5% 128.5
	48,257.24	CY Mixed to Date	93%	LBS/CY @ 6% 154.2
	3,833.77	CY Remaining to be mixed	7%	(25.7 lbs/%)

HAULING

	46,041	CY Hauled to Landfill to Date
	1,844.00	Loads Hauled to Landfill to Date

ADD MIXTURE			TO DATE PORTLAND USAGE
	3,333.00	TN Add Mixture in PO	NE Plant Scale 2,875,800.00 LBS
	3,223.82	TN Used to Date	1,437.90 TN
	109.19	TN Available in PO	NW Plant Scale 3,311,450.00 LBS
	96.72%	Percent used to Date	1,655.73 TN
			S Plant Scale 260,380.00 LBS
			130.19 TN
			TOTAL TO DATE 6,447,630.00 LBS
			3,223.82 TN

Cubic Yards Mixed 48,257.24 CY
 Portland Used 3,223.82 TN
 Avg Lbs/CY Used 133.61 LBS/CY
 Avg Percent Portland/CY to Date 5.20 %

		Projected (Amount Remaining in Current Tons Setup - Amount Required) Over (+) (Projected Surplus) Under (-) (Projected Shortfall)
Cubic Yards Remaining to be mixed:	3,833.77 CY	
Remaining Portland Available in PO:	109.19 TN	
Remaining Portland Req'd at 5%:	246.32 TN	-137.13
Remaining Portland Req'd at 6%:	295.58 TN	-186.40

DTE Unit 6 Scrubber Basins Land Improvement - CCR Removal

Date:	Area:	Mixed (CY):	To Date Mixed ALL Quadrants (CY):	Total Portland Delivered to Site ALL Quadrants (LBS):	Total Portland Delivered to Site ALL Quadrants (TN):	Total Portland Delivered to Site Daily (TN):	To Date Portland Plant Scale ALL Quadrants (LBS):	To Date Portland Plant Scale ALL Quadrants (TN):	Removal Area:	Loads Removed (EA):	CY Removed (CY):	To Date Loads Removed (EA):	To Date CY Removed (EA):
6/15/2018	NE Quadrant	1,244.74	1,244.74	251,660.00	125.83	125.83	160,800.00	80.40		0	0	0	-
6/16/2018		-	1,244.74				160,800.00	80.40		0	0	0	-
6/17/2018		-	1,244.74				160,800.00	80.40		0	0	0	-
6/18/2018	NE Quadrant	1,112.92	2,357.66	412,320.00	206.16	80.33	305,600.00	152.80		0	0	0	-
6/19/2018	NE Quadrant	1,192.69	3,550.35	572,620.00	286.31	80.15	459,340.00	229.67		0	0	0	-
6/20/2018	NE Quadrant	1,088.88	4,639.23	733,220.00	366.61	80.30	601,430.00	300.72		0	0	0	-
6/21/2018	NE Quadrant	1,176.19	5,815.42	893,240.00	446.62	80.01	757,960.00	378.98		0	0	0	-
6/22/2018	NE Quadrant	708.73	6,524.15	1,000,600.00	500.30	53.68	848,610.00	424.31		0	0	0	-
6/23/2018		-	6,524.15				848,610.00	424.31		0	0	0	-
6/24/2018		-	6,524.15				848,610.00	424.31		0	0	0	-
6/25/2018	NE Quadrant	1,410.34	7,934.49	1,098,780.00	549.39	49.09	1,032,810.00	516.41		0	0	0	-
6/26/2018	NE Quadrant	1,115.75	9,050.24	1,246,900.00	623.45	74.06	1,196,680.00	598.34		0	0	0	-
6/27/2018	NE Quadrant	1,047.60	10,097.84	1,447,580.00	723.79	100.34	1,343,470.00	671.74		-	-	-	-
6/28/2018	NE Quadrant	948.96	11,046.80	1,594,960.00	797.48	73.69	1,495,940.00	747.97		-	-	-	-
6/29/2018	NE Quadrant	1,183.15	12,229.95	1,742,060.00	871.03	73.55	1,681,110.00	840.56		-	-	-	-
6/30/2018		-	12,229.95				1,681,110.00	840.56		-	-	-	-
7/1/2018		-	12,229.95				1,681,110.00	840.56		-	-	-	-
7/2/2018	NE Quadrant	1,222.27	13,452.22	1,988,100.00	994.05	123.02	1,870,410.00	935.21	NE Quadrant	59.00	1,416.00	59.00	1,416.00
7/3/2018	NE Quadrant	1,248.77	14,700.99	2,135,000.00	1,067.50	73.45	2,063,600.00	1,031.80	NE Quadrant	78.00	1,950.00	137.00	3,366.00
7/4/2018		-	14,700.99				2,063,600.00	1,031.80		-	-	137.00	3,366.00
7/5/2018	NE Quadrant	1,410.23	16,111.22	2,382,220.00	1,191.11	123.61	2,245,610.00	1,122.81	NE Quadrant	86.00	2,150.00	223.00	5,516.00
7/6/2018	NE Quadrant	1,283.07	17,394.29	2,530,560.00	1,265.28	197.78	2,411,400.00	1,205.70	NE Quadrant	68.00	1,700.00	291.00	7,216.00
7/7/2018		-	17,394.29				2,411,400.00	1,205.70		-	-	291.00	7,216.00
7/8/2018		-	17,394.29				2,411,400.00	1,205.70		-	-	291.00	7,216.00
7/9/2018	NE Quadrant	1,323.14	18,717.43	2,675,340.00	1,337.67	72.39	2,582,120.00	1,291.06	NE Quadrant	104.00	2,600.00	395.00	9,816.00
7/10/2018	NE Quadrant	1,392.31	20,109.74	2,874,680.00	1,437.34	99.67	2,767,590.00	1,383.80	NE Quadrant	102.00	2,550.00	497.00	12,366.00
7/11/2018	NE Quadrant	712.09	20,821.83	2,971,200.00	1,485.60	48.26	2,859,640.00	1,429.82	NE Quadrant	103.00	2,575.00	600.00	14,941.00
7/12/2018	NE Quadrant	117.37	20,939.20	3,020,020.00	1,510.01	24.41	2,875,800.00	1,437.90	NE Quadrant	98.00	2,450.00	698.00	17,391.00
7/12/2018	NW Quadrant	948.74	21,887.94	3,261,900.00	1,630.95	120.94	2,996,580.00	1,498.29		-	-	698.00	17,391.00
7/13/2018	NW Quadrant	1,012.46	22,900.40	3,406,820.00	1,703.41	72.46	3,128,210.00	1,564.11	NE Quadrant	105.00	2,625.00	803.00	20,016.00
7/14/2018		-	22,900.40				3,128,210.00	1,564.11		-	-	803.00	20,016.00
7/15/2018		-	22,900.40				3,128,210.00	1,564.11		-	-	803.00	20,016.00
7/16/2018	NW Quadrant	944.03	23,844.43	3,503,600.00	1,751.80	48.39	3,249,470.00	1,624.74	NE Quadrant	92.00	2,300.00	895.00	22,316.00
7/17/2018	NW Quadrant	1,399.47	25,243.90	3,649,040.00	1,824.52	72.72	3,429,580.00	1,714.79	NE Quadrant	96.00	2,400.00	991.00	24,716.00
7/18/2018	NW Quadrant	1,617.70	26,861.60	3,800,460.00	1,900.23	75.71	3,637,830.00	1,818.92	NE Quadrant	109.00	2,725.00	1,100.00	27,441.00
7/19/2018	NW Quadrant	1,210.15	28,071.75	4,048,140.00	2,024.07	123.84	3,793,630.00	1,896.82	NE Quadrant	84.00	2,100.00	1,184.00	29,541.00
7/20/2018	NW Quadrant	1,617.47	29,689.22	4,243,680.00	2,121.84	97.77	4,001,820.00	2,000.91	NE Quadrant	41.00	1,025.00	1,225.00	30,566.00
7/23/2018	NW Quadrant	1,488.71	31,177.93	4,441,740.00	2,220.87	99.03	4,193,360.00	2,096.68		-	-	1,225.00	30,566.00
7/24/2018	NW Quadrant	1,388.89	32,566.82	4,587,880.00	2,293.94	73.07	4,372,100.00	2,186.05		-	-	1,225.00	30,566.00
7/25/2018	NW Quadrant	1,534.85	34,101.67	4,782,900.00	2,391.45	97.51	4,569,630.00	2,284.82		-	-	1,225.00	30,566.00
7/26/2018	NW Quadrant	1,514.81	35,616.48	4,979,840.00	2,489.92	98.47	4,764,600.00	2,382.30		-	-	1,225.00	30,566.00
7/27/2018	NW Quadrant	1,461.97	37,078.45	5,178,320.00	2,589.16	99.24	4,952,800.00	2,476.40		-	-	1,225.00	30,566.00
7/30/2018	NW Quadrant	1,565.70	38,644.15	5,373,020.00	2,686.51	97.35	5,154,240.00	2,577.12		-	-	1,225.00	30,566.00
7/31/2018	NW Quadrant	1,752.55	40,396.70	5,621,440.00	2,810.72	124.21	5,379,800.00	2,689.90	NW Quadrant	72.00	1,800.00	1,297.00	32,366.00
8/1/2018	NW Quadrant	1,611.11	42,007.81	5,816,330.00	2,908.17	97.45	5,588,170.00	2,794.09		-	-	1,297.00	32,366.00
8/2/2018	NW Quadrant	1,686.27	43,694.08	6,065,810.00	3,032.91	124.74	5,805,490.00	2,902.75	NW Quadrant	93.00	2,325.00	1,390.00	34,691.00
8/3/2018	NW Quadrant	1,022.30	44,716.38	6,114,590.00	3,057.30	24.39	5,937,120.00	2,968.56	NW Quadrant	98.00	2,450.00	1,488.00	37,141.00
8/6/2018	NE Quadrant								NE Quadrant	23.00	575.00	1,511.00	37,716.00
8/6/2018	NW Quadrant								NW Quadrant	24.00	600.00	1,535.00	38,316.00
8/7/2018	NE Quadrant								NE Quadrant	7.00	175.00	1,542.00	38,491.00
8/7/2018	NW Quadrant	1,699.42	46,415.80	6,366,770.00	3,183.39	126.09	6,112,150.00	3,056.08	NW Quadrant	96.00	2,400.00	1,638.00	40,891.00
8/8/2018	NW Quadrant	727.58	47,143.38	6,470,410.00	3,235.21	51.82	6,187,250.00	3,093.63	NW Quadrant	104.00	2,600.00	1,742.00	43,491.00
8/8/2018	S Quadrants	509.80	47,653.18	6,684,130.00	3,342.07	106.86	6,253,100.00	3,126.55					
8/9/2018	S Quadrants	604.06	48,257.24	6,781,090.00	3,390.55	48.48	6,447,630.00	3,223.82	NW Quadrant	102.00	2,550.00	1,844.00	46,041.00
8/10/2018	S Quadrants	1,175.71	49,432.95	6,927,090.00	3,463.55	73.00	6,598,710.00	3,299.36	NW Quadrant	103.00	2,575.00	1,947.00	48,616.00

Denotes Final Mixing on NE Quadrant

Denotes Final Mixing on NW Quadrant

Through: 8/10/2018

MIXING		Percent of P.O.	PORTLAND PERCENTAGES
	52,091	CY Mix and Haul Set up in PO	100%
	49,432.95	CY Mixed to Date	95%
	2,658.06	CY Remaining to be mixed	5%
			LBS/CY @ 5% 128.5
			LBS/CY @ 6% 154.2
			(25.7 lbs/%)

HAULING

	48,616	CY Hauled to Landfill to Date
	1,947.00	Loads Hauled to Landfill to Date

ADD MIXTURE			TO DATE PORTLAND USAGE
	3,333.00	TN Add Mixture in PO	NE Plant Scale 2,875,800.00 LBS
	3,299.36	TN Used to Date	1,437.90 TN
	33.65	TN Available in PO	NW Plant Scale 3,311,450.00 LBS
	98.99%	Percent used to Date	1,655.73 TN
			S Plant Scale 411,460.00 LBS
			205.73 TN
			TOTAL TO DATE 6,598,710.00 LBS
			3,299.36 TN

Cubic Yards Mixed	49,432.95	CY
Portland Used	3,299.36	TN
Avg Lbs/CY Used	133.49	LBS/CY
Avg Percent Portland/CY to Date	5.19	%

		Projected	
		(Amount Remaining in Current Tons Setup - Amount Required)	
		Over (+) (Projected Surplus)	
		Under (-) (Projected Shortfall)	
Cubic Yards Remaining to be mixed:	2,658.06	CY	
Remaining Portland Available in PO:	33.65	TN	
Remaining Portland Req'd at 5%:	170.78	TN	-137.14
Remaining Portland Req'd at 6%:	204.94	TN	-171.29

DTE Unit 6 Scrubber Basins Land Improvement - CCR Removal

Date:	Area:	Mixed (CY):	To Date Mixed ALL Quadrants (CY):	Total Portland Delivered to Site ALL Quadrants (LBS):	Total Portland Delivered to Site ALL Quadrants (TN):	Total Portland Delivered to Site Daily (TN):	To Date Portland Plant Scale ALL Quadrants (LBS):	To Date Portland Plant Scale ALL Quadrants (TN):	Removal Area:	Loads Removed (EA):	CY Removed (CY):	To Date Loads Removed (EA):	To Date CY Removed (EA):
6/15/2018	NE Quadrant	1,244.74	1,244.74	251,660.00	125.83	125.83	160,800.00	80.40		0	0	0	-
6/16/2018		-	1,244.74				160,800.00	80.40		0	0	0	-
6/17/2018		-	1,244.74				160,800.00	80.40		0	0	0	-
6/18/2018	NE Quadrant	1,112.92	2,357.66	412,320.00	206.16	80.33	305,600.00	152.80		0	0	0	-
6/19/2018	NE Quadrant	1,192.69	3,550.35	572,620.00	286.31	80.15	459,340.00	229.67		0	0	0	-
6/20/2018	NE Quadrant	1,088.88	4,639.23	733,220.00	366.61	80.30	601,430.00	300.72		0	0	0	-
6/21/2018	NE Quadrant	1,176.19	5,815.42	893,240.00	446.62	80.01	757,960.00	378.98		0	0	0	-
6/22/2018	NE Quadrant	708.73	6,524.15	1,000,600.00	500.30	53.68	848,610.00	424.31		0	0	0	-
6/23/2018		-	6,524.15				848,610.00	424.31		0	0	0	-
6/24/2018		-	6,524.15				848,610.00	424.31		0	0	0	-
6/25/2018	NE Quadrant	1,410.34	7,934.49	1,098,780.00	549.39	49.09	1,032,810.00	516.41		0	0	0	-
6/26/2018	NE Quadrant	1,115.75	9,050.24	1,246,900.00	623.45	74.06	1,196,680.00	598.34		0	0	0	-
6/27/2018	NE Quadrant	1,047.60	10,097.84	1,447,580.00	723.79	100.34	1,343,470.00	671.74		-	-	-	-
6/28/2018	NE Quadrant	948.96	11,046.80	1,594,960.00	797.48	73.69	1,495,940.00	747.97		-	-	-	-
6/29/2018	NE Quadrant	1,183.15	12,229.95	1,742,060.00	871.03	73.55	1,681,110.00	840.56		-	-	-	-
6/30/2018		-	12,229.95				1,681,110.00	840.56		-	-	-	-
7/1/2018		-	12,229.95				1,681,110.00	840.56		-	-	-	-
7/2/2018	NE Quadrant	1,222.27	13,452.22	1,988,100.00	994.05	123.02	1,870,410.00	935.21	NE Quadrant	59.00	1,416.00	59.00	1,416.00
7/3/2018	NE Quadrant	1,248.77	14,700.99	2,135,000.00	1,067.50	73.45	2,063,600.00	1,031.80	NE Quadrant	78.00	1,950.00	137.00	3,366.00
7/4/2018		-	14,700.99				2,063,600.00	1,031.80		-	-	137.00	3,366.00
7/5/2018	NE Quadrant	1,410.23	16,111.22	2,382,220.00	1,191.11	123.61	2,245,610.00	1,122.81	NE Quadrant	86.00	2,150.00	223.00	5,516.00
7/6/2018	NE Quadrant	1,283.07	17,394.29	2,530,560.00	1,265.28	197.78	2,411,400.00	1,205.70	NE Quadrant	68.00	1,700.00	291.00	7,216.00
7/7/2018		-	17,394.29				2,411,400.00	1,205.70		-	-	291.00	7,216.00
7/8/2018		-	17,394.29				2,411,400.00	1,205.70		-	-	291.00	7,216.00
7/9/2018	NE Quadrant	1,323.14	18,717.43	2,675,340.00	1,337.67	72.39	2,582,120.00	1,291.06	NE Quadrant	104.00	2,600.00	395.00	9,816.00
7/10/2018	NE Quadrant	1,392.31	20,109.74	2,874,680.00	1,437.34	99.67	2,767,590.00	1,383.80	NE Quadrant	102.00	2,550.00	497.00	12,366.00
7/11/2018	NE Quadrant	712.09	20,821.83	2,971,200.00	1,485.60	48.26	2,859,640.00	1,429.82	NE Quadrant	103.00	2,575.00	600.00	14,941.00
7/12/2018	NE Quadrant	117.37	20,939.20	3,020,020.00	1,510.01	24.41	2,875,800.00	1,437.90	NE Quadrant	98.00	2,450.00	698.00	17,391.00
7/12/2018	NW Quadrant	948.74	21,887.94	3,261,900.00	1,630.95	120.94	2,996,580.00	1,498.29		-	-	698.00	17,391.00
7/13/2018	NW Quadrant	1,012.46	22,900.40	3,406,820.00	1,703.41	72.46	3,128,210.00	1,564.11	NE Quadrant	105.00	2,625.00	803.00	20,016.00
7/14/2018		-	22,900.40				3,128,210.00	1,564.11		-	-	803.00	20,016.00
7/15/2018		-	22,900.40				3,128,210.00	1,564.11		-	-	803.00	20,016.00
7/16/2018	NW Quadrant	944.03	23,844.43	3,503,600.00	1,751.80	48.39	3,249,470.00	1,624.74	NE Quadrant	92.00	2,300.00	895.00	22,316.00
7/17/2018	NW Quadrant	1,399.47	25,243.90	3,649,040.00	1,824.52	72.72	3,429,580.00	1,714.79	NE Quadrant	96.00	2,400.00	991.00	24,716.00
7/18/2018	NW Quadrant	1,617.70	26,861.60	3,800,460.00	1,900.23	75.71	3,637,830.00	1,818.92	NE Quadrant	109.00	2,725.00	1,100.00	27,441.00
7/19/2018	NW Quadrant	1,210.15	28,071.75	4,048,140.00	2,024.07	123.84	3,793,630.00	1,896.82	NE Quadrant	84.00	2,100.00	1,184.00	29,541.00
7/20/2018	NW Quadrant	1,617.47	29,689.22	4,243,680.00	2,121.84	97.77	4,001,820.00	2,000.91	NE Quadrant	41.00	1,025.00	1,225.00	30,566.00
7/23/2018	NW Quadrant	1,488.71	31,177.93	4,441,740.00	2,220.87	99.03	4,193,360.00	2,096.68		-	-	1,225.00	30,566.00
7/24/2018	NW Quadrant	1,388.89	32,566.82	4,587,880.00	2,293.94	73.07	4,372,100.00	2,186.05		-	-	1,225.00	30,566.00
7/25/2018	NW Quadrant	1,534.85	34,101.67	4,782,900.00	2,391.45	97.51	4,569,630.00	2,284.82		-	-	1,225.00	30,566.00
7/26/2018	NW Quadrant	1,514.81	35,616.48	4,979,840.00	2,489.92	98.47	4,764,600.00	2,382.30		-	-	1,225.00	30,566.00
7/27/2018	NW Quadrant	1,461.97	37,078.45	5,178,320.00	2,589.16	99.24	4,952,800.00	2,476.40		-	-	1,225.00	30,566.00
7/30/2018	NW Quadrant	1,565.70	38,644.15	5,373,020.00	2,686.51	97.35	5,154,240.00	2,577.12		-	-	1,225.00	30,566.00
7/31/2018	NW Quadrant	1,752.55	40,396.70	5,621,440.00	2,810.72	124.21	5,379,800.00	2,689.90	NW Quadrant	72.00	1,800.00	1,297.00	32,366.00
8/1/2018	NW Quadrant	1,611.11	42,007.81	5,816,330.00	2,908.17	97.45	5,588,170.00	2,794.09		-	-	1,297.00	32,366.00
8/2/2018	NW Quadrant	1,686.27	43,694.08	6,065,810.00	3,032.91	124.74	5,805,490.00	2,902.75	NW Quadrant	93.00	2,325.00	1,390.00	34,691.00
8/3/2018	NW Quadrant	1,022.30	44,716.38	6,114,590.00	3,057.30	24.39	5,937,120.00	2,968.56	NW Quadrant	98.00	2,450.00	1,488.00	37,141.00
8/6/2018	NE Quadrant								NE Quadrant	23.00	575.00	1,511.00	37,716.00
8/6/2018	NW Quadrant								NW Quadrant	24.00	600.00	1,535.00	38,316.00
8/7/2018	NE Quadrant								NE Quadrant	7.00	175.00	1,542.00	38,491.00
8/7/2018	NW Quadrant	1,699.42	46,415.80	6,366,770.00	3,183.39	126.09	6,112,150.00	3,056.08	NW Quadrant	96.00	2,400.00	1,638.00	40,891.00
8/8/2018	NW Quadrant	727.58	47,143.38	6,470,410.00	3,235.21	51.82	6,187,250.00	3,093.63	NW Quadrant	104.00	2,600.00	1,742.00	43,491.00
8/8/2018	S Quadrants	509.80	47,653.18	6,684,130.00	3,342.07	106.86	6,253,100.00	3,126.55					
8/9/2018	S Quadrants	604.06	48,257.24	6,781,090.00	3,390.55	48.48	6,381,780.00	3,190.89	NW Quadrant	102.00	2,550.00	1,844.00	46,041.00
8/10/2018	S Quadrants	1,175.71	49,432.95	6,927,090.00	3,463.55	73.00	6,533,160.00	3,266.58	NW Quadrant	103.00	2,575.00	1,947.00	48,616.00
8/13/2018	S Quadrants	3,856.09	53,289.04	7,070,370.00	3,535.19	71.64	6,689,320.00	3,344.66	NW Quadrant	91.00	2,275.00	2,038.00	50,891.00

Denotes Final Mixing on NE Quadrant

Denotes Final Mixing on NW Quadrant

Through: 8/13/2018

MIXING		Percent of P.O.	PORTLAND PERCENTAGES	
	52,091	CY Mix and Haul Set up in PO	100%	LBS/CY @ 5% 128.5
	53,289.04	CY Mixed to Date	102%	LBS/CY @ 6% 154.2
	(1,198.04)	CY Remaining to be mixed	-2%	(25.7 lbs/%)

HAULING

	50,891	CY Hauled to Landfill to Date
	2,038.00	Loads Hauled to Landfill to Date

ADD MIXTURE			TO DATE PORTLAND USAGE
	3,333.00	TN Add Mixture in PO	NE Plant Scale 2,875,800.00 LBS
	3,344.66	TN Used to Date	1,437.90 TN
	(11.66)	TN Available in PO	NW Plant Scale 3,311,450.00 LBS
	100.35%	Percent used to Date	1,655.73 TN
			S Plant Scale 502,070.00 LBS
			251.04 TN
			TOTAL TO DATE 6,689,320.00 LBS
			3,344.66 TN

Cubic Yards Mixed 53,289.04 CY
 Portland Used 3,344.66 TN
 Avg Lbs/CY Used 125.53 LBS/CY
 Avg Percent Portland/CY to Date 4.88 %

		Projected (Amount Remaining in Current Tons Setup - Amount Required) Over (+) (Projected Surplus) Under (-) (Projected Shortfall)
Cubic Yards Remaining to be mixed:	(1,198.04) CY	
Remaining Portland Available in PO:	(11.66) TN	
Remaining Portland Req'd at 5%:	(76.97) TN	65.31
Remaining Portland Req'd at 6%:	(92.37) TN	80.71

DTE Unit 6 Scrubber Basins Land Improvement - CCR Removal

Date:	Area:	Mixed (CY):	To Date Mixed ALL Quadrants (CY):	Total Portland Delivered to Site ALL Quadrants (LBS):	Total Portland Delivered to Site ALL Quadrants (TN):	Total Portland Delivered to Site Daily (TN):	To Date Portland Plant Scale ALL Quadrants (LBS):	To Date Portland Plant Scale ALL Quadrants (TN):	Removal Area:	Loads Removed (EA):	CY Removed (CY):	To Date Loads Removed (EA):	To Date CY Removed (EA):
6/15/2018	NE Quadrant	1,244.74	1,244.74	251,660.00	125.83	125.83	160,800.00	80.40		0	0	0	-
6/16/2018		-	1,244.74				160,800.00	80.40		0	0	0	-
6/17/2018		-	1,244.74				160,800.00	80.40		0	0	0	-
6/18/2018	NE Quadrant	1,112.92	2,357.66	412,320.00	206.16	80.33	305,600.00	152.80		0	0	0	-
6/19/2018	NE Quadrant	1,192.69	3,550.35	572,620.00	286.31	80.15	459,340.00	229.67		0	0	0	-
6/20/2018	NE Quadrant	1,088.88	4,639.23	733,220.00	366.61	80.30	601,430.00	300.72		0	0	0	-
6/21/2018	NE Quadrant	1,176.19	5,815.42	893,240.00	446.62	80.01	757,960.00	378.98		0	0	0	-
6/22/2018	NE Quadrant	708.73	6,524.15	1,000,600.00	500.30	53.68	848,610.00	424.31		0	0	0	-
6/23/2018		-	6,524.15				848,610.00	424.31		0	0	0	-
6/24/2018		-	6,524.15				848,610.00	424.31		0	0	0	-
6/25/2018	NE Quadrant	1,410.34	7,934.49	1,098,780.00	549.39	49.09	1,032,810.00	516.41		0	0	0	-
6/26/2018	NE Quadrant	1,115.75	9,050.24	1,246,900.00	623.45	74.06	1,196,680.00	598.34		0	0	0	-
6/27/2018	NE Quadrant	1,047.60	10,097.84	1,447,580.00	723.79	100.34	1,343,470.00	671.74		-	-	-	-
6/28/2018	NE Quadrant	948.96	11,046.80	1,594,960.00	797.48	73.69	1,495,940.00	747.97		-	-	-	-
6/29/2018	NE Quadrant	1,183.15	12,229.95	1,742,060.00	871.03	73.55	1,681,110.00	840.56		-	-	-	-
6/30/2018		-	12,229.95				1,681,110.00	840.56		-	-	-	-
7/1/2018		-	12,229.95				1,681,110.00	840.56		-	-	-	-
7/2/2018	NE Quadrant	1,222.27	13,452.22	1,988,100.00	994.05	123.02	1,870,410.00	935.21	NE Quadrant	59.00	1,416.00	59.00	1,416.00
7/3/2018	NE Quadrant	1,248.77	14,700.99	2,135,000.00	1,067.50	73.45	2,063,600.00	1,031.80	NE Quadrant	78.00	1,950.00	137.00	3,366.00
7/4/2018		-	14,700.99				2,063,600.00	1,031.80		-	-	137.00	3,366.00
7/5/2018	NE Quadrant	1,410.23	16,111.22	2,382,220.00	1,191.11	123.61	2,245,610.00	1,122.81	NE Quadrant	86.00	2,150.00	223.00	5,516.00
7/6/2018	NE Quadrant	1,283.07	17,394.29	2,530,560.00	1,265.28	197.78	2,411,400.00	1,205.70	NE Quadrant	68.00	1,700.00	291.00	7,216.00
7/7/2018		-	17,394.29				2,411,400.00	1,205.70		-	-	291.00	7,216.00
7/8/2018		-	17,394.29				2,411,400.00	1,205.70		-	-	291.00	7,216.00
7/9/2018	NE Quadrant	1,323.14	18,717.43	2,675,340.00	1,337.67	72.39	2,582,120.00	1,291.06	NE Quadrant	104.00	2,600.00	395.00	9,816.00
7/10/2018	NE Quadrant	1,392.31	20,109.74	2,874,680.00	1,437.34	99.67	2,767,590.00	1,383.80	NE Quadrant	102.00	2,550.00	497.00	12,366.00
7/11/2018	NE Quadrant	712.09	20,821.83	2,971,200.00	1,485.60	48.26	2,859,640.00	1,429.82	NE Quadrant	103.00	2,575.00	600.00	14,941.00
7/12/2018	NE Quadrant	117.37	20,939.20	3,020,020.00	1,510.01	24.41	2,875,800.00	1,437.90	NE Quadrant	98.00	2,450.00	698.00	17,391.00
7/12/2018	NW Quadrant	948.74	21,887.94	3,261,900.00	1,630.95	120.94	2,996,580.00	1,498.29		-	-	698.00	17,391.00
7/13/2018	NW Quadrant	1,012.46	22,900.40	3,406,820.00	1,703.41	72.46	3,128,210.00	1,564.11	NE Quadrant	105.00	2,625.00	803.00	20,016.00
7/14/2018		-	22,900.40				3,128,210.00	1,564.11		-	-	803.00	20,016.00
7/15/2018		-	22,900.40				3,128,210.00	1,564.11		-	-	803.00	20,016.00
7/16/2018	NW Quadrant	944.03	23,844.43	3,503,600.00	1,751.80	48.39	3,249,470.00	1,624.74	NE Quadrant	92.00	2,300.00	895.00	22,316.00
7/17/2018	NW Quadrant	1,399.47	25,243.90	3,649,040.00	1,824.52	72.72	3,429,580.00	1,714.79	NE Quadrant	96.00	2,400.00	991.00	24,716.00
7/18/2018	NW Quadrant	1,617.70	26,861.60	3,800,460.00	1,900.23	75.71	3,637,830.00	1,818.92	NE Quadrant	109.00	2,725.00	1,100.00	27,441.00
7/19/2018	NW Quadrant	1,210.15	28,071.75	4,048,140.00	2,024.07	123.84	3,793,630.00	1,896.82	NE Quadrant	84.00	2,100.00	1,184.00	29,541.00
7/20/2018	NW Quadrant	1,617.47	29,689.22	4,243,680.00	2,121.84	97.77	4,001,820.00	2,000.91	NE Quadrant	41.00	1,025.00	1,225.00	30,566.00
7/23/2018	NW Quadrant	1,488.71	31,177.93	4,441,740.00	2,220.87	99.03	4,193,360.00	2,096.68		-	-	1,225.00	30,566.00
7/24/2018	NW Quadrant	1,388.89	32,566.82	4,587,880.00	2,293.94	73.07	4,372,100.00	2,186.05		-	-	1,225.00	30,566.00
7/25/2018	NW Quadrant	1,534.85	34,101.67	4,782,900.00	2,391.45	97.51	4,569,630.00	2,284.82		-	-	1,225.00	30,566.00
7/26/2018	NW Quadrant	1,514.81	35,616.48	4,979,840.00	2,489.92	98.47	4,764,600.00	2,382.30		-	-	1,225.00	30,566.00
7/27/2018	NW Quadrant	1,461.97	37,078.45	5,178,320.00	2,589.16	99.24	4,952,800.00	2,476.40		-	-	1,225.00	30,566.00
7/30/2018	NW Quadrant	1,565.70	38,644.15	5,373,020.00	2,686.51	97.35	5,154,240.00	2,577.12		-	-	1,225.00	30,566.00
7/31/2018	NW Quadrant	1,752.55	40,396.70	5,621,440.00	2,810.72	124.21	5,379,800.00	2,689.90	NW Quadrant	72.00	1,800.00	1,297.00	32,366.00
8/1/2018	NW Quadrant	1,611.11	42,007.81	5,816,330.00	2,908.17	97.45	5,588,170.00	2,794.09		-	-	1,297.00	32,366.00
8/2/2018	NW Quadrant	1,686.27	43,694.08	6,065,810.00	3,032.91	124.74	5,805,490.00	2,902.75	NW Quadrant	93.00	2,325.00	1,390.00	34,691.00
8/3/2018	NW Quadrant	1,022.30	44,716.38	6,114,590.00	3,057.30	24.39	5,937,120.00	2,968.56	NW Quadrant	98.00	2,450.00	1,488.00	37,141.00
8/6/2018	NE Quadrant								NE Quadrant	23.00	575.00	1,511.00	37,716.00
8/6/2018	NW Quadrant								NW Quadrant	24.00	600.00	1,535.00	38,316.00
8/7/2018	NE Quadrant								NE Quadrant	7.00	175.00	1,542.00	38,491.00
8/7/2018	NW Quadrant	1,699.42	46,415.80	6,366,770.00	3,183.39	126.09	6,112,150.00	3,056.08	NW Quadrant	96.00	2,400.00	1,638.00	40,891.00
8/8/2018	NW Quadrant	727.58	47,143.38	6,470,410.00	3,235.21	51.82	6,187,250.00	3,093.63	NW Quadrant	104.00	2,600.00	1,742.00	43,491.00
8/8/2018	S Quadrants	509.80	47,653.18	6,684,130.00	3,342.07	106.86	6,253,100.00	3,126.55					
8/9/2018	S Quadrants	982.75	48,635.93	6,781,090.00	3,390.55	48.48	6,381,780.00	3,190.89	NW Quadrant	102.00	2,550.00	1,844.00	46,041.00
8/10/2018	S Quadrants	1,175.71	49,811.64	6,927,090.00	3,463.55	73.00	6,533,160.00	3,266.58	NW Quadrant	103.00	2,575.00	1,947.00	48,616.00
8/13/2018	S Quadrants	1,187.82	50,999.46	7,070,370.00	3,535.19	71.64	6,689,320.00	3,344.66	NW Quadrant	91.00	2,275.00	2,038.00	50,891.00
8/14/2018	S Quadrants	1,488.78	52,488.24	7,268,550.00	3,634.28	99.09	6,881,170.00	3,440.59	NW Quadrant	91.00	2,275.00	2,129.00	53,166.00

Denotes Final Mixing on NE Quadrant

Denotes Final Mixing on NW Quadrant

Through: 8/14/2018

MIXING		Percent of P.O.	PORTLAND PERCENTAGES	
	52,091	CY Mix and Haul Set up in PO	100%	LBS/CY @ 5% 128.5
	52,488.24	CY Mixed to Date	101%	LBS/CY @ 6% 154.2
	(397.24)	CY Remaining to be mixed	-1%	(25.7 lbs/%)

HAULING

	53,166	CY Hauled to Landfill to Date
	2,129.00	Loads Hauled to Landfill to Date

ADD MIXTURE			TO DATE PORTLAND USAGE
	3,333.00	TN Add Mixture in PO	NE Plant Scale 2,875,800.00 LBS
	3,440.59	TN Used to Date	1,437.90 TN
	(107.59)	TN Available in PO	NW Plant Scale 3,311,450.00 LBS
	103.23%	Percent used to Date	1,655.73 TN
			S Plant Scale 693,920.00 LBS
			346.96 TN
			TOTAL TO DATE 6,881,170.00 LBS
			3,440.59 TN

Cubic Yards Mixed	52,488.24	CY
Portland Used	3,440.59	TN
Avg Lbs/CY Used	131.10	LBS/CY
Avg Percent Portland/CY to Date	5.10	%

		Projected
		(Amount Remaining in Current Tons Setup - Amount Required)
		Over (+) (Projected Surplus)
		Under (-) (Projected Shortfall)
Cubic Yards Remaining to be mixed:	(397.24) CY	
Remaining Portland Available in PO:	(107.59) TN	
Remaining Portland Req'd at 5%:	(25.52) TN	-82.06
Remaining Portland Req'd at 6%:	(30.63) TN	-76.96

DTE Unit 6 Scrubber Basins Land Improvement - CCR Removal

Date:	Area:	Mixed (CY):	To Date Mixed ALL Quadrants (CY):	Total Portland Delivered to Site BY Quadrant (LBS):	Total Portland Delivered to Site Running Total (LBS):	Total Portland Delivered to Site BY Quadrant (TN):	Total Portland Delivered to Site Daily ALL Quadrants (TN):	Total Portland Delivered to Site Running Total (TN):	To Date Portland Plant Scale ALL Quadrants (LBS):	To Date Portland Plant Scale ALL Quadrants (TN):	Removal Area:	Loads Removed (EA):	CY Removed (CY):	To Date Loads Removed (EA):	To Date CY Removed (EA):
6/15/2018	NE Quadrant	1,244.74	1,244.74	251,660.00	251,660.00	125.83	125.83	125.83	160,800.00	80.40		0	0	0	-
6/16/2018		-	1,244.74						160,800.00	80.40		0	0	0	-
6/17/2018		-	1,244.74						160,800.00	80.40		0	0	0	-
6/18/2018	NE Quadrant	1,112.92	2,357.66	412,320.00	412,320.00	206.16	206.16	206.16	305,600.00	152.80		0	0	0	-
6/19/2018	NE Quadrant	1,192.69	3,550.35	572,920.00	572,920.00	286.46	286.46	286.46	459,340.00	229.67		0	0	0	-
6/20/2018	NE Quadrant	1,088.88	4,639.23	733,220.00	733,220.00	366.61	366.61	366.61	601,430.00	300.72		0	0	0	-
6/21/2018	NE Quadrant	1,176.19	5,815.42	893,240.00	893,240.00	446.62	446.62	446.62	757,960.00	378.98		0	0	0	-
6/22/2018	NE Quadrant	708.73	6,524.15	1,000,600.00	1,000,600.00	500.30	500.30	500.30	848,610.00	424.31		0	0	0	-
6/23/2018		-	6,524.15						848,610.00	424.31		0	0	0	-
6/24/2018		-	6,524.15						848,610.00	424.31		0	0	0	-
6/25/2018	NE Quadrant	1,410.34	7,934.49	1,098,780.00	1,098,780.00	549.39	549.39	549.39	1,032,810.00	516.41		0	0	0	-
6/26/2018	NE Quadrant	1,115.75	9,050.24	1,246,900.00	1,246,900.00	623.45	623.45	623.45	1,196,680.00	598.34		0	0	0	-
6/27/2018	NE Quadrant	1,047.60	10,097.84	1,447,580.00	1,447,580.00	723.79	723.79	723.79	1,343,470.00	671.74		-	-	-	-
6/28/2018	NE Quadrant	948.96	11,046.80	1,594,960.00	1,594,960.00	797.48	797.48	797.48	1,495,940.00	747.97		-	-	-	-
6/29/2018	NE Quadrant	1,183.15	12,229.95	1,742,060.00	1,742,060.00	871.03	871.03	871.03	1,681,110.00	840.56		-	-	-	-
6/30/2018		-	12,229.95						1,681,110.00	840.56		-	-	-	-
7/1/2018		-	12,229.95						1,681,110.00	840.56		-	-	-	-
7/2/2018	NE Quadrant	1,222.27	13,452.22	1,988,100.00	1,988,100.00	994.05	994.05	994.05	1,870,410.00	935.21	NE Quadrant	59.00	1,416.00	59.00	1,416.00
7/3/2018	NE Quadrant	1,248.77	14,700.99	2,135,000.00	2,135,000.00	1,067.50	1,067.50	1,067.50	2,063,600.00	1,031.80	NE Quadrant	78.00	1,950.00	137.00	3,366.00
7/4/2018		-	14,700.99						2,063,600.00	1,031.80		-	-	137.00	3,366.00
7/5/2018	NE Quadrant	1,410.23	16,111.22	2,382,220.00	2,382,220.00	1,191.11	1,191.11	1,191.11	2,245,610.00	1,122.81	NE Quadrant	86.00	2,150.00	223.00	5,516.00
7/6/2018	NE Quadrant	1,283.07	17,394.29	2,530,560.00	2,530,560.00	1,265.28	1,265.28	1,265.28	2,411,400.00	1,205.70	NE Quadrant	68.00	1,700.00	291.00	7,216.00
7/7/2018		-	17,394.29						2,411,400.00	1,205.70		-	-	291.00	7,216.00
7/8/2018		-	17,394.29						2,411,400.00	1,205.70		-	-	291.00	7,216.00
7/9/2018	NE Quadrant	1,323.14	18,717.43	2,675,340.00	2,675,340.00	1,337.67	1,337.67	1,337.67	2,582,120.00	1,291.06	NE Quadrant	104.00	2,600.00	395.00	9,816.00
7/10/2018	NE Quadrant	1,392.31	20,109.74	2,874,680.00	2,874,680.00	1,437.34	1,437.34	1,437.34	2,767,590.00	1,383.80	NE Quadrant	102.00	2,550.00	497.00	12,366.00
7/11/2018	NE Quadrant	712.09	20,821.83	2,971,200.00	2,971,200.00	1,485.60	1,485.60	1,485.60	2,859,640.00	1,429.82	NE Quadrant	103.00	2,575.00	600.00	14,941.00
7/12/2018	NE Quadrant	117.37	20,939.20	3,020,020.00	3,020,020.00	1,510.01	1,510.01	1,510.01	2,875,800.00	1,437.90	NE Quadrant	98.00	2,450.00	698.00	17,391.00
7/12/2018	NW Quadrant	948.74	21,887.94	96,920.00	3,116,940.00	48.46	1,558.47	1,558.47	2,996,580.00	1,498.29		-	-	698.00	17,391.00
7/13/2018	NW Quadrant	1,012.46	22,900.40	241,840.00	3,261,860.00	120.92	1,630.93	1,630.93	3,128,210.00	1,564.11	NE Quadrant	105.00	2,625.00	803.00	20,016.00
7/14/2018		-	22,900.40						3,128,210.00	1,564.11		-	-	803.00	20,016.00
7/15/2018		-	22,900.40						3,128,210.00	1,564.11		-	-	803.00	20,016.00
7/16/2018	NW Quadrant	944.03	23,844.43	338,620.00	3,358,640.00	169.31	1,679.32	1,679.32	3,249,470.00	1,624.74	NE Quadrant	92.00	2,300.00	895.00	22,316.00
7/17/2018	NW Quadrant	1,399.47	25,243.90	484,060.00	3,504,080.00	242.03	1,752.04	1,752.04	3,429,580.00	1,714.79	NE Quadrant	96.00	2,400.00	991.00	24,716.00
7/18/2018	NW Quadrant	1,617.70	26,861.60	635,480.00	3,655,500.00	317.74	1,827.75	1,827.75	3,637,830.00	1,818.92	NE Quadrant	109.00	2,725.00	1,100.00	27,441.00
7/19/2018	NW Quadrant	1,210.15	28,071.75	883,160.00	3,903,180.00	441.58	1,951.59	1,951.59	3,793,630.00	1,896.82	NE Quadrant	84.00	2,100.00	1,184.00	29,541.00
7/20/2018	NW Quadrant	1,617.47	29,689.22	1,078,700.00	4,098,720.00	539.35	2,049.36	2,049.36	4,001,820.00	2,000.91	NE Quadrant	41.00	1,025.00	1,225.00	30,566.00
7/23/2018	NW Quadrant	1,488.71	31,177.93	1,276,760.00	4,296,780.00	638.38	2,148.39	2,148.39	4,193,360.00	2,096.68		-	-	1,225.00	30,566.00
7/24/2018	NW Quadrant	1,388.89	32,566.82	1,422,900.00	4,442,920.00	711.45	2,221.46	2,221.46	4,372,100.00	2,186.05		-	-	1,225.00	30,566.00
7/25/2018	NW Quadrant	1,534.85	34,101.67	1,617,920.00	4,637,940.00	808.96	2,318.97	2,318.97	4,569,630.00	2,284.82		-	-	1,225.00	30,566.00
7/26/2018	NW Quadrant	1,514.81	35,616.48	1,814,860.00	4,834,880.00	907.43	2,417.44	2,417.44	4,764,600.00	2,382.30		-	-	1,225.00	30,566.00
7/27/2018	NW Quadrant	1,461.97	37,078.45	2,013,340.00	5,033,360.00	1,006.67	2,516.68	2,516.68	4,952,800.00	2,476.40		-	-	1,225.00	30,566.00
7/30/2018	NW Quadrant	1,565.70	38,644.15	2,208,040.00	5,228,060.00	1,104.02	2,614.03	2,614.03	5,154,240.00	2,577.12		-	-	1,225.00	30,566.00
7/31/2018	NW Quadrant	1,752.55	40,396.70	2,456,460.00	5,476,480.00	1,228.23	2,738.24	2,738.24	5,379,800.00	2,689.90	NW Quadrant	72.00	1,800.00	1,297.00	32,366.00
8/1/2018	NW Quadrant	1,611.11	42,007.81	2,651,350.00	5,671,370.00	1,325.68	2,835.69	2,835.69	5,588,170.00	2,794.09		-	-	1,297.00	32,366.00
8/2/2018	NW Quadrant	1,686.27	43,694.08	2,900,830.00	5,920,850.00	1,450.42	2,960.43	2,960.43	5,805,490.00	2,902.75	NW Quadrant	93.00	2,325.00	1,390.00	34,691.00
8/3/2018	NW Quadrant	1,022.30	44,716.38	2,949,610.00	5,969,630.00	1,474.81	2,984.82	2,984.82	5,937,120.00	2,968.56	NW Quadrant	98.00	2,450.00	1,488.00	37,141.00
8/6/2018	NE Quadrant										NE Quadrant	23.00	575.00	1,511.00	37,716.00
8/6/2018	NW Quadrant										NW Quadrant	24.00	600.00	1,535.00	38,316.00
8/7/2018	NE Quadrant										NE Quadrant	7.00	175.00	1,542.00	38,491.00
8/7/2018	NW Quadrant	1,699.42	46,415.80	3,201,790.00	6,221,810.00	1,600.90	3,110.91	3,110.91	6,112,150.00	3,056.08	NW Quadrant	96.00	2,400.00	1,638.00	40,891.00
8/8/2018	NW Quadrant	727.58	47,143.38	3,305,430.00	6,325,450.00	1,652.72	3,162.73	3,162.73	6,187,250.00	3,093.63	NW Quadrant	104.00	2,600.00	1,742.00	43,491.00
8/8/2018	S Quadrants	509.80	47,653.18	213,720.00	6,539,170.00	106.86	3,269.59	3,269.59	6,253,100.00	3,126.55					
8/9/2018	S Quadrants	982.75	48,635.93	310,680.00	6,636,130.00	155.34	3,318.07	3,318.07	6,381,780.00	3,190.89	NW Quadrant	102.00	2,550.00	1,844.00	46,041.00
8/10/2018	S Quadrants	1,175.71	49,811.64	456,680.00	6,782,130.00	228.34	3,391.07	3,391.07	6,533,160.00	3,266.58	NW Quadrant	103.00	2,575.00	1,947.00	48,616.00
8/13/2018	S Quadrants	1,187.82	50,999.46	599,960.00	6,925,410.00	299.98	3,462.71	3,462.71	6,689,320.00	3,344.66	NW Quadrant	91.00	2,275.00	2,038.00	50,891.00
8/14/2018	S Quadrants	1,488.78	52,488.24	798,140.00	7,123,590.00	399.07	3,561.80	3,561.80	6,881,170.00	3,440.59	NW Quadrant	91.00	2,275.00	2,129.00	53,166.00
8/15/2018	S Quadrants	1,511.04	53,999.28	1,046,400.00	7,371,850.00	523.20	3,685.93	3,685.93	7,074,690.00	3,537.35	NW Quadrant	93.00	2,325.00	2,222.00	55,491.00
8/16/2018	S Quadrants	459.95	54,459.23	1,094,480.00	7,419,930.00	547.24	3,709.97	3,709.97	7,134,270.00	3,567.14	NW Quadrant	30.00	750.00	2,252.00	56,241.00
TOTALS				7,419,930.00 LBS	7,419,930.00 LBS	3,709.97 TN	3,709.97 TN	3,709.97 TN							

Denotes Final Mixing on NE Quadrant

Denotes Final Mixing on NW Quadrant

TOTALS BY QUADRANT	NE QUAD	NW QUAD	SOUTH QUADS	TOTAL
Portland Delivered (TONS)	1,510.01	1,652.72	547.24	3,709.97

Through: 8/16/2018

MIXING		Percent of P.O.	PORTLAND PERCENTAGES	
	52,091	CY Mix and Haul Set up in PO	100%	LBS/CY @ 5% 128.5
	54,459.23	CY Mixed to Date	105%	LBS/CY @ 6% 154.2
	(2,368.23)	CY Remaining to be mixed	-5%	(25.7 lbs/%)

HAULING

	56,241	CY Hauled to Landfill to Date
	2,252	Loads Hauled to Landfill to Date

ADD MIXTURE			TO DATE PORTLAND USAGE
	3,333.00	TN Add Mixture in PO	NE Plant Scale 2,875,800.00 LBS
	3,567.14	TN Used to Date	1,437.90 TN
	(234.14)	TN Available in PO	NW Plant Scale 3,311,450.00 LBS
	107.02%	Percent used to Date	1,655.73 TN
			S Plant Scale 947,020.00 LBS
			473.51 TN
			TOTAL TO DATE 7,134,270.00 LBS
			3,567.14 TN

Cubic Yards Mixed	54,459.23	CY
Portland Used	3,567.14	TN
Avg Lbs/CY Used	131.00	LBS/CY
Avg Percent Portland/CY to Date	5.10	%

		Projected (Amount Remaining in Current Tons Setup - Amount Required) Over (+) (Projected Surplus) Under (-) (Projected Shortfall)
Cubic Yards Remaining to be mixed:	(2,368.23) CY	
Remaining Portland Available in PO:	(234.14) TN	
Remaining Portland Req'd at 5%:	(152.16) TN	-81.98
Remaining Portland Req'd at 6%:	(182.59) TN	-51.54

Through: 8/22/2018

MIXING		Percent of P.O.	PORTLAND PERCENTAGES	
	52,091	CY Mix and Haul Set up in PO	100%	LBS/CY @ 5% 128.5
	58,882.69	CY Mixed to Date	113%	LBS/CY @ 6% 154.2
	(6,791.69)	CY Remaining to be mixed	-13%	(25.7 lbs/%)

HAULING

	64,291	CY Hauled to Landfill to Date
	2,471	Loads Hauled to Landfill to Date

ADD MIXTURE			TO DATE PORTLAND USAGE
	3,333.00	TN Add Mixture in PO	NE Plant Scale 2,875,800.00 LBS
	3,934.34	TN Used to Date	1,437.90 TN
	(601.34)	TN Available in PO	NW Plant Scale 3,311,450.00 LBS
	118.04%	Percent used to Date	1,655.73 TN
			S Plant Scale 1,681,420.00 LBS
			840.71 TN
			TOTAL TO DATE 7,868,670.00 LBS
			3,934.34 TN

Cubic Yards Mixed	58,882.69	CY
Portland Used	3,934.34	TN
Avg Lbs/CY Used	133.63	LBS/CY
Avg Percent Portland/CY to Date	5.20	%

		Projected
		(Amount Remaining in Current Tons Setup - Amount Required)
		Over (+) (Projected Surplus)
		Under (-) (Projected Shortfall)
Cubic Yards Remaining to be mixed:	(6,791.69) CY	
Remaining Portland Available in PO:	(601.34) TN	
Remaining Portland Req'd at 5%:	(436.37) TN	-164.97
Remaining Portland Req'd at 6%:	(523.64) TN	-77.70

Through: 8/24/2018

MIXING		Percent of P.O.	PORTLAND PERCENTAGES	
	52,091	CY Mix and Haul Set up in PO	100%	LBS/CY @ 5% 128.5
	60,346.67	CY Mixed to Date	116%	LBS/CY @ 6% 154.2
	(8,255.67)	CY Remaining to be mixed	-16%	(25.7 lbs/%)

HAULING

	66,041	CY Hauled to Landfill to Date
	2,644	Loads Hauled to Landfill to Date

ADD MIXTURE			TO DATE PORTLAND USAGE	
	3,333.00	TN Add Mixture in PO	NE Plant Scale	2,875,800.00 LBS
	3,946.16	TN Used to Date		1,437.90 TN
	(613.16)	TN Available in PO	NW Plant Scale	3,311,450.00 LBS
	118.40%	Percent used to Date		1,655.73 TN
			S Plant Scale	1,778,520.00 LBS
				889.26 TN
			TOTAL TO DATE	7,965,770.00 LBS
				3,982.89 TN

Cubic Yards Mixed	60,346.67	CY
Portland Used	3,946.16	TN
Avg Lbs/CY Used	130.78	LBS/CY
Avg Percent Portland/CY to Date	5.09	%

		Projected	
		(Amount Remaining in Current Tons Setup - Amount Required)	
		Over (+) (Projected Surplus)	
		Under (-) (Projected Shortfall)	
Cubic Yards Remaining to be mixed:	(8,255.67) CY		
Remaining Portland Available in PO:	(613.16) TN		
Remaining Portland Req'd at 5%:	(530.43) TN	-82.73	
Remaining Portland Req'd at 6%:	(636.51) TN	23.36	

Through: 8/27/2018

MIXING		Percent of P.O.	PORTLAND PERCENTAGES	
	52,091	CY Mix and Haul Set up in PO	100%	LBS/CY @ 5% 128.5
	61,732.12	CY Mixed to Date	119%	LBS/CY @ 6% 154.2
	(9,641.12)	CY Remaining to be mixed	-19%	(25.7 lbs/%)

HAULING

	66,041	CY Hauled to Landfill to Date
	2,644	Loads Hauled to Landfill to Date

ADD MIXTURE			TO DATE PORTLAND USAGE
	3,333.00	TN Add Mixture in PO	NE Plant Scale 2,875,800.00 LBS
	4,035.38	TN Used to Date	1,437.90 TN
	(702.38)	TN Available in PO	NW Plant Scale 3,311,450.00 LBS
	121.07%	Percent used to Date	1,655.73 TN
			S Plant Scale 1,883,510.00 LBS
			941.76 TN
			TOTAL TO DATE 8,070,760.00 LBS
			4,035.38 TN

Cubic Yards Mixed 61,732.12 CY
 Portland Used 4,035.38 TN
 Avg Lbs/CY Used 130.74 LBS/CY
 Avg Percent Portland/CY to Date 5.09 %

		Projected (Amount Remaining in Current Tons Setup - Amount Required) Over (+) (Projected Surplus) Under (-) (Projected Shortfall)
Cubic Yards Remaining to be mixed:	(9,641.12) CY	
Remaining Portland Available in PO:	(702.38) TN	
Remaining Portland Req'd at 5%:	(619.44) TN	-82.94
Remaining Portland Req'd at 6%:	(743.33) TN	40.95

Through: 8/28/2018

MIXING		Percent of P.O.	PORTLAND PERCENTAGES	
	52,091	CY Mix and Haul Set up in PO	100%	LBS/CY @ 5% 128.5
	61,732.12	CY Mixed to Date	119%	LBS/CY @ 6% 154.2
	(9,641.12)	CY Remaining to be mixed	-19%	(25.7 lbs/%)

HAULING

	66,041	CY Hauled to Landfill to Date
	2,644	Loads Hauled to Landfill to Date

ADD MIXTURE			TO DATE PORTLAND USAGE
	3,333.00	TN Add Mixture in PO	NE Plant Scale 2,875,800.00 LBS
	4,035.38	TN Used to Date	1,437.90 TN
	(702.38)	TN Available in PO	NW Plant Scale 3,311,450.00 LBS
	121.07%	Percent used to Date	1,655.73 TN
			S Plant Scale 1,883,510.00 LBS
			941.76 TN
			TOTAL TO DATE 8,070,760.00 LBS
			4,035.38 TN

Cubic Yards Mixed	61,732.12	CY
Portland Used	4,035.38	TN
Avg Lbs/CY Used	130.74	LBS/CY
Avg Percent Portland/CY to Date	5.09	%

		Projected
		(Amount Remaining in Current Tons Setup - Amount Required)
		Over (+) (Projected Surplus)
		Under (-) (Projected Shortfall)
Cubic Yards Remaining to be mixed:	(9,641.12) CY	
Remaining Portland Available in PO:	(702.38) TN	
Remaining Portland Req'd at 5%:	(619.44) TN	-82.94
Remaining Portland Req'd at 6%:	(743.33) TN	40.95

Through: 8/30/2018

		Percent	PORTLAND PERCENTAGES	
MIXING		of P.O.	LBS/CY @ 5%	
52,091	CY Mix and Haul Set up in PO	100%	128.5	
67,141.71	CY Mixed to Date	129%	154.2	
(15,050.71)	CY Remaining to be mixed	-29%	(25.7 lbs/%)	

HAULING

66,041	CY Hauled to Landfill to Date
2,644	Loads Hauled to Landfill to Date

ADD MIXTURE		TO DATE PORTLAND USAGE	
3,333.00	TN Add Mixture in PO	NE Plant Scale	2,875,800.00 LBS
4,383.56	TN Used to Date		1,437.90 TN
(1,050.56)	TN Available in PO	NW Plant Scale	3,311,450.00 LBS
131.52%	Percent used to Date		1,655.73 TN
		S Plant Scale	2,579,870.00 LBS
			1,289.94 TN
		TOTAL TO DATE	8,767,120.00 LBS
			4,383.56 TN

Cubic Yards Mixed 67,141.71 CY
 Portland Used 4,383.56 TN
 Avg Lbs/CY Used 130.58 LBS/CY
 Avg Percent Portland/CY to Date 5.08 %

		Projected
		(Amount Remaining in Current Tons Setup - Amount Required)
		Over (+) (Projected Surplus)
		Under (-) (Projected Shortfall)
Cubic Yards Remaining to be mixed:	(15,050.71) CY	
Remaining Portland Available in PO:	(1,050.56) TN	
Remaining Portland Req'd at 5%:	(967.01) TN	-83.55
Remaining Portland Req'd at 6%:	(1,160.41) TN	109.85

Through: 8/30/2018

		Percent	PORTLAND PERCENTAGES	
MIXING		of P.O.	LBS/CY @ 5%	
	52,091 CY Mix and Haul Set up in PO	100%		128.5
	68,987.41 CY Mixed to Date	132%	LBS/CY @ 6%	154.2
	(16,896.41) CY Remaining to be mixed	-32%	(25.7 lbs/%)	

HAULING

66,041	CY Hauled to Landfill to Date
2,644	Loads Hauled to Landfill to Date

ADD MIXTURE		TO DATE PORTLAND USAGE	
3,333.00	TN Add Mixture in PO	NE Plant Scale	2,875,800.00 LBS
4,492.45	TN Used to Date		1,437.90 TN
(1,159.45)	TN Available in PO	NW Plant Scale	3,311,450.00 LBS
134.79%	Percent used to Date		1,655.73 TN
		S Plant Scale	2,797,640.00 LBS
			1,398.82 TN
		TOTAL TO DATE	8,984,890.00 LBS
			4,492.45 TN

Cubic Yards Mixed 68,987.41 CY
 Portland Used 4,492.45 TN
 Avg Lbs/CY Used 130.24 LBS/CY
 Avg Percent Portland/CY to Date 5.07 %

		Projected
		(Amount Remaining in Current Tons Setup - Amount Required)
		Over (+) (Projected Surplus)
		Under (-) (Projected Shortfall)
Cubic Yards Remaining to be mixed:	(16,896.41) CY	
Remaining Portland Available in PO:	(1,159.45) TN	
Remaining Portland Req'd at 5%:	(1,085.59) TN	-73.85
Remaining Portland Req'd at 6%:	(1,302.71) TN	143.27

Through: 9/4/2018

		Percent	PORTLAND PERCENTAGES	
MIXING		of P.O.	LBS/CY @ 5%	
	52,091 CY Mix and Haul Set up in PO	100%		128.5
	70,990.93 CY Mixed to Date	136%	LBS/CY @ 6%	154.2
	(18,899.93) CY Remaining to be mixed	-36%	(25.7 lbs/%)	

HAULING

66,041	CY Hauled to Landfill to Date
2,644	Loads Hauled to Landfill to Date

ADD MIXTURE

3,333.00	TN Add Mixture in PO
4,603.05	TN Used to Date
(1,270.05)	TN Available in PO
138.11%	Percent used to Date

TO DATE PORTLAND USAGE

NE Plant Scale	2,875,800.00	LBS
	1,437.90	TN
NW Plant Scale	3,311,450.00	LBS
	1,655.73	TN
S Plant Scale	3,018,840.00	LBS
	1,509.42	TN
TOTAL TO DATE	9,206,090.00	LBS
	4,603.05	TN

Cubic Yards Mixed	70,990.93	CY
Portland Used	4,603.05	TN
Avg Lbs/CY Used	129.68	LBS/CY
Avg Percent Portland/CY to Date	5.05	%

		Projected
		(Amount Remaining in Current Tons Setup - Amount Required)
		Over (+) (Projected Surplus)
		Under (-) (Projected Shortfall)
Cubic Yards Remaining to be mixed:	(18,899.93) CY	
Remaining Portland Available in PO:	(1,270.05) TN	
Remaining Portland Req'd at 5%:	(1,214.32) TN	-55.72
Remaining Portland Req'd at 6%:	(1,457.18) TN	187.14

Through: 9/5/2018

		Percent	PORTLAND PERCENTAGES	
MIXING		of P.O.	LBS/CY @ 5%	
	52,091 CY Mix and Haul Set up in PO	100%		128.5
	72,339.37 CY Mixed to Date	139%		154.2
	(20,248.37) CY Remaining to be mixed	-39%	(25.7 lbs/%)	

HAULING

68,541	CY Hauled to Landfill to Date
2,744	Loads Hauled to Landfill to Date

ADD MIXTURE

3,333.00	TN Add Mixture in PO
4,686.04	TN Used to Date
(1,353.04)	TN Available in PO
140.60%	Percent used to Date

TO DATE PORTLAND USAGE

NE Plant Scale	2,875,800.00	LBS
	1,437.90	TN
NW Plant Scale	3,311,450.00	LBS
	1,655.73	TN
S Plant Scale	3,184,820.00	LBS
	1,592.41	TN
TOTAL TO DATE	9,372,070.00	LBS
	4,686.04	TN

Cubic Yards Mixed	72,339.37	CY
Portland Used	4,686.04	TN
Avg Lbs/CY Used	129.56	LBS/CY
Avg Percent Portland/CY to Date	5.04	%

		Projected
		(Amount Remaining in Current Tons Setup - Amount Required)
		Over (+) (Projected Surplus)
		Under (-) (Projected Shortfall)
Cubic Yards Remaining to be mixed:	(20,248.37) CY	
Remaining Portland Available in PO:	(1,353.04) TN	
Remaining Portland Req'd at 5%:	(1,300.96) TN	-52.08
Remaining Portland Req'd at 6%:	(1,561.15) TN	208.11

Through: 9/6/2018

		Percent	PORTLAND PERCENTAGES	
MIXING		of P.O.	LBS/CY @ 5%	
	52,091 CY Mix and Haul Set up in PO	100%		128.5
	73,077.47 CY Mixed to Date	140%	LBS/CY @ 6%	154.2
	(20,986.47) CY Remaining to be mixed	-40%	(25.7 lbs/%)	

HAULING

68,541	CY Hauled to Landfill to Date
2,744	Loads Hauled to Landfill to Date

ADD MIXTURE

3,333.00	TN Add Mixture in PO
4,731.33	TN Used to Date
(1,398.33)	TN Available in PO
141.95%	Percent used to Date

TO DATE PORTLAND USAGE

NE Plant Scale	2,875,800.00	LBS
	1,437.90	TN
NW Plant Scale	3,311,450.00	LBS
	1,655.73	TN
S Plant Scale	3,275,410.00	LBS
	1,637.71	TN
TOTAL TO DATE	9,462,660.00	LBS
	4,731.33	TN

Cubic Yards Mixed	73,077.47	CY
Portland Used	4,731.33	TN
Avg Lbs/CY Used	129.49	LBS/CY
Avg Percent Portland/CY to Date	5.04	%

		Projected
		(Amount Remaining in Current Tons Setup - Amount Required)
		Over (+) (Projected Surplus)
		Under (-) (Projected Shortfall)
Cubic Yards Remaining to be mixed:	(20,986.47) CY	
Remaining Portland Available in PO:	(1,398.33) TN	
Remaining Portland Req'd at 5%:	(1,348.38) TN	-49.95
Remaining Portland Req'd at 6%:	(1,618.06) TN	219.73

Through: 9/7/2018

MIXING		Percent of P.O.	PORTLAND PERCENTAGES	
	52,091	CY Mix and Haul Set up in PO	100%	LBS/CY @ 5% 128.5
	73,077.47	CY Mixed to Date	140%	LBS/CY @ 6% 154.2
	(20,986.47)	CY Remaining to be mixed	-40%	(25.7 lbs/%)

HAULING

	70,941	CY Hauled to Landfill to Date
	2,840	Loads Hauled to Landfill to Date

ADD MIXTURE

	3,333.00	TN Add Mixture in PO
	4,731.33	TN Used to Date
	(1,398.33)	TN Available in PO
	141.95%	Percent used to Date

TO DATE PORTLAND USAGE

NE Plant Scale	2,875,800.00	LBS
	1,437.90	TN
NW Plant Scale	3,311,450.00	LBS
	1,655.73	TN
S Plant Scale	3,275,410.00	LBS
	1,637.71	TN
TOTAL TO DATE	9,462,660.00	LBS
	4,731.33	TN

Cubic Yards Mixed	73,077.47	CY
Portland Used	4,731.33	TN
Avg Lbs/CY Used	129.49	LBS/CY
Avg Percent Portland/CY to Date	5.04	%

		Projected (Amount Remaining in Current Tons Setup - Amount Required)
		Over (+) (Projected Surplus)
		Under (-) (Projected Shortfall)
Cubic Yards Remaining to be mixed:	(20,986.47) CY	
Remaining Portland Available in PO:	(1,398.33) TN	
Remaining Portland Req'd at 5%:	(1,348.38) TN	-49.95
Remaining Portland Req'd at 6%:	(1,618.06) TN	219.73

Through: 9/7/2018

MIXING		Percent of P.O.	PORTLAND PERCENTAGES	
	52,091	CY Mix and Haul Set up in PO	100%	LBS/CY @ 5% 128.5
	73,077.47	CY Mixed to Date	140%	LBS/CY @ 6% 154.2
	(20,986.47)	CY Remaining to be mixed	-40%	(25.7 lbs/%)

HAULING

	70,941	CY Hauled to Landfill to Date
	2,840	Loads Hauled to Landfill to Date

ADD MIXTURE

	3,333.00	TN Add Mixture in PO
	4,731.33	TN Used to Date
	(1,398.33)	TN Available in PO
	141.95%	Percent used to Date

TO DATE PORTLAND USAGE

NE Plant Scale	2,875,800.00	LBS
	1,437.90	TN
NW Plant Scale	3,311,450.00	LBS
	1,655.73	TN
S Plant Scale	3,275,410.00	LBS
	1,637.71	TN
TOTAL TO DATE	9,462,660.00	LBS
	4,731.33	TN

Cubic Yards Mixed	73,077.47	CY
Portland Used	4,731.33	TN
Avg Lbs/CY Used	129.49	LBS/CY
Avg Percent Portland/CY to Date	5.04	%

		Projected (Amount Remaining in Current Tons Setup - Amount Required)
		Over (+) (Projected Surplus)
		Under (-) (Projected Shortfall)
Cubic Yards Remaining to be mixed:	(20,986.47) CY	
Remaining Portland Available in PO:	(1,398.33) TN	
Remaining Portland Req'd at 5%:	(1,348.38) TN	-49.95
Remaining Portland Req'd at 6%:	(1,618.06) TN	219.73

Through: 9/12/2018

		Percent	PORTLAND PERCENTAGES	
MIXING		of P.O.	LBS/CY @ 5%	
	52,091 CY Mix and Haul Set up in PO	100%	128.5	
	73,077.47 CY Mixed to Date	140%	154.2	
	(20,986.47) CY Remaining to be mixed	-40%	(25.7 lbs/%)	

HAULING

70,941	CY Hauled to Landfill to Date
2,840	Loads Hauled to Landfill to Date

ADD MIXTURE

3,333.00	TN Add Mixture in PO
4,731.33	TN Used to Date
(1,398.33)	TN Available in PO
141.95%	Percent used to Date

TO DATE PORTLAND USAGE

NE Plant Scale	2,875,800.00	LBS
	1,437.90	TN
NW Plant Scale	3,311,450.00	LBS
	1,655.73	TN
S Plant Scale	3,275,410.00	LBS
	1,637.71	TN
TOTAL TO DATE	9,462,660.00	LBS
	4,731.33	TN

Cubic Yards Mixed	73,077.47	CY
Portland Used	4,731.33	TN
Avg Lbs/CY Used	129.49	LBS/CY
Avg Percent Portland/CY to Date	5.04	%

		Projected
		(Amount Remaining in Current Tons Setup - Amount Required)
		Over (+) (Projected Surplus)
		Under (-) (Projected Shortfall)
Cubic Yards Remaining to be mixed:	(20,986.47) CY	
Remaining Portland Available in PO:	(1,398.33) TN	
Remaining Portland Req'd at 5%:	(1,348.38) TN	-49.95
Remaining Portland Req'd at 6%:	(1,618.06) TN	219.73

Through: 9/13/2018

		Percent	PORTLAND PERCENTAGES	
MIXING		of P.O.	LBS/CY @ 5%	
	52,091 CY Mix and Haul Set up in PO	100%		128.5
	73,077.47 CY Mixed to Date	140%	LBS/CY @ 6%	154.2
	(20,986.47) CY Remaining to be mixed	-40%	(25.7 lbs/%)	

HAULING

70,941	CY Hauled to Landfill to Date
2,840	Loads Hauled to Landfill to Date

ADD MIXTURE		TO DATE PORTLAND USAGE	
3,333.00	TN Add Mixture in PO	NE Plant Scale	2,875,800.00 LBS
4,731.33	TN Used to Date		1,437.90 TN
(1,398.33)	TN Available in PO	NW Plant Scale	3,311,450.00 LBS
141.95%	Percent used to Date		1,655.73 TN
		S Plant Scale	3,275,410.00 LBS
			1,637.71 TN
		TOTAL TO DATE	9,462,660.00 LBS
			4,731.33 TN

Cubic Yards Mixed 73,077.47 CY
 Portland Used 4,731.33 TN
 Avg Lbs/CY Used 129.49 LBS/CY
 Avg Percent Portland/CY to Date 5.04 %

		Projected
		(Amount Remaining in Current Tons Setup - Amount Required)
		Over (+) (Projected Surplus)
		Under (-) (Projected Shortfall)
Cubic Yards Remaining to be mixed:	(20,986.47) CY	
Remaining Portland Available in PO:	(1,398.33) TN	
Remaining Portland Req'd at 5%:	(1,348.38) TN	-49.95
Remaining Portland Req'd at 6%:	(1,618.06) TN	219.73

DTE Unit 6 Scrubber Basins Land Improvement - CCR Removal

Table with columns: Date, Area, Mixed (CY), All Quadrants (CY), Total Portland Delivered to Site (LBS), Total Portland Delivered to Site Running Total (LBS), Total Portland Delivered to Site (TN), Total Portland Delivered to Site Daily (TN), Total Portland Delivered to Site Running Total (TN), To Date Plant Scale (LBS), To Date Plant Scale (TN), Removal Area, Loads Removed (EA), CY Removed (CY), To Date Loads Removed (EA), To Date CY Removed (EA)

Denotes Final Mixing on NE Quadrant

Denotes Final Mixing on NW Quadrant

TOTALS BY QUADRANT: NE QUAD 1,510.01, NW QUAD 1,663.72, SOUTH QUADS 1,663.16, TOTAL 4,825.89

Table: MIX AND REMOVE. NE: 31,941.00, NW: 34,100.00, SOUTH: 15,450.00, Total: 81,491.00

Through: 9/14/2018

		Percent	PORTLAND PERCENTAGES	
		of P.O.	LBS/CY @ 5%	
MIXING	52,091	100%	128.5	
	73,077.47	140%	154.2	
	(20,986.47)	-40%	(25.7 lbs/%)	

HAULING

	81,491	CY Hauled to Landfill to Date
	3,262	Loads Hauled to Landfill to Date

ADD MIXTURE

	3,333.00	TN Add Mixture in PO
	4,731.33	TN Used to Date
	(1,398.33)	TN Available in PO
	141.95%	Percent used to Date

TO DATE PORTLAND USAGE

NE Plant Scale	2,875,800.00	LBS
	1,437.90	TN
NW Plant Scale	3,311,450.00	LBS
	1,655.73	TN
S Plant Scale	3,275,410.00	LBS
	1,637.71	TN
TOTAL TO DATE	9,462,660.00	LBS
	4,731.33	TN

Cubic Yards Mixed	73,077.47	CY
Portland Used	4,731.33	TN
Avg Lbs/CY Used	129.49	LBS/CY
Avg Percent Portland/CY to Date	5.04	%

		Projected
		(Amount Remaining in Current Tons Setup - Amount Required)
		Over (+) (Projected Surplus)
		Under (-) (Projected Shortfall)
Cubic Yards Remaining to be mixed:	(20,986.47) CY	
Remaining Portland Available in PO:	(1,398.33) TN	
Remaining Portland Req'd at 5%:	(1,348.38) TN	-49.95
Remaining Portland Req'd at 6%:	(1,618.06) TN	219.73

Through: 9/17/2018

		Percent	PORTLAND PERCENTAGES	
MIXING		of P.O.	LBS/CY @ 5%	
	52,091 CY Mix and Haul Set up in PO	100%		128.5
	73,077.47 CY Mixed to Date	140%	LBS/CY @ 6%	154.2
	(20,986.47) CY Remaining to be mixed	-40%	(25.7 lbs/%)	

HAULING

83,991	CY Hauled to Landfill to Date
3,362	Loads Hauled to Landfill to Date

ADD MIXTURE

3,333.00	TN Add Mixture in PO
4,731.33	TN Used to Date
(1,398.33)	TN Available in PO
141.95%	Percent used to Date

TO DATE PORTLAND USAGE

NE Plant Scale	2,875,800.00	LBS
	1,437.90	TN
NW Plant Scale	3,311,450.00	LBS
	1,655.73	TN
S Plant Scale	3,275,410.00	LBS
	1,637.71	TN
TOTAL TO DATE	9,462,660.00	LBS
	4,731.33	TN

Cubic Yards Mixed	73,077.47	CY
Portland Used	4,731.33	TN
Avg Lbs/CY Used	129.49	LBS/CY
Avg Percent Portland/CY to Date	5.04	%

		Projected
		(Amount Remaining in Current Tons Setup - Amount Required)
		Over (+) (Projected Surplus)
		Under (-) (Projected Shortfall)
Cubic Yards Remaining to be mixed:	(20,986.47) CY	
Remaining Portland Available in PO:	(1,398.33) TN	
Remaining Portland Req'd at 5%:	(1,348.38) TN	-49.95
Remaining Portland Req'd at 6%:	(1,618.06) TN	219.73

Through: 9/18/2018

		Percent	PORTLAND PERCENTAGES	
MIXING		of P.O.	LBS/CY @ 5%	
	52,091 CY Mix and Haul Set up in PO	100%	128.5	
	73,077.47 CY Mixed to Date	140%	154.2	
	(20,986.47) CY Remaining to be mixed	-40%	(25.7 lbs/%)	

HAULING

86,491	CY Hauled to Landfill to Date
3,462	Loads Hauled to Landfill to Date

ADD MIXTURE

3,333.00	TN Add Mixture in PO
4,731.33	TN Used to Date
(1,398.33)	TN Available in PO
141.95%	Percent used to Date

TO DATE PORTLAND USAGE

NE Plant Scale	2,875,800.00	LBS
	1,437.90	TN
NW Plant Scale	3,311,450.00	LBS
	1,655.73	TN
S Plant Scale	3,275,410.00	LBS
	1,637.71	TN
TOTAL TO DATE	9,462,660.00	LBS
	4,731.33	TN

Cubic Yards Mixed	73,077.47	CY
Portland Used	4,731.33	TN
Avg Lbs/CY Used	129.49	LBS/CY
Avg Percent Portland/CY to Date	5.04	%

		Projected
		(Amount Remaining in Current Tons Setup - Amount Required)
		Over (+) (Projected Surplus)
		Under (-) (Projected Shortfall)
Cubic Yards Remaining to be mixed:	(20,986.47) CY	
Remaining Portland Available in PO:	(1,398.33) TN	
Remaining Portland Req'd at 5%:	(1,348.38) TN	-49.95
Remaining Portland Req'd at 6%:	(1,618.06) TN	219.73

Through: 9/19/2018

		Percent	PORTLAND PERCENTAGES	
MIXING		of P.O.	LBS/CY @ 5%	
	52,091 CY Mix and Haul Set up in PO	100%	128.5	
	73,077.47 CY Mixed to Date	140%	154.2	
	(20,986.47) CY Remaining to be mixed	-40%	(25.7 lbs/%)	

HAULING

89,066	CY Hauled to Landfill to Date
3,565	Loads Hauled to Landfill to Date

ADD MIXTURE

3,333.00	TN Add Mixture in PO
4,731.33	TN Used to Date
(1,398.33)	TN Available in PO
141.95%	Percent used to Date

TO DATE PORTLAND USAGE

NE Plant Scale	2,875,800.00	LBS
	1,437.90	TN
NW Plant Scale	3,311,450.00	LBS
	1,655.73	TN
S Plant Scale	3,275,410.00	LBS
	1,637.71	TN
TOTAL TO DATE	9,462,660.00	LBS
	4,731.33	TN

Cubic Yards Mixed	73,077.47	CY
Portland Used	4,731.33	TN
Avg Lbs/CY Used	129.49	LBS/CY
Avg Percent Portland/CY to Date	5.04	%

		Projected
		(Amount Remaining in Current Tons Setup - Amount Required)
		Over (+) (Projected Surplus)
		Under (-) (Projected Shortfall)
Cubic Yards Remaining to be mixed:	(20,986.47) CY	
Remaining Portland Available in PO:	(1,398.33) TN	
Remaining Portland Req'd at 5%:	(1,348.38) TN	-49.95
Remaining Portland Req'd at 6%:	(1,618.06) TN	219.73

Through: 9/20/2018

		Percent	PORTLAND PERCENTAGES	
MIXING		of P.O.	LBS/CY @ 5%	
	52,091 CY Mix and Haul Set up in PO	100%	128.5	
	73,077.47 CY Mixed to Date	140%	154.2	
	(20,986.47) CY Remaining to be mixed	-40%	(25.7 lbs/%)	

HAULING

89,866	CY Hauled to Landfill to Date
3,597	Loads Hauled to Landfill to Date

ADD MIXTURE

3,333.00	TN Add Mixture in PO
4,731.33	TN Used to Date
(1,398.33)	TN Available in PO
141.95%	Percent used to Date

TO DATE PORTLAND USAGE

NE Plant Scale	2,875,800.00	LBS
	1,437.90	TN
NW Plant Scale	3,311,450.00	LBS
	1,655.73	TN
S Plant Scale	3,275,410.00	LBS
	1,637.71	TN
TOTAL TO DATE	9,462,660.00	LBS
	4,731.33	TN

Cubic Yards Mixed	73,077.47	CY
Portland Used	4,731.33	TN
Avg Lbs/CY Used	129.49	LBS/CY
Avg Percent Portland/CY to Date	5.04	%

		Projected
		(Amount Remaining in Current Tons Setup - Amount Required)
		Over (+) (Projected Surplus)
		Under (-) (Projected Shortfall)
Cubic Yards Remaining to be mixed:	(20,986.47) CY	
Remaining Portland Available in PO:	(1,398.33) TN	
Remaining Portland Req'd at 5%:	(1,348.38) TN	-49.95
Remaining Portland Req'd at 6%:	(1,618.06) TN	219.73

Through: 9/24/2018

		Percent	PORTLAND PERCENTAGES	
MIXING		of P.O.	LBS/CY @ 5%	
	52,091 CY Mix and Haul Set up in PO	100%		128.5
	73,077.47 CY Mixed to Date	140%		154.2
	(20,986.47) CY Remaining to be mixed	-40%	(25.7 lbs/%)	

HAULING

94,566	CY Hauled to Landfill to Date
3,785	Loads Hauled to Landfill to Date

ADD MIXTURE

3,333.00	TN Add Mixture in PO
4,731.33	TN Used to Date
(1,398.33)	TN Available in PO
141.95%	Percent used to Date

TO DATE PORTLAND USAGE

NE Plant Scale	2,875,800.00	LBS
	1,437.90	TN
NW Plant Scale	3,311,450.00	LBS
	1,655.73	TN
S Plant Scale	3,275,410.00	LBS
	1,637.71	TN
TOTAL TO DATE	9,462,660.00	LBS
	4,731.33	TN

Cubic Yards Mixed	73,077.47	CY
Portland Used	4,731.33	TN
Avg Lbs/CY Used	129.49	LBS/CY
Avg Percent Portland/CY to Date	5.04	%

		Projected
		(Amount Remaining in Current Tons Setup - Amount Required)
		Over (+) (Projected Surplus)
		Under (-) (Projected Shortfall)
Cubic Yards Remaining to be mixed:	(20,986.47) CY	
Remaining Portland Available in PO:	(1,398.33) TN	
Remaining Portland Req'd at 5%:	(1,348.38) TN	-49.95
Remaining Portland Req'd at 6%:	(1,618.06) TN	219.73

Through: 9/25/2018

		Percent	PORTLAND PERCENTAGES	
MIXING		of P.O.	LBS/CY @ 5%	
	52,091 CY Mix and Haul Set up in PO	100%		128.5
	73,077.47 CY Mixed to Date	140%	LBS/CY @ 6%	154.2
	(20,986.47) CY Remaining to be mixed	-40%	(25.7 lbs/%)	

HAULING

94,966	CY Hauled to Landfill to Date
3,801	Loads Hauled to Landfill to Date

ADD MIXTURE

3,333.00	TN Add Mixture in PO
4,731.33	TN Used to Date
(1,398.33)	TN Available in PO
141.95%	Percent used to Date

TO DATE PORTLAND USAGE

NE Plant Scale	2,875,800.00	LBS
	1,437.90	TN
NW Plant Scale	3,311,450.00	LBS
	1,655.73	TN
S Plant Scale	3,275,410.00	LBS
	1,637.71	TN
TOTAL TO DATE	9,462,660.00	LBS
	4,731.33	TN

Cubic Yards Mixed	73,077.47	CY
Portland Used	4,731.33	TN
Avg Lbs/CY Used	129.49	LBS/CY
Avg Percent Portland/CY to Date	5.04	%

		Projected
		(Amount Remaining in Current Tons Setup - Amount Required)
		Over (+) (Projected Surplus)
		Under (-) (Projected Shortfall)
Cubic Yards Remaining to be mixed:	(20,986.47) CY	
Remaining Portland Available in PO:	(1,398.33) TN	
Remaining Portland Req'd at 5%:	(1,348.38) TN	-49.95
Remaining Portland Req'd at 6%:	(1,618.06) TN	219.73

Through: 9/27/2018

MIXING		Percent of P.O.	PORTLAND PERCENTAGES	
	52,091	CY Mix and Haul Set up in PO	100%	LBS/CY @ 5% 128.5
	73,077.47	CY Mixed to Date	140%	LBS/CY @ 6% 154.2
	(20,986.47)	CY Remaining to be mixed	-40%	(25.7 lbs/%)

HAULING

	96,166	CY Hauled to Landfill to Date
	3,849	Loads Hauled to Landfill to Date

ADD MIXTURE

	3,333.00	TN Add Mixture in PO
	4,731.33	TN Used to Date
	(1,398.33)	TN Available in PO
	141.95%	Percent used to Date

TO DATE PORTLAND USAGE

NE Plant Scale	2,875,800.00	LBS
	1,437.90	TN
NW Plant Scale	3,311,450.00	LBS
	1,655.73	TN
S Plant Scale	3,275,410.00	LBS
	1,637.71	TN
TOTAL TO DATE	9,462,660.00	LBS
	4,731.33	TN

Cubic Yards Mixed	73,077.47	CY
Portland Used	4,731.33	TN
Avg Lbs/CY Used	129.49	LBS/CY
Avg Percent Portland/CY to Date	5.04	%

		Projected
		(Amount Remaining in Current Tons Setup - Amount Required)
		Over (+) (Projected Surplus)
		Under (-) (Projected Shortfall)
Cubic Yards Remaining to be mixed:	(20,986.47) CY	
Remaining Portland Available in PO:	(1,398.33) TN	
Remaining Portland Req'd at 5%:	(1,348.38) TN	-49.95
Remaining Portland Req'd at 6%:	(1,618.06) TN	219.73

Appendix B Lang Tool Daily Reports

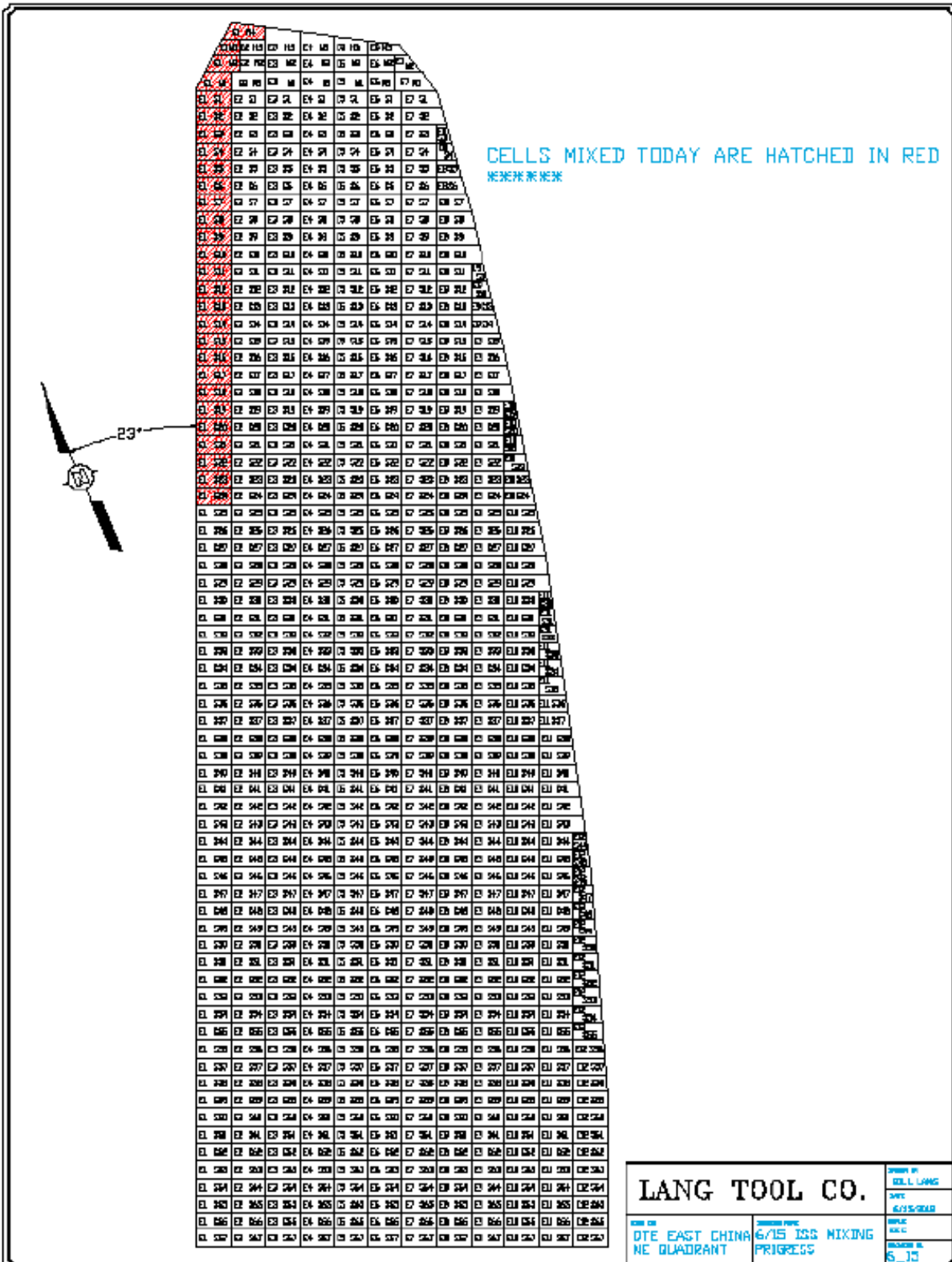
Lang Tool Co.

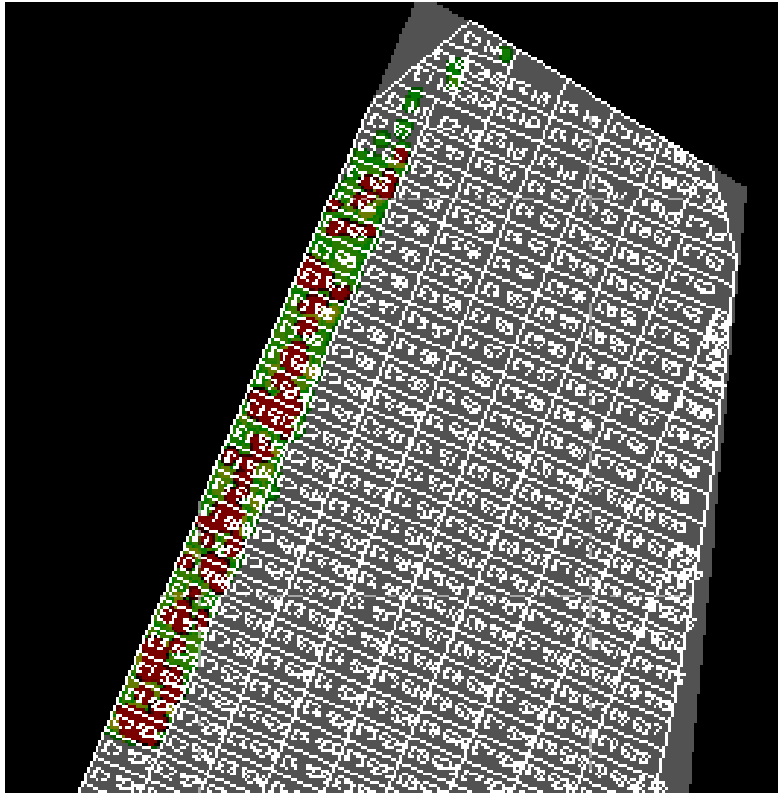
2520 Glidden Rd.
Beaverton, MI 48612

www.langtool.com
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Phone (989) 435-9864
Fax (989) 435-4311

June 15, 2018





The chart was downloaded from the Dual Axis Blender onboard computer. Green indicates that the mixing level is between 583.5 & 584.0 MSL. Red indicates that the mixing level was below 583.5. The Dual Axis Blender operator mixes through the sludge until the mixer contacts solid soil. Note that in the western ends of the five northern most cells solid soil was contacted above 584. The bottom of the mixing area was apparently tapered in that area. On all other cells solid soil was encountered below 584 in all places and below 583.5 in much of the area.

The chart below was downloaded from the LTC Slurry Plant onboard computer. It shows the cell designation and the quantity of Portland cement delivered into the cell.

Date	Time	Cell	lb	Time	Cell	lb
6/15/2018	6:43:33 AM	E1N4	6,760	10:29:37 AM	E1S12	4,320
6/15/2018	6:56:54 AM	E1N3	4,350	10:43:33 AM	E1S13	3,970
6/15/2018	7:10:53 AM	E1N2	6,180	10:59:01 AM	E1S14	5,580
6/15/2018	7:24:07 AM	E1N1	5,860	11:22:07 AM	E1S15	6,180
6/15/2018	7:37:05 AM	E1S1	6,600	11:36:56 AM	E1S16	6,130
6/15/2018	7:51:16 AM	E1S2	6,530	12:00:55 PM	E1S17	5,450
6/15/2018	8:04:44 AM	E1S3	6,290	12:51:18 PM	E1S18	5,590
6/15/2018	8:19:34 AM	E1S4	6,140	1:04:38 PM	E1S19	5,260
6/15/2018	8:34:47 AM	E1S5	6,030	1:19:32 PM	E1S20	5,210
6/15/2018	8:49:23 AM	E1S6	6,330	1:36:17 PM	E1S21	5,410
6/15/2018	9:02:05 AM	E1S7	6,020	1:53:01 PM	E1S22	5,340
6/15/2018	9:26:08 AM	E1S8	6,150	2:07:05 PM	E1S23	5,480
6/15/2018	9:45:39 AM	E1S9	6,090	2:23:39 PM	E1S24	6,180
6/15/2018	10:05:07 AM	E1S10	5,930			70,100
6/15/2018	10:17:59 AM	E1S11	5,440		Total PC	160,800
			90,700			

The chart below is a summary of the soil volume mixed and the quantity of Portland cement delivered to the site, on hand and used in the ISS operation. This information is taken from the Excel workbook created for this project and updated each work day.

Total PC Delivered to Site	251,660	On Hand End of Day	Soil Volume Mixed		
Total PC Cell Qt'ys Sheet	159,948	Truck	26,300	Total yd^3	1244.74
Total from Plant Scale	160,800	Silo 1	12,580	yd^3 today	1244.74
PC Today Cell Qt'ys Sheet	159,948	Silo 2	50,400		
		Total	89,280		
Plant Scale + On Hand			250,080		
		Error lb	1,580		
		Error %	0.63%		

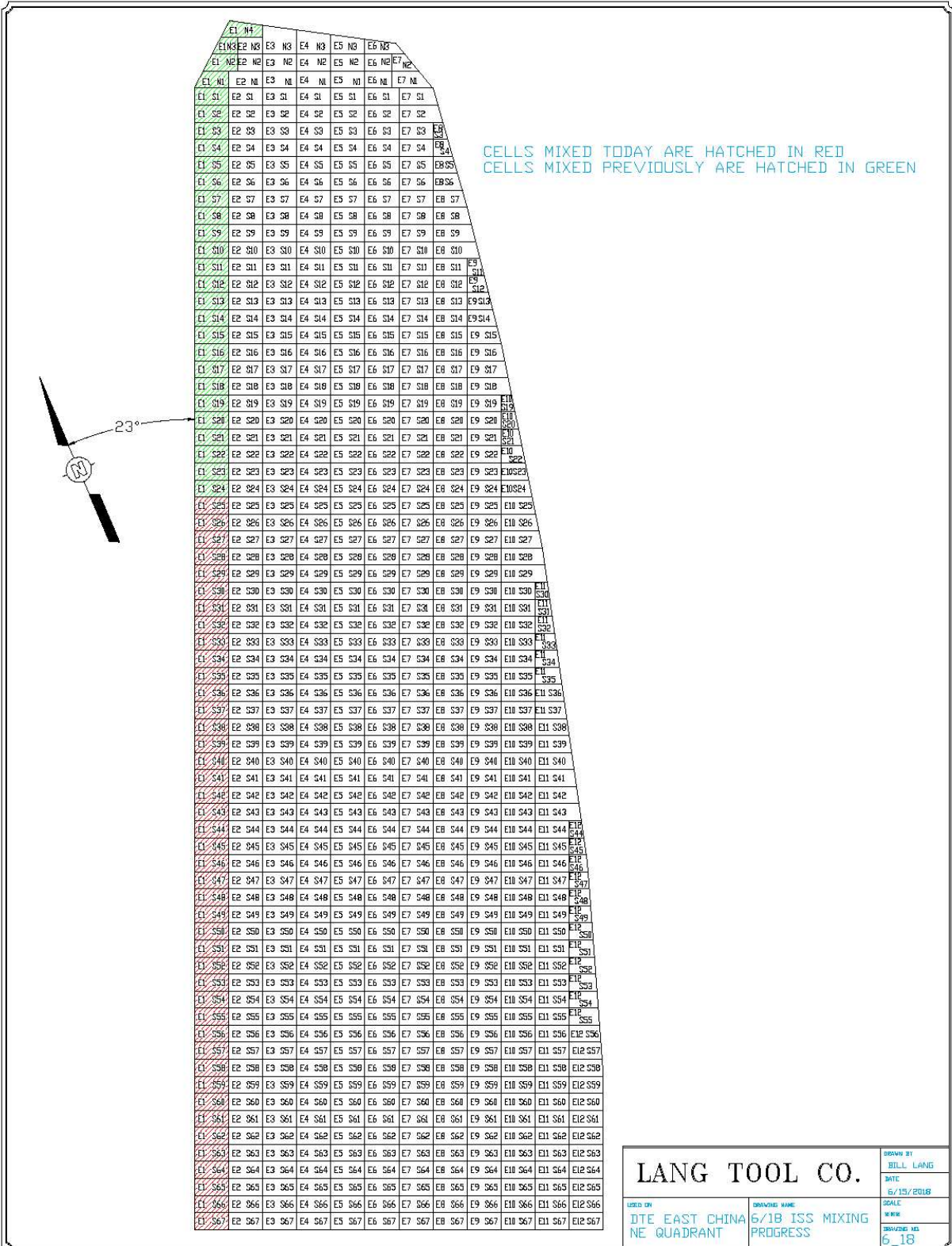
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June 18, 2018



There was a malfunction in the machine GPS immediately upon start up so there is no chart to download. We were able to layout the mixing cells with the GPS rover and the operator mixed to the elevation where the hard bottom was contacted.

The chart below was downloaded from the LTC Slurry Plant onboard computer. It shows the cell designation and the quantity of Portland cement delivered into the cell.

Date	Time	Cell	lb	Time	Cell	lb
6/18/2018	7:22:57 AM	E1S25	6,550	1:26:20 PM	E1S48	3,230
6/18/2018	8:07:43 AM	E1S26	5,900	1:34:44 PM	E1S49	3,330
6/18/2018	8:22:21 AM	E1S27	5,900	1:43:30 PM	E1S50	2,340
6/18/2018	8:40:25 AM	E1S28	5,420	1:52:43 PM	E1S51	2,240
6/18/2018	8:52:50 AM	E1S29	5,140	2:03:06 PM	E1S52	2,330
6/18/2018	9:04:42 AM	E1S30	5,240	2:08:06 PM	E1S53	1,810
6/18/2018	9:17:23 AM	E1S31	5,070	2:14:42 PM	E1S54	1,570
6/18/2018	9:36:18 AM	E1S32	5,370	2:19:54 PM	E1S55	1,790
6/18/2018	9:49:06 AM	E1S33	5,220	2:25:39 PM	E1S56	1,860
6/18/2018	10:02:24 AM	E1S34	5,050	2:31:36 PM	E1S57	1,860
6/18/2018	10:16:27 AM	E1S35	4,780	2:45:20 PM	E1S58	1,960
6/18/2018	10:35:14 AM	E1S36	4,570	2:49:59 PM	E1S59	1,360
6/18/2018	10:48:24 AM	E1S37	4,170	2:55:55 PM	E1S60	1,960
6/18/2018	10:59:09 AM	E1S38	3,950	3:00:42 PM	E1S61	1,650
6/18/2018	11:13:36 AM	E1S39	4,230	3:06:06 PM	E1S62	1,660
6/18/2018	11:23:24 AM	E1S40	3,950	3:22:22 PM	E1S63	1,800
6/18/2018	11:32:37 AM	E1S41	3,620	3:27:28 PM	E1S63	1,210
6/18/2018	11:45:26 AM	E1S42	3,380	3:32:10 PM	E1S64	1,650
6/18/2018	11:56:31 AM	E1S43	3,750	3:36:16 PM	E1S65	1,310
6/18/2018	12:48:11 PM	E1S44	3,420	3:40:00 PM	E1S66	1,210
6/18/2018	12:57:24 PM	E1S45	3,560	3:43:59 PM	E1S67	1,360
6/18/2018	1:07:19 PM	E1S46	3,220			39,490
6/18/2018	1:17:34 PM	E1S47	3,850	Total PC lb		144,800
			105,310	Total PC Tons		72.400

The chart below is a summary of the soil volume mixed and the quantity of Portland cement delivered to the site, on hand and used in the ISS operation. This information is taken from the Excel workbook created for this project and updated each work day.

Total PC Delivered to Site	412,320	On Hand End of Day	Soil Volume Mixed
Total PC Cell Qt'ys Sheet	302,955	Truck	9,160
Total from Plant Scale	305,600	Silo 1	57,330
PC Today Cell Qt'ys Sheet	143,007	Silo 2	37,910
		Total	104,400
Plant Scale + On Hand			410,000
		Error lb	2,320
		Error %	0.56%

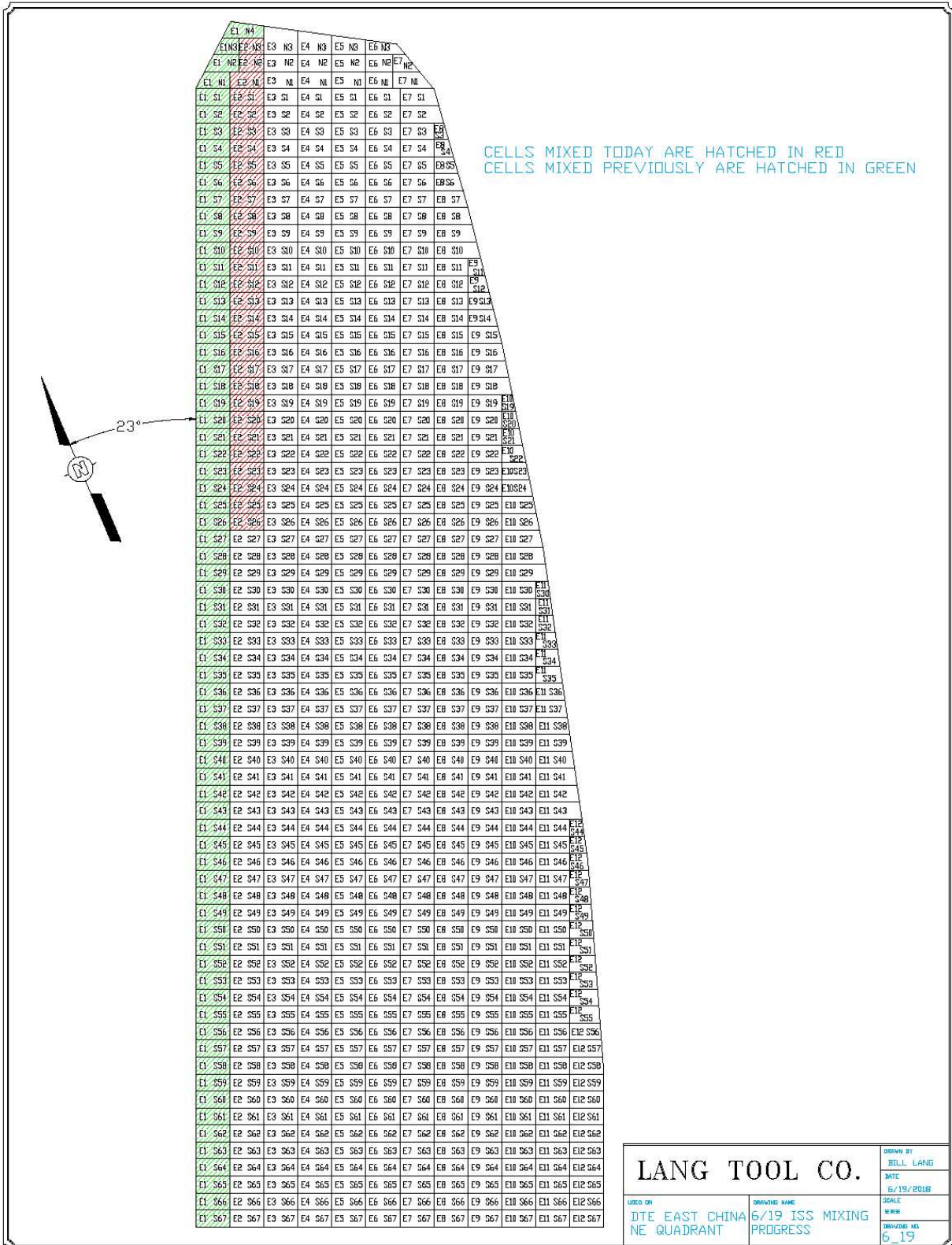
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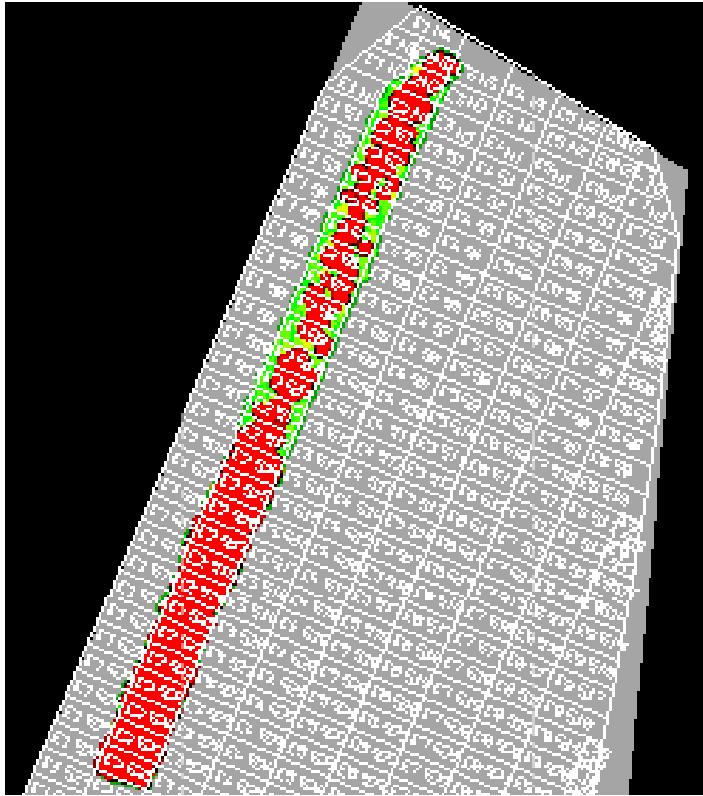
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June 19, 2018





The chart was downloaded from the Dual Axis Blender onboard computer. Green indicates that the mixing level is between 583.5 & 584.0 MSL. Red indicates that the mixing level was below 583.5. The Dual Axis Blender operator mixes through the sludge until the mixer contacts solid soil. Note that in the western ends of the five northern most cells solid soil was contacted above 584. The bottom of the mixing area was apparently tapered in that area. On all other cells solid soil was encountered below 584 in all places and below 583.5 in much of the area.

The chart below was downloaded from the LTC Slurry Plant onboard computer. It shows the cell designation and the quantity of Portland cement delivered into the cell. Cells with a B designation are where solid soil was encountered deeper than 583.5. Additional PC was added to the cell to maintain the correct PC/sludge ratio.

Date	Time	Cell	lb	Time	Cell	lb
6/19/2018	7:28:29 AM	E2N3	2,500	10:57:23 AM	E2S15	3,850
6/19/2018	7:38:28 AM	E2N2	2,760	11:01:18 AM	E2S15B	1,910
6/19/2018	7:49:37 AM	E2N1	3,660	11:14:25 AM	E2S16	4,240
6/19/2018	8:02:05 AM	E2S1	4,120	11:18:28 AM	E2S16B	1,910
6/19/2018	8:14:00 AM	E2S2	4,060	11:31:19 AM	E2S17	5,030
6/19/2018	8:26:00 AM	E2S3	4,440	11:34:24 AM	E2S17B	1,910
6/19/2018	8:37:59 AM	E2S4	4,590	11:55:01 AM	E2S18	6,470
6/19/2018	8:53:46 AM	E2S5	4,240	11:57:36 AM	E2S18B	950
6/19/2018	9:04:53 AM	E2S6	4,350	12:37:22 PM	E2S19	6,070
6/19/2018	9:16:44 AM	E2S7	4,690	12:39:12 PM	E2S19B	950
6/19/2018	9:28:23 AM	E2S8	5,170	12:52:26 PM	E2S20	6,390
6/19/2018	9:38:51 AM	E2S9	5,450	1:14:30 PM	E2S21	6,140
6/19/2018	9:56:32 AM	E2S10	5,340	1:44:00 PM	E2S22	6,150
6/19/2018	10:08:21 AM	E2S11	5,340	1:58:05 PM	E2S23	6,360
6/19/2018	10:20:45 AM	E2S12	5,110	2:12:09 PM	E2S24	6,490
6/19/2018	10:31:56 AM	E2S13	5,110	2:29:46 PM	E2S25	6,170
6/19/2018	10:46:16 AM	E2S14	5,110	2:41:51 PM	E2S26	5,740
6/19/2018	10:48:41 AM	E2S14B	970			76,730
			77,010		Total PC lb	153,740
					Total PC Tons	76.87

The chart below is a summary of the soil volume mixed and the quantity of Portland cement delivered to the site, on hand and used in the ISS operation. This information is taken from the Excel workbook created for this project and updated each work day.

Total PC Delivered to Site	572,620	On Hand End of Day		Soil Volume Mixed	
Total PC Cell Qt'ys Sheet	456,212	Truck	26,080	Total yd ³	3550.29
Total from Plant Scale	459,340	Silo 1	67,820	yd ³ today	1192.69
PC Today Cell Qt'ys Sheet	153,257	Silo 2	15,940		
		Total	109,840		
Plant Scale + On Hand			569,180		
		Error lb	3,440		
		Error %	0.60%		

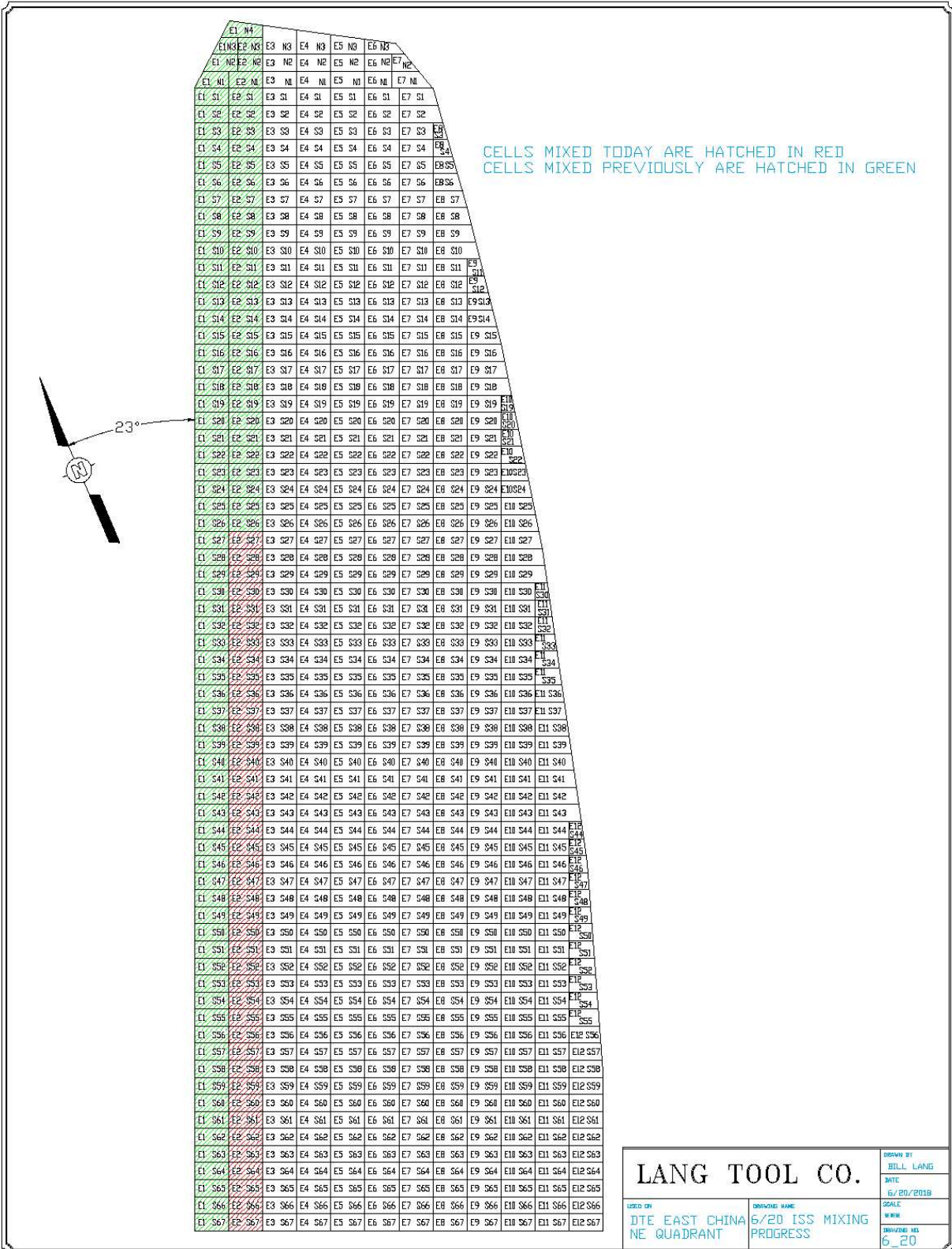
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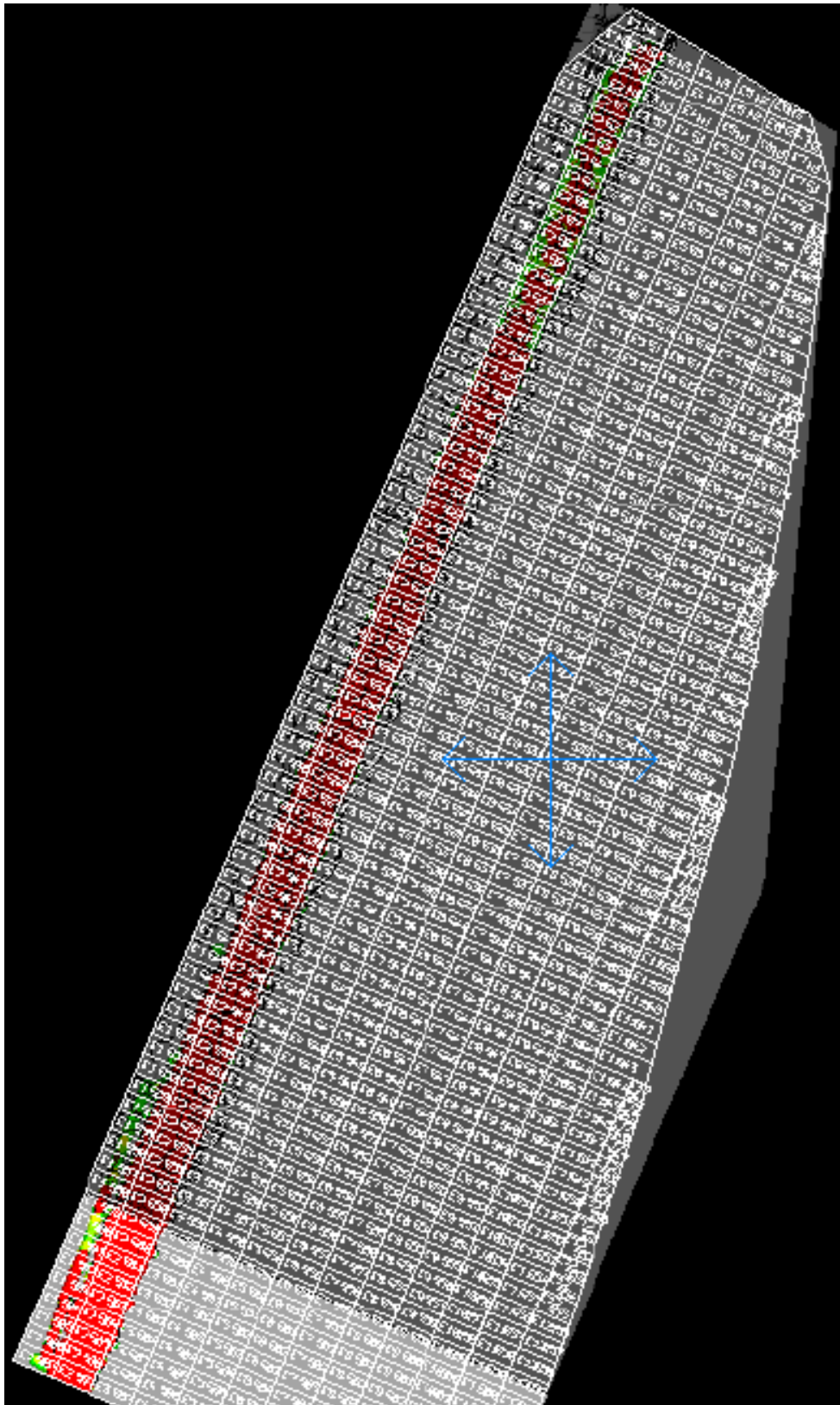
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June 20, 2018





The chart was downloaded from the Dual Axis Blender onboard computer. Green indicates that the mixing level is between 583.5 & 584.0 MSL. Red indicates that the mixing level was below 583.5. The Dual Axis Blender operator mixes through the sludge until the mixer contacts solid soil. Note that in the western ends of the five northern most cells solid soil was contacted above 584. The bottom of the mixing area was apparently tapered in that area. On all other cells solid soil was encountered below 584 in all places and below 583.5 in much of the area.

The chart below was downloaded from the LTC Slurry Plant onboard computer. It shows the cell designation and the quantity of Portland cement delivered into the cell. Cells with a B designation are where solid soil was encountered deeper than 583.5. Additional PC was added to the cell to maintain the correct PC/sludge ratio.

Date	Time	Cell	lb	Time	Cell	lb
6/20/2018	6:30:49 AM	E2S27	5,650	9:58:00 AM	E2S58	1,150
6/20/2018	6:33:31 AM	E2S27B	1,500	10:00:38 AM	E2S57	1,140
6/20/2018	6:45:01 AM	E2S28	5,330	10:03:37 AM	E2S56	1,300
6/20/2018	6:47:48 AM	E2S28B	1,500	10:08:27 AM	S2E55	1,330
6/20/2018	7:01:42 AM	E2S29	5,550	10:11:28 AM	E2S54	1,080
6/20/2018	7:04:37 AM	E2S29B	1,500	10:15:21 AM	E2S53	1,320
6/20/2018	7:18:01 AM	E2S30	5,240	10:22:00 AM	E2S52	1,590
6/20/2018	7:21:08 AM	E2S30B	1,510	10:27:51 AM	E2S51	1,780
6/20/2018	7:32:18 AM	E2S31	4,840	10:34:10 AM	E2S50	1,810
6/20/2018	7:35:08 AM	E2S31B	1,510	10:37:15 AM	E2S50B	1,510
6/20/2018	7:43:53 AM	E2S32	4,270	10:50:10 AM	E2S49	2,110
6/20/2018	7:46:38 AM	E2S32B	1,510	10:53:01 AM	E2S49B	1,500
6/20/2018	7:56:49 AM	E2S33	4,200	10:58:53 AM	E2S48	2,360
6/20/2018	7:59:52 AM	E2S33B	1,510	11:02:19 AM	E2S48B	1,510
6/20/2018	8:08:48 AM	E2S34	3,830	11:07:43 AM	E2S47	2,610
6/20/2018	8:11:47 AM	E2S34B	1,510	11:10:17 AM	E2S47B	1,510
6/20/2018	8:20:34 AM	E2S35	3,710	11:23:19 AM	E2S46	2,570
6/20/2018	8:23:39 AM	E2S35B	1,530	11:26:26 AM	E2S46B	1,510
6/20/2018	8:32:36 AM	E2S36	3,540	11:32:08 AM	E2S45	2,600
6/20/2018	8:35:42 AM	E2S36B	1,500	11:34:41 AM	E2S45B	1,520
6/20/2018	8:51:32 AM	E2S37	3,750	11:39:51 AM	E2S44	2,710
6/20/2018	8:55:18 AM	E2S37B	1,910	11:42:39 AM	E2S44B	1,510
6/20/2018	9:03:21 AM	E2S38	3,510	11:59:13 AM	E2S43	2,610
6/20/2018	9:07:17 AM	E2S38B	1,900	12:02:36 PM	E2S43B	1,500
6/20/2018	9:26:40 AM	E2S67	950	12:10:19 PM	E2S42	2,780
6/20/2018	9:30:10 AM	E2S66	950	12:12:49 PM	E2S42B	1,510
6/20/2018	9:32:32 AM	E2S65	870	12:21:36 PM	E2S41	2,980
6/20/2018	9:35:53 AM	E2S64	990	12:24:34 PM	E2S41B	1,510
6/20/2018	9:39:21 AM	E2S63	1,000	12:33:42 PM	E2S40	3,210
6/20/2018	9:42:20 AM	E2S62	1,160	12:36:41 PM	E2S40B	1,510
6/20/2018	9:45:18 AM	E2S61	1,100	12:42:37 PM	E2S39	3,150
6/20/2018	9:51:26 AM	E2S60	1,220	12:45:19 PM	E2S39B	1,500
6/20/2018	9:54:21 AM	E2S59	1,250			60,290
			81,800		Total PC lb	142,090
					Total PC Tons	71.045

The chart below is a summary of the soil volume mixed and the quantity of Portland cement delivered to the site, on hand and used in the ISS operation. This information is taken from the Excel workbook created for this project and updated each work day.

Total PC Delivered to Site	733,220	On Hand End of Day		Soil Volume Mixed	
Total PC Cell Qt'ys Sheet	596,134	Truck	21,150	Total yd ³	4639.18
Total from Plant Scale	601,430	Silo 1	54,960	yd ³ today	1088.88
PC Today Cell Qt'ys Sheet	139,922	Silo 2	53,430		
		Total	129,540		
Plant Scale + On Hand			730,970		
		Error lb	2,250		
		Error %	0.31%		

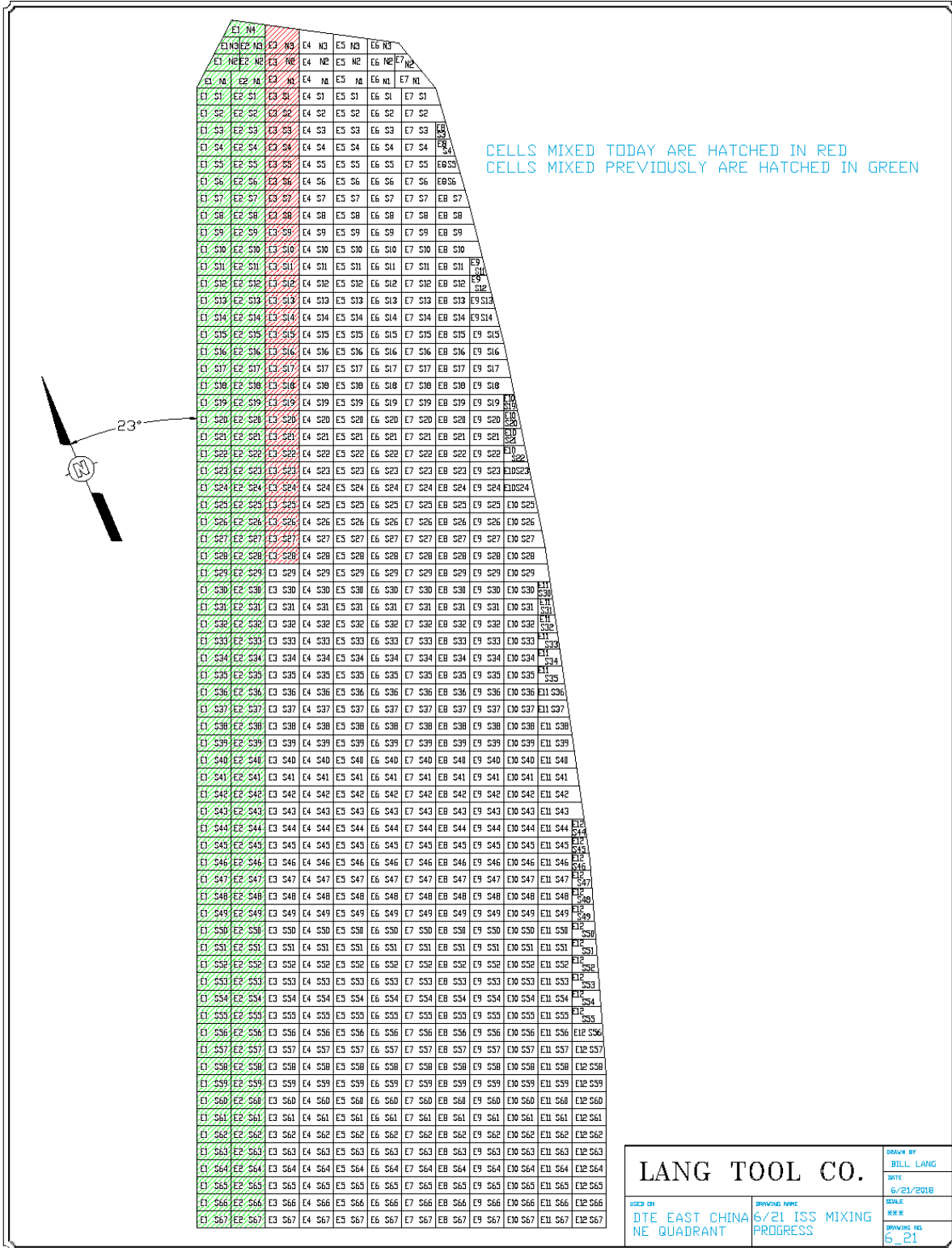
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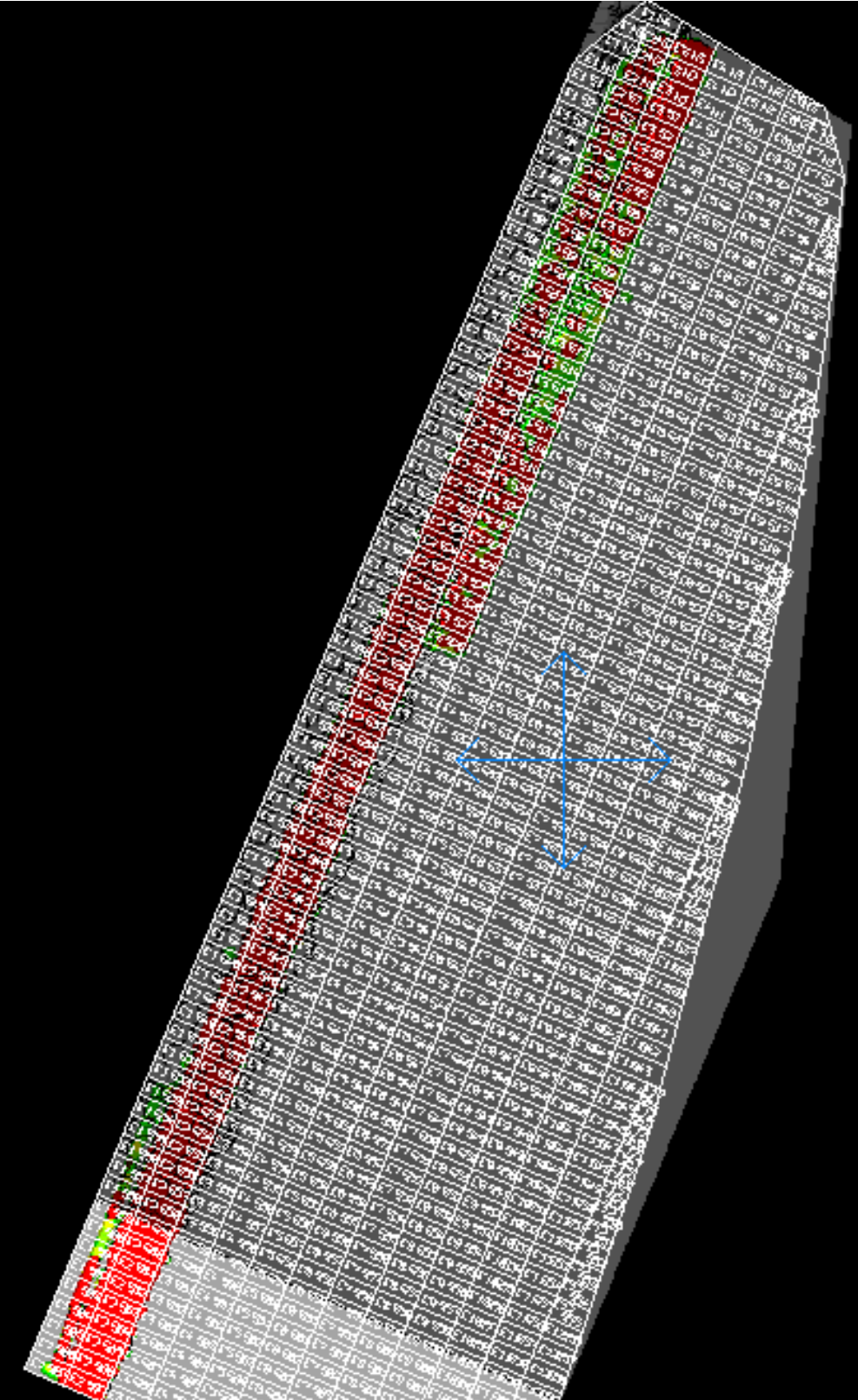
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June 21, 2018





The chart was downloaded from the Dual Axis Blender onboard computer. Green indicates that the mixing level is between 583.5 & 584.0 MSL. Red indicates that the mixing level was below 583.5. The Dual Axis Blender operator mixes through the sludge until the mixer contacts solid soil. Note that in the western ends of the five northern most cells solid soil was contacted above 584. The bottom of the mixing area was apparently tapered in that area. On all other cells solid soil was encountered below 584 in all places and below 583.5 in much of the area.

The chart below was downloaded from the LTC Slurry Plant onboard computer. It shows the cell designation and the quantity of Portland cement delivered into the cell. Cells with a B designation are where solid soil was encountered deeper than 583.5. Additional PC was added to the cell to maintain the correct PC/sludge ratio.

Date	Time	Cell	lb	Time	Cell	lb
6/21/2018	6:36:35 AM	E3N3	5,460	9:28:35 AM	E3S12	5,030
6/21/2018	6:44:20 AM	E3N2	3,500	9:37:52 AM	E3S13	5,030
6/21/2018	6:54:20 AM	E3N1	3,510	10:01:30 AM	E3S14	5,030
6/21/2018	6:56:43 AM	E3N1B	970	10:10:07 AM	E3S15	5,030
6/21/2018	7:04:39 AM	E3S1	3,500	10:20:41 AM	E3S16	5,040
6/21/2018	7:06:29 AM	E3S1B	950	10:42:12 AM	E3S17	4,820
6/21/2018	7:14:44 AM	E3S2	3,510	10:57:00 AM	E3S18	6,770
6/21/2018	7:16:43 AM	E3S2B	950	11:12:59 AM	E3S19	6,710
6/21/2018	7:24:17 AM	E3S3	3,500	11:26:52 AM	E3S20	6,500
6/21/2018	7:26:12 AM	E3S3B	950	12:14:18 PM	E3S21	6,020
6/21/2018	7:43:29 AM	E3S4	3,500	12:29:20 PM	E3S22	5,890
6/21/2018	7:50:01 AM	E3S5	3,510	12:44:55 PM	E3S23	6,130
6/21/2018	8:09:55 AM	E3S6	4,560	12:55:21 PM	E3S24	5,840
6/21/2018	8:20:03 AM	E3S7	4,550	1:06:28 PM	E3S25	5,650
6/21/2018	8:29:40 AM	E3S8	4,520	1:25:53 PM	E3S26	5,210
6/21/2018	8:46:14 AM	E3S9	4,520	1:36:33 PM	E3S27	5,060
6/21/2018	8:57:10 AM	E3S10	5,030	1:48:03 PM	E3S28	4,750
6/21/2018	9:19:31 AM	E3S11	5,030			94,510
			62,020	Total PC lbs		156,530

The chart below is a summary of the soil volume mixed and the quantity of Portland cement delivered to the site, on hand and used in the ISS operation. This information is taken from the Excel workbook created for this project and updated each work day.

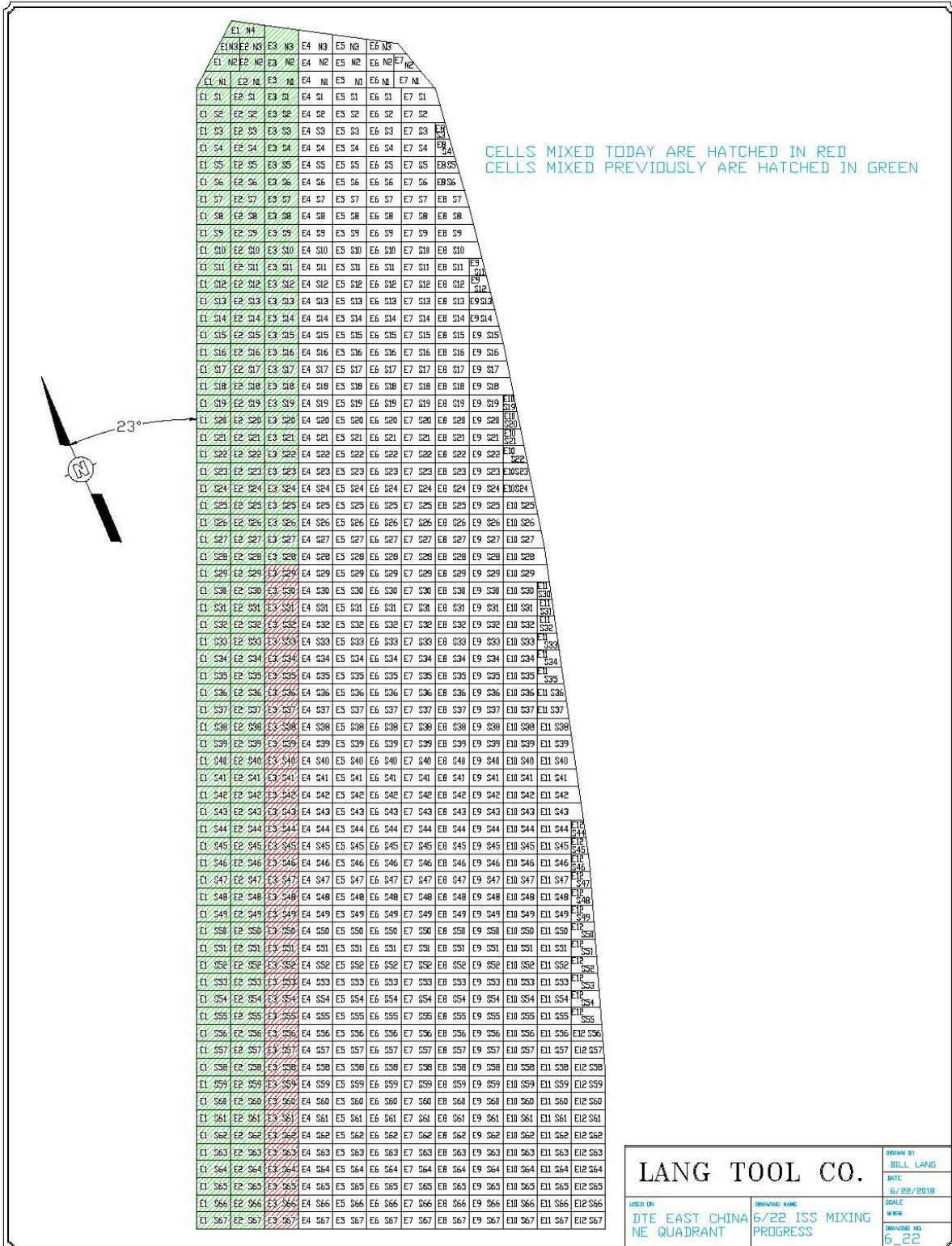
Total PC Delivered to Site	893,240	On Hand End of Day	Soil Volume Mixed
Total PC Cell Qt'ys Sheet	747,277	Truck	24,310
Total from Plant Scale	757,960	Silo 1	48,600
PC Today Cell Qt'ys Sheet	151,143	Silo 2	61,140
		Total	134,050
Plant Scale + On Hand			892,010
		Error lb	1,230
		Error %	0.14%

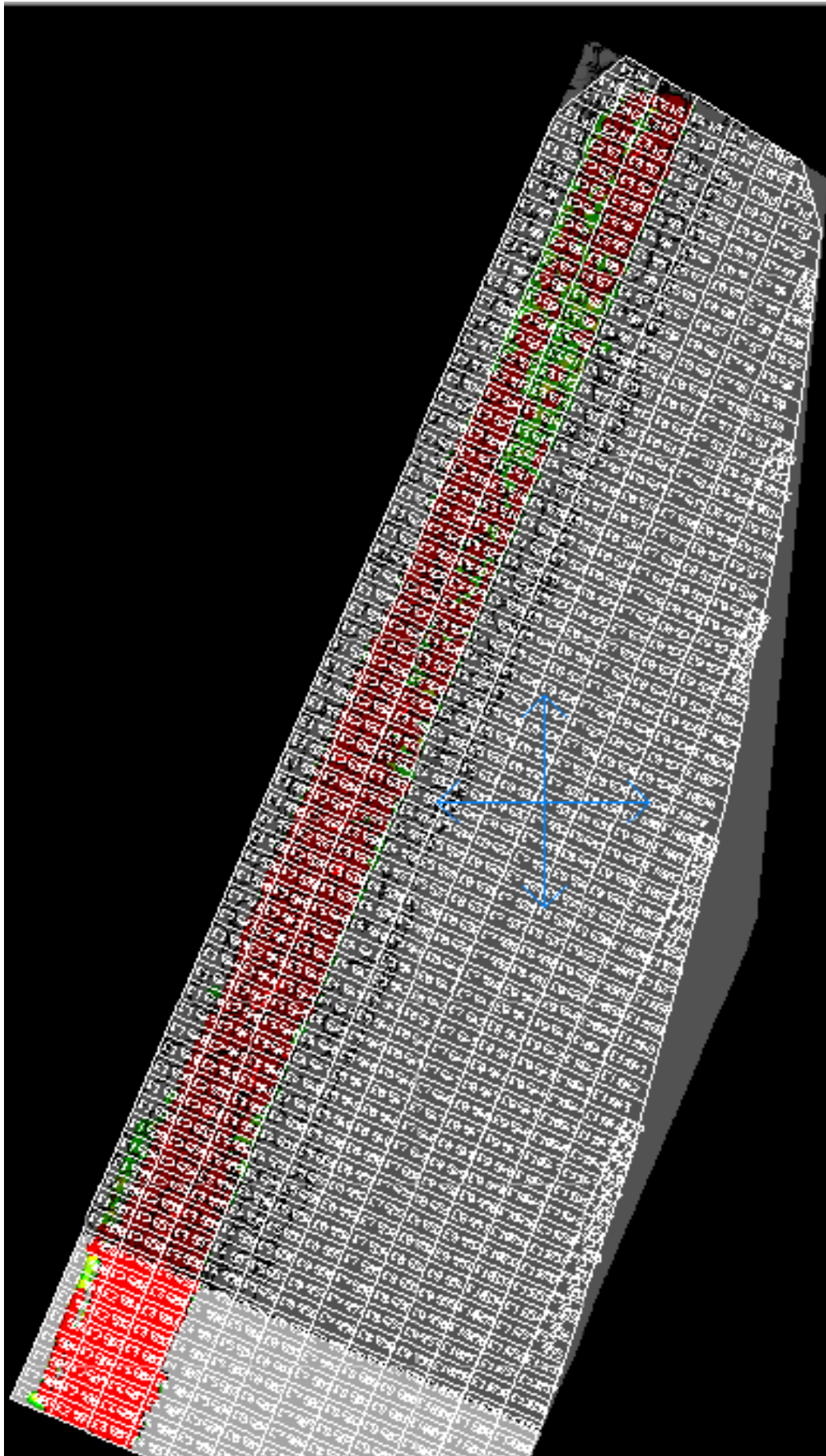
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June 22, 2018





The chart was downloaded from the Dual Axis Blender onboard computer. Green indicates that the mixing level is between 583.5 & 584.0 MSL. Red indicates that the mixing level was below 583.5. The Dual Axis Blender operator mixes through the sludge until the mixer contacts solid soil. Note that in the western ends of the five northern most cells solid soil was contacted above 584. The bottom of the mixing area was apparently tapered in that area. On all other cells solid soil was encountered below 584 in all places and below 583.5 in much of the area.

The chart below was downloaded from the LTC Slurry Plant onboard computer. It shows the cell designation and the quantity of Portland cement delivered into the cell. Cells with a B designation are where solid soil was encountered deeper than 583.5. Additional PC was added to the cell to maintain the correct PC/sludge ratio.

Date	Time	Cell	lb	Time	Cell	lb
6/22/2018	6:27:05 AM	E3S29	4,660	9:09:29 AM	E3S50	1,910
6/22/2018	6:34:09 AM	E3S30	4,230	9:14:38 AM	E3S51	1,840
6/22/2018	6:42:18 AM	E3S31	4,180	9:18:19 AM	E3S52	1,760
6/22/2018	6:51:21 AM	E3S32	3,980	9:22:24 AM	E3S53	1,560
6/22/2018	6:58:26 AM	E3S33	3,900	9:27:44 AM	E3S54	1,360
6/22/2018	7:06:14 AM	E3S34	3,740	9:37:55 AM	E3S55	1,320
6/22/2018	7:18:40 AM	E3S35	3,580	9:42:09 AM	E3S56	1,240
6/22/2018	7:25:23 AM	E3S36	3,290	9:45:05 AM	E3S56B	950
6/22/2018	7:32:05 AM	E3S37	3,230	9:55:55 AM	E3S57	1,250
6/22/2018	7:48:14 AM	E3S38	3,080	10:01:06 AM	E3S58	1,310
6/22/2018	7:56:20 AM	E3S39	2,990	10:10:09 AM	E3S59	1,370
6/22/2018	8:02:07 AM	E3S40	2,880	10:15:40 AM	E3S60	1,220
6/22/2018	8:08:47 AM	E3S41	2,830	10:19:39 AM	E3S61	1,330
6/22/2018	8:15:15 AM	E3S42	2,610	10:24:59 AM	E3S62	1,340
6/22/2018	8:21:24 AM	E3S43	2,530	10:30:28 AM	E3S63	1,100
6/22/2018	8:27:32 AM	E3S44	2,520	10:34:04 AM	E3S64	1,230
6/22/2018	8:39:32 AM	E3S45	2,350	10:41:51 AM	E3S65	1,290
6/22/2018	8:44:51 AM	E3S46	2,500	10:43:53 AM	E3S66	890
6/22/2018	8:50:29 AM	E3S47	2,330	10:50:49 AM	E3S67	960
6/22/2018	8:55:12 AM	E3S48	2,290			25,230
6/22/2018	8:58:57 AM	E3S49	1,920	Total PC lb		90,850
			65,620	Total PC Tons		45.43

The chart below is a summary of the soil volume mixed and the quantity of Portland cement delivered to the site, on hand and used in the ISS operation. This information is taken from the Excel workbook created for this project and updated each work day.

Total PC Delivered to Site	1,000,600	On Hand End of Day	Soil Volume Mixed
Total PC Cell Qt'ys Sheet	820,922	Truck	23,050
Total from Plant Scale	848,610	Silo 1	63,410
PC Today Cell Qt'ys Sheet	73,645	Silo 2	65,030
		Total	151,490
Plant Scale + On Hand			1,000,100
		Error lb	500
		Error %	0.05%

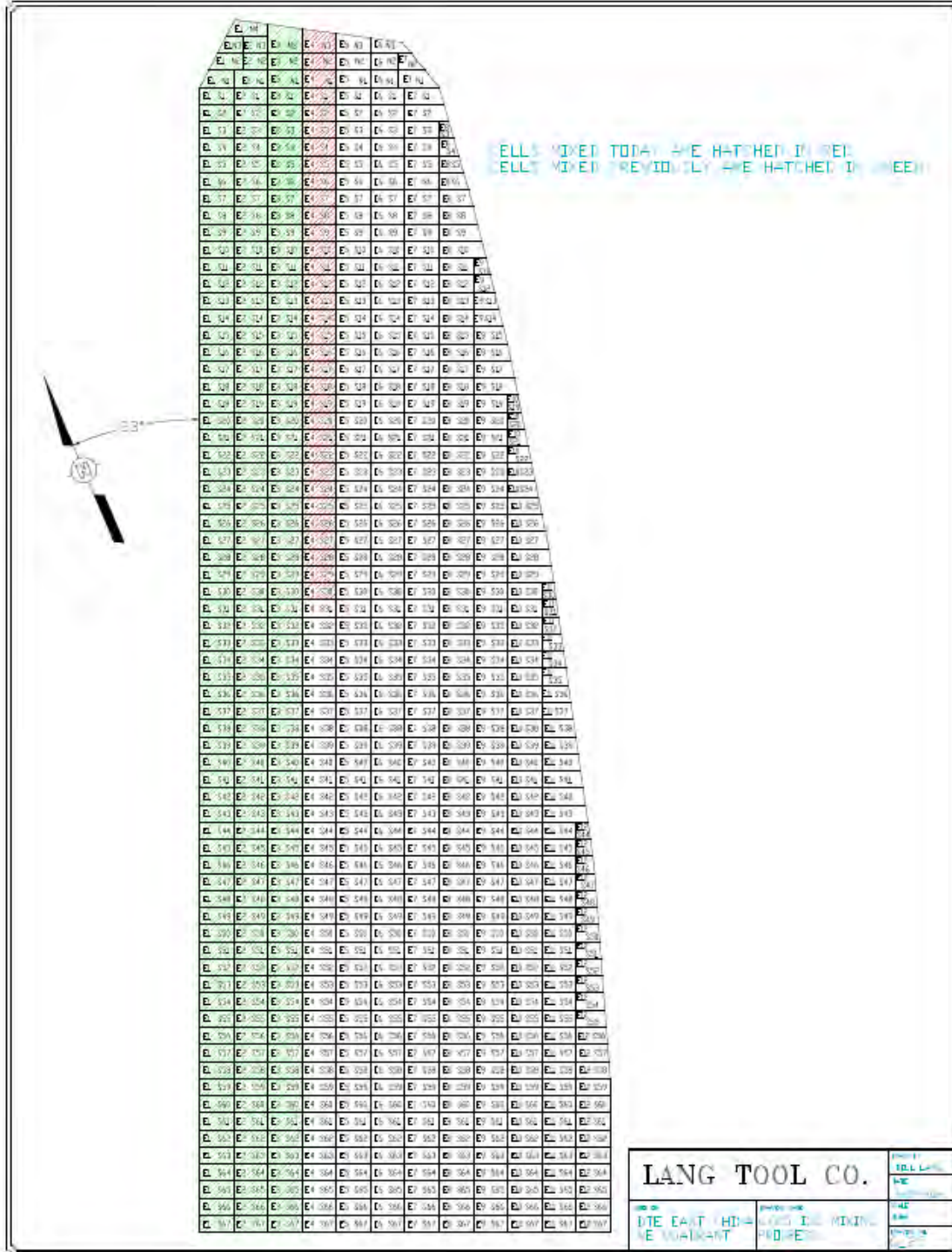
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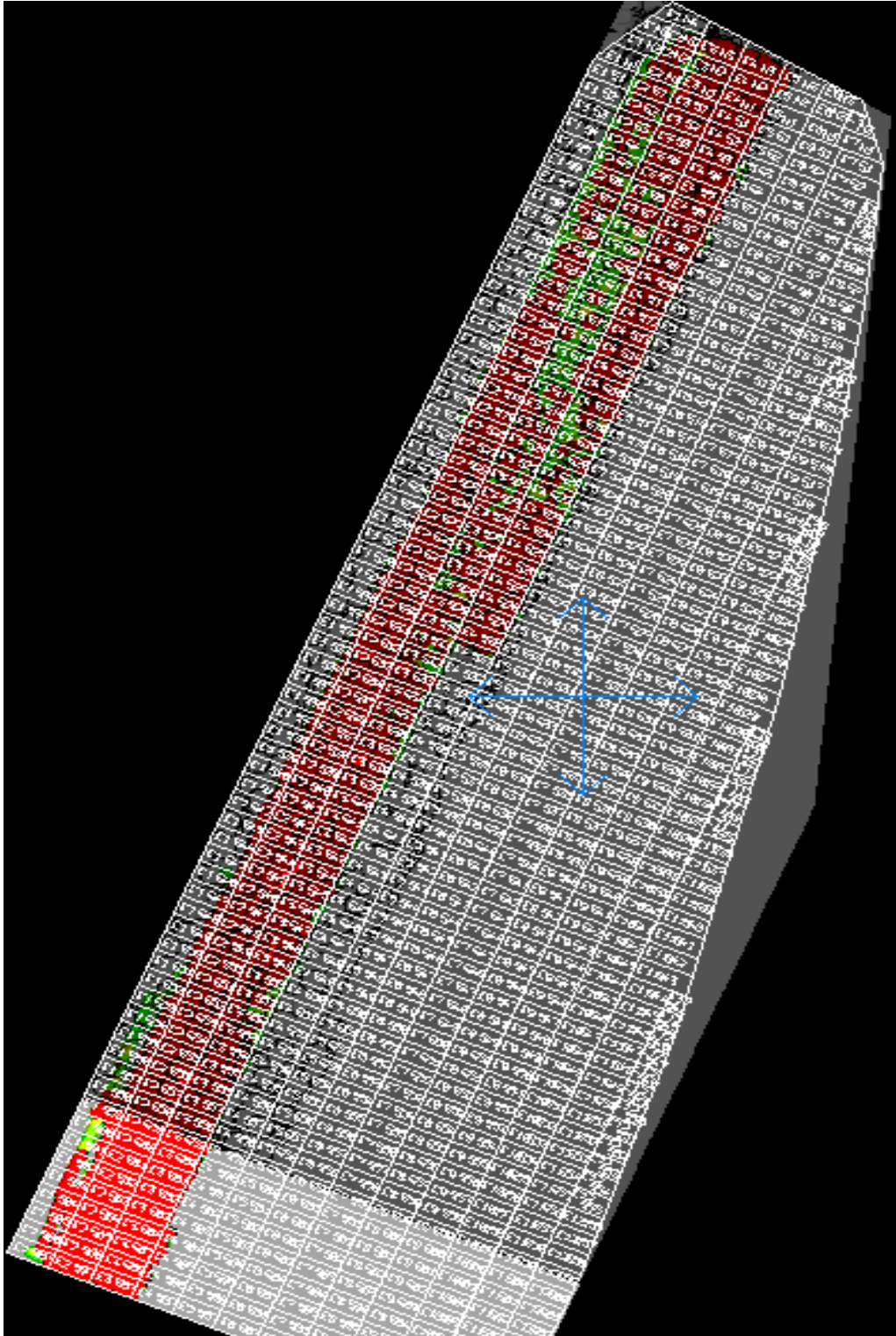
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June 25, 2018



The chart was downloaded from the Dual Axis Blender onboard computer. Green indicates that the mixing level is between 583.5 & 584.0 MSL. Red indicates that the mixing level was below 583.5. The Dual Axis Blender operator mixes through the sludge until the mixer contacts solid soil. Note that in the western ends of the five northern most cells solid soil was contacted above 584. The bottom of the mixing area was apparently tapered in that area. On all other cells solid soil was encountered below 584 in all places and below 583.5 in much of the area.



The chart below was downloaded from the LTC Slurry Plant onboard computer. It shows the cell designation and the quantity of Portland cement delivered into the cell. Cells with a B designation are where solid soil was encountered deeper than 583.5. Additional PC was added to the cell to maintain the correct PC/sludge ratio.

Date	Time	Cell	lb	Time	Cell	lb
6/25/2018	6:53:32 AM	E4N3	4,710	10:01:21 AM	E4S13	4,980
6/25/2018	6:56:14 AM	E4N3B	1,500	10:03:01 AM	E4S13B	950
6/25/2018	7:03:55 AM	E4N2	3,680	10:12:00 AM	E4S14	5,000
6/25/2018	7:06:31 AM	E4N2B	1,500	10:13:48 AM	E4S14B	960
6/25/2018	7:14:14 AM	E4N1	3,620	10:23:20 AM	E4S15	4,990
6/25/2018	7:17:00 AM	E4N1B	1,500	10:25:08 AM	E4S15B	950
6/25/2018	7:29:37 AM	E4S1	3,630	10:52:08 AM	E4S16	5,000
6/25/2018	7:31:52 AM	E4S1B	950	10:53:48 AM	E4S16B	970
6/25/2018	7:44:03 AM	E4S2	3,640	11:02:32 AM	E4S17	5,160
6/25/2018	7:46:47 AM	E4S2B	1,500	11:04:15 AM	E4S17B	950
6/25/2018	7:53:29 AM	E4S3	3,610	11:16:13 AM	E4S18	5,940
6/25/2018	7:56:05 AM	E4S3B	1,510	11:37:03 AM	E4S19	6,280
6/25/2018	8:08:12 AM	E4S4	3,640	12:14:27 PM	E4S20	6,010
6/25/2018	8:10:49 AM	E4S4B	1,510	12:33:20 PM	E4S21	5,160
6/25/2018	8:18:04 AM	E4S5	3,600	12:43:37 PM	E4S22	5,570
6/25/2018	8:20:42 AM	E4S5B	1,510	12:54:46 PM	E4S23	5,580
6/25/2018	8:28:21 AM	E4S6	3,630	1:04:41 PM	E4S24	5,490
6/25/2018	8:30:12 AM	E4S6B	960	1:07:16 PM	E4S24B	1,510
6/25/2018	8:43:41 AM	E4S7	3,620	1:18:45 PM	E4S25	5,170
6/25/2018	8:45:35 AM	E4S7B	960	1:21:29 PM	E4S25B	1,500
6/25/2018	8:53:08 AM	E4S8	3,640	1:30:43 PM	E4S26	4,710
6/25/2018	8:54:54 AM	E4S8B	950	1:33:31 PM	E4S26B	1,500
6/25/2018	9:04:00 AM	E4S9	4,970	1:46:51 PM	E4S27	4,270
6/25/2018	9:05:44 AM	E4S9B	970	1:52:14 PM	E4S27B	950
6/25/2018	9:19:50 AM	E4S10	4,990	1:59:58 PM	E4S28	4,290
6/25/2018	9:22:20 AM	E4S10B	950	2:01:49 PM	E4S28B	950
6/25/2018	9:31:05 AM	E4S11	4,990	2:13:28 PM	E4S29	4,230
6/25/2018	9:32:54 AM	E4S11B	950	2:15:23 PM	E4S29B	960
6/25/2018	9:42:53 AM	E4S12	4,980	2:25:01 PM	E4S30	4,140
6/25/2018	9:44:53 AM	E4S12B	960	2:27:02 PM	E4S30B	950
			79,130			105,070
				Total PC ibs		184,200

The chart below is a summary of the soil volume mixed and the quantity of Portland cement delivered to the site, on hand and used in the ISS operation. This information is taken from the Excel workbook created for this project and updated each work day.

Total PC Delivered to Site	1,098,780	On Hand End of Day		Soil Volume Mixed	
Total PC Cell Qt'ys Sheet	1,002,147	Truck	12,080	Total yd^3	7934.44
Total from Plant Scale	1,032,810	Silo 1	44,780	yd^3 today	1410.34
PC Today Cell Qt'ys Sheet	181,225	Silo 2	11,860		
		Total	68,720		
Plant Scale + On Hand			1,101,530		
		Error lb	-2,750		
		Error %	-0.25%		

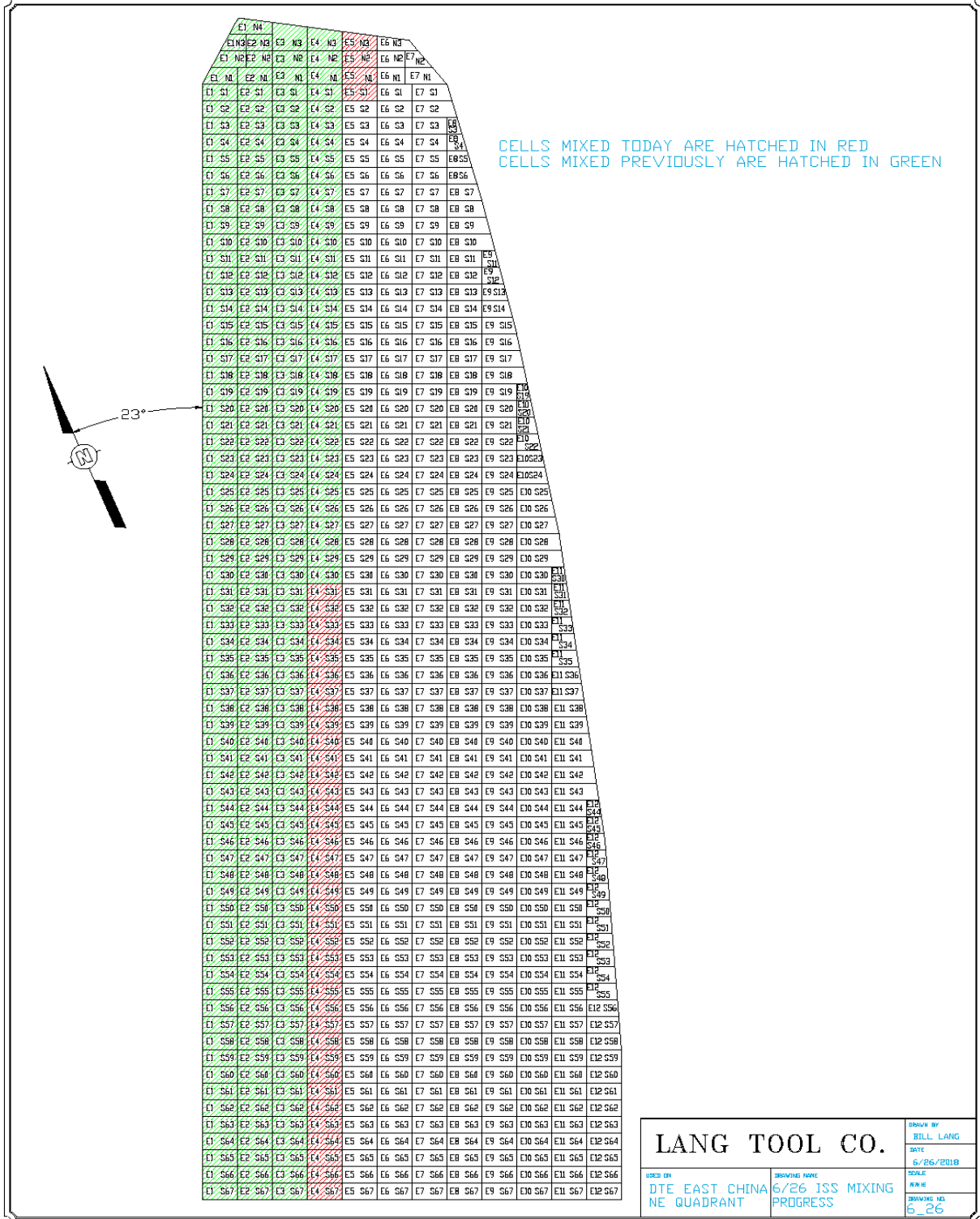
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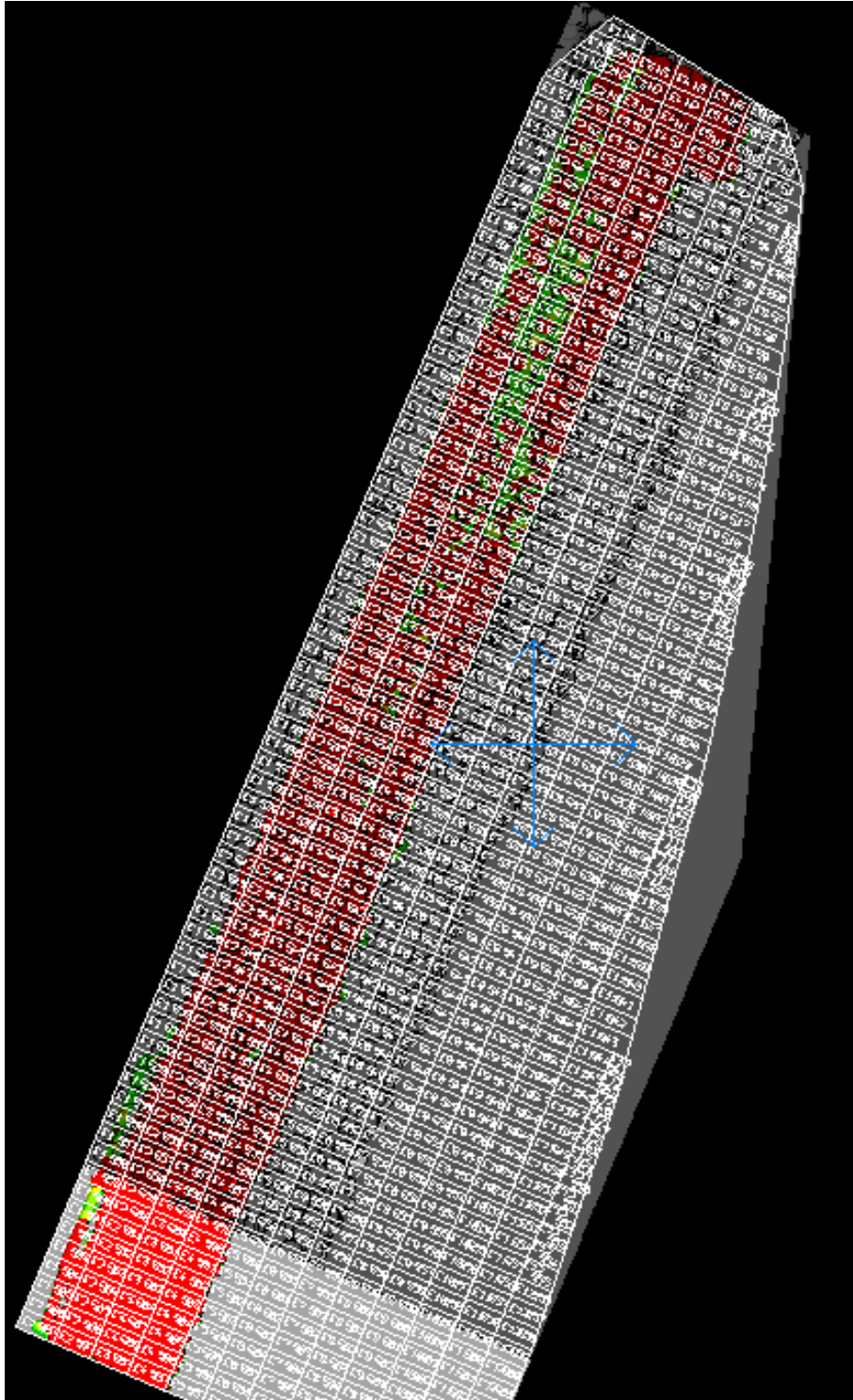
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June 26, 2018



The chart was downloaded from the Dual Axis Blender onboard computer. Green indicates that the mixing level is between 583.5 & 584.0 MSL. Red indicates that the mixing level was below 583.5. The Dual Axis Blender operator mixes through the sludge until the mixer contacts solid soil. Note that in the western ends of the five northern most cells solid soil was contacted above 584. The bottom of the mixing area was apparently tapered in that area. On all other cells solid soil was encountered below 584 in all places and below 583.5 in much of the area.



The chart below was downloaded from the LTC Slurry Plant onboard computer. It shows the cell designation and the quantity of Portland cement delivered into the cell. Cells with a B designation are where solid soil was encountered deeper than 583.5. Additional PC was added to the cell to maintain the correct PC/sludge ratio.

Date	Time	Cell	lb	Time	Cell	lb
6/26/2018	6:23:08 AM	E4S31	5,120	10:14:38 AM	E4S52	1,810
6/26/2018	6:25:10 AM	E4S31B	1,160	10:17:43 AM	E4S52B	1,720
6/26/2018	6:34:55 AM	E4S32	4,890	10:24:42 AM	E4S53	1,720
6/26/2018	6:37:00 AM	E4S32B	1,150	10:28:38 AM	E4S53B	1,720
6/26/2018	6:46:18 AM	E4S33	4,670	10:32:44 AM	E4S54	1,390
6/26/2018	6:49:24 AM	E4S33B	1,720	10:37:56 AM	E4S54B	2,300
6/26/2018	7:00:00 AM	E4S34	4,320	10:52:13 AM	E4S55	1,580
6/26/2018	7:03:17 AM	E4S34B	1,720	10:58:02 AM	E4S55B	2,290
6/26/2018	7:13:36 AM	E4S35	4,200	11:04:54 AM	E4S56	1,740
6/26/2018	7:16:33 AM	E4S35B	1,720	11:08:58 AM	E4S56B	2,300
6/26/2018	7:29:46 AM	E4S36	3,550	11:15:00 AM	E4S57	1,560
6/26/2018	7:32:43 AM	E4S36B	1,720	11:19:44 AM	E4S57B	2,290
6/26/2018	7:41:13 AM	E4S37	3,470	11:24:39 AM	E4S58	1,490
6/26/2018	7:43:28 AM	E4S37B	1,150	11:28:41 AM	E4S58B	2,290
6/26/2018	7:51:25 AM	E4S38	3,080	11:33:28 AM	E4S59	1,350
6/26/2018	7:53:48 AM	E4S38B	1,150	11:37:38 AM	E4S59B	2,310
6/26/2018	8:01:01 AM	E4S39	3,130	11:42:53 AM	E4S60	1,280
6/26/2018	8:03:08 AM	E4S39B	1,150	11:47:23 AM	E4S60	2,290
6/26/2018	8:10:05 AM	E4S40	3,600	11:50:54 AM	E4S61	1,220
6/26/2018	8:12:26 AM	E4S40B	1,150	11:54:14 AM	E4S61B	1,720
6/26/2018	8:26:10 AM	E4S41	3,120	12:02:41 PM	E4S62	1,050
6/26/2018	8:28:21 AM	E4S41B	1,150	12:06:07 PM	E4S62B	1,720
6/26/2018	8:34:30 AM	E4S42	3,090	12:09:39 PM	E4S63	1,170
6/26/2018	8:37:25 AM	E4S42B	1,720	12:13:17 PM	E4S63B	1,720
6/26/2018	8:44:58 AM	E4S43	2,660	12:17:50 PM	E4S64	1,000
6/26/2018	8:47:21 AM	E4S43B	1,150	12:22:18 PM	E4S64B	1,720
6/26/2018	8:53:13 AM	E4S44	2,550	12:25:30 PM	E4S65	1,070
6/26/2018	8:55:37 AM	E4S44B	1,160	12:28:45 PM	E4S65B	1,720
6/26/2018	9:03:52 AM	E4S45	2,960	12:34:39 PM	E4S66	1,560
6/26/2018	9:05:58 AM	E4S45B	1,150	12:37:52 PM	E4S66B	1,720
6/26/2018	9:11:42 AM	E4S46	2,320	12:41:13 PM	E4S67	1,430
6/26/2018	9:13:42 AM	E4S46B	1,150	12:46:08 PM	E4S67B	1,720
6/26/2018	9:26:51 AM	E4S47	2,040	1:15:14 PM	E5N3	2,620
6/26/2018	9:29:17 AM	E4S47B	1,150	1:17:35 PM	E5N3B	1,160
6/26/2018	9:33:58 AM	E4S48	1,900	1:25:48 PM	E5N2	2,560
6/26/2018	9:36:09 AM	E4S48B	1,150	1:30:06 PM	E5N2B	1,170
6/26/2018	9:42:22 AM	E4S49	2,010	1:39:41 PM	E5N1	2,580
6/26/2018	9:44:52 AM	E4S49B	1,150	1:44:12 PM	E5N1B	1,720
6/26/2018	9:49:48 AM	E4S50	2,090	1:53:59 PM	E5S1	2,560
6/26/2018	9:52:13 AM	E4S50B	1,150	2:03:14 PM	E5S1B	1,250
6/26/2018	10:04:41 AM	E4S51	1,920			69,590
6/26/2018	10:07:32 AM	E4S51B	1,720		Total pc lbs	163,870
			94,280			

The chart below is a summary of the soil volume mixed and the quantity of Portland cement delivered to the site, on hand and used in the ISS operation. This information is taken from the Excel workbook created for this project and updated each work day.

Total PC Delivered to Site	1,246,900	On Hand End of Day		Soil Volume Mixed	
Total PC Cell Qt'ys Sheet	1,119,088	Truck	2,010	Total yd^3	9,050.15
Total from Plant Scale	1,196,680	Silo 1	50,250	yd^3 today	1,115.75
PC Today Cell Qt'ys Sheet	116,941	Silo 2	820		
		Total	53,080		
Plant Scale + On Hand			1,249,760		
		Error lb	-2,860		
		Error %	-0.23%		

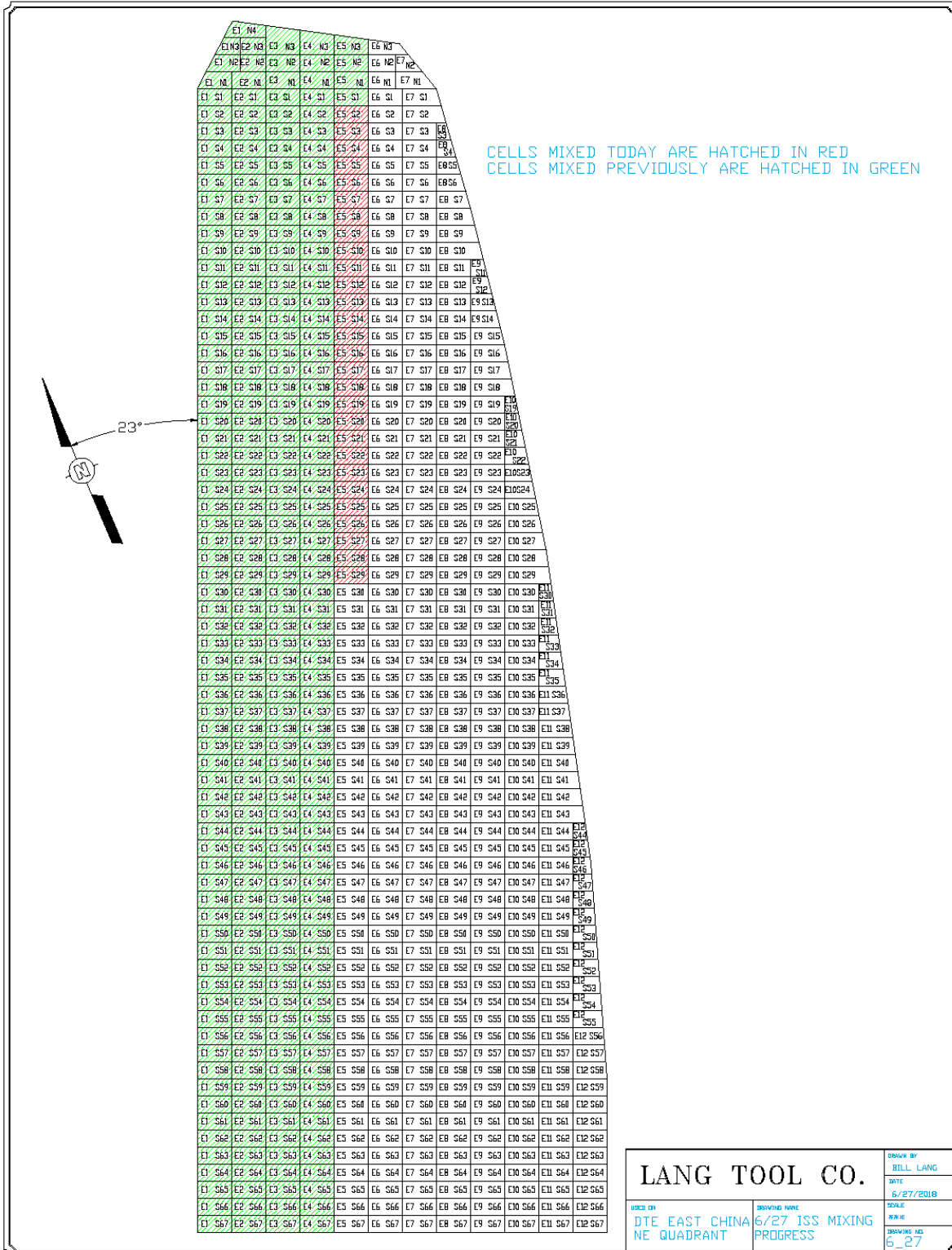
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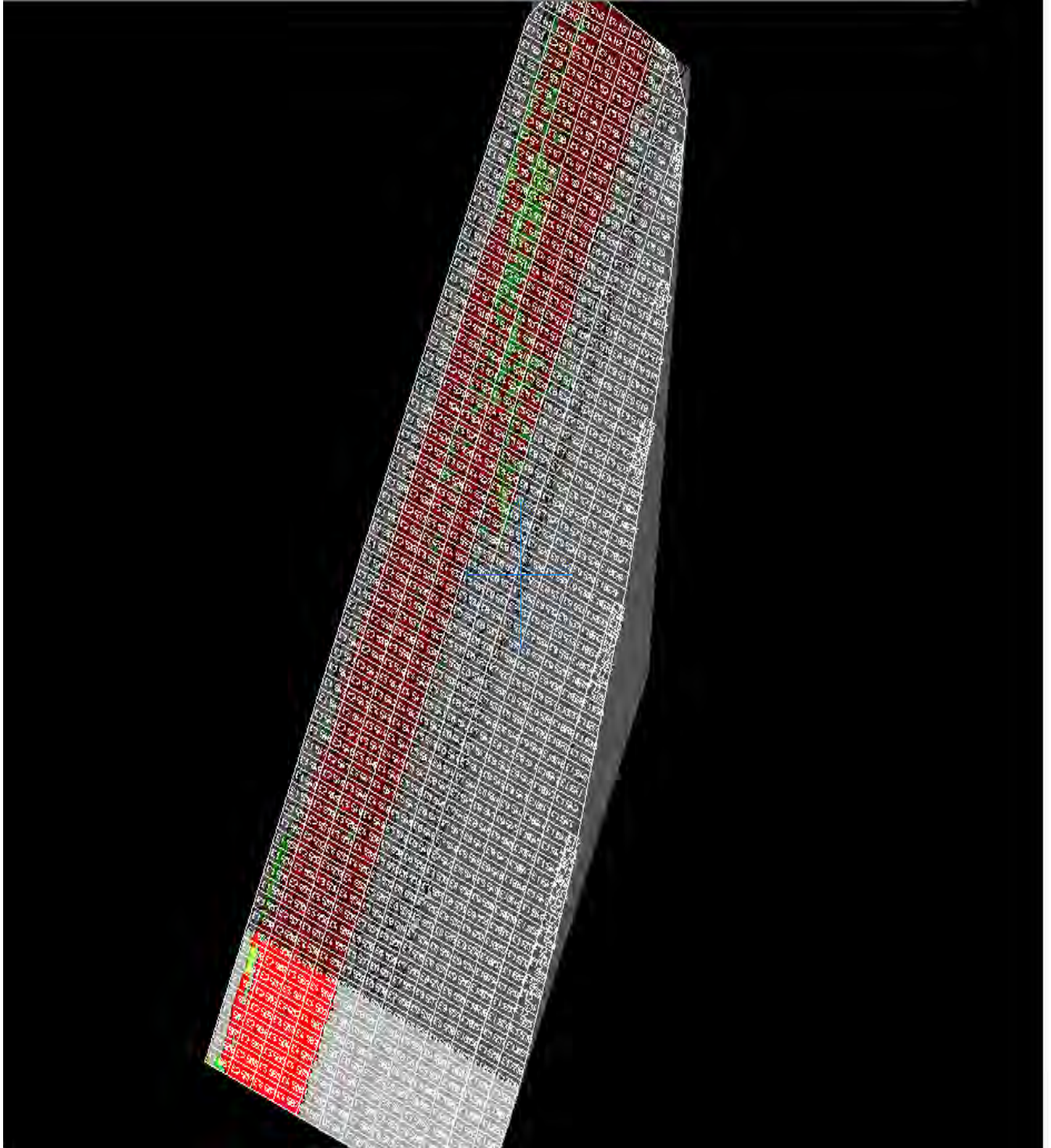
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June 27, 2018



The chart was downloaded from the Dual Axis Blender onboard computer. Green indicates that the mixing level is between 583.5 & 584.0 MSL. Red indicates that the mixing level was below 583.5. The Dual Axis Blender operator mixes through the sludge until the mixer contacts solid soil. Note that in the western ends of the five northern most cells solid soil was contacted above 584. The bottom of the mixing area was apparently tapered in that area. On all other cells solid soil was encountered below 584 in all places and below 583.5 in much of the area.



The chart below was downloaded from the LTC Slurry Plant onboard computer. It shows the cell designation and the quantity of Portland cement delivered into the cell. Cells with a B designation are where solid soil was encountered deeper than 583.5. Additional PC was added to the cell to maintain the correct PC/sludge ratio.

Date	Time	Cell	lb	Time	Cell	lb
6/27/2018	6:24:50 AM	E5S2	2,570	8:18:23 AM	E5S13B	1,150
6/27/2018	6:26:45 AM	E5S2B	1,150	8:28:38 AM	E5S14	5,170
6/27/2018	6:31:24 AM	E5S3	2,560	8:30:42 AM	E5S14B	1,150
6/27/2018	6:33:28 AM	E5S3B	1,150	8:48:52 AM	E5S15	5,170
6/27/2018	6:41:11 AM	E5S4	2,570	8:50:59 AM	E5S15B	1,150
6/27/2018	6:43:30 AM	E5S4B	1,150	9:01:12 AM	E5S16	5,170
6/27/2018	6:48:07 AM	E5S5	2,570	9:03:18 AM	E5S16B	1,150
6/27/2018	6:50:09 AM	E5S5B	1,150	9:13:53 AM	E5S17	5,180
6/27/2018	6:55:28 AM	E5S6	2,570	9:16:03 AM	E5S17B	1,150
6/27/2018	6:58:05 AM	E5S6B	1,150	9:29:16 AM	E5S18	5,180
6/27/2018	7:10:07 AM	E5S7	2,570	9:31:24 AM	E5S18B	1,150
6/27/2018	7:12:27 AM	E5S7B	1,150	9:42:13 AM	E5S19	5,180
6/27/2018	7:18:01 AM	E5S8	2,570	9:57:41 AM	E5S20	6,020
6/27/2018	7:20:04 AM	E5S8B	1,150	11:58:16 AM	E5S21	7,310
6/27/2018	7:25:29 AM	E5S9	2,560	12:10:13 PM	E5S22	6,840
6/27/2018	7:27:49 AM	E5S9B	1,150	12:24:22 PM	E5S23	6,370
6/27/2018	7:35:14 AM	E5S10	2,570	12:37:19 PM	E5S24	5,730
6/27/2018	7:37:06 AM	E5S10B	1,150	12:46:53 PM	E5S25	5,480
6/27/2018	7:46:12 AM	E5S11	5,180	1:06:28 PM	E5S26	5,430
6/27/2018	7:48:20 AM	E5S11B	1,150	1:16:08 PM	E5S27	4,730
6/27/2018	8:00:04 AM	E5S12	5,180	1:28:47 PM	E5S28	4,770
6/27/2018	8:02:37 AM	E5S12B	1,170	1:38:49 PM	E5S29	4,850
6/27/2018	8:16:22 AM	E5S13	5,170			95,480
			51,310		Total pc lbs	146,790

The chart below is a summary of the soil volume mixed and the quantity of Portland cement delivered to the site, on hand and used in the ISS operation. This information is taken from the Excel workbook created for this project and updated each work day.

Total PC Delivered to Site	1,447,580	On Hand End of Day		Soil Volume Mixed	
Total PC Cell Qt'ys Sheet	1,309,631	Truck	25,330	Total yd^3	10,097.70
Total from Plant Scale	1,343,470	Silo 1	50,840	yd^3 today	1,047.60
PC Today Cell Qt'ys Sheet	146,790	Silo 2	29,950		
		Total	106,120		
Plant Scale + On Hand			1,449,590		
		Error lb	-2,010		
		Error %	-0.14%		

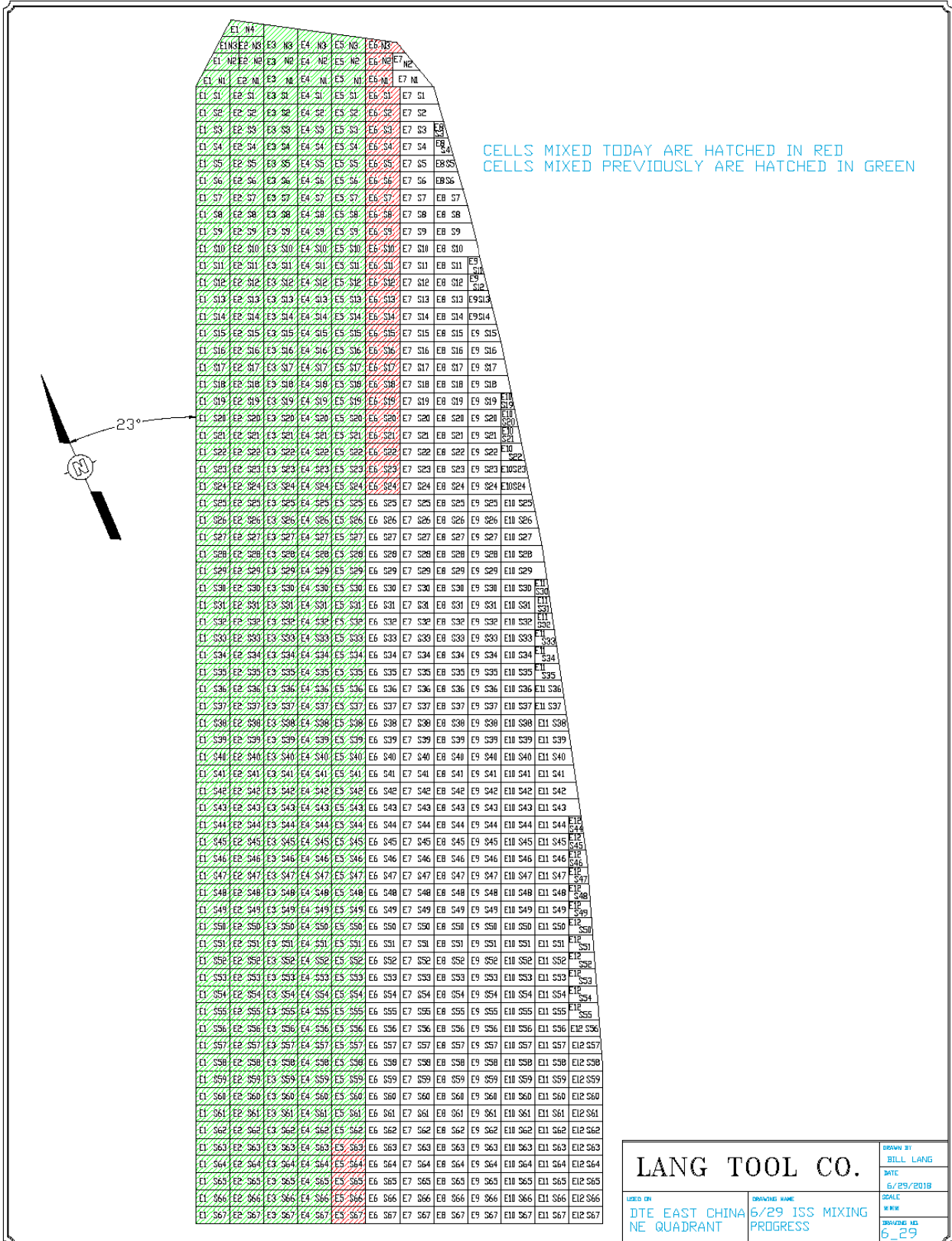
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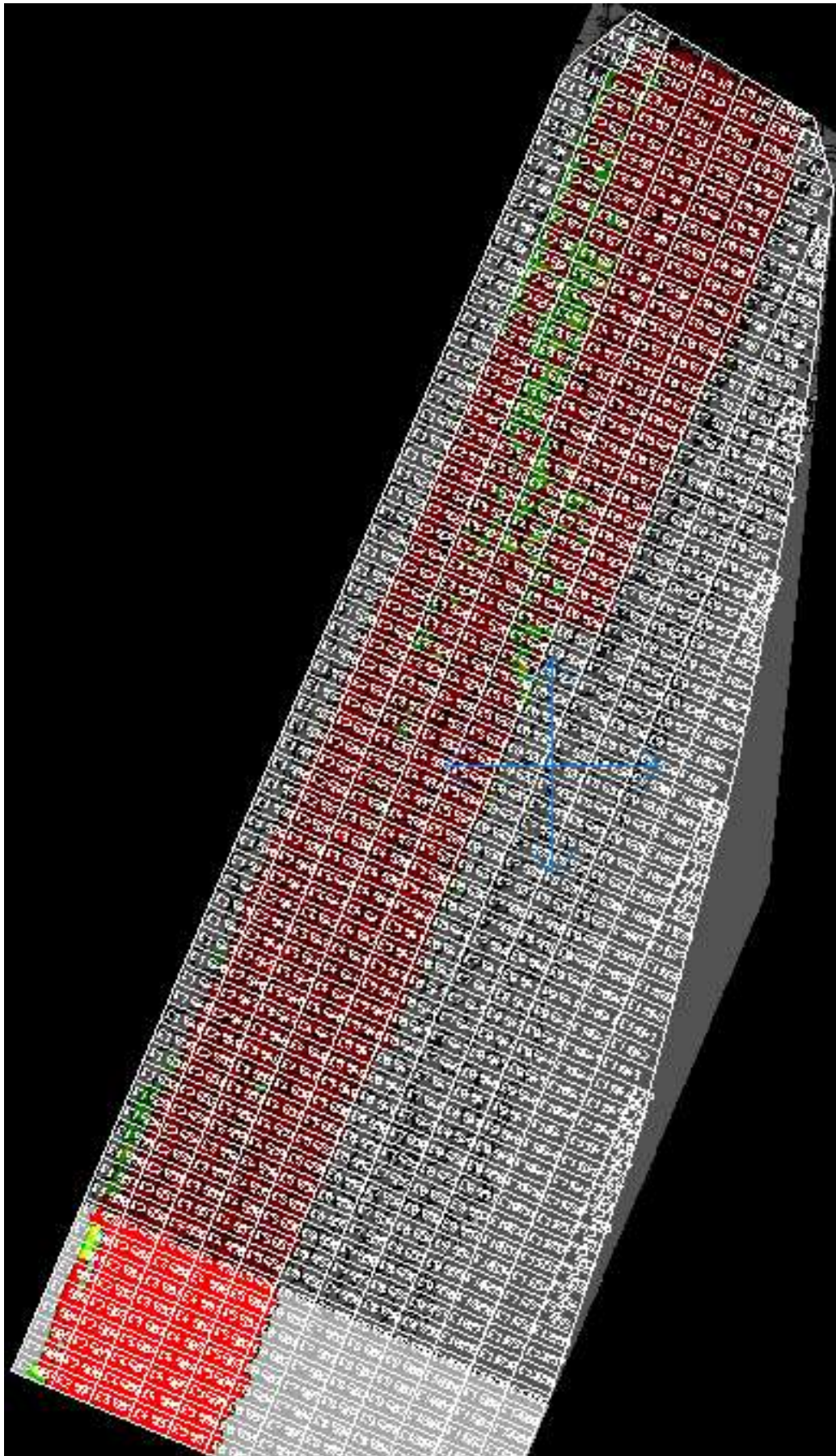
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June 29, 2018





The chart was downloaded from the Dual Axis Blender onboard computer. Green indicates that the mixing level is between 583.5 & 584.0 MSL. Red indicates that the mixing level was below 583.5. The Dual Axis Blender operator mixes through the sludge until the mixer contacts solid soil. Note that in the western ends of the five northern most cells solid soil was contacted above 584. The bottom of the mixing area was apparently tapered in that area. On all other cells solid soil was encountered below 584 in all places and below 583.5 in much of the area.

The chart below was downloaded from the LTC Slurry Plant onboard computer. It shows the cell designation and the quantity of Portland cement delivered into the cell. Cells with a B designation are where solid soil was encountered deeper than 583.5. Additional PC was added to the cell to maintain the correct PC/sludge ratio.

Date	Time	Cell	lb	Time	Cell	lb
6/29/2018	7:00:05 AM	E5S63	1,880	10:12:50 AM	E6S9B	1,720
6/29/2018	7:05:55 AM	E5S63B	2,290	10:23:09 AM	E6S10	3,780
6/29/2018	7:09:49 AM	E5S64	1,650	10:26:25 AM	E6S10B	1,720
6/29/2018	7:13:38 AM	E5S64B	2,290	10:44:29 AM	E6S11	3,790
6/29/2018	7:17:41 AM	E5S65	1,640	10:48:06 AM	E6S11B	1,720
6/29/2018	7:21:33 AM	E5S65B	2,300	11:05:12 AM	E6S12	6,220
6/29/2018	7:26:11 AM	E5S66	1,650	11:08:09 AM	E6S12B	1,150
6/29/2018	7:30:04 AM	E5S66B	2,290	11:24:23 AM	E6S13	6,210
6/29/2018	7:33:34 AM	E5S67	1,640	11:27:45 AM	E6S13B	1,720
6/29/2018	7:37:24 AM	E5S67B	2,300	11:43:33 AM	E6S14	6,210
6/29/2018	8:02:16 AM	E6N3	3,280	11:46:12 AM	E6S14B	1,160
6/29/2018	8:05:52 AM	E6N3B	1,720	12:08:30 PM	E6S15	6,230
6/29/2018	8:11:06 AM	E6N2	2,450	12:11:01 PM	E6S15B	1,160
6/29/2018	8:14:22 AM	E6N2B	1,730	12:26:12 PM	E6S16	6,220
6/29/2018	8:22:03 AM	E6N1	2,460	12:28:35 PM	E6S16B	1,150
6/29/2018	8:25:33 AM	E6N1B	1,720	12:52:28 PM	E6S17	6,230
6/29/2018	8:31:21 AM	E6S1	3,100	12:54:47 PM	E6S17B	1,150
6/29/2018	8:34:23 AM	E6S1B	1,730	1:08:51 PM	E6S18	6,220
6/29/2018	8:43:31 AM	E6S2	3,080	1:11:04 PM	E6S18B	1,160
6/29/2018	8:46:35 AM	E6S2B	1,730	1:27:40 PM	E6S19	6,220
6/29/2018	8:53:10 AM	E6S3	3,080	1:30:01 PM	E6S19B	1,150
6/29/2018	8:55:27 AM	E6S3B	1,160	1:52:50 PM	E6S20	6,990
6/29/2018	9:14:08 AM	E6S4	3,240	1:55:15 PM	E6S20B	1,150
6/29/2018	9:16:17 AM	E6S4B	1,150	2:10:19 PM	E6S21	6,640
6/29/2018	9:22:14 AM	E6S5	3,230	2:12:39 PM	E6S21B	1,150
6/29/2018	9:25:13 AM	E6S5B	1,730	2:29:51 PM	E6S22	6,400
6/29/2018	9:34:19 AM	E6S6	3,240	2:32:12 PM	E6S22B	1,150
6/29/2018	9:37:13 AM	E6S6B	1,720	2:49:28 PM	E6S23	6,230
6/29/2018	9:47:01 AM	E6S7	3,250	2:52:26 PM	E6S23B	1,150
6/29/2018	9:50:41 AM	E6S7B	1,720	3:09:39 PM	E6S24	5,700
6/29/2018	10:00:07 AM	E6S8	3,230	3:13:02 PM	E6S24B	1,150
6/29/2018	10:03:01 AM	E6S8B	1,720			110,000
6/29/2018	10:09:40 AM	E6S9	3,770	Total PC lbs		185,170
			75,170	Total PC Tons		92.585

The chart below is a summary of the soil volume mixed and the quantity of Portland cement delivered to the site, on hand and used in the ISS operation. This information is taken from the Excel workbook created for this project and updated each work day.

Total PC Delivered to Site	1,742,060	On Hand End of Day		Soil Volume Mixed	
Total PC Cell Qt'ys Sheet	1,638,407	Truck	2,740	Total yd^3	12,229.85
Total from Plant Scale	1,681,110	Silo 1	54,950	yd^3 today	1,183.15
PC Today Cell Qt'ys Sheet	182,446	Silo 2	3,890		
		Total	61,580		
Plant Scale + On Hand			1,742,690		
		Error lb	-630		
		Error %	-0.04%		

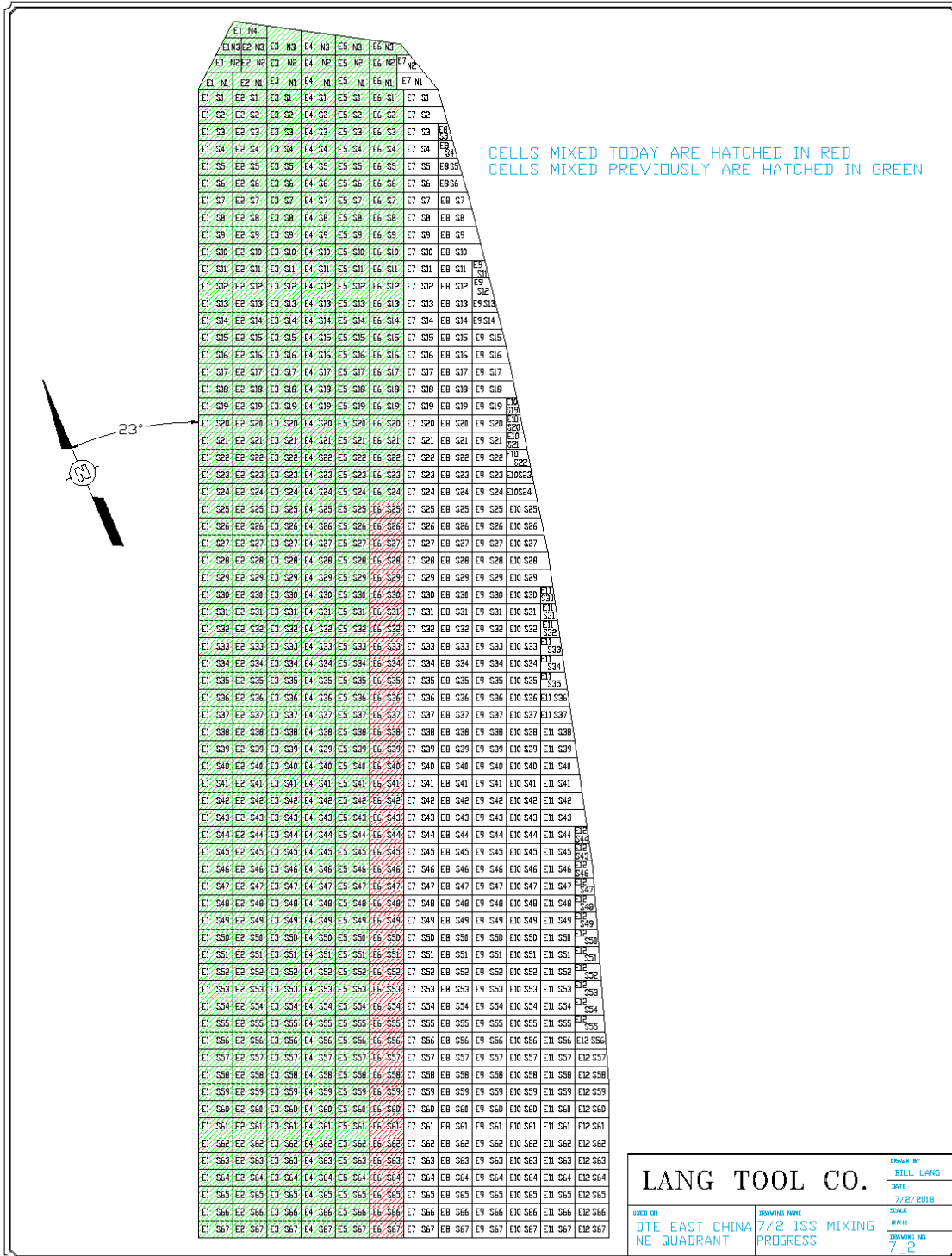
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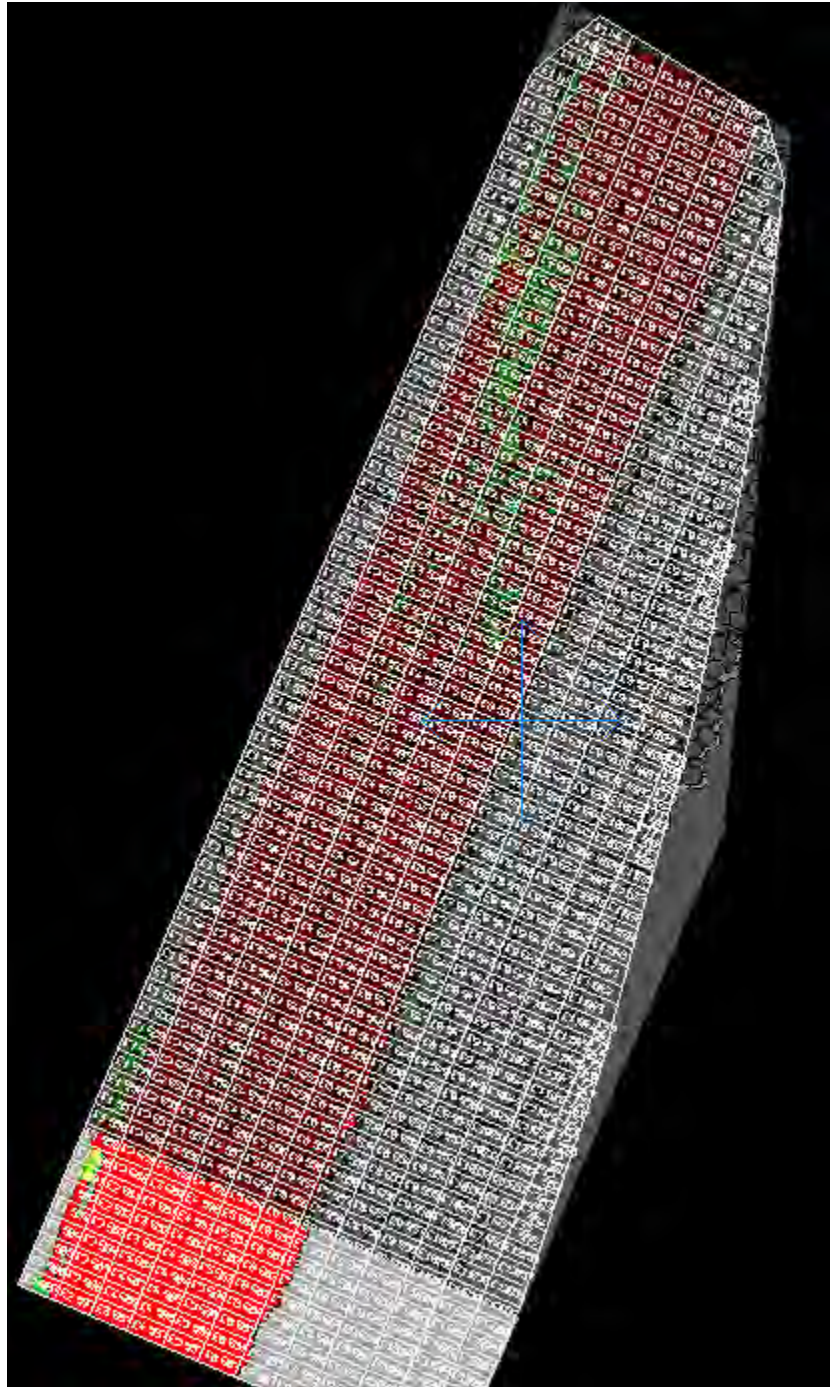
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July 2, 2018





The chart was downloaded from the Dual Axis Blender onboard computer. Green indicates that the mixing level is between 583.5 & 584.0 MSL. Red indicates that the mixing level was below 583.5. The Dual Axis Blender operator mixes through the sludge until the mixer contacts solid soil. Note that in the western ends of the five northern most cells solid soil was contacted above 584. The bottom of the mixing area was apparently tapered in that area. On all other cells solid soil was encountered below 584 in all places and below 583.5 in much of the area.

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Date	Time	Cell	lb	Time	Cell	lb
7/2/2018	6:29:35 AM	E6S25	5,420	10:46:38 AM	E6S47	1,470
7/2/2018	6:31:28 AM	E6S25B	1,160	10:50:38 AM	E6S47B	2,290
7/2/2018	6:41:50 AM	E6S26	4,540	11:02:00 AM	E6S48	1,620
7/2/2018	6:43:50 AM	E6S26B	1,160	11:06:09 AM	E6S48B	2,290
7/2/2018	6:55:07 AM	E6S27	4,580	11:09:59 AM	E6S49	1,430
7/2/2018	6:57:03 AM	E6S27B	1,160	11:14:08 AM	E6S49B	2,290
7/2/2018	7:06:07 AM	E6S28	4,370	11:19:29 AM	E6S50	1,730
7/2/2018	7:08:17 AM	E6S28B	1,230	11:23:37 AM	E6S50B	2,290
7/2/2018	7:19:17 AM	E6S29	4,250	11:28:15 AM	E6S51	1,640
7/2/2018	7:21:19 AM	E6S29B	1,160	11:32:33 AM	E6S51B	2,290
7/2/2018	7:31:06 AM	E6S30	4,310	11:37:25 AM	E6S52	1,730
7/2/2018	7:33:22 AM	E6S30B	1,150	11:41:40 AM	E6S52B	2,290
7/2/2018	7:45:36 AM	E6S31	3,990	11:50:33 AM	E6S53	1,840
7/2/2018	7:48:01 AM	E6S31B	1,150	11:54:37 AM	E6S53B	2,290
7/2/2018	7:56:09 AM	E6S32	3,940	11:59:08 AM	E6S54	1,720
7/2/2018	7:58:18 AM	E6S32B	1,150	12:03:25 PM	E6S54B	2,290
7/2/2018	8:06:20 AM	E6S33	3,770	12:09:03 PM	E6S55	1,430
7/2/2018	8:08:34 AM	E6S33B	1,150	12:13:29 PM	E6S55B	2,290
7/2/2018	8:16:51 AM	E6S34	3,960	12:18:13 PM	E6S56	1,640
7/2/2018	8:18:53 AM	E6S34B	1,150	12:22:20 PM	E6S56B	2,300
7/2/2018	8:27:53 AM	E6S35	4,080	12:27:26 PM	E6S57	1,460
7/2/2018	8:30:08 AM	E6S35B	1,150	12:31:35 PM	E6S57B	2,290
7/2/2018	8:39:30 AM	E6S36	4,160	12:39:21 PM	E6S58	1,310
7/2/2018	8:51:19 AM	E6S36B	1,150	12:43:31 PM	E6S58B	2,290
7/2/2018	9:03:38 AM	E6S37	3,900	12:48:44 PM	E6S59	1,280
7/2/2018	9:05:55 AM	E6S37B	1,150	12:52:43 PM	E6S59B	2,290
7/2/2018	9:14:13 AM	E6S38	3,390	12:57:59 PM	E6S60	1,490
7/2/2018	9:16:19 AM	E6S38B	1,150	1:02:17 PM	E6S60B	2,310
7/2/2018	9:24:20 AM	E6S39	3,510	1:08:28 PM	E6S61	1,560
7/2/2018	9:26:29 AM	E6S39B	1,150	1:13:14 PM	E6S61B	2,290
7/2/2018	9:36:12 AM	E6S40	3,260	1:24:22 PM	E6S62	1,780
7/2/2018	9:38:17 AM	E6S40B	1,150	1:28:33 PM	E6S62B	2,290
7/2/2018	9:46:19 AM	E6S41	3,050	1:33:31 PM	E6S63	1,710
7/2/2018	9:48:21 AM	E6S41B	1,160	1:37:26 PM	E6S63B	2,290
7/2/2018	9:57:27 AM	E6S42	2,530	1:43:01 PM	E6S64	1,660
7/2/2018	10:00:20 AM	E6S42B	1,720	1:47:37 PM	E6S64B	2,290
7/2/2018	10:06:40 AM	E6S43	2,060	1:53:20 PM	E6S65	1,610
7/2/2018	10:09:53 AM	E6S43B	1,720	1:57:28 PM	E6S65B	2,290
7/2/2018	10:15:48 AM	E6S44	1,840	2:02:29 PM	E6S66	1,670
7/2/2018	10:18:58 AM	E6S44B	1,720	2:06:38 PM	E6S66B	2,290

7/2/2018	10:25:11 AM	E6S45	1,730	2:10:42 PM	E6S67	1,620
7/2/2018	10:29:24 AM	E6S45B	2,300	2:14:28 PM	E6S67B	2,300
7/2/2018	10:37:56 AM	E6S46	1,700			81,530
7/2/2018	10:41:39 AM	E6S46B	2,290		Total PC lbs	189,300
			107,770			

The chart below is a summary of the soil volume mixed and the quantity of Portland cement delivered to the site, on hand and used in the ISS operation. This information is taken from the Excel workbook created for this project and updated each work day.

Total PC Delivered to Site	1,988,100	On Hand End of Day		Soil Volume Mixed	
Total PC Cell Qt'ys Sheet	1,826,874	Truck	14,510	Total yd^3	13,452.07
Total from Plant Scale	1,870,410	Silo 1	61,180	yd^3 today	1,222.27
PC Today Cell Qt'ys Sheet	188,467	Silo 2	42,830		
		Total	118,520		
		Plant Scale + On Hand	1,988,930		
		Error lb	-830		
		Error %	-0.04%		

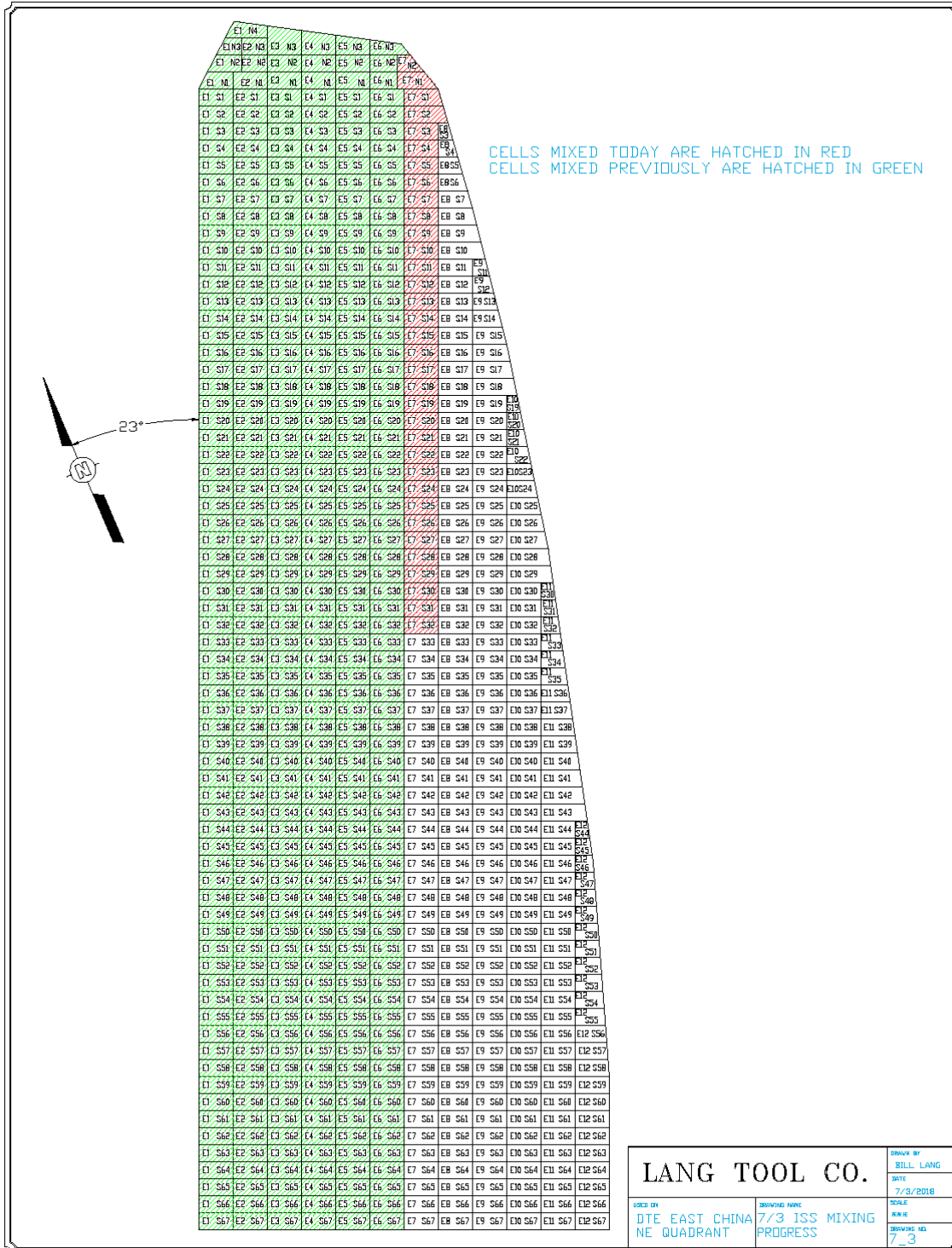
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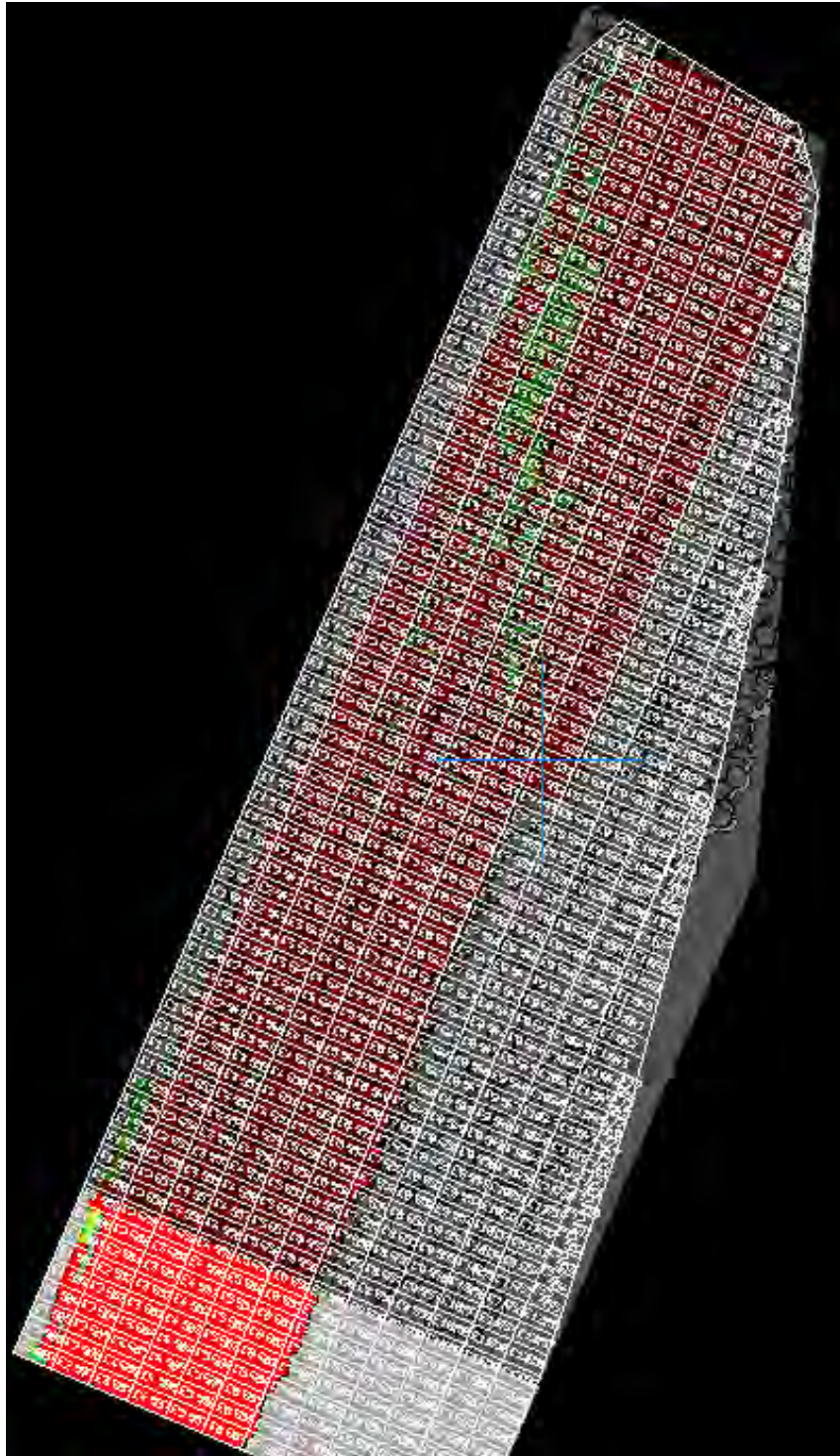
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July 3, 2018





The chart was downloaded from the Dual Axis Blender onboard computer. Green indicates that the mixing level is between 583.5 & 584.0 MSL. Red indicates that the mixing level was below 583.5. The Dual Axis Blender operator mixes through the sludge until the mixer contacts solid soil. Note that in the western ends of the five northern most cells solid soil was contacted above 584. The bottom of the mixing area was apparently tapered in that area. On all other cells solid soil was encountered below 584 in all places and below 583.5 in much of the area.

The chart below was downloaded from the LTC Slurry Plant onboard computer. It shows the cell designation and the quantity of Portland cement delivered into the cell. Cells with a B designation are where solid soil was encountered deeper than 583.5. Additional PC was added to the cell to maintain the correct PC/sludge ratio.

Date	Time	Cell	lb	Time	Cell	lb
7/3/2018	6:16:45 AM	E7N2	2,110	10:08:37 AM	E7S17B	1,170
7/3/2018	6:20:48 AM	E7N1	2,100	10:22:47 AM	E7S18	6,210
7/3/2018	6:28:13 AM	E7S1	3,810	10:24:58 AM	E7S18B	1,150
7/3/2018	6:38:35 AM	E7S2	4,320	10:39:46 AM	E7S19	6,210
7/3/2018	6:48:10 AM	E7S3	3,560	10:41:44 AM	E7S19B	1,150
7/3/2018	6:50:18 AM	E7S3B	1,160	10:56:28 AM	E7S20	6,140
7/3/2018	7:01:22 AM	E7S4	3,570	10:58:34 AM	E7S20B	1,150
7/3/2018	7:04:42 AM	E7S4B	1,720	11:14:46 AM	E7S21	6,270
7/3/2018	7:13:53 AM	E7S5	3,560	11:16:45 AM	E7S21B	1,150
7/3/2018	7:16:55 AM	E7S5B	1,720	11:29:33 AM	E7S22	5,880
7/3/2018	7:26:20 AM	E7S6	3,560	11:31:34 AM	E7S22B	1,150
7/3/2018	7:29:16 AM	E7S6B	1,720	11:49:27 AM	E7S23	5,620
7/3/2018	7:37:30 AM	E7S7	3,560	11:51:42 AM	E7S23B	1,150
7/3/2018	7:40:33 AM	E7S7B	1,720	12:02:58 PM	E7S24	5,270
7/3/2018	7:50:31 AM	E7S8	3,560	12:05:08 PM	E7S24B	1,160
7/3/2018	7:53:41 AM	E7S8B	1,730	12:15:58 PM	E7S25	4,930
7/3/2018	8:03:41 AM	E7S9	3,860	12:18:04 PM	E7S25B	1,150
7/3/2018	8:06:44 AM	E7S9B	1,730	12:28:00 PM	E7S26	4,580
7/3/2018	8:16:33 AM	E7S10	3,860	12:29:58 PM	E7S26B	1,150
7/3/2018	8:19:41 AM	E7S10B	1,720	12:43:27 PM	E7S27	4,090
7/3/2018	8:30:53 AM	E7S11	3,850	12:45:44 PM	E7S27B	1,150
7/3/2018	8:32:57 AM	E7S11B	1,150	12:56:18 PM	E7S28	3,980
7/3/2018	8:42:53 AM	E7S12	3,860	12:58:36 PM	E7S28B	1,160
7/3/2018	8:45:25 AM	E7S12B	1,150	1:12:23 PM	E7S29	4,030
7/3/2018	8:59:45 AM	E7S13	6,210	1:14:31 PM	E7S29B	1,150
7/3/2018	9:02:04 AM	E7S13B	1,150	1:23:35 PM	E7S30	3,840
7/3/2018	9:20:04 AM	E7S14	6,220	1:25:42 PM	E7S30B	1,150
7/3/2018	9:22:16 AM	E7S14B	1,150	1:34:03 PM	E7S31	3,670
7/3/2018	9:34:43 AM	E7S15	6,210	1:36:36 PM	E7S31B	1,150
7/3/2018	9:36:51 AM	E7S15B	1,160	1:44:39 PM	E7S32	3,690
7/3/2018	9:50:48 AM	E7S16	6,210	1:46:49 PM	E7S32B	1,150
7/3/2018	9:52:49 AM	E7S16B	1,160			92,850
7/3/2018	10:06:37 AM	E7S17	6,210			
			100,340	Total PC lbs		193,190

The chart below is a summary of the soil volume mixed and the quantity of Portland cement delivered to the site, on hand and used in the ISS operation. This information is taken from the Excel workbook created for this project and updated each work day.

Total PC Delivered to Site	2,135,000	On Hand End of Day		Soil Volume Mixed	
Total PC Cell Qt'ys Sheet	2,019,440	Truck	8,520	Total yd^3	14,700.87
Total from Plant Scale	2,063,600	Silo 1	8,310	yd^3 today	1,248.77
PC Today Cell Qt'ys Sheet	192,566	Silo 2	54,830		
		Total	71,660		
	Plant Scale + On Hand		2,135,260		
		Error lb	-260		
		Error %	-0.01%		

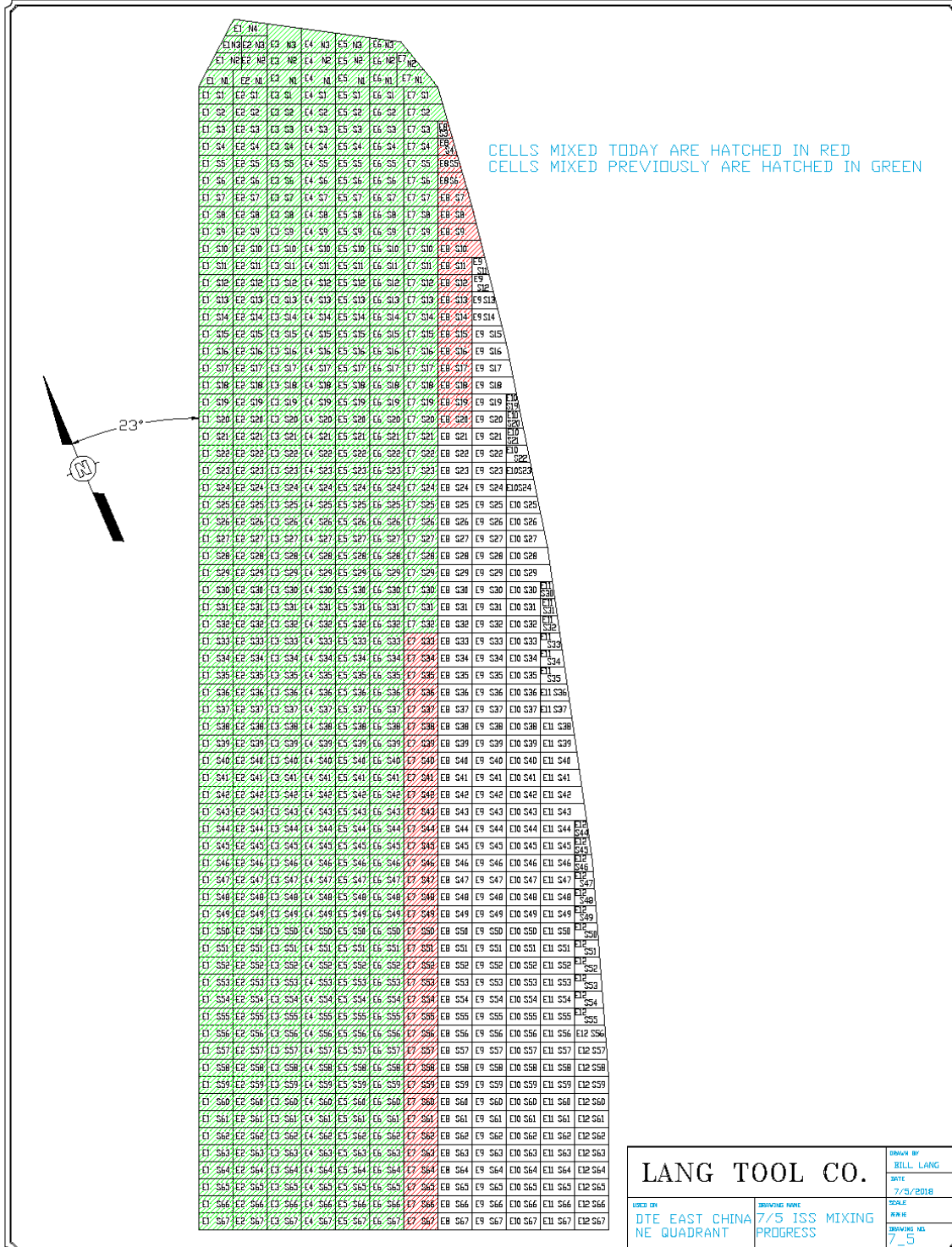
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Beaverton, MI 48612

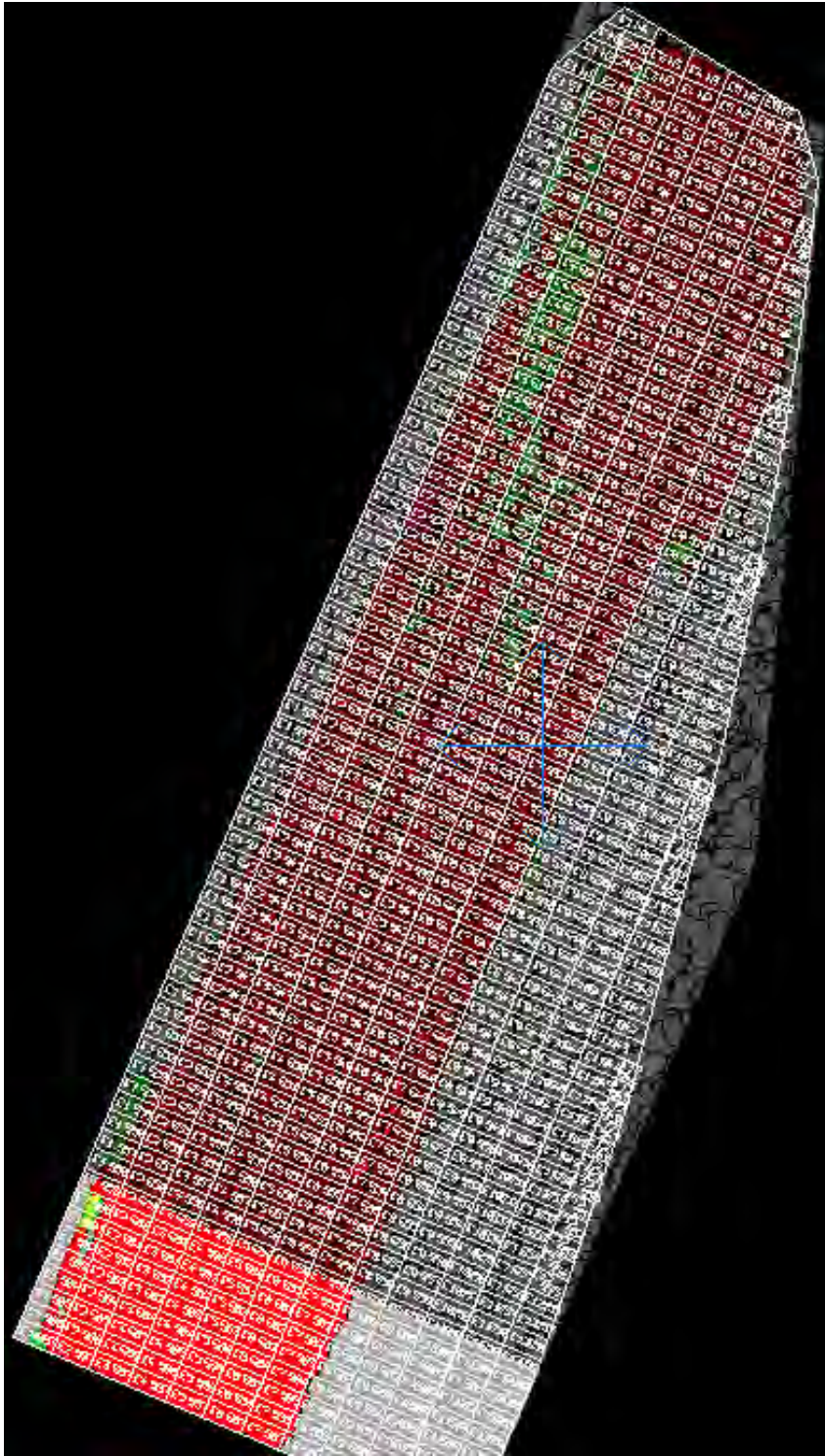
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July 5, 2018



LANG TOOL CO.		DESIGN BY BILL LANG
		DATE 7/5/2018
USED ON DTE EAST CHINA NE QUADRANT	DRAWING NAME 7/5 ISS MIXING PROGRESS	SCALE N/A
		DRAWING NO. 7_5



The chart was downloaded from the Dual Axis Blender onboard computer. Green indicates that the mixing level is between 583.5 & 584.0 MSL. Red indicates that the mixing level was below 583.5. The Dual Axis Blender operator mixes through the sludge until the mixer contacts solid soil. Note that in the western ends of the five northern most cells solid soil was contacted above 584. The bottom of the mixing area was apparently tapered in that area. On all other cells solid soil was encountered below 584 in all places and below 583.5 in much of the area.

The chart below was downloaded from the LTC Slurry Plant onboard computer. It shows the cell designation and the quantity of Portland cement delivered into the cell. Cells with a B designation are where solid soil was encountered deeper than 583.5. Additional PC was added to the cell to maintain the correct PC/sludge ratio.

Date	Time	Cell	lb	Time	Cell	lb
7/5/2018	6:18:49 AM	E7S33	2,790	9:51:13 AM	E7S57B	1,910
7/5/2018	6:20:41 AM	E7S33B	960	9:55:48 AM	E7S58	960
7/5/2018	6:27:52 AM	E7S34	2,820	9:59:52 AM	E7S58B	1,910
7/5/2018	6:29:45 AM	E7S34B	960	10:03:44 AM	E7S59	800
7/5/2018	6:36:25 AM	E7S35	2,710	10:07:39 AM	E7S59B	1,920
7/5/2018	6:38:09 AM	E7S35B	960	10:16:19 AM	E7S60	590
7/5/2018	6:45:04 AM	E7S36	2,780	10:20:43 AM	E7S60B	1,920
7/5/2018	6:46:51 AM	E7S36B	960	10:25:41 AM	E7S61	940
7/5/2018	6:54:02 AM	E7S37	2,910	10:30:12 AM	E7S61B	1,910
7/5/2018	6:55:55 AM	E7S37B	960	10:33:50 AM	E7S62	790
7/5/2018	7:02:57 AM	E7S38	2,860	10:38:30 AM	E7S62B	1,910
7/5/2018	7:04:49 AM	E7S38B	960	10:42:14 AM	E7S63	820
7/5/2018	7:13:19 AM	E7S39	3,040	10:46:19 AM	E7S63B	1,910
7/5/2018	7:14:59 AM	E7S39B	960	10:49:53 AM	E7S64	730
7/5/2018	7:24:41 AM	E7S40	2,660	10:54:06 AM	E7S64B	1,910
7/5/2018	7:26:34 AM	E7S40B	960	11:04:07 AM	E7S65	1,000
7/5/2018	7:33:17 AM	E7S41	2,500	11:08:19 AM	E7S65B	1,910
7/5/2018	7:35:54 AM	E7S41B	1,430	11:13:40 AM	E7S66	1,120
7/5/2018	7:40:42 AM	E7S42	1,760	11:17:23 AM	E7S66B	1,910
7/5/2018	7:43:12 AM	E7S42B	1,440	11:20:52 AM	E7S67	940
7/5/2018	7:48:21 AM	E7S43	1,830	11:25:19 AM	E7S67B	1,910
7/5/2018	7:50:29 AM	E7S43B	960	11:53:48 AM	E8S3	920
7/5/2018	7:58:22 AM	E7S44	1,390	11:57:22 AM	E8S4	1,290
7/5/2018	8:01:07 AM	E7S44B	1,430	12:00:50 PM	E8S5	1,650
7/5/2018	8:05:38 AM	E7S45	1,210	12:05:25 PM	E8S6	2,040
7/5/2018	8:09:24 AM	E7S45B	1,910	12:10:23 PM	E8S7	2,470
7/5/2018	8:13:15 AM	E7S46	1,090	12:21:14 PM	E8S8	2,800
7/5/2018	8:17:20 AM	E7S46B	1,910	12:27:50 PM	E8S9	3,130
7/5/2018	8:20:57 AM	E7S47	1,020	12:37:47 PM	E8S10	3,450
7/5/2018	8:24:39 AM	E7S47B	1,910	12:40:09 PM	E8S10B	1,260
7/5/2018	8:29:17 AM	E7S48	840	12:48:21 PM	E8S11	3,210
7/5/2018	8:33:43 AM	E7S48B	1,910	12:50:37 PM	E8S11B	960
7/5/2018	8:40:59 AM	E7S49	1,020	12:58:51 PM	E8S12	3,220
7/5/2018	8:44:27 AM	E7S49B	1,910	1:00:56 PM	E8S12B	970
7/5/2018	8:48:10 AM	E7S50	940	1:11:57 PM	E8S13	5,190
7/5/2018	8:51:59 AM	E7S50B	1,910	1:13:45 PM	E8S13B	960
7/5/2018	8:55:27 AM	E7S51	960	1:26:11 PM	E8S14	5,180
7/5/2018	8:59:11 AM	E7S51B	1,910	1:28:10 PM	E8S14B	960
7/5/2018	9:03:06 AM	E7S52	700	1:38:52 PM	E8S15	5,170
7/5/2018	9:06:50 AM	E7S52B	1,910	1:40:52 PM	E8S15B	960
7/5/2018	9:11:23 AM	E7S53	770	1:52:44 PM	E8S16	5,170
7/5/2018	9:15:19 AM	E7S53B	1,920	1:54:32 PM	E8S16B	970
7/5/2018	9:19:27 AM	E7S54	890	2:06:46 PM	E8S17	5,180
7/5/2018	9:23:33 AM	E7S54B	1,910	2:08:44 PM	E8S17B	970
7/5/2018	9:32:25 AM	E7S55	930	2:21:30 PM	E8S18	5,170
7/5/2018	9:35:44 AM	E7S55B	1,910	2:35:28 PM	E8S19	5,180
7/5/2018	9:40:00 AM	E7S56	940	2:46:45 PM	E8S20	5,820
7/5/2018	9:43:40 AM	E7S56B	1,920			103,970
7/5/2018	9:47:17 AM	E7S57	800			
			78,040		Total PC lbs	182,010

The chart below is a summary of the soil volume mixed and the quantity of Portland cement delivered to the site, on hand and used in the ISS operation. This information is taken from the Excel workbook created for this project and updated each work day.

Total PC Delivered to Site	2,382,220	On Hand End of Day		Soil Volume Mixed	
Total PC Cell Qt'ys Sheet	2,200,658	Truck	18,750	Total yd ³	16,111.13
Total from Plant Scale	2,245,610	Silo 1	59,240	yd ³ today	1,410.23
PC Today Cell Qt'ys Sheet	181,218	Silo 2	59,780		
		Total	137,770		
	Plant Scale + On Hand		2,383,380		
		Error lb	-1,160		
		Error %	-0.05%		

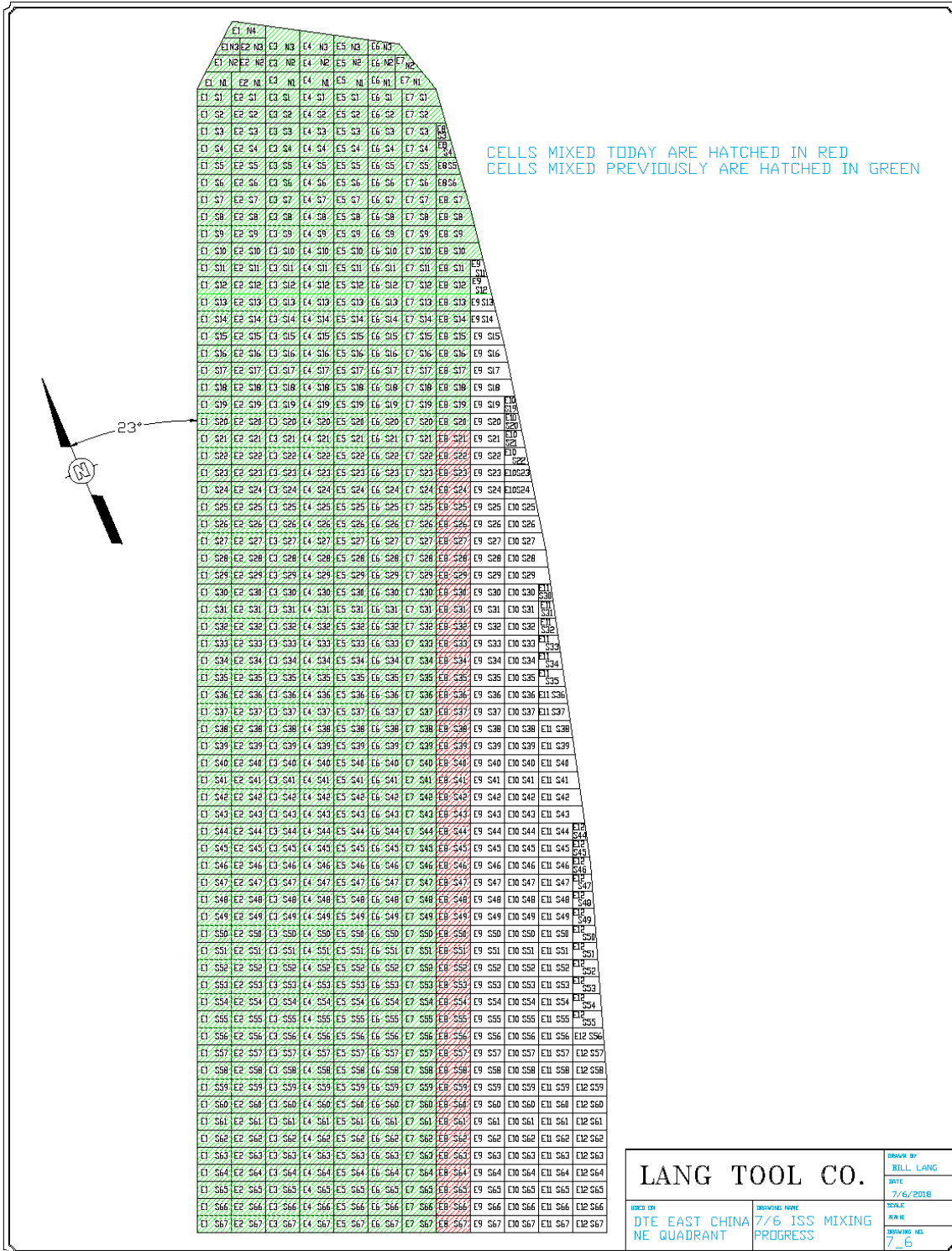
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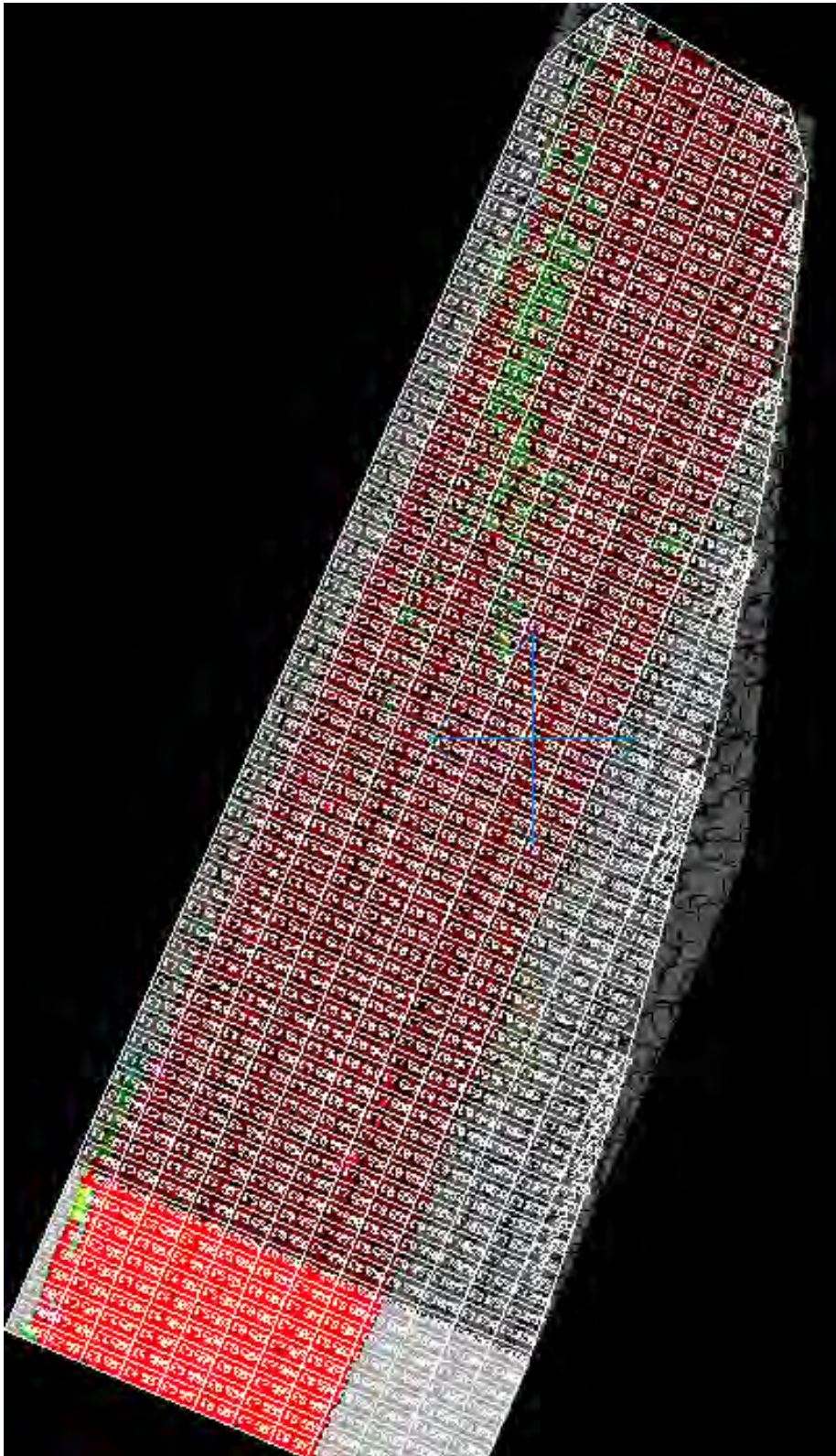
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July 6, 2018





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Date	Time	Cell	lb	Time	Cell	lb
7/6/2018	6:27:00 AM	E8S21	5,940	10:38:39 AM	E8S45	1,420
7/6/2018	6:37:52 AM	E8S22	5,310	10:41:54 AM	E8S45B	1,910
7/6/2018	6:39:30 AM	E8S22B	960	10:46:21 AM	E8S46	1,390
7/6/2018	6:56:42 AM	E8S23	4,920	10:49:54 AM	E8S46B	1,910
7/6/2018	6:58:17 AM	E8S23B	960	10:54:58 AM	E8S47	1,170
7/6/2018	7:07:40 AM	E8S24	4,550	10:58:05 AM	E8S47B	1,910
7/6/2018	7:09:23 AM	E8S24B	960	11:03:51 AM	E8S48	1,090
7/6/2018	7:19:15 AM	E8S25	4,180	11:07:04 AM	E8S48B	1,910
7/6/2018	7:21:01 AM	E8S25B	970	11:11:57 AM	E8S49	960
7/6/2018	7:31:00 AM	E8S26	3,950	11:14:58 AM	E8S49B	1,910
7/6/2018	7:32:45 AM	E8S26B	960	11:25:50 AM	E8S50	910
7/6/2018	7:41:11 AM	E8S27	3,610	11:28:43 AM	E8S50B	1,920
7/6/2018	7:43:26 AM	E8S27B	960	11:31:23 AM	E8S51	740
7/6/2018	7:51:37 AM	E8S28	3,520	11:34:32 AM	E8S51	1,920
7/6/2018	7:53:49 AM	E8S28B	980	11:37:57 AM	E8S52	680
7/6/2018	8:04:48 AM	E8S29	3,140	11:40:42 AM	E8S52B	1,920
7/6/2018	8:06:33 AM	E8S29B	970	11:43:58 AM	E8S53	800
7/6/2018	8:14:47 AM	E8S30	3,350	11:47:17 AM	E8S53B	1,920
7/6/2018	8:16:35 AM	E8S30B	960	11:49:59 AM	E8S54	670
7/6/2018	8:24:35 AM	E8S31	3,220	11:52:52 AM	E8S54B	1,910
7/6/2018	8:26:11 AM	E8S31B	960	12:02:57 PM	E8S55	800
7/6/2018	8:34:12 AM	E8S32	2,990	12:05:38 PM	E8S55B	1,910
7/6/2018	8:35:53 AM	E8S32B	960	12:09:39 PM	E8S56	840
7/6/2018	8:45:27 AM	E8S33	2,930	12:13:00 PM	E8S56B	1,920
7/6/2018	8:47:09 AM	E8S33B	970	12:16:52 PM	E8S57	910
7/6/2018	8:55:50 AM	E8S34	2,850	12:19:44 PM	E8S57B	1,910
7/6/2018	8:57:56 AM	E8S34B	960	12:22:59 PM	E8S58	780
7/6/2018	9:04:42 AM	E8S35	2,780	12:26:02 PM	E8S58B	1,910
7/6/2018	9:06:34 AM	E8S35B	970	12:29:59 PM	E8S59	680
7/6/2018	9:13:02 AM	E8S36	2,880	12:33:10 PM	E8S59B	1,910
7/6/2018	9:14:38 AM	E8S36B	960	12:39:25 PM	E8S60	520
7/6/2018	9:21:33 AM	E8S37	2,840	12:42:27 PM	E8S60B	1,920
7/6/2018	9:23:19 AM	E8S37B	960	12:49:29 PM	E8S61	650
7/6/2018	9:30:08 AM	E8S38	2,770	12:51:45 PM	E8S61B	1,910
7/6/2018	9:31:41 AM	E8S38B	960	12:54:42 PM	E8S62	570
7/6/2018	9:44:11 AM	E8S39	2,650	12:57:33 PM	E8S62B	1,910
7/6/2018	9:45:55 AM	E8S39B	970	1:00:23 PM	E8S63	620
7/6/2018	9:52:58 AM	E8S40	2,410	1:03:24 PM	E8S63B	1,910
7/6/2018	9:55:31 AM	E8S40B	1,430	1:06:07 PM	E8S64	650
7/6/2018	10:02:47 AM	E8S41	2,340	1:09:00 PM	E8S64B	1,920
7/6/2018	10:05:09 AM	E8S41B	1,430	1:17:39 PM	E8S65	500
7/6/2018	10:10:40 AM	E8S42	2,140	1:20:22 PM	E8S65B	1,910
7/6/2018	10:13:24 AM	E8S42B	1,430	1:22:33 PM	E8S66	710
7/6/2018	10:18:41 AM	E8S43	1,870	1:25:35 PM	E8S66B	1,920
7/6/2018	10:21:02 AM	E8S43B	1,440	1:27:46 PM	E8S67	550
7/6/2018	10:31:17 AM	E8S44	1,510	1:30:54 PM	E8S67B	1,910
7/6/2018	10:33:45 AM	E8S44B	1,440			62,620
			103,170		Total PC lbs	165,790

The chart below is a summary of the soil volume mixed and the quantity of Portland cement delivered to the site, on hand and used in the ISS operation. This information is taken from the Excel workbook created for this project and updated each work day.

Total PC Delivered to Site	2,530,560	On Hand End of Day		Soil Volume Mixed	
Total PC Cell Qt'ys Sheet	2,365,529	Truck	26,250	Total yd^3	17,394.17
Total from Plant Scale	2,411,400	Silo 1	63,800	yd^3 today	1,283.07
PC Today Cell Qt'ys Sheet	164,871	Silo 2	30,940		
		Total	120,990		
	Plant Scale + On Hand		2,532,390		
		Error lb	-1,830		
		Error %	-0.07%		

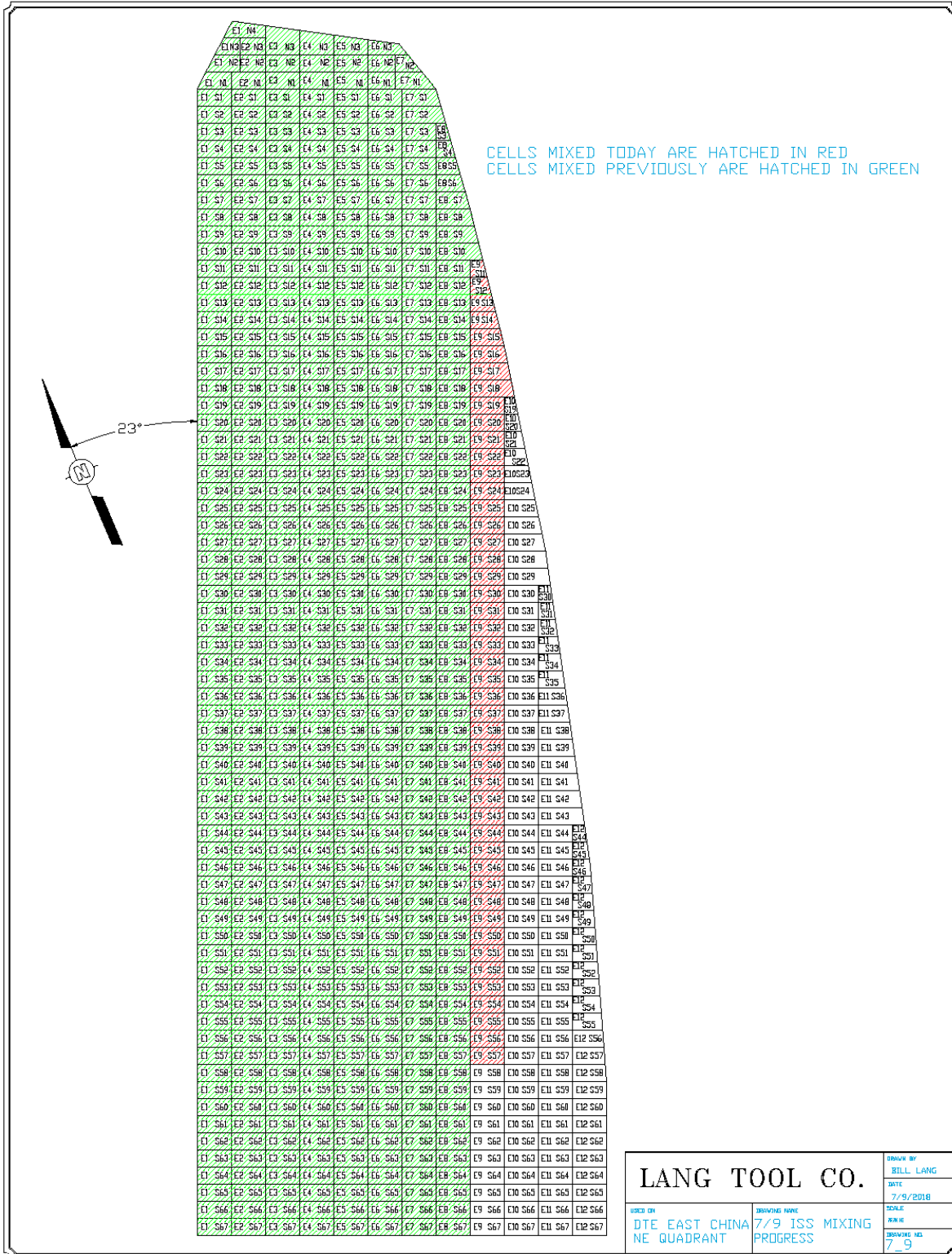
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Beaverton, MI 48612

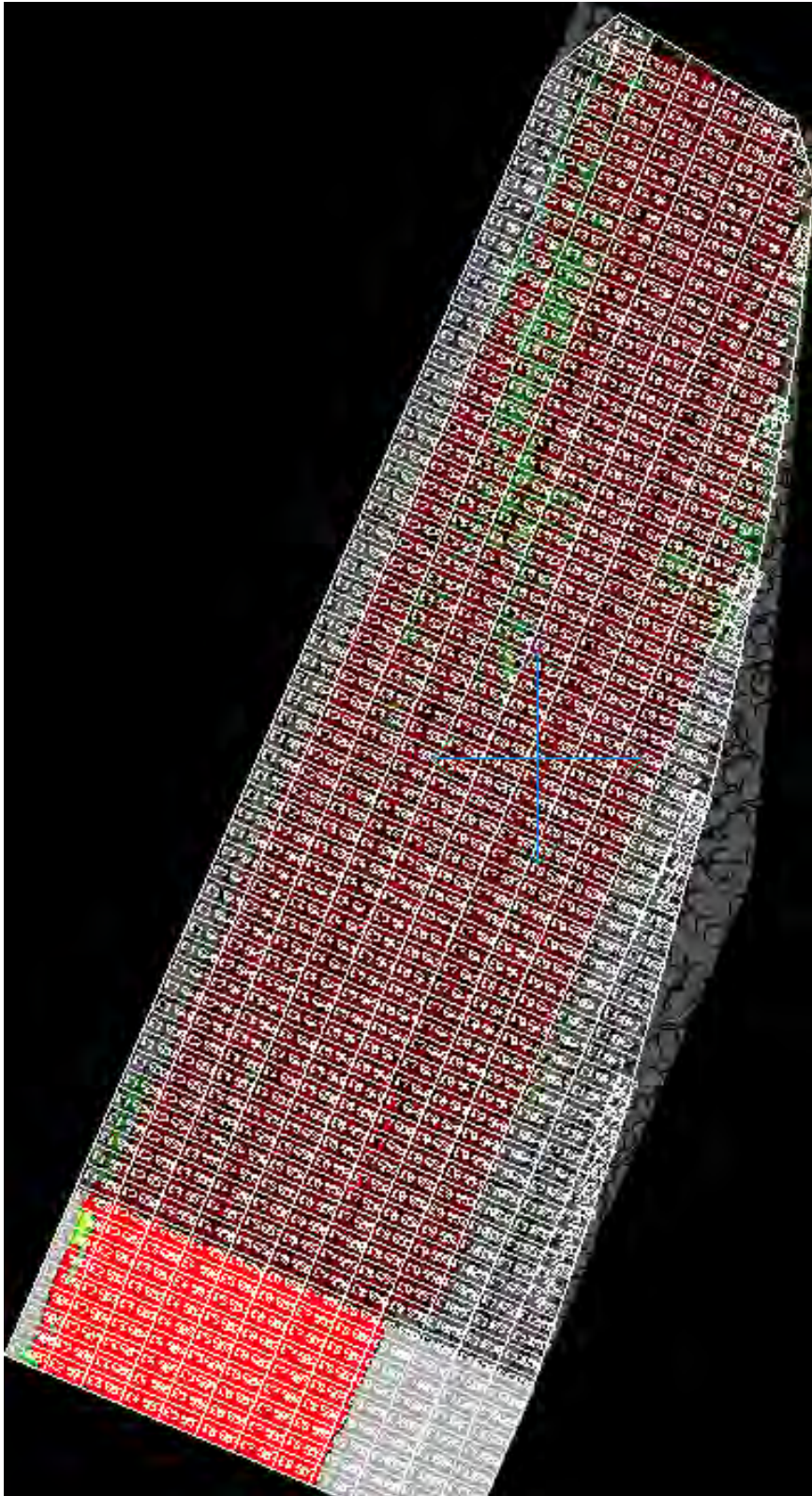
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July 9, 2018



LANG TOOL CO.		DRAWN BY BILL LANG
USED ON DTE EAST CHINA NE QUADRANT		DATE 7/9/2018
DRAWING NAME 7/9 ISS MIXING PROGRESS		TITLE
		SCALE
		DRAWING NO. 7_9



The chart was downloaded from the Dual Axis Blender onboard computer. Green indicates that the mixing level is between 583.5 & 584.0 MSL. Red indicates that the mixing level was below 583.5. The Dual Axis Blender operator mixes through the sludge until the mixer contacts solid soil. Note that in the western ends of the five northern most cells solid soil was contacted above 584. The bottom of the mixing area was apparently tapered in that area. On all other cells solid soil was encountered below 584 in all places and below 583.5 in much of the area.

The chart below was downloaded from the LTC Slurry Plant onboard computer. It shows the cell designation and the quantity of Portland cement delivered into the cell. Cells with a B designation are where solid soil was encountered deeper than 583.5. Additional PC was added to the cell to maintain the correct PC/sludge ratio.

Date	Time	Cell	lb	Time	Cell	lb
7/9/2018	6:47:29 AM	E9S11	1,420	11:37:03 AM	E9S38B	1,440
7/9/2018	6:51:36 AM	E9S12	1,820	11:51:27 AM	E9S39	1,880
7/9/2018	6:58:54 AM	E9S13	3,560	11:54:53 AM	E9S39B	1,910
7/9/2018	7:05:38 AM	E9S14	2,670	12:00:46 PM	E9S40	1,780
7/9/2018	7:14:08 AM	E9S15	3,760	12:03:24 PM	E9S40B	1,430
7/9/2018	7:24:14 AM	E9S16	5,230	12:08:18 PM	E9S41	1,770
7/9/2018	7:37:40 AM	E9S17	5,330	12:11:03 PM	E9S41B	1,440
7/9/2018	7:52:37 AM	E9S18	6,050	12:17:50 PM	E9S42	1,670
7/9/2018	8:02:48 AM	E9S19	4,900	12:20:58 PM	E9S42B	1,430
7/9/2018	8:16:03 AM	E9S20	5,350	12:26:34 PM	E9S43	1,640
7/9/2018	8:29:01 AM	E9S21	5,220	12:30:15 PM	E9S43B	1,910
7/9/2018	8:40:11 AM	E9S22	4,760	12:38:25 PM	E9S44	1,200
7/9/2018	8:55:18 AM	E9S23	4,710	12:41:45 PM	E9S44B	1,910
7/9/2018	9:07:44 AM	E9S24	4,490	12:47:21 PM	E9S45	1,210
7/9/2018	9:19:12 AM	E9S25	3,670	12:50:59 PM	E9S45B	1,910
7/9/2018	9:20:51 AM	E9S25B	960	12:55:18 PM	E9S46	1,080
7/9/2018	9:31:01 AM	E9S26	3,800	12:58:45 PM	E9S46B	1,920
7/9/2018	9:33:52 AM	E9S26B	960	1:04:32 PM	E9S47	940
7/9/2018	9:41:57 AM	E9S27	3,440	1:08:02 PM	E9S47B	1,910
7/9/2018	9:43:44 AM	E9S27B	980	1:13:38 PM	E9S48	940
7/9/2018	9:51:47 AM	E9S28	3,240	1:18:34 PM	E9S48B	2,390
7/9/2018	9:53:31 AM	E9S28B	960	1:25:42 PM	E9S49	720
7/9/2018	10:03:59 AM	E9S29	3,020	1:29:31 PM	E9S49B	1,910
7/9/2018	10:06:50 AM	E9S29B	1,440	1:32:25 PM	E9S50	740
7/9/2018	10:14:57 AM	E9S30	2,860	1:36:18 PM	E9S50B	1,910
7/9/2018	10:16:54 AM	E9S30B	970	1:40:21 PM	E9S51	1,030
7/9/2018	10:24:45 AM	E9S31	2,760	1:43:44 PM	E9S51B	1,910
7/9/2018	10:26:53 AM	E9S31B	960	1:47:47 PM	E9S52	950
7/9/2018	10:35:28 AM	E9S32	2,950	1:52:02 PM	E9S52B	1,920
7/9/2018	10:37:53 AM	E9S32B	960	1:55:38 PM	E9S53	760
7/9/2018	10:48:35 AM	E9S33	2,580	1:59:39 PM	E9S53B	1,910
7/9/2018	10:51:18 AM	E9S33B	1,440	2:02:28 PM	E9S54	740
7/9/2018	10:58:12 AM	E9S34	2,250	2:05:36 PM	E9S54B	1,910
7/9/2018	11:00:08 AM	E9S34B	960	2:13:49 PM	E9S55	620
7/9/2018	11:06:30 AM	E9S35	2,290	2:17:48 PM	E9S55B	1,920
7/9/2018	11:08:36 AM	E9S35B	960	2:20:37 PM	E9S56	780
7/9/2018	11:15:19 AM	E9S36	2,130	2:24:18 PM	E9S56B	1,910
7/9/2018	11:18:06 AM	E9S36B	1,440	2:27:09 PM	E9S57	680
7/9/2018	11:24:50 AM	E9S37	2,160	2:30:45 PM	E9S57B	1,910
7/9/2018	11:27:37 AM	E9S37B	1,440			57,940
7/9/2018	11:34:06 AM	E9S38	1,930	Total PC lbs		170,720
			112,780			

The chart below is a summary of the soil volume mixed and the quantity of Portland cement delivered to the site, on hand and used in the ISS operation. This information is taken from the Excel workbook created for this project and updated each work day.

Total PC Delivered to Site	2,675,340	On Hand End of Day		Soil Volume Mixed	
Total PC Cell Qt'ys Sheet	2,535,556	Truck	21,030	Total yd^3	18,717.34
Total from Plant Scale	2,582,120	Silo 1	22,760	yd^3 today	1,323.14
PC Today Cell Qt'ys Sheet	170,027	Silo 2	48,350		
		Total	92,140		
	Plant Scale + On Hand		2,674,260		
		Error lb	1,080		
		Error %	0.04%		

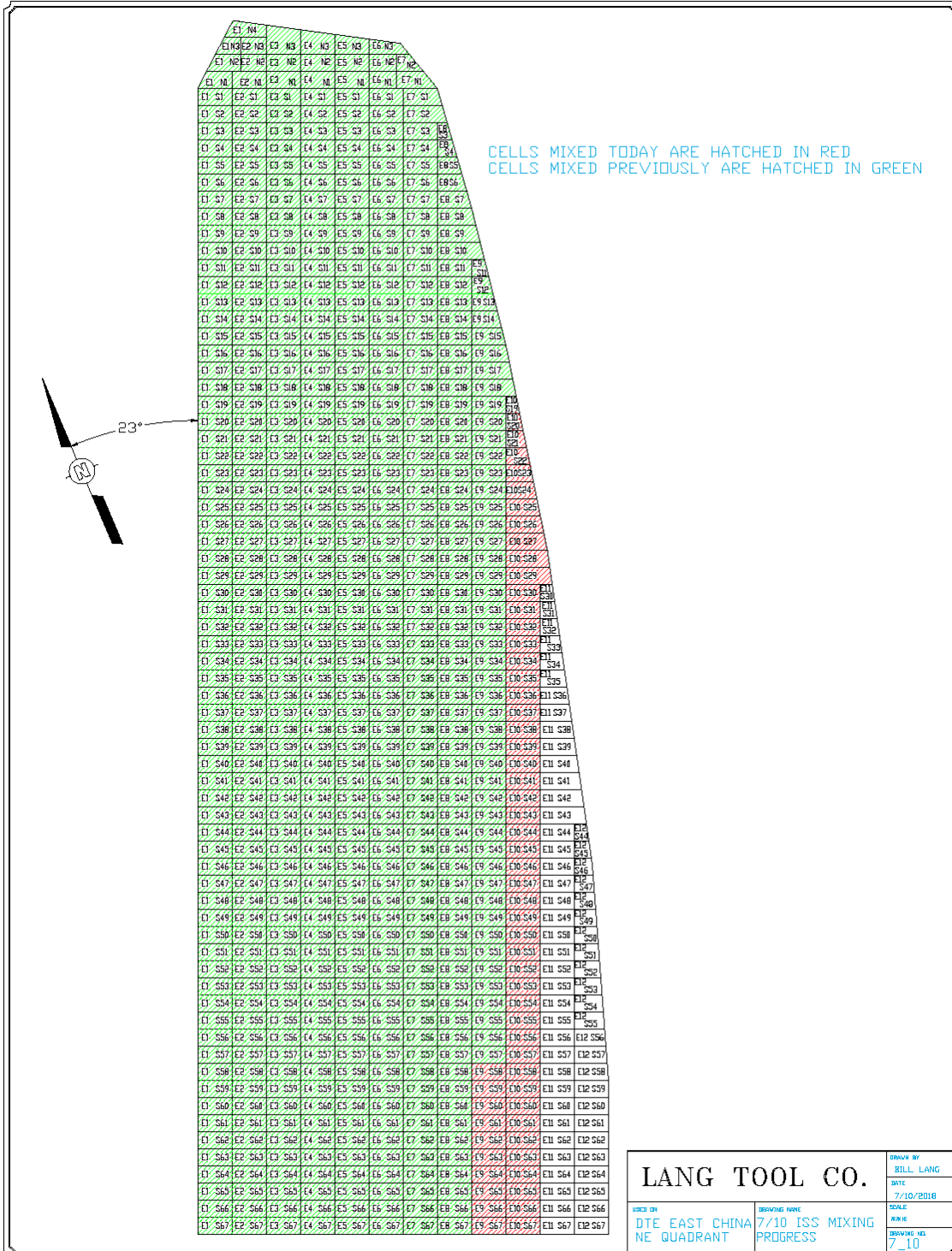
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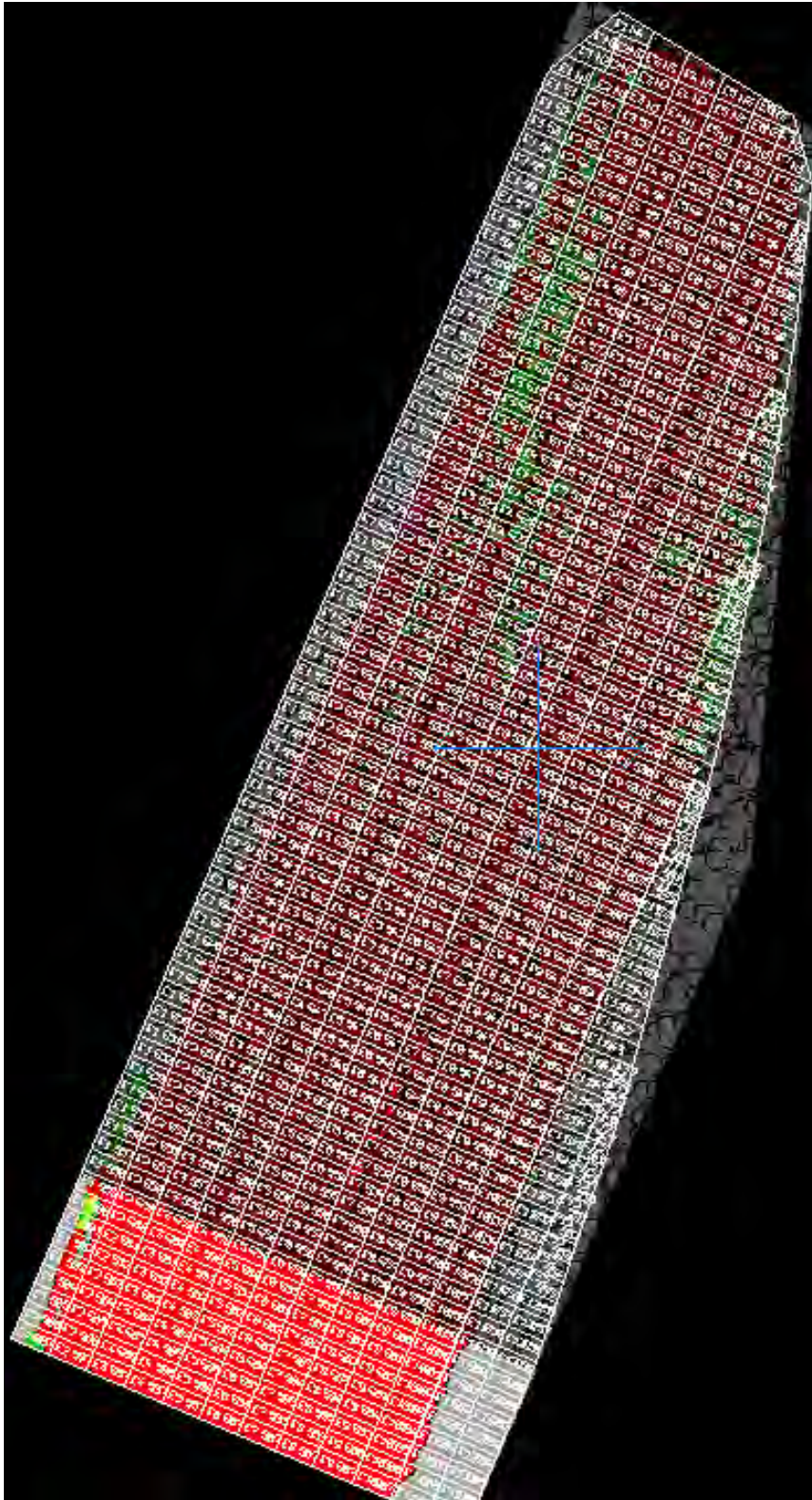
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July 10, 2018





The chart was downloaded from the Dual Axis Blender onboard computer. Green indicates that the mixing level is between 583.5 & 584.0 MSL. Red indicates that the mixing level was below 583.5. The Dual Axis Blender operator mixes through the sludge until the mixer contacts solid soil. Note that in the western ends of the five northern most cells solid soil was contacted above 584. The bottom of the mixing area was apparently tapered in that area. On all other cells solid soil was encountered below 584 in all places and below 583.5 in much of the area.

The chart below was downloaded from the LTC Slurry Plant onboard computer. It shows the cell designation and the quantity of Portland cement delivered into the cell. Cells with a B designation are where solid soil was encountered deeper than 583.5. Additional PC was added to the cell to maintain the correct PC/sludge ratio.

Date	Time	Cell	lb	Time	Cell	lb
7/10/2018	6:20:16 AM	E9S58	620	11:42:54 AM	E10S41B	1,440
7/10/2018	6:24:08 AM	E9S58B	1,920	11:47:11 AM	E10S42	1,770
7/10/2018	6:27:38 AM	E9S59	640	11:50:09 AM	E10S42B	1,430
7/10/2018	6:31:12 AM	E9S59B	1,910	11:54:36 AM	E10S43	1,600
7/10/2018	6:34:48 AM	E9S60	420	11:57:08 AM	E10S43B	1,430
7/10/2018	6:38:16 AM	E9S60B	1,910	12:05:30 PM	E10S44	1,400
7/10/2018	6:41:47 AM	E9S61	390	12:08:27 PM	E10S44B	1,430
7/10/2018	6:45:17 AM	E9S61B	1,920	12:11:53 PM	E10S45	1,300
7/10/2018	6:47:57 AM	E9S62	260	12:14:34 PM	E10S45B	1,430
7/10/2018	6:51:33 AM	E9S62B	1,910	12:18:19 PM	E10S46	1,220
7/10/2018	6:54:56 AM	E9S63	350	12:20:47 PM	E10S46B	1,430
7/10/2018	6:58:36 AM	E9S63B	1,910	12:24:18 PM	E10S47	920
7/10/2018	7:01:49 AM	E9S64	410	12:27:22 PM	E10S47B	1,430
7/10/2018	7:05:22 AM	E9S64B	1,910	12:31:02 PM	E10S48	1,000
7/10/2018	7:13:59 AM	E9S65	380	12:33:50 PM	E10S48B	1,430
7/10/2018	7:17:36 AM	E9S65B	1,910	12:36:47 PM	E10S49	860
7/10/2018	7:20:40 AM	E9S66	360	12:39:51 PM	E10S49B	1,430
7/10/2018	7:23:22 AM	E9S66B	1,910	12:46:45 PM	E10S50	870
7/10/2018	7:27:05 AM	E9S67	400	12:49:52 PM	E10S50B	1,920
7/10/2018	7:30:30 AM	E9S67B	1,910	12:52:40 PM	E10S51	650
7/10/2018	7:47:45 AM	E10S19	2,080	12:55:53 PM	E10S51B	1,910
7/10/2018	7:53:31 AM	E10S20	2,920	1:00:00 PM	E10S52	750
7/10/2018	8:01:24 AM	E10S21	3,490	1:03:27 PM	E10S52B	1,910
7/10/2018	8:09:30 AM	E10S22	3,750	1:06:32 PM	E10S53	680
7/10/2018	8:18:53 AM	E10S23	4,290	1:09:55 PM	E10S53B	1,910
7/10/2018	8:30:33 AM	E10S24	4,620	1:12:39 PM	E10S54	250
7/10/2018	8:40:23 AM	E10S25	4,970	1:16:08 PM	E10S54B	1,920
7/10/2018	8:54:49 AM	E10S26	6,100	1:23:04 PM	E10S55	410
7/10/2018	9:07:06 AM	E10S27	5,260	1:26:35 PM	E10S55B	1,920
7/10/2018	9:19:52 AM	E10S28	5,580	1:29:59 PM	E10S56	590
7/10/2018	9:34:03 AM	E10S29	5,820	1:33:23 PM	E10S56B	1,910
7/10/2018	9:36:36 AM	E10S29B	1,520	1:35:57 PM	E10S57	550
7/10/2018	9:46:06 AM	E10S30	3,400	1:39:29 PM	E10S57B	1,910
7/10/2018	9:48:00 AM	E10S30B	960	1:49:48 PM	E10S58	670
7/10/2018	9:59:23 AM	E10S31	4,160	1:53:01 PM	E10S58B	1,910
7/10/2018	10:01:12 AM	E10S31B	960	1:55:46 PM	E10S59	600
7/10/2018	10:10:35 AM	E10S32	3,300	1:59:10 PM	E10S59B	1,910
7/10/2018	10:12:41 AM	E10S32B	960	2:02:11 PM	E10S60	790
7/10/2018	10:22:55 AM	E10S33	2,800	2:05:34 PM	E10S60B	1,910
7/10/2018	10:24:30 AM	E10S33B	960	2:11:24 PM	E10S61	730
7/10/2018	10:31:07 AM	E10S34	2,570	2:14:48 PM	E10S61B	1,910
7/10/2018	10:32:56 AM	E10S34B	960	2:16:43 PM	E10S62	630
7/10/2018	10:39:08 AM	E10S35	2,470	2:20:10 PM	E10S62B	1,910
7/10/2018	10:41:48 AM	E10S35B	1,430	2:23:09 PM	E10S63	650
7/10/2018	10:48:36 AM	E10S36	2,340	2:26:21 PM	E10S63B	1,920
7/10/2018	10:50:35 AM	E10S36B	960	2:36:31 PM	E10S64	560
7/10/2018	10:56:09 AM	E10S37	2,280	2:39:53 PM	E10S64B	1,920
7/10/2018	10:57:49 AM	E10S37B	960	2:41:33 PM	E10S65	560
7/10/2018	11:04:22 AM	E10S38	2,170	2:44:23 PM	E10S65B	1,910
7/10/2018	11:06:15 AM	E10S38B	960	2:45:42 PM	E10S66	430
7/10/2018	11:23:26 AM	E10S39	1,820	2:48:41 PM	E10S66B	1,920
7/10/2018	11:26:11 AM	E10S39B	1,430	2:50:16 PM	E10S67	470
7/10/2018	11:31:45 AM	E10S40	2,160	2:53:28 PM	E10S67B	1,920
7/10/2018	11:34:03 AM	E10S40B	1,430			68,240
7/10/2018	11:40:29 AM	E10S41	2,040	Total PC lbs		185,470
			117,230			

The chart below is a summary of the soil volume mixed and the quantity of Portland cement delivered to the site, on hand and used in the ISS operation. This information is taken from the Excel workbook created for this project and updated each work day.

Total PC Delivered to Site	2,874,680	On Hand End of Day		Soil Volume Mixed	
Total PC Cell Qt'ys Sheet	2,719,822	Truck	25,330	Total yd^3	20,109.61
Total from Plant Scale	2,767,590	Silo 1	52,690	yd^3 today	1,392.31
PC Today Cell Qt'ys Sheet	184,266	Silo 2	28,410		
		Total	106,430		
	Plant Scale + On Hand		2,874,020		
		Error lb	660		
		Error %	0.02%		

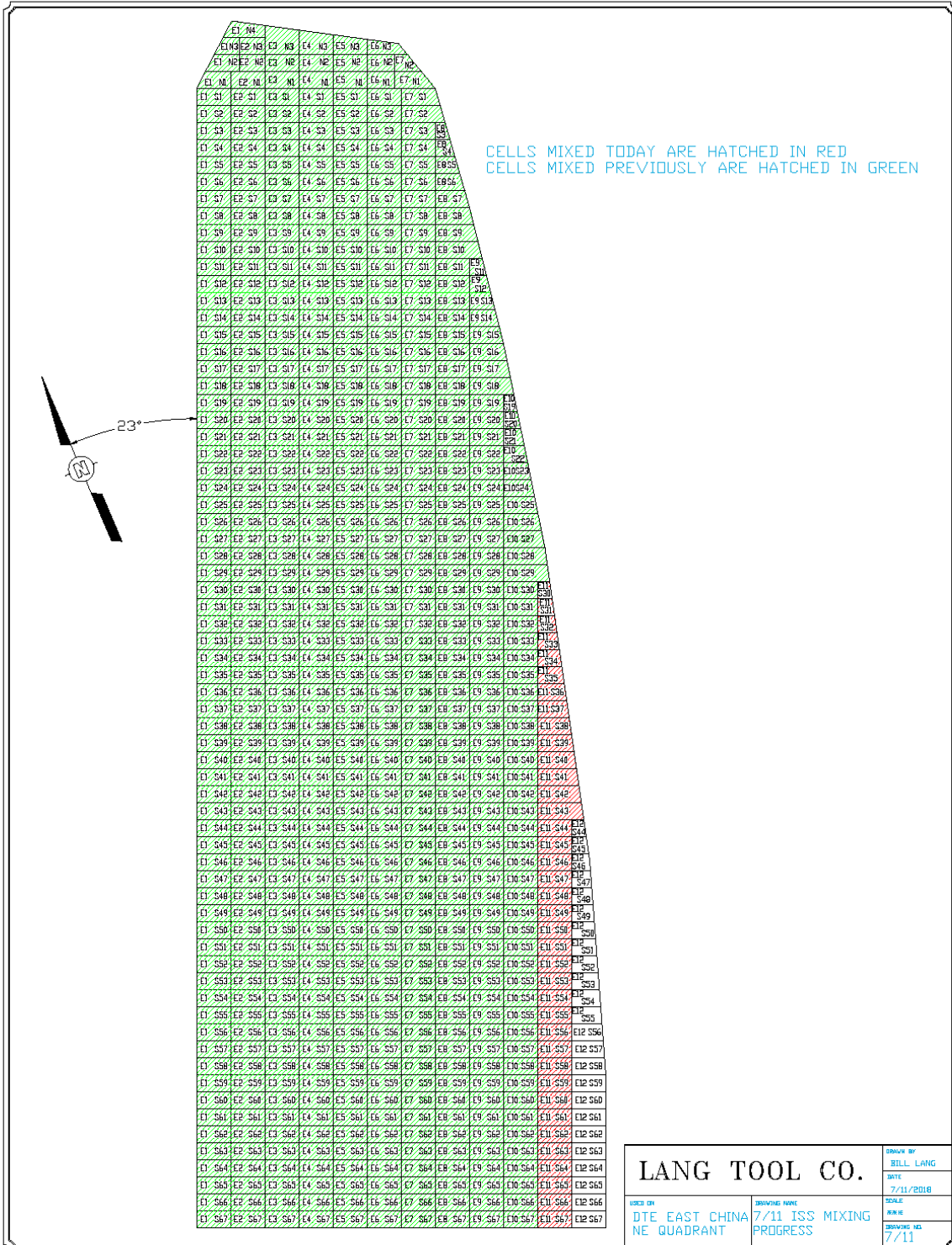
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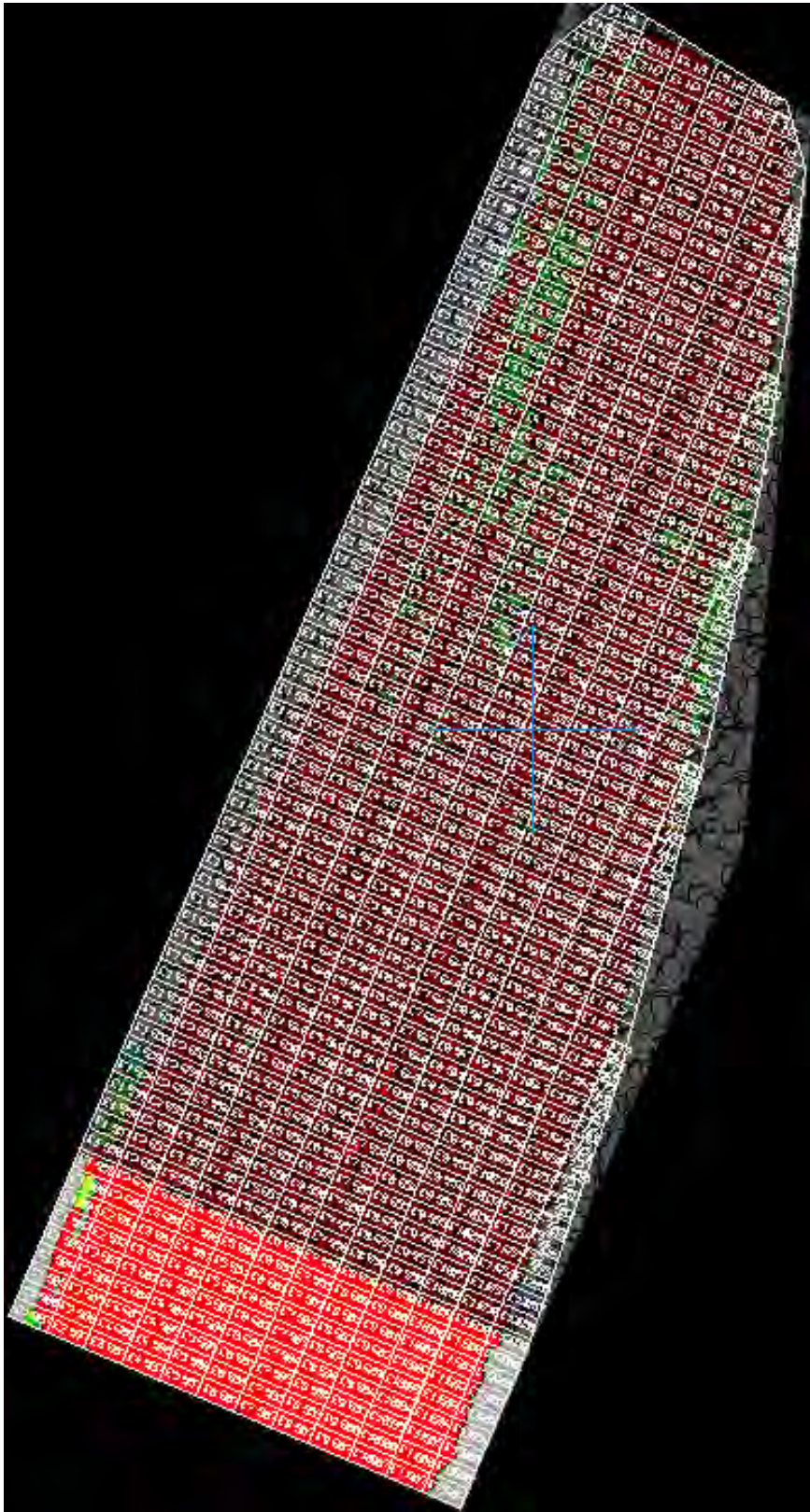
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July 11, 2018





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Date	Time	Cell	lb	Time	Cell	lb
7/11/2018	6:34:31 AM	E11S30	1,340	9:04:03 AM	E11S51B	1,910
7/11/2018	6:39:40 AM	E11S31	1,930	9:07:21 AM	E11S52	690
7/11/2018	6:43:54 AM	E11S32	1,760	9:10:45 AM	E11S52B	1,920
7/11/2018	6:48:59 AM	E11S33	1,700	9:14:35 AM	E11S53	870
7/11/2018	6:53:46 AM	E11S34	1,740	9:18:08 AM	E11S53B	1,920
7/11/2018	6:58:28 AM	E11S35	1,910	9:27:28 AM	E11S54	920
7/11/2018	7:04:17 AM	E11S36	2,200	9:31:14 AM	E11S54B	1,920
7/11/2018	7:10:23 AM	E11S37	2,240	9:34:22 AM	E11S55	910
7/11/2018	7:16:08 AM	E11S38	2,160	9:37:46 AM	E11S55B	1,920
7/11/2018	7:22:28 AM	E11S39	2,090	9:42:43 AM	E11S56	930
7/11/2018	7:28:04 AM	E11S40	2,120	9:46:35 AM	E11S56B	1,910
7/11/2018	7:33:38 AM	E11S41	2,270	9:51:38 AM	E11S57	790
7/11/2018	7:39:38 AM	E11S42	2,390	9:55:15 AM	E11S57B	1,910
7/11/2018	7:46:06 AM	E11S43	2,360	9:59:39 AM	E11S58	800
7/11/2018	8:01:28 AM	E11S44	1,660	10:03:11 AM	E11S58B	1,910
7/11/2018	8:04:11 AM	E11S44B	1,430	10:09:13 AM	E11S59	640
7/11/2018	8:09:09 AM	E11S45	1,420	10:12:23 AM	E11S59B	1,920
7/11/2018	8:11:46 AM	E11S45B	1,440	10:20:29 AM	E11S60	510
7/11/2018	8:16:56 AM	E11S46	1,350	10:23:42 AM	E11S60B	1,910
7/11/2018	8:20:13 AM	E11S46B	1,920	10:26:30 AM	E11S61	720
7/11/2018	8:26:24 AM	E11S47	1,210	10:29:34 AM	E11S61B	1,920
7/11/2018	8:30:09 AM	E11S47B	1,910	10:36:31 AM	E11S62	2,380
7/11/2018	8:34:10 AM	E11S48	1,020	10:42:39 AM	E11S63	2,100
7/11/2018	8:36:47 AM	E11S48B	1,430	10:49:40 AM	E11S64	2,370
7/11/2018	8:46:52 AM	E11S49	950	10:57:30 AM	E11S65	2,380
7/11/2018	8:49:48 AM	E11S49B	1,910	11:02:45 AM	E11S66	2,410
7/11/2018	8:53:07 AM	E11S50	630	11:07:39 AM	E11S67	2,450
7/11/2018	8:57:24 AM	E11S50B	1,910			42,940
7/11/2018	9:00:46 AM	E11S51	710	Total PC lbs		92,050
			49,110			

The chart below is a summary of the soil volume mixed and the quantity of Portland cement delivered to the site, on hand and used in the ISS operation. This information is taken from the Excel workbook created for this project and updated each work day.

Total PC Delivered to Site	2,971,200	On Hand End of Day		Soil Volume Mixed	
Total PC Cell Qt'ys Sheet	2,811,324	Truck	23,600	Total yd^3	20,821.69
Total from Plant Scale	2,859,640	Silo 1	62,650	yd^3 today	712.09
PC Today Cell Qt'ys Sheet	91,502	Silo 2	25,610		
		Total	111,860		
	Plant Scale + On Hand		2,971,500		
		Error lb	-300		
		Error %	-0.01%		

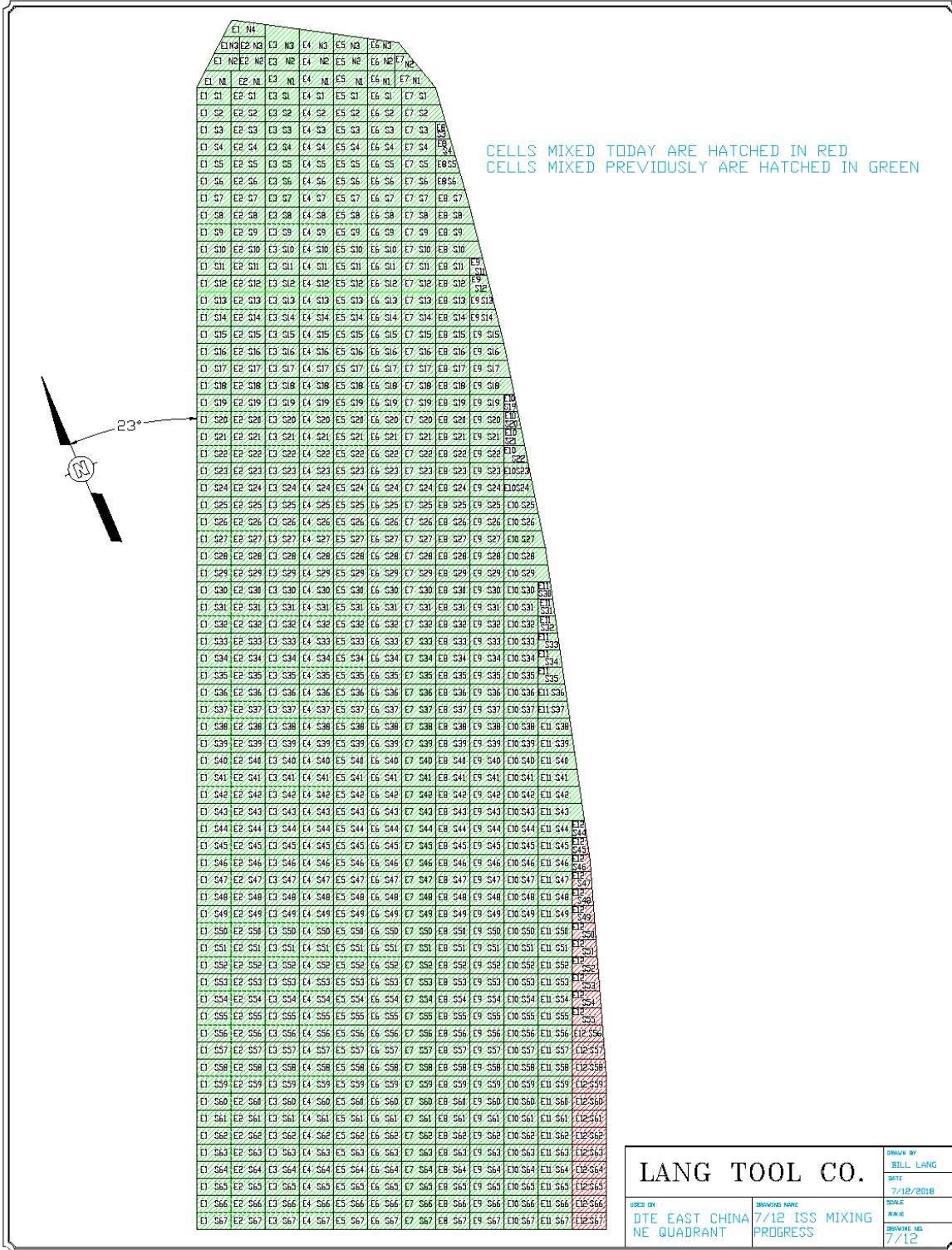
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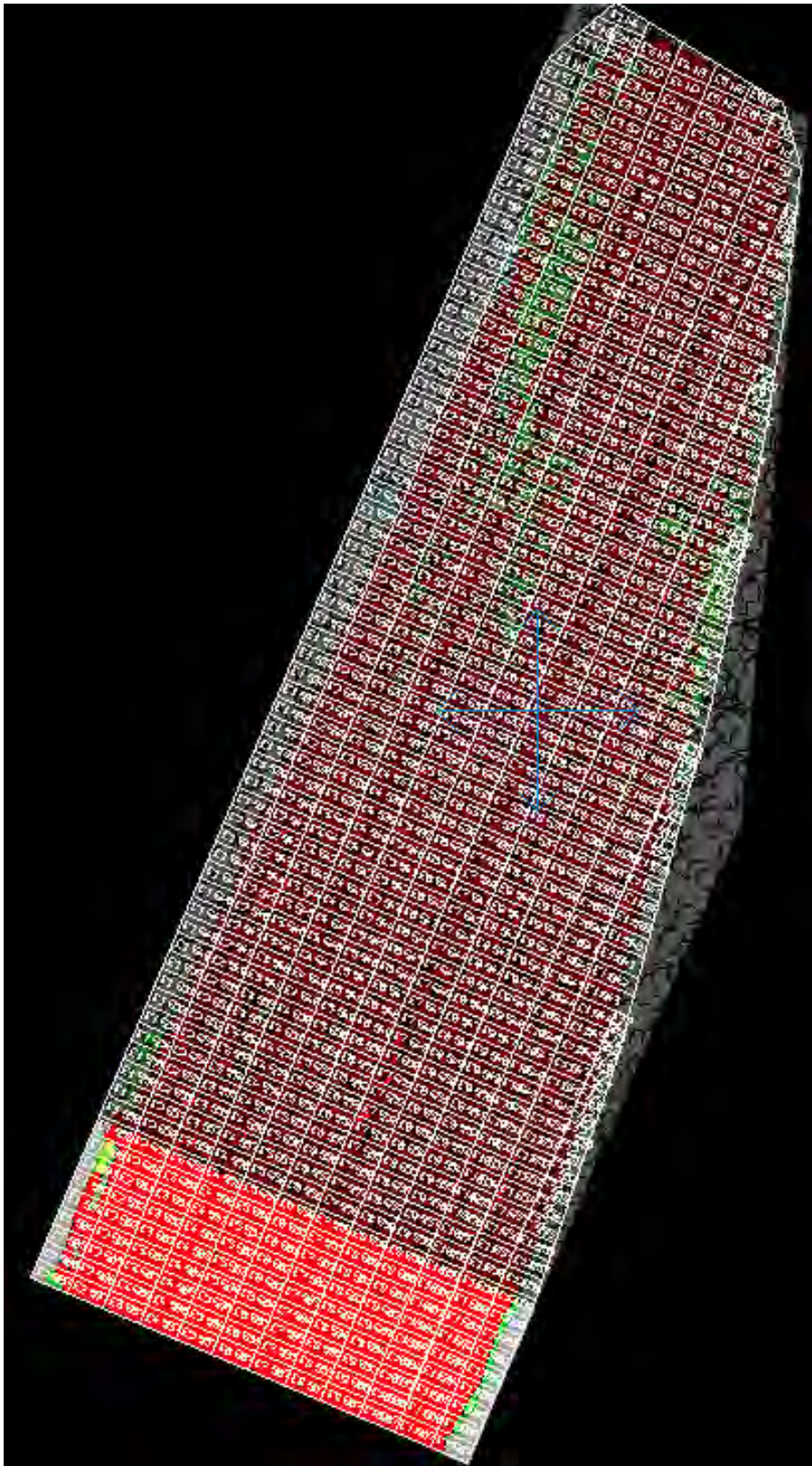
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July 12, 2018





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Date	Time	Cell	lb
7/12/2018	6:34:31 AM	E12S44	660
7/12/2018	6:39:40 AM	E12S45	670
7/12/2018	6:43:54 AM	E12S46	2,150
7/12/2018	6:48:59 AM	E12S47	690
7/12/2018	6:53:46 AM	E12S48	630
7/12/2018	6:58:28 AM	E12S49	620
7/12/2018	7:04:17 AM	E12S50	440
7/12/2018	7:10:23 AM	E12S51	530
7/12/2018	7:16:08 AM	E12S52	520
7/12/2018	7:22:28 AM	E12S53	700
7/12/2018	7:28:04 AM	E12S54	760
7/12/2018	7:33:38 AM	E12S55	790
7/12/2018	7:39:38 AM	E12S56	850
7/12/2018	7:46:06 AM	E12S57	750
7/12/2018	8:01:28 AM	E12S58	790
7/12/2018	8:04:11 AM	E12S59	650
7/12/2018	8:09:09 AM	E12S60	520
7/12/2018	8:11:46 AM	E12S61	720
7/12/2018	8:16:56 AM	E12S62	490
7/12/2018	8:20:13 AM	E12S63	210
7/12/2018	8:26:24 AM	E12S64	470
7/12/2018	8:30:09 AM	E12S65	480
7/12/2018	8:34:10 AM	E12S66	520
7/12/2018	8:36:47 AM	E12S67	550
		Total PC lbs	16,160

The chart below is a summary of the soil volume mixed and the quantity of Portland cement delivered to the site, on hand and used in the ISS operation. This information is taken from the Excel workbook created for this project and updated each work day.

Total PC Delivered to Site	3,020,020	On Hand End of Day		Soil Volume Mixed	
Total PC Cell Qt'ys Sheet	2,826,407	Truck	25,370	Total yd^3	20,939.07
Total from Plant Scale	2,875,800	Silo 1	62,530	yd^3 today	117.37
PC Today Cell Qt'ys Sheet	15,083	Silo 2	57,060		
		Total	144,960		
	Plant Scale + On Hand		3,020,760		
		Error lb	-740		
		Error %	-0.02%		

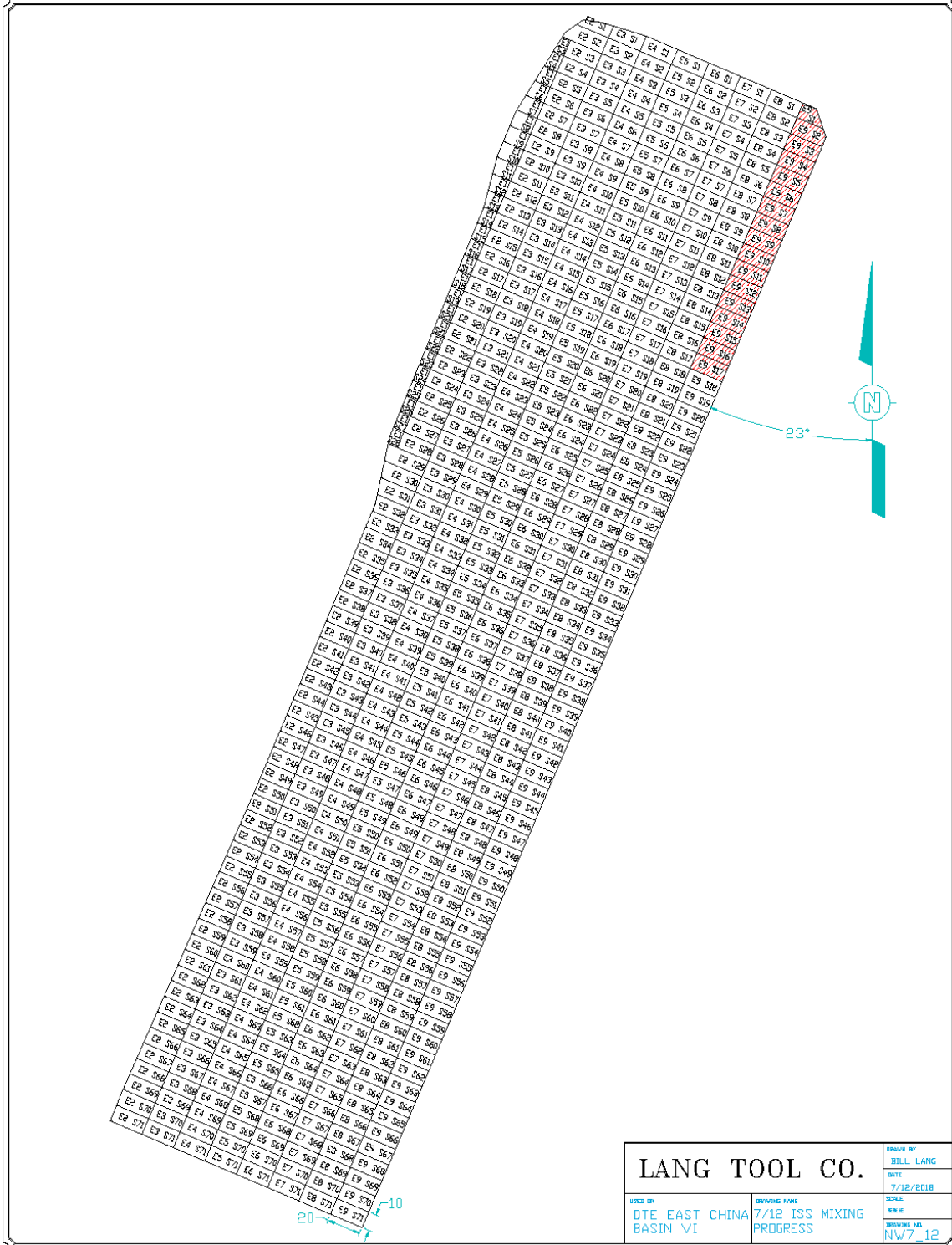
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July 12, 2018
Northwest



The chart below was downloaded from the LTC Slurry Plant onboard computer. It shows the cell designation and the quantity of Portland cement delivered into the cell. Cells with a B designation are where solid soil was encountered deeper than 583.5. Additional PC was added to the cell to maintain the correct PC/sludge ratio.

Date	Time	Cell	lb
7/12/2018	9:12:50 AM	E9S1	2,100
7/12/2018	9:26:25 AM	E9S2	7,970
7/12/2018	9:36:54 AM	E9S3	4,580
7/12/2018	9:47:55 AM	E9S4	4,610
7/12/2018	10:02:05 AM	E9S5	7,390
7/12/2018	10:24:37 AM	E9S6	8,360
7/12/2018	10:57:30 AM	E9S7	8,730
7/12/2018	11:35:08 AM	E9S8	8,300
7/12/2018	11:52:50 AM	E9S9	8,440
7/12/2018	12:11:44 PM	E9S10	8,430
7/12/2018	12:27:01 PM	E9S11	8,130
7/12/2018	12:42:27 PM	E9S12	7,320
7/12/2018	1:00:37 PM	E9S13	7,720
7/12/2018	1:21:24 PM	E9S14	7,930
7/12/2018	1:39:17 PM	E9S15	7,110
7/12/2018	1:53:04 PM	E9S16	6,930
7/12/2018	2:10:24 PM	E9S17	6,730
		Total PC lbs	120,780

The chart below is a summary of the soil volume mixed and the quantity of Portland cement delivered to the site, on hand and used in the ISS operation. This information is taken from the Excel workbook created for this project and updated each work day.

Total PC Delivered to Site	241,880	On Hand End of Day		Soil Volume Mixed	
Total PC Cell Qt'ys Sheet	120,653	Truck	27,510	Total yd ³	948.735
Total from Plant Scale	120,780	Silo 1	30,960	yd ³ today	948.735
PC Today Cell Qt'ys Sheet	120,653	Silo 2	62,520		
		Total	120,990		
Plant Scale + On Hand			241,770		
		Error lb	110		
		Error %	0.05%		

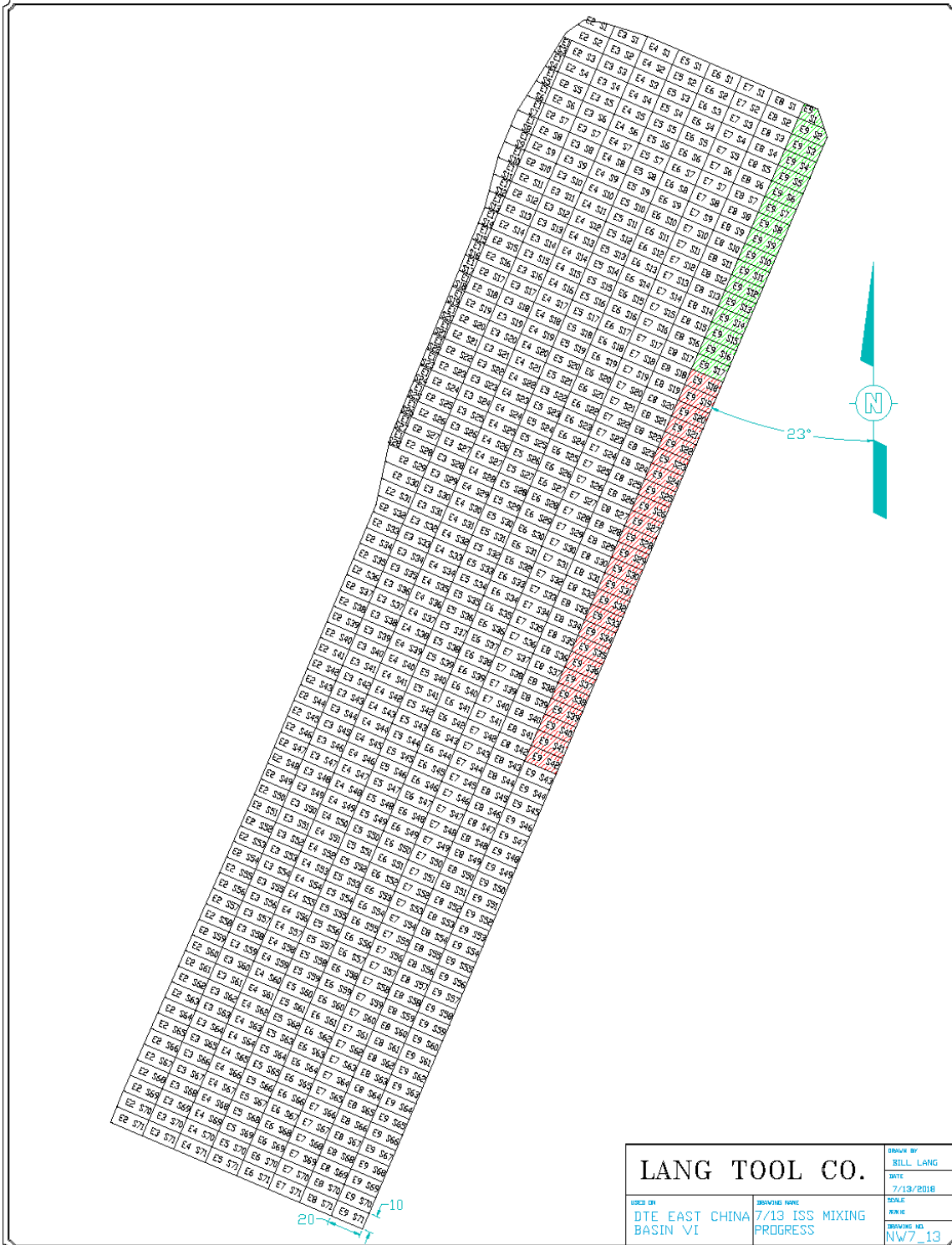
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July 13, 2018
Northwest



The chart below was downloaded from the LTC Slurry Plant onboard computer. It shows the cell designation and the quantity of Portland cement delivered into the cell. Cells with a B designation are where solid soil was encountered deeper than 583.5. Additional PC was added to the cell to maintain the correct PC/sludge ratio.

Date	Time	Cell	lb
7/13/2018	6:28:05 AM	E9S18	6,710
7/13/2018	6:42:32 AM	E9S19	6,180
7/13/2018	6:58:44 AM	E9S20	6,070
7/13/2018	7:15:42 AM	E9S21	6,410
7/13/2018	7:29:19 AM	E9S22	6,320
7/13/2018	7:40:14 AM	E9S23	5,210
7/13/2018	8:00:11 AM	E9S24	6,110
7/13/2018	8:16:08 AM	E9S25	5,420
7/13/2018	8:29:56 AM	E9S26	5,280
7/13/2018	8:50:51 AM	E9S27	5,030
7/13/2018	9:07:04 AM	E9S28	5,100
7/13/2018	9:23:52 AM	E9S29	4,820
7/13/2018	9:43:35 AM	E9S30	5,040
7/13/2018	10:10:44 AM	E9S31	3,660
7/13/2018	10:22:21 AM	E9S32	3,950
7/13/2018	10:24:21 AM	E9S32B	1,000
7/13/2018	10:38:59 AM	E9S33	4,880
7/13/2018	10:52:47 AM	E9S34	1,010
7/13/2018	11:00:10 AM	E9S34B	3,990
7/13/2018	11:07:29 AM	E9S35	1,000
7/13/2018	11:13:28 AM	E9S35B	3,890
7/13/2018	11:21:12 AM	E9S36	1,000
7/13/2018	11:27:38 AM	E9S36B	3,880
7/13/2018	11:39:00 AM	E9S37	1,010
7/13/2018	11:46:03 AM	E9S37B	4,150
7/13/2018	12:03:25 PM	E9S38	1,010
7/13/2018	12:11:33 PM	E9S38B	4,390
7/13/2018	12:19:47 PM	E9S39	1,000
7/13/2018	12:26:57 PM	E9S39B	4,100
7/13/2018	12:45:18 PM	E9S40	4,960
7/13/2018	12:51:37 PM	E9S41	1,010
7/13/2018	12:57:36 PM	E9S41B	3,590
7/13/2018	1:05:27 PM	E9S42	1,000
7/13/2018	1:11:33 PM	E9S42B	3,450
		Total pc lbs	131,630

The chart below is a summary of the soil volume mixed and the quantity of Portland cement delivered to the site, on hand and used in the ISS operation. This information is taken from the Excel workbook created for this project and updated each work day.

Total PC Delivered to Site	386,800	On Hand End of Day		Soil Volume Mixed	
Total PC Cell Qt'ys Sheet	252,009	Truck	26,090	Total yd ³	1,961.16
Total from Plant Scale	252,410	Silo 1	65,030	yd ³ today	1,012.46
PC Today Cell Qt'ys Sheet	131,356	Silo 2	39,510		
		Total	130,630		
Plant Scale + On Hand			383,040		
		Error lb	3,760		
		Error %	0.97%		

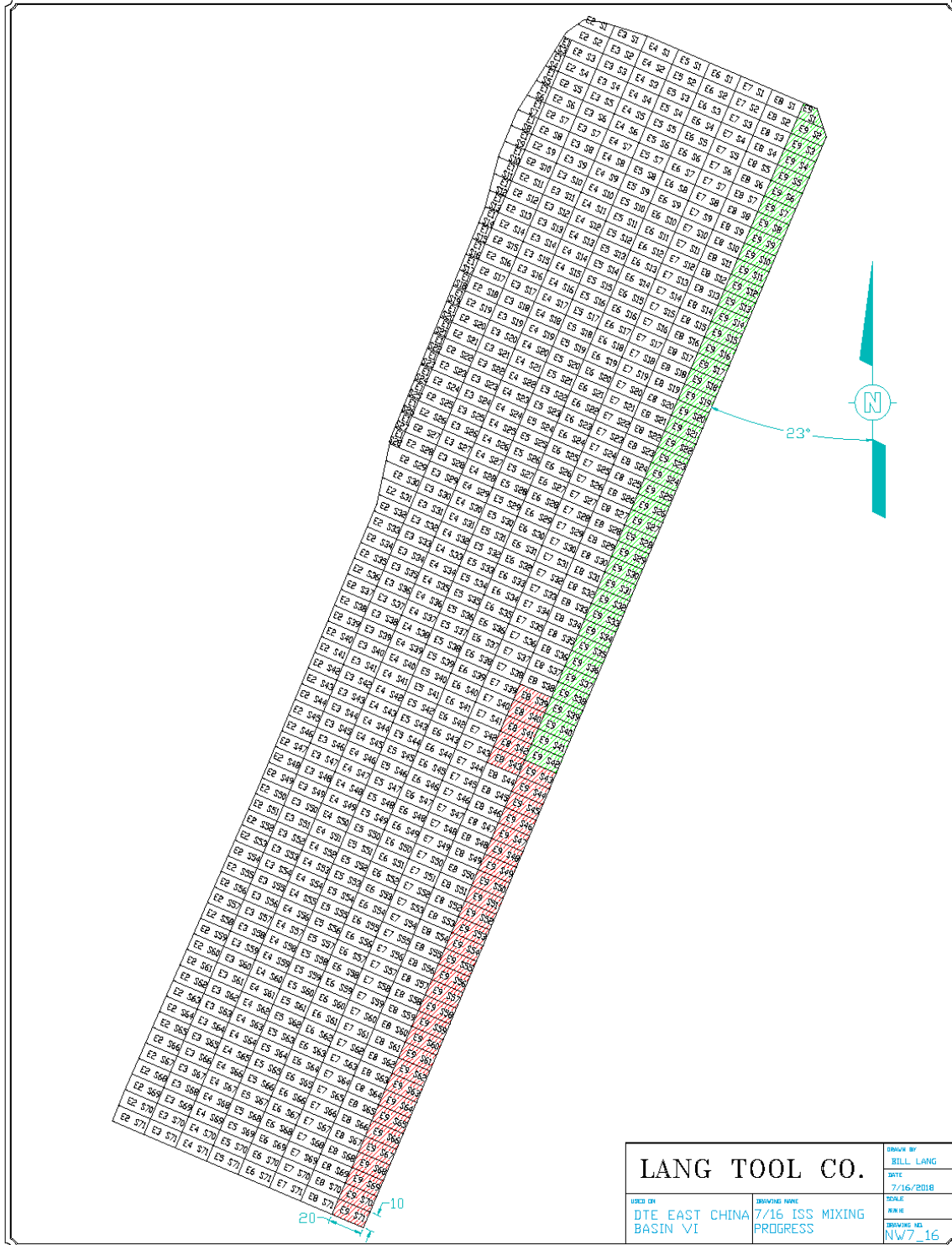
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July 16, 2018
Northwest



The chart below was downloaded from the LTC Slurry Plant onboard computer. It shows the cell designation and the quantity of Portland cement delivered into the cell. Cells with a B designation are where solid soil was encountered deeper than 583.5. Additional PC was added to the cell to maintain the correct PC/sludge ratio.

Date	Time	Cell	lb
7/16/2018	8:22:29 AM	E9S43	4,840
7/16/2018	8:42:15 AM	E9S44	4,490
7/16/2018	9:16:09 AM	E9S45	4,330
7/16/2018	9:33:27 AM	E9S46	3,910
7/16/2018	9:45:10 AM	E9S47	3,920
7/16/2018	9:59:01 AM	E9S48	3,810
7/16/2018	10:11:49 AM	E9S49	3,840
7/16/2018	10:24:45 AM	E9S50	4,000
7/16/2018	10:36:43 AM	E9S51	3,820
7/16/2018	10:49:00 AM	E9S52	3,810
7/16/2018	10:59:16 AM	E9S53	3,810
7/16/2018	11:11:43 AM	E9S54	3,810
7/16/2018	11:26:34 AM	E9S55	3,810
7/16/2018	11:39:30 AM	E9S56	3,720
7/16/2018	11:54:41 AM	E9S57	3,430
7/16/2018	12:05:55 PM	E9S58	3,340
7/16/2018	12:16:58 PM	E9S59	3,350
7/16/2018	12:27:40 PM	E9S60	3,340
7/16/2018	12:41:41 PM	E9S61	3,150
7/16/2018	12:52:33 PM	E9S62	2,860
7/16/2018	1:01:43 PM	E9S63	2,570
7/16/2018	1:09:11 PM	E9S64	2,580
7/16/2018	1:18:42 PM	E9S65	2,570
7/16/2018	1:31:47 PM	E9S66	2,590
7/16/2018	1:38:21 PM	E9S67	2,480
7/16/2018	1:47:25 PM	E9S68	2,570
7/16/2018	1:54:56 PM	E9S49	2,010
7/16/2018	2:02:34 PM	E9S70	2,490
7/16/2018	2:12:39 PM	E9S71	2,390
7/16/2018	2:32:29 PM	E8S43	4,230
7/16/2018	2:44:34 PM	E8S42	4,780
7/16/2018	2:54:50 PM	E8S41	4,630
7/16/2018	3:07:21 PM	E8S40	4,990
7/16/2018	3:21:27 PM	E8S39	4,990
		Total PC lbs	121,260

The chart below is a summary of the soil volume mixed and the quantity of Portland cement delivered to the site, on hand and used in the ISS operation. This information is taken from the Excel workbook created for this project and updated each work day.

Total PC Delivered to Site	483,580	On Hand End of Day		Soil Volume Mixed	
Total PC Cell Qt'ys Sheet	372,979	Truck	18,140	Total yd ³	2,902.56
Total from Plant Scale	373,670	Silo 1	25,410	yd ³ today	941.36
PC Today Cell Qt'ys Sheet	120,970	Silo 2	62,580		
		Total	106,130		
Plant Scale + On Hand			479,800		
		Error lb	3,780		
		Error %	0.78%		

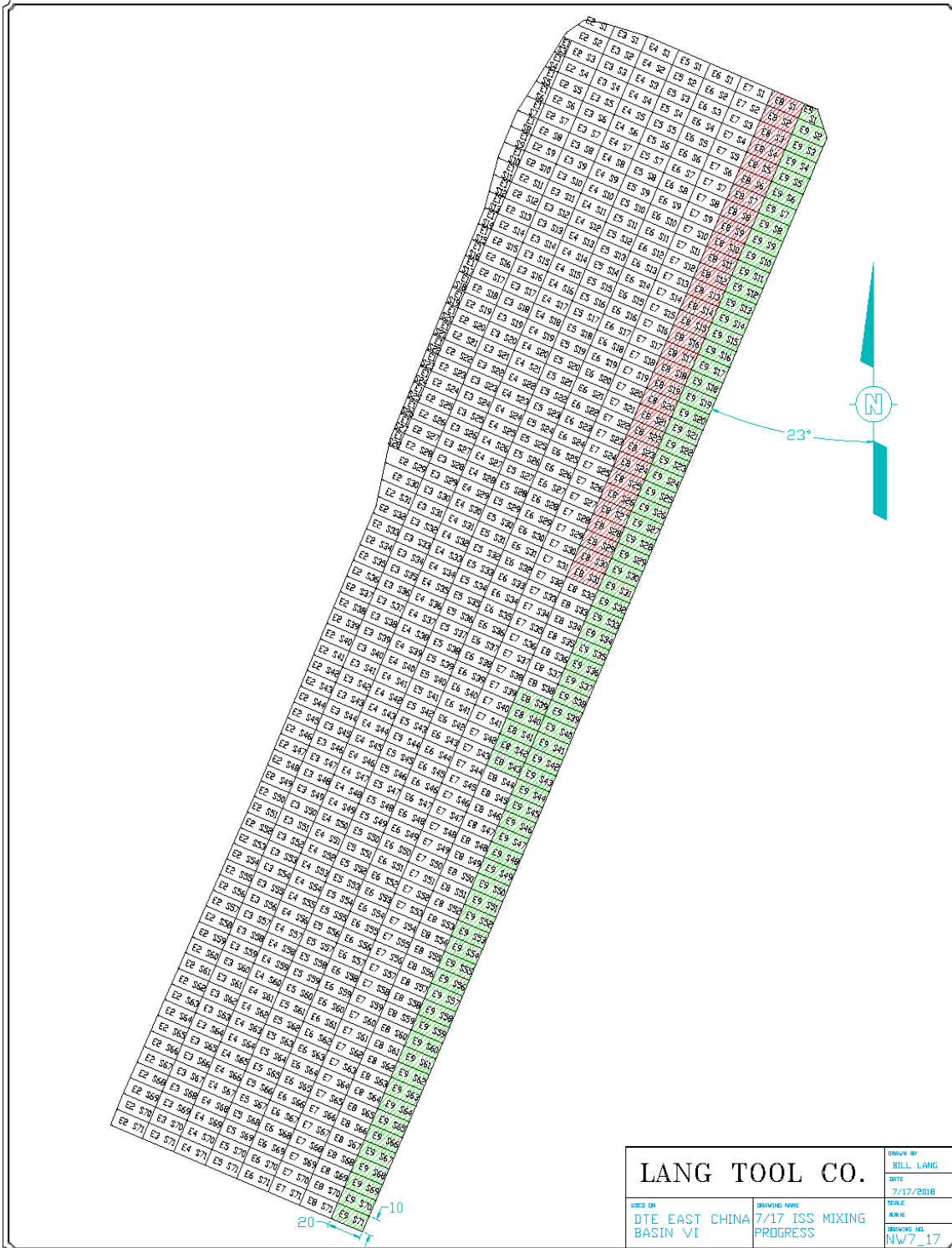
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July 17, 2018
Northwest



The chart below was downloaded from the LTC Slurry Plant onboard computer. It shows the cell designation and the quantity of Portland cement delivered into the cell. Cells with a B designation are where solid soil was encountered deeper than 583.5. Additional PC was added to the cell to maintain the correct PC/sludge ratio.

Date	Time	Cell	lb
7/17/2018	6:36:49 AM	E8S1	5,610
7/17/2018	6:55:57 AM	E8S2	8,600
7/17/2018	7:19:16 AM	E8S3	8,580
7/17/2018	7:30:25 AM	E8S4	4,380
7/17/2018	8:19:46 AM	E8S5	7,260
7/17/2018	8:36:13 AM	E8S6	7,000
7/17/2018	8:50:26 AM	E8S7	6,040
7/17/2018	9:06:07 AM	E8S8	7,040
7/17/2018	9:24:40 AM	E8S9	7,840
7/17/2018	9:41:59 AM	E8S10	7,620
7/17/2018	9:56:20 AM	E8S11	7,310
7/17/2018	10:10:34 AM	E8S12	7,080
7/17/2018	10:28:24 AM	E8S13	6,990
7/17/2018	10:43:34 AM	E8S14	6,690
7/17/2018	10:57:46 AM	E8S15	6,550
7/17/2018	11:08:48 AM	E8S16	5,400
7/17/2018	11:22:57 AM	E8S17	5,400
7/17/2018	11:36:49 AM	E8S18	5,130
7/17/2018	11:52:01 AM	E8S19	4,720
7/17/2018	12:01:45 PM	E8S20	4,380
7/17/2018	12:33:34 PM	E8S21	4,180
7/17/2018	12:42:58 PM	E8S22	4,360
7/17/2018	12:56:36 PM	E8S23	4,210
7/17/2018	1:07:00 PM	E8S24	4,100
7/17/2018	1:21:02 PM	E8S25	4,090
7/17/2018	1:33:06 PM	E8S26	4,150
7/17/2018	1:46:20 PM	E8S27	4,800
7/17/2018	2:00:04 PM	E8S28	4,890
7/17/2018	2:12:38 PM	E8S29	5,460
7/17/2018	2:24:18 PM	E8S30	5,430
7/17/2018	2:36:05 PM	E8S31	4,820
		Total PC lbs	180,110

The chart below is a summary of the soil volume mixed and the quantity of Portland cement delivered to the site, on hand and used in the ISS operation. This information is taken from the Excel workbook created for this project and updated each work day.

Total PC Delivered to Site	629,020	On Hand End of Day		Soil Volume Mixed	
Total PC Cell Qt'ys Sheet	552,816	Truck	25,310	Total yd ³	4,302.07
Total from Plant Scale	553,780	Silo 1	3,460	yd ³ today	1,399.47
PC Today Cell Qt'ys Sheet	179,837	Silo 2	42,310		
		Total	71,080		
Plant Scale + On Hand			624,860		
		Error lb	4,160		
		Error %	0.66%		

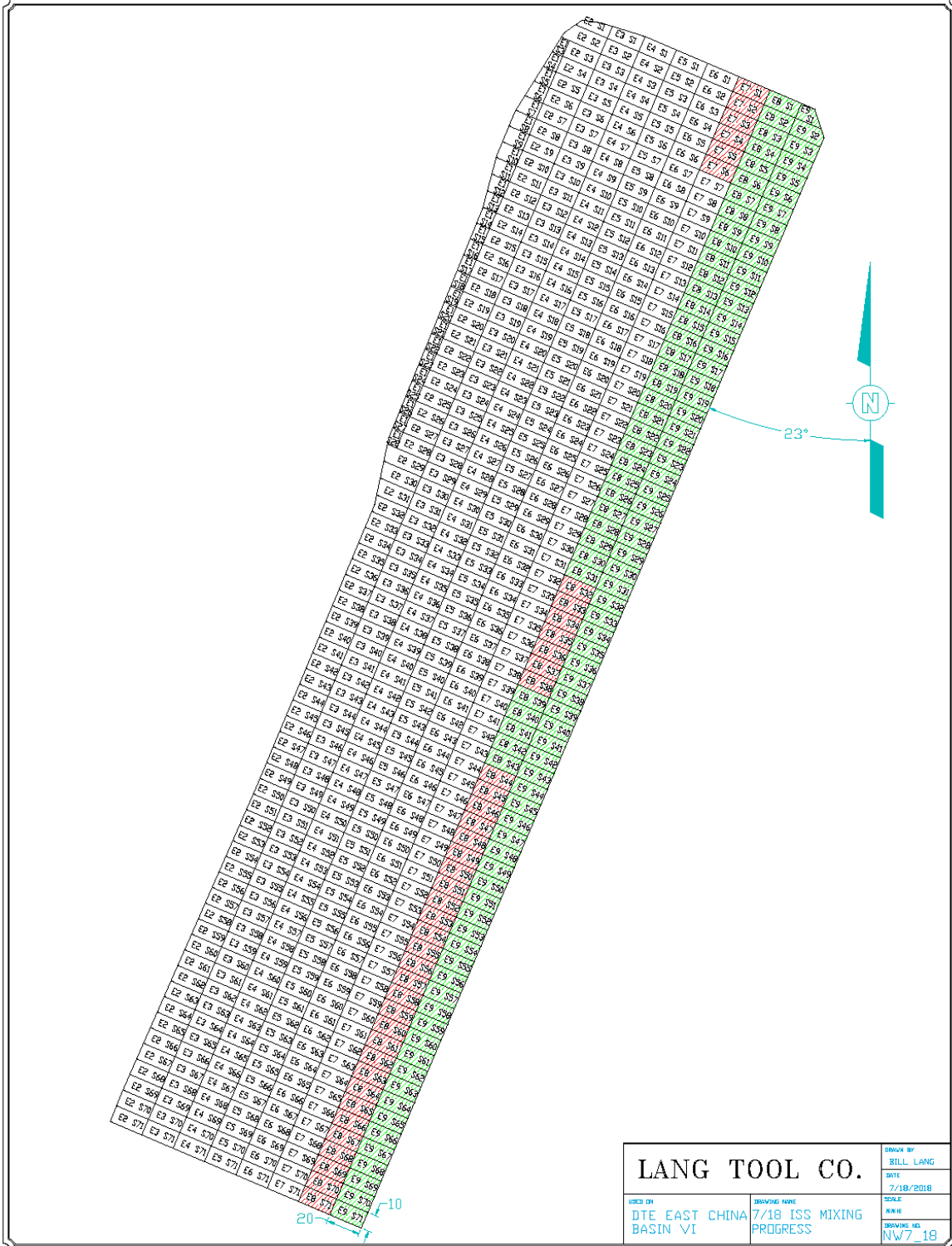
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July 18, 2018
Northwest



The chart below was downloaded from the LTC Slurry Plant onboard computer. It shows the cell designation and the quantity of Portland cement delivered into the cell. Cells with a B designation are where solid soil was encountered deeper than 583.5. Additional PC was added to the cell to maintain the correct PC/sludge ratio.

Date	Time	Cell	lb
7/18/2018	7:11:32 AM	E8S32	4,840
7/18/2018	7:20:50 AM	E8S33	4,570
7/18/2018	7:30:56 AM	E8S34	4,940
7/18/2018	7:41:36 AM	E8S35	4,920
7/18/2018	7:52:31 AM	E8S36	4,450
7/18/2018	8:02:19 AM	E8S37	4,530
7/18/2018	8:14:24 AM	E8S38	4,340
7/18/2018	8:27:30 AM	E8S44	4,230
7/18/2018	8:37:02 AM	E8S45	4,310
7/18/2018	8:46:40 AM	E8S46	4,190
7/18/2018	8:56:37 AM	E8S47	4,050
7/18/2018	9:06:36 AM	E8S48	4,120
7/18/2018	9:21:12 AM	E8S49	4,800
7/18/2018	9:31:51 AM	E8S50	4,930
7/18/2018	9:44:12 AM	E8S51	5,280
7/18/2018	9:55:14 AM	E8S52	4,700
7/18/2018	10:07:46 AM	E8S53	4,620
7/18/2018	10:19:57 AM	E8S54	4,860
7/18/2018	10:29:32 AM	E8S55	4,860
7/18/2018	10:39:51 AM	E8S56	4,430
7/18/2018	10:48:41 AM	E8S57	4,670
7/18/2018	11:02:57 AM	E8S58	4,750
7/18/2018	11:13:03 AM	E8S59	4,410
7/18/2018	11:23:27 AM	E8S60	4,510
7/18/2018	11:32:57 AM	E8S61	4,670
7/18/2018	11:52:21 AM	E8S62	4,540
7/18/2018	12:03:59 PM	E8S63	5,590
7/18/2018	12:14:48 PM	E8S64	5,630
7/18/2018	12:25:43 PM	E8S65	5,660
7/18/2018	12:36:02 PM	E8S66	5,380
7/18/2018	12:45:51 PM	E8S67	5,160
7/18/2018	12:55:19 PM	E8S68	5,000
7/18/2018	1:06:21 PM	E8S69	4,650
7/18/2018	1:15:13 PM	E8S70	4,540
7/18/2018	1:25:05 PM	E8S71	4,800
7/18/2018	2:03:28 PM	E7S1	6,190
7/18/2018	2:20:31 PM	E7S2	7,760
7/18/2018	2:35:51 PM	E7S3	7,350
7/18/2018	2:50:17 PM	E7S4	7,090
7/18/2018	3:07:55 PM	E7S5	6,950
7/18/2018	3:23:22 PM	E7S6	6,980
Total PC lbs			208,250

The chart below is a summary of the soil volume mixed and the quantity of Portland cement delivered to the site, on hand and used in the ISS operation. This information is taken from the Excel workbook created for this project and updated each work day.

Total PC Delivered to Site	780,440	On Hand End of Day		Soil Volume Mixed	
Total PC Cell Qt'ys Sheet	760,695	Truck	7,140	Total yd ³	5,919.80
Total from Plant Scale	762,030	Silo 1	3,540	yd ³ today	1,617.70
PC Today Cell Qt'ys Sheet	207,879	Silo 2	2,520		
		Total	13,200		
Plant Scale + On Hand			775,230		
		Error lb	5,210		
		Error %	0.67%		

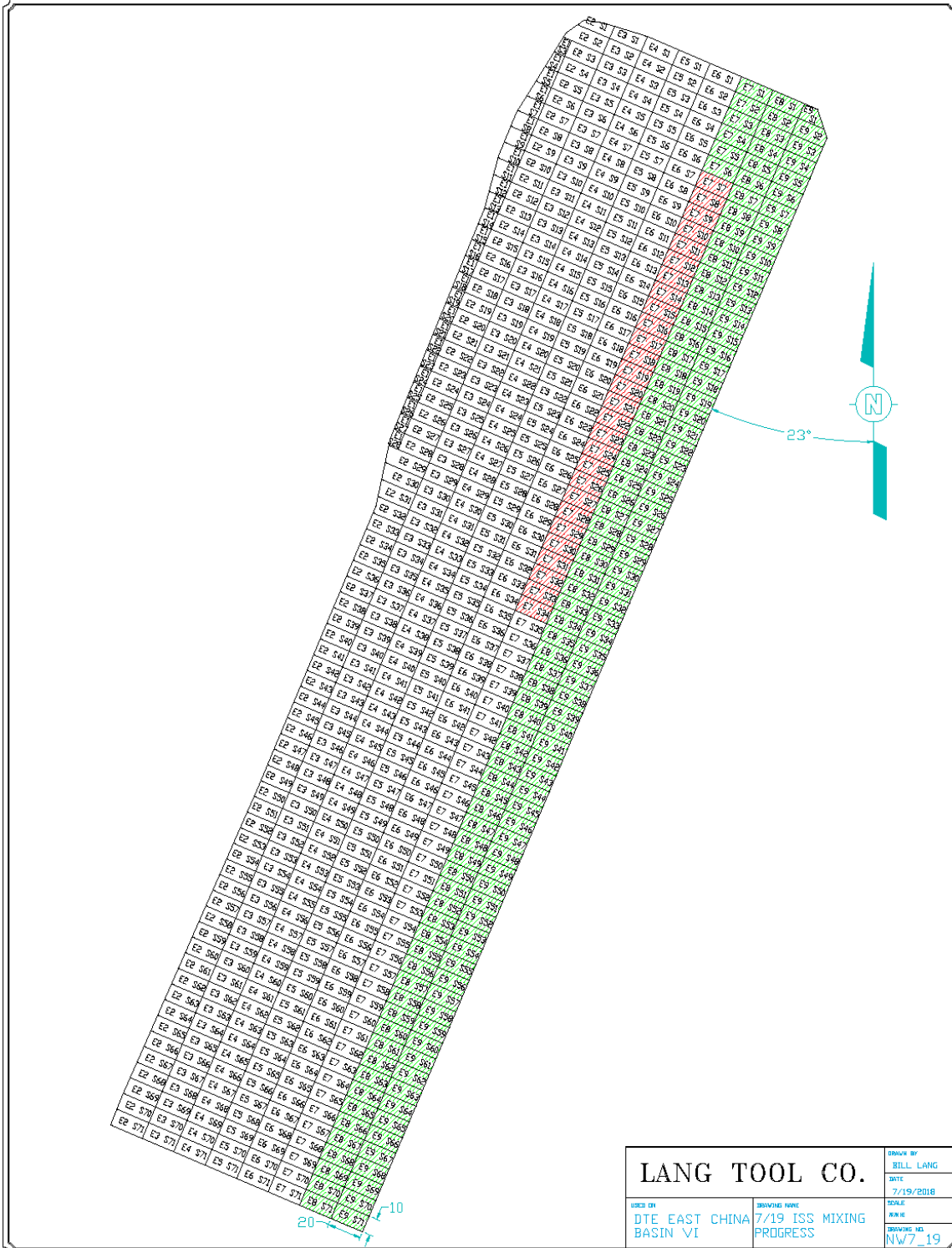
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July 19, 2018
Northwest



The chart below was downloaded from the LTC Slurry Plant onboard computer. It shows the cell designation and the quantity of Portland cement delivered into the cell. Cells with a B designation are where solid soil was encountered deeper than 583.5. Additional PC was added to the cell to maintain the correct PC/sludge ratio.

Date	Time	Cell	lb
7/19/2018	7:34:52 AM	E7S7	7,470
7/19/2018	7:47:43 AM	E7S8	6,170
7/19/2018	8:01:37 AM	E7S9	7,030
7/19/2018	8:16:58 AM	E7S10	6,680
7/19/2018	8:31:51 AM	E7S11	6,480
7/19/2018	8:46:41 AM	E7S12	6,550
7/19/2018	9:01:21 AM	E7S13	6,600
7/19/2018	9:19:14 AM	E7S14	6,380
7/19/2018	9:36:35 AM	E7S15	6,730
7/19/2018	9:52:01 AM	E7S16	5,970
7/19/2018	10:03:57 AM	E7S17	5,270
7/19/2018	10:16:10 AM	E7S18	5,040
7/19/2018	10:28:57 AM	E7S19	5,030
7/19/2018	10:39:31 AM	E7S20	4,930
7/19/2018	10:51:22 AM	E7S21	4,980
7/19/2018	11:03:59 AM	E7S22	4,940
7/19/2018	11:15:00 AM	E7S23	4,900
7/19/2018	11:31:16 AM	E7S24	4,450
7/19/2018	1:01:51 PM	E7S25	5,340
7/19/2018	1:15:58 PM	E7S26	4,940
7/19/2018	1:31:12 PM	E7S27	4,890
7/19/2018	1:49:28 PM	E7S28	5,510
7/19/2018	2:03:55 PM	E7S29	4,510
7/19/2018	2:15:15 PM	E7S30	4,590
7/19/2018	2:26:23 PM	E7S31	4,870
7/19/2018	2:37:28 PM	E7S32	5,040
7/19/2018	2:49:02 PM	E7S33	5,170
7/19/2018	3:00:22 PM	E7S34	5,340
		Total PC lbs	155,800

The chart below is a summary of the soil volume mixed and the quantity of Portland cement delivered to the site, on hand and used in the ISS operation. This information is taken from the Excel workbook created for this project and updated each work day.

Total PC Delivered to Site	1,028,120	On Hand End of Day	Soil Volume Mixed		
Total PC Cell Qt'ys Sheet	916,199	Truck	23,860	Total yd ³	7,129.95
Total from Plant Scale	917,830	Silo 1	14,760	yd ³ today	1,210.15
PC Today Cell Qt'ys Sheet	155,504	Silo 2	64,460		
		Total	103,080		
Plant Scale + On Hand			1,020,910		
		Error lb	7,210		
		Error %	0.70%		

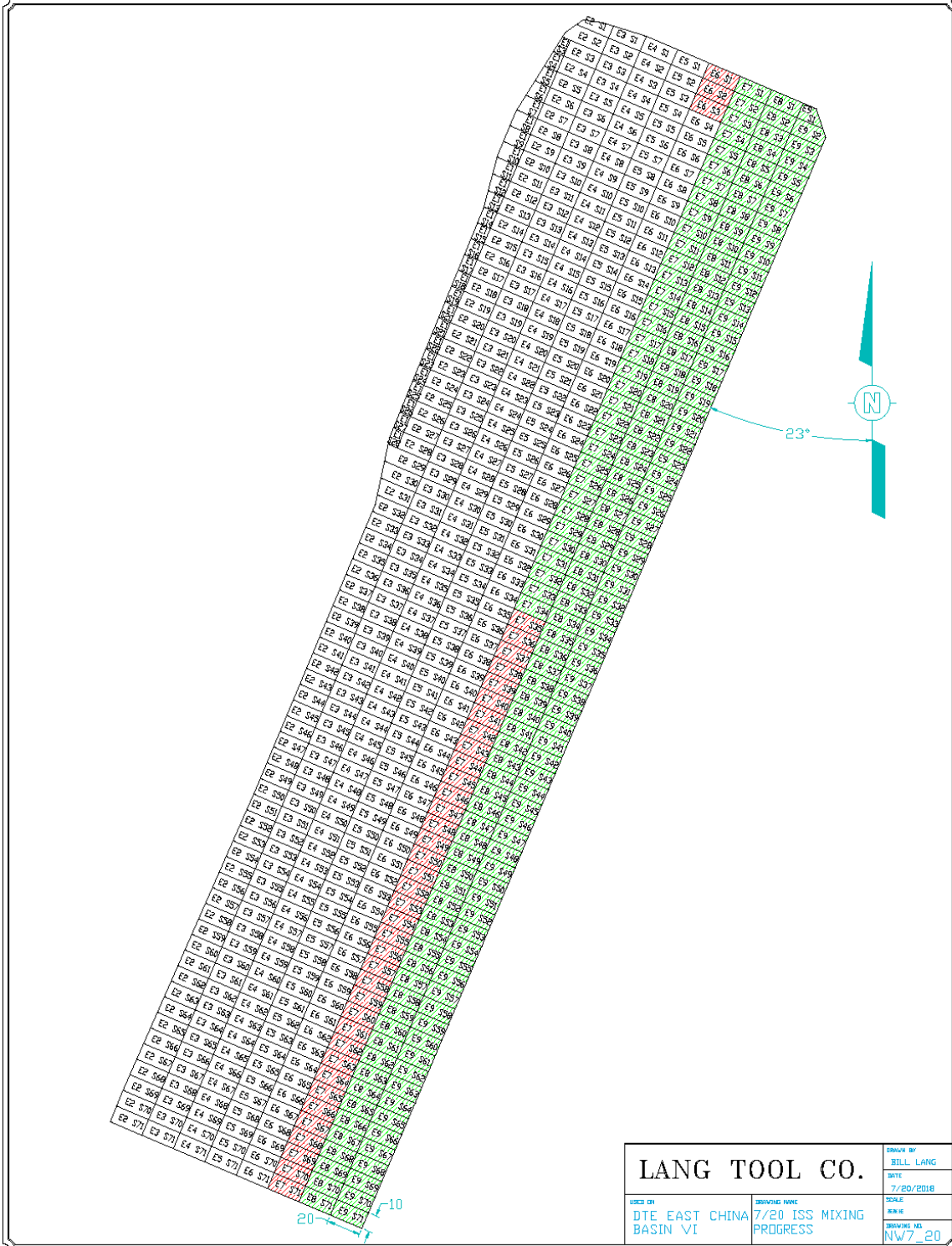
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July 20, 2018
Northwest



The chart below was downloaded from the LTC Slurry Plant onboard computer. It shows the cell designation and the quantity of Portland cement delivered into the cell. Cells with a B designation are where solid soil was encountered deeper than 583.5. Additional PC was added to the cell to maintain the correct PC/sludge ratio.

Date	Time	Cell	lb
7/20/2018	6:22:06 AM	E7S35	4,660
7/20/2018	6:33:00 AM	E7S36	5,020
7/20/2018	6:44:09 AM	E7S37	4,940
7/20/2018	6:55:53 AM	E7S38	5,120
7/20/2018	7:08:28 AM	E7S39	5,300
7/20/2018	7:21:14 AM	E7S40	5,440
7/20/2018	7:34:55 AM	E7S41	4,930
7/20/2018	7:45:45 AM	E7S42	4,830
7/20/2018	7:59:27 AM	E7S43	5,240
7/20/2018	8:12:02 AM	E7S44	5,260
7/20/2018	8:25:51 AM	E7S45	5,030
7/20/2018	8:36:01 AM	E7S46	5,260
7/20/2018	8:46:23 AM	E7S47	5,300
7/20/2018	8:57:17 AM	E7S48	5,460
7/20/2018	9:08:33 AM	E7S49	5,840
7/20/2018	9:21:07 AM	E7S50	5,610
7/20/2018	9:33:26 AM	E7S51	5,630
7/20/2018	9:49:40 AM	E7S52	5,680
7/20/2018	10:02:03 AM	E7S53	5,290
7/20/2018	10:14:17 AM	E7S54	6,000
7/20/2018	10:24:38 AM	E7S55	5,130
7/20/2018	10:33:59 AM	E7S56	4,900
7/20/2018	10:48:01 AM	E7S57	4,960
7/20/2018	10:59:03 AM	E7S58	5,200
7/20/2018	11:10:01 AM	E7S59	4,980
7/20/2018	11:27:13 AM	E7S60	4,710
7/20/2018	11:41:37 AM	E7S61	4,850
7/20/2018	11:51:39 AM	E7S62	4,780
7/20/2018	12:03:28 PM	E7S63	4,820
7/20/2018	12:13:59 PM	E7S64	4,610
7/20/2018	12:24:07 PM	E7S65	4,560
7/20/2018	12:35:30 PM	E7S66	4,840
7/20/2018	12:50:00 PM	E7S67	4,730
7/20/2018	1:00:58 PM	E7S68	4,680
7/20/2018	1:11:50 PM	E7S69	4,850
7/20/2018	1:22:39 PM	E7S70	4,980
7/20/2018	1:33:37 PM	E7S71	5,220
7/20/2018	1:51:11 PM	E6S1	5,180
7/20/2018	2:03:51 PM	E6S2	7,250
7/20/2018	2:19:03 PM	E6S3	7,120
		Totla PC lbs	208,190

The chart below is a summary of the soil volume mixed and the quantity of Portland cement delivered to the site, on hand and used in the ISS operation. This information is taken from the Excel workbook created for this project and updated each work day.

Total PC Delivered to Site	1,223,660	On Hand End of Day	Soil Volume Mixed		
Total PC Cell Qt'ys Sheet	1,124,050	Truck	16,540	Total yd ³	8,747.47
Total from Plant Scale	1,126,020	Silo 1	20,600	yd ³ today	1,617.47
PC Today Cell Qt'ys Sheet	207,851	Silo 2	52,090		
		Total	89,230		
Plant Scale + On Hand			1,215,250		
		Error lb	8,410		
		Error %	0.69%		

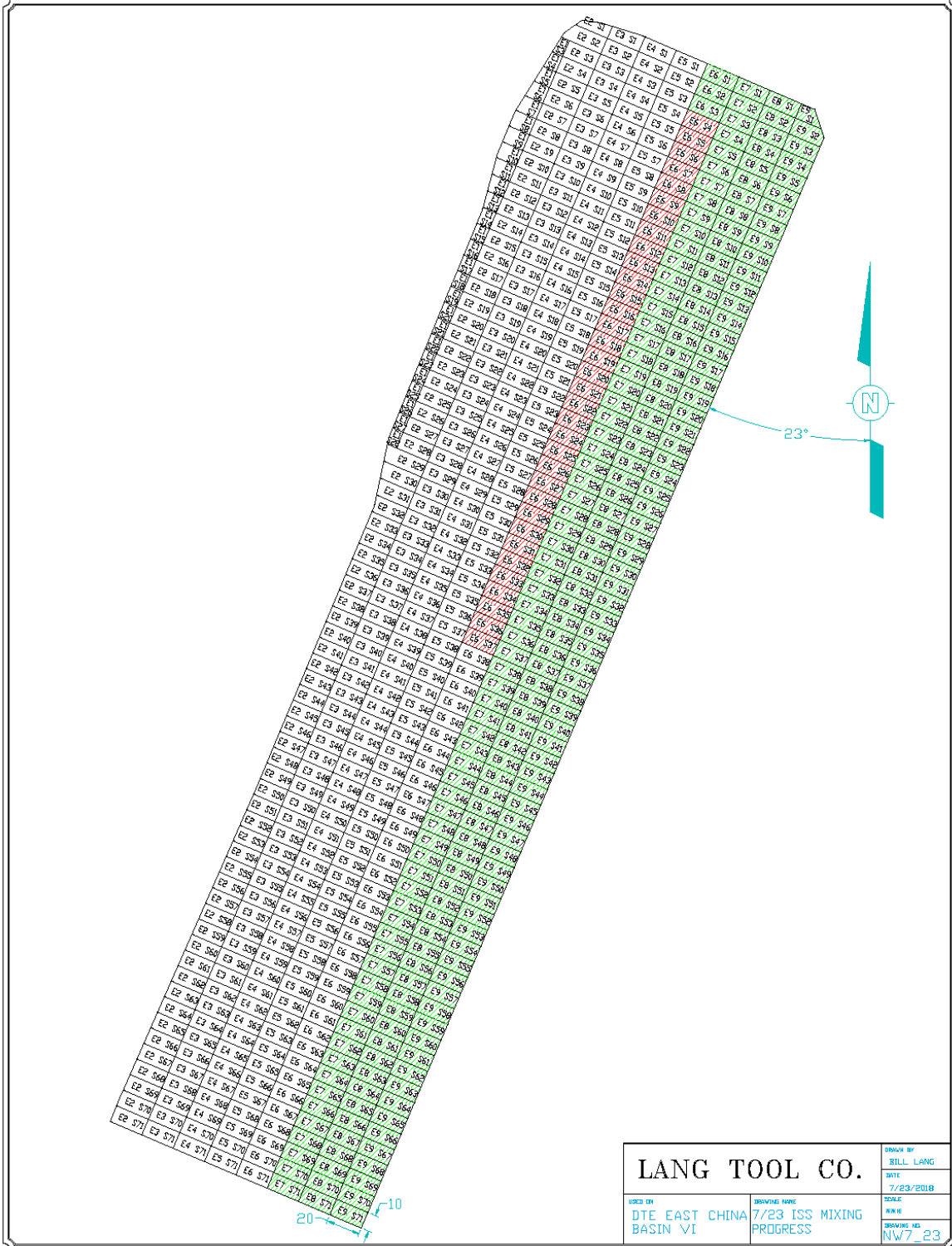
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July 23, 2018
Northwest



The chart below was downloaded from the LTC Slurry Plant onboard computer. It shows the cell designation and the quantity of Portland cement delivered into the cell. Cells with a B designation are where solid soil was encountered deeper than 583.5. Additional PC was added to the cell to maintain the correct PC/sludge ratio.

Date	Time	Cell	lb
7/23/2018	7:30:55 AM	E6S4	6,720
7/23/2018	7:45:06 AM	E6S5	6,540
7/23/2018	8:01:46 AM	E6S6	6,720
7/23/2018	8:17:51 AM	E6S7	6,510
7/23/2018	8:31:12 AM	E6S8	5,960
7/23/2018	8:48:18 AM	E6S9	6,060
7/23/2018	9:02:09 AM	E6S10	6,000
7/23/2018	9:13:58 AM	E6S11	5,540
7/23/2018	9:26:13 AM	E6S12	5,830
7/23/2018	9:40:47 AM	E6S13	6,200
7/23/2018	9:53:18 AM	E6S14	5,930
7/23/2018	10:07:48 AM	E6S15	5,620
7/23/2018	10:19:37 AM	E6S16	5,330
7/23/2018	10:31:47 AM	E6S17	5,130
7/23/2018	10:43:58 AM	E6S18	5,270
7/23/2018	10:56:35 AM	E6S19	5,510
7/23/2018	11:08:42 AM	E6S20	5,190
7/23/2018	11:24:23 AM	E6S21	5,080
7/23/2018	11:39:11 AM	E6S22	5,280
7/23/2018	11:56:22 AM	E6S23	4,600
7/23/2018	12:10:05 PM	E6S24	5,390
7/23/2018	12:24:35 PM	E6S25	5,120
7/23/2018	12:35:34 PM	E6S26	4,970
7/23/2018	12:47:26 PM	E6S27	4,860
7/23/2018	12:58:29 PM	E6S28	4,810
7/23/2018	1:10:42 PM	E6S29	5,520
7/23/2018	1:22:45 PM	E6S30	5,630
7/23/2018	1:36:51 PM	E6S31	5,450
7/23/2018	1:49:25 PM	E6S32	5,380
7/23/2018	2:00:56 PM	E6S33	5,230
7/23/2018	2:14:46 PM	E6S34	6,170
7/23/2018	2:28:08 PM	E6S35	6,160
7/23/2018	2:57:02 PM	E6S36	5,980
7/23/2018	3:09:10 PM	E6S37	5,850
		Total PC lbs	191,540

The chart below is a summary of the soil volume mixed and the quantity of Portland cement delivered to the site, on hand and used in the ISS operation. This information is taken from the Excel workbook created for this project and updated each work day.

Total PC Delivered to Site	1,421,720	On Hand End of Day		Soil Volume Mixed	
Total PC Cell Qt'ys Sheet	1,315,353	Truck	15,540	Total yd^3	10,236.21
Total from Plant Scale	1,317,560	Silo 1	16,720	yd^3 today	1,488.71
PC Today Cell Qt'ys Sheet	191,303	Silo 2	61,780		
		Total	94,040		
Plant Scale + On Hand			1,411,600		
		Error lb	10,120		
		Error %	0.71%		

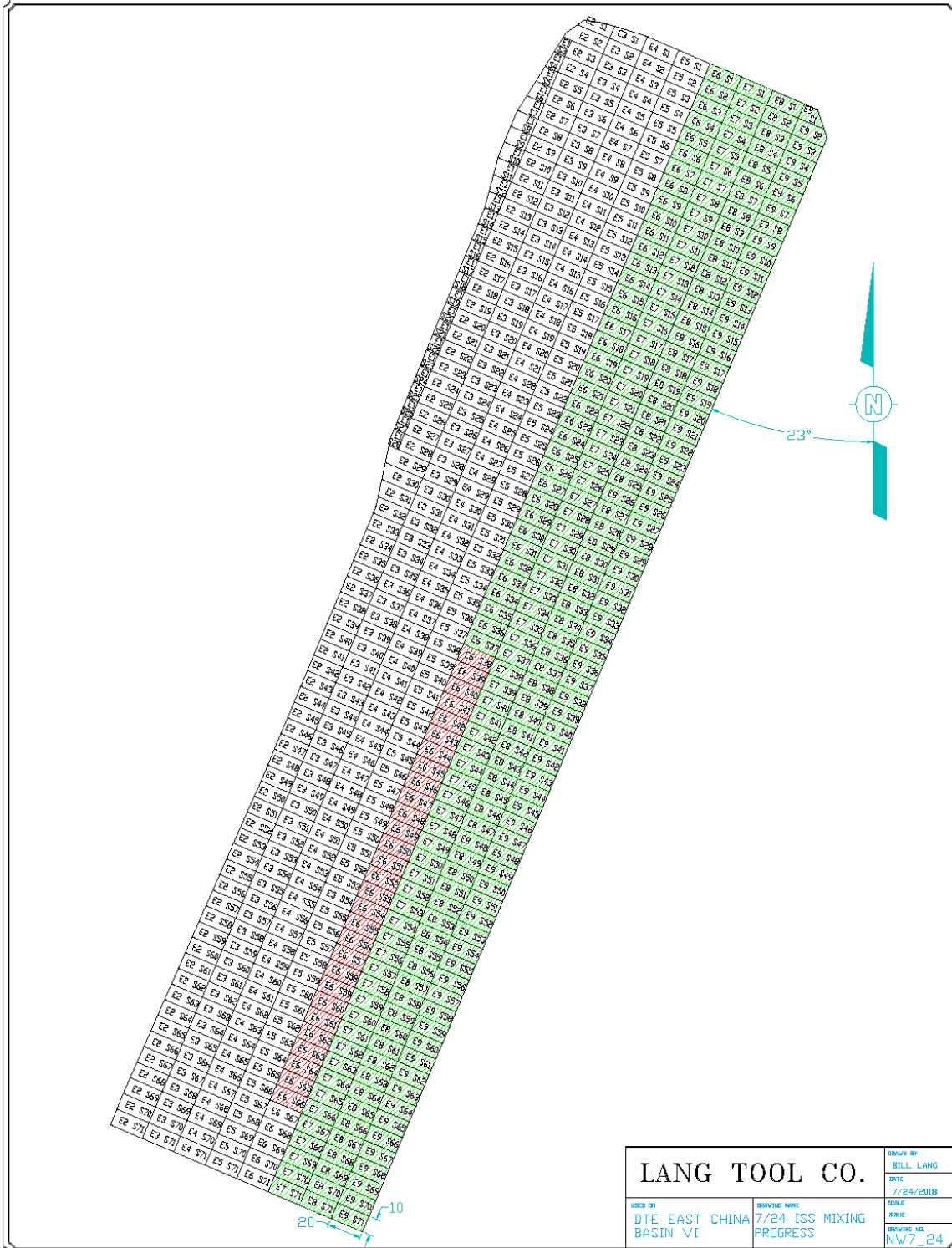
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July 24, 2018
Northwest



LANG TOOL CO.		DESIGN BY BILL LANG
USED BY DTE EAST CHINA BASIN VI		DATE 7/24/2018
ISSUED FOR 7/24 ISS MIXING PROGRESS		TITLE R&R
		DRAWING NO. NW7_24

The chart below was downloaded from the LTC Slurry Plant onboard computer. It shows the cell designation and the quantity of Portland cement delivered into the cell. Cells with a B designation are where solid soil was encountered deeper than 583.5. Additional PC was added to the cell to maintain the correct PC/sludge ratio.

Date	Time	Cell	lb
7/24/2018	7:23:38 AM	E6S38	6,660
7/24/2018	7:37:31 AM	E6S39	6,280
7/24/2018	7:50:04 AM	E6S40	6,250
7/24/2018	8:05:55 AM	E6S41	6,040
7/24/2018	8:20:08 AM	E6S42	5,960
7/24/2018	8:33:50 AM	E6S43	5,730
7/24/2018	8:47:41 AM	E6S44	6,020
7/24/2018	8:59:44 AM	E6S45	5,940
7/24/2018	9:14:40 AM	E6S46	5,660
7/24/2018	9:28:06 AM	E6S47	5,850
7/24/2018	9:40:25 AM	E6S48	5,910
7/24/2018	9:51:36 AM	E6S49	5,810
7/24/2018	10:04:39 AM	E6S50	5,610
7/24/2018	10:21:56 AM	E6S51	6,100
7/24/2018	10:33:58 AM	E6S52	6,100
7/24/2018	10:48:22 AM	E6S53	6,090
7/24/2018	11:01:21 AM	E6S54	6,470
7/24/2018	11:15:29 AM	E6S55	6,640
7/24/2018	11:29:29 AM	E6S56	6,650
7/24/2018	11:50:46 AM	E6S57	6,070
7/24/2018	12:04:42 PM	E6S58	6,450
7/24/2018	12:17:37 PM	E6S59	6,500
7/24/2018	12:30:55 PM	E6S60	6,320
7/24/2018	12:44:35 PM	E6S61	6,320
7/24/2018	1:22:30 PM	E6S62	6,510
7/24/2018	1:36:28 PM	E6S63	6,090
7/24/2018	1:49:59 PM	E6S64	6,030
7/24/2018	2:04:16 PM	E6S65	6,310
7/24/2018	2:18:09 PM	E6S66	6,370
		Total PC lbs	178,740

The chart below is a summary of the soil volume mixed and the quantity of Portland cement delivered to the site, on hand and used in the ISS operation. This information is taken from the Excel workbook created for this project and updated each work day.

PC Delivered to Site NW	1,567,860	On Hand End of Day		Soil Volume Mixed	
Total PC Cell Qt'ys Sheet	1,493,825	Truck	6,200	Total	32,564.17
Total from Plant Scale	1,496,300	Silo 1	53,390	NW Quad	11,625.10
PC Today Cell Qt'ys Sheet	178,472	Silo 2	500	NE Quad	20,939.07
Total NE Quad	3,020,020	Total	60,090		0.00
	0	Plant + On Hand	1,556,390		0.00
	0	Error lb	11,470	yd^3 today	1,388.89
Total PC Tons	2,256.92	Error %	0.73%		

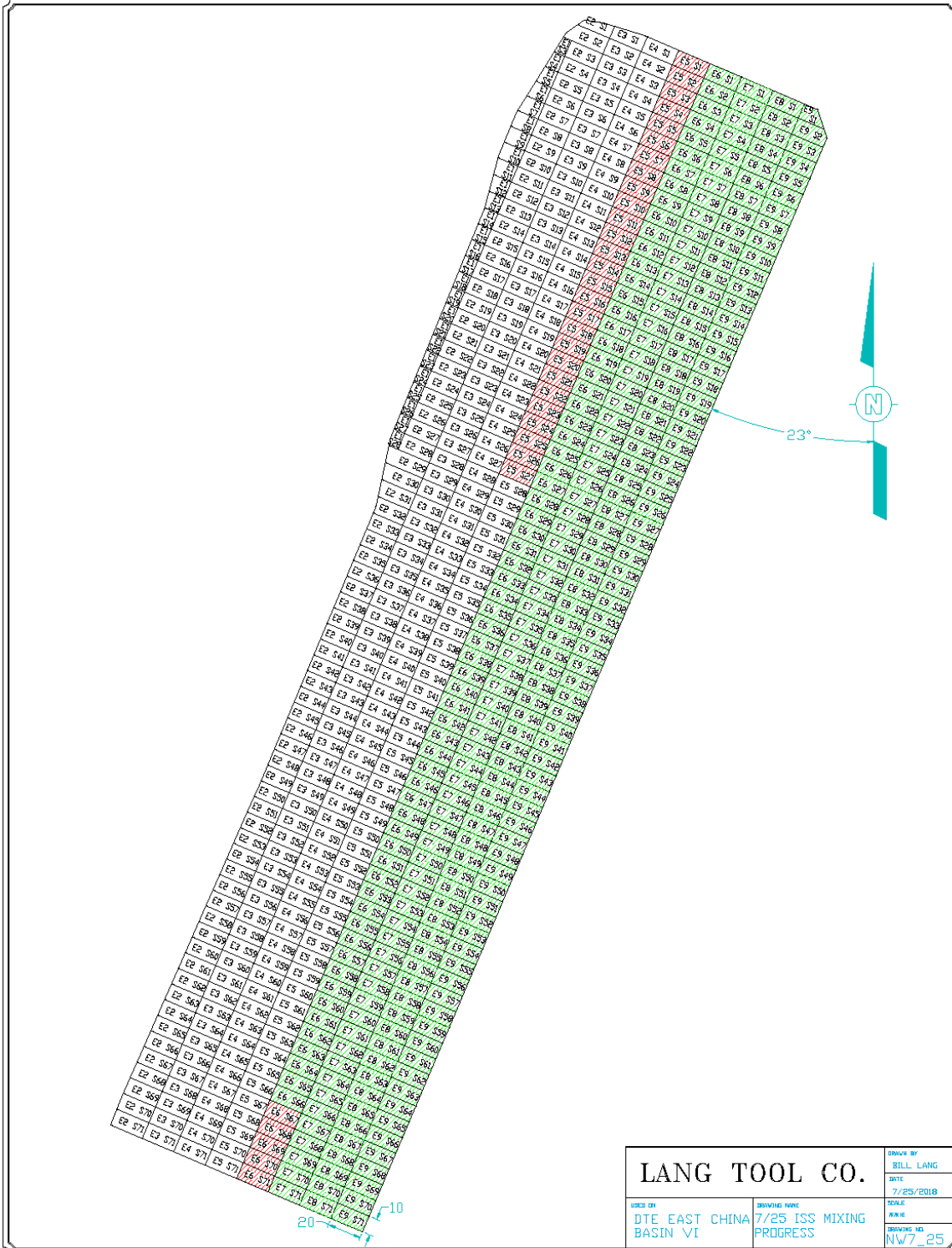
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July 25, 2018
Northwest



The chart below was downloaded from the LTC Slurry Plant onboard computer. It shows the cell designation and the quantity of Portland cement delivered into the cell. Cells with a B designation are where solid soil was encountered deeper than 583.5. Additional PC was added to the cell to maintain the correct PC/sludge ratio.

Date	Time	Cell	lb
7/25/2018	6:38:34 AM	E6S67	6,210
7/25/2018	6:50:52 AM	E6S68	6,240
7/25/2018	7:02:32 AM	E6S69	6,050
7/25/2018	7:15:30 AM	E6S70	5,820
7/25/2018	7:26:55 AM	E6S71	5,730
7/25/2018	8:04:15 AM	E5S1	6,110
7/25/2018	8:18:30 AM	E5S2	7,000
7/25/2018	8:33:15 AM	E5S3	7,330
7/25/2018	8:49:31 AM	E6S4	6,970
7/25/2018	9:02:10 AM	E5S5	6,580
7/25/2018	9:16:10 AM	E5S6	6,390
7/25/2018	9:31:07 AM	E5S7	6,290
7/25/2018	9:46:54 AM	E5S8	6,440
7/25/2018	10:04:31 AM	E5S9	6,460
7/25/2018	10:19:01 AM	E5S10	6,160
7/25/2018	10:33:43 AM	E5S11	6,110
7/25/2018	10:46:58 AM	E5S12	6,250
7/25/2018	11:00:55 AM	E5S13	6,010
7/25/2018	11:16:16 AM	E5S14	6,450
7/25/2018	11:30:07 AM	E5S15	6,520
7/25/2018	11:47:47 AM	E5S16	6,220
7/25/2018	12:01:00 PM	E5S17	6,450
7/25/2018	12:15:06 PM	E5S18	6,100
7/25/2018	12:28:58 PM	E5S19	6,320
7/25/2018	12:43:39 PM	E5S20	5,910
7/25/2018	12:57:38 PM	E5S21	6,000
7/25/2018	1:10:35 PM	E5S22	5,420
7/25/2018	1:23:33 PM	E5S23	5,530
7/25/2018	1:36:36 PM	E5S24	5,350
7/25/2018	1:54:01 PM	E5S25	5,590
7/25/2018	2:09:27 PM	E5S26	5,800
7/25/2018	2:22:05 PM	E5S27	5,720
		Total PC lbs	197,530

The chart below is a summary of the soil volume mixed and the quantity of Portland cement delivered to the site, on hand and used in the ISS operation. This information is taken from the Excel workbook created for this project and updated each work day.

PC Delivered to Site NW	1,762,880	On Hand End of Day		Soil Volume Mixed	
Total PC Cell Qt'ys Sheet	1,691,053	Truck	4,830	Total	34,099.02
Total from Plant Scale	1,693,830	Silo 1	49,700	NW Quad	13,159.95
PC Today Cell Qt'ys Sheet	197,228	Silo 2	500	NE Quad	20,939.07
Total NE Quad	3,020,020	Total	55,030		0.00
	0	Plant + On Hand	1,748,860		0.00
	0	Error lb	14,020	yd^3 today	1,534.85
Total PC Tons	2,355.54	Error %	0.80%		

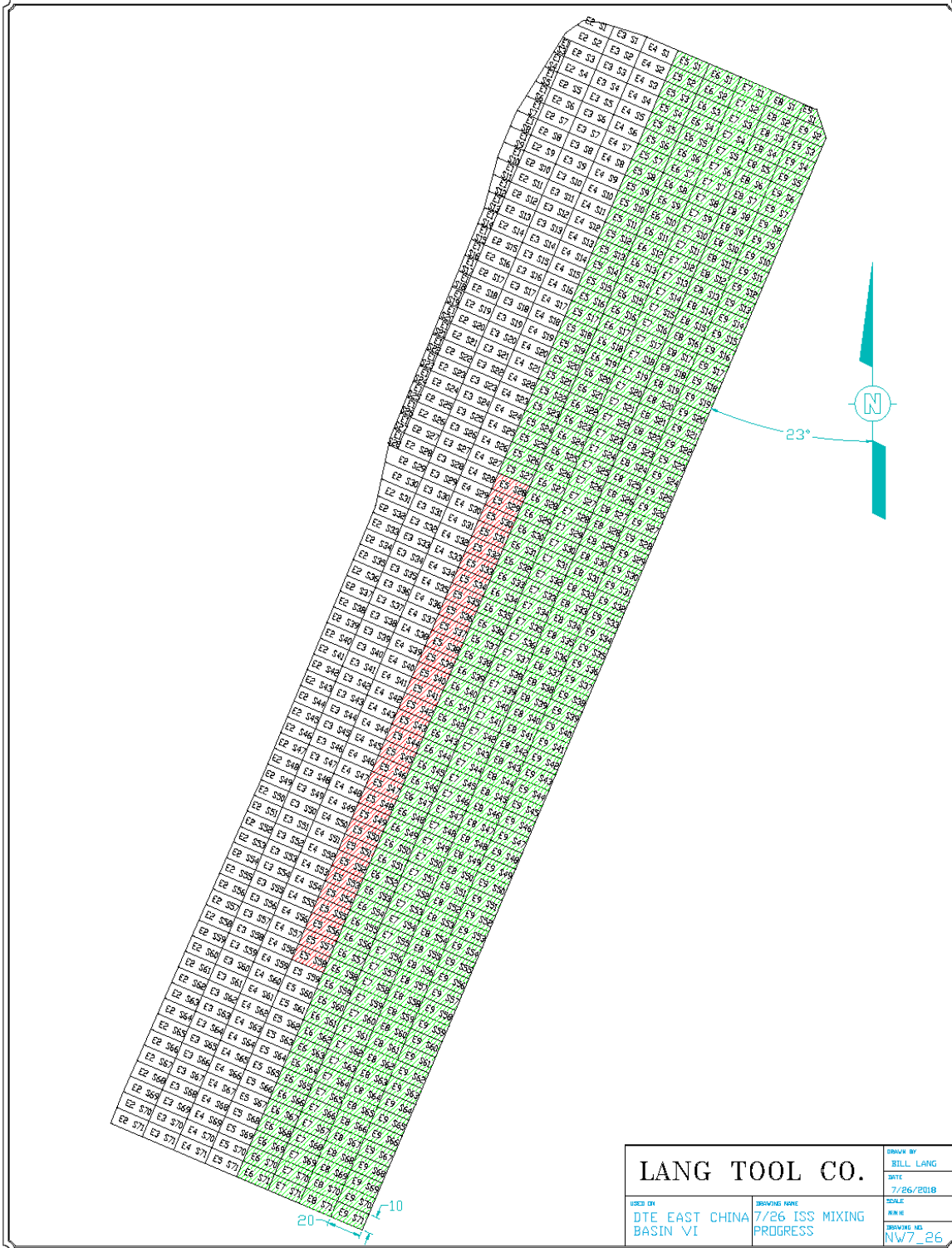
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July 26, 2018
Northwest



The chart below was downloaded from the LTC Slurry Plant onboard computer. It shows the cell designation and the quantity of Portland cement delivered into the cell. Cells with a B designation are where solid soil was encountered deeper than 583.5. Additional PC was added to the cell to maintain the correct PC/sludge ratio.

Date	Time	Cell	lb
7/26/2018	6:29:22 AM	E5S28	5,650
7/26/2018	6:40:56 AM	E5S29	6,050
7/26/2018	6:52:39 AM	E5S30	5,640
7/26/2018	7:04:43 AM	E5S31	6,030
7/26/2018	7:16:13 AM	E5S32	5,820
7/26/2018	7:27:39 AM	E5S33	5,700
7/26/2018	7:39:14 AM	E5S34	5,760
7/26/2018	7:53:47 AM	E5S35	5,600
7/26/2018	8:06:15 AM	E5S36	6,100
7/26/2018	8:19:39 AM	E5S37	5,950
7/26/2018	8:37:04 AM	E5S38	5,770
7/26/2018	8:50:04 AM	E5S39	5,570
7/26/2018	9:07:19 AM	E5S40	5,500
7/26/2018	9:20:10 AM	E5S41	6,010
7/26/2018	9:32:45 AM	E5S42	6,410
7/26/2018	9:46:56 AM	E5S43	6,360
7/26/2018	10:00:18 AM	E5S44	6,340
7/26/2018	10:15:55 AM	E5S45	6,210
7/26/2018	10:29:30 AM	E5S46	6,140
7/26/2018	10:45:35 AM	E5S47	6,920
7/26/2018	11:00:26 AM	E5S48	6,730
7/26/2018	11:14:46 AM	E5S49	6,730
7/26/2018	11:37:36 AM	E5S50	6,770
7/26/2018	11:55:15 AM	E5S51	7,220
7/26/2018	12:10:41 PM	E5S52	7,110
7/26/2018	12:26:19 PM	E5S53	7,230
7/26/2018	12:42:08 PM	E5S54	7,070
7/26/2018	12:57:24 PM	E5S55	6,840
7/26/2018	1:16:59 PM	E5S56	6,730
7/26/2018	1:32:42 PM	E5S57	6,540
7/26/2018	1:47:08 PM	E5S58	6,470
		Total PC lbs	194,970

The chart below is a summary of the soil volume mixed and the quantity of Portland cement delivered to the site, on hand and used in the ISS operation. This information is taken from the Excel workbook created for this project and updated each work day.

PC Delivered to Site NW	1,959,820	On Hand End of Day		Soil Volume Mixed	
Total PC Cell Qt'ys Sheet	1,885,707	Truck	2,340	Total	35,613.83
Total from Plant Scale	1,888,800	Silo 1	50,940	NW Quad	14,674.76
PC Today Cell Qt'ys Sheet	194,654	Silo 2	500	NE Quad	20,939.07
Total NE Quad	3,020,020	Total	53,780		0.00
	0	Plant + On Hand	1,942,580		0.00
	0	Error lb	17,240	yd^3 today	1,514.81
Total PC Tons	2,452.86	Error %	0.88%		

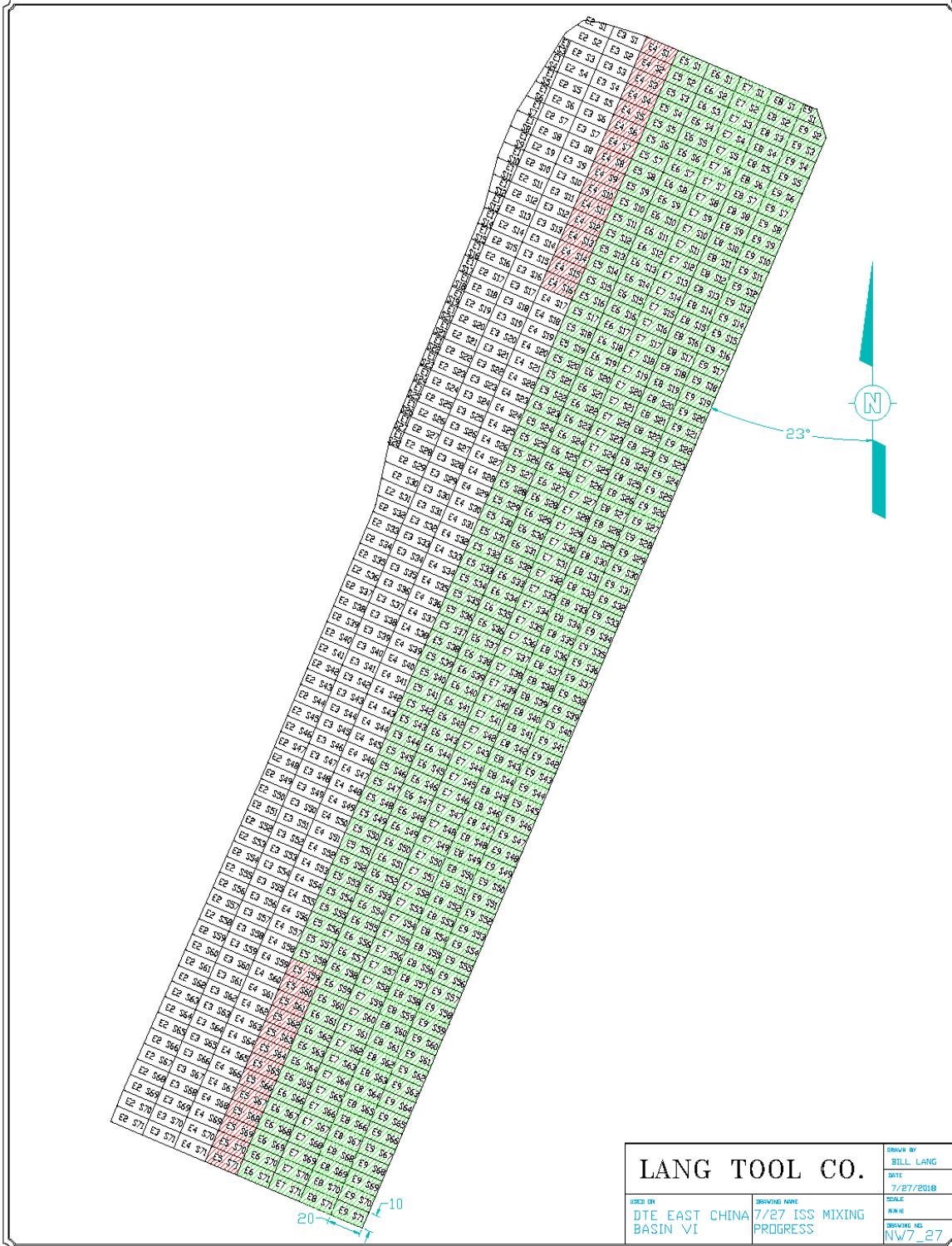
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July 27, 2018
Northwest



The chart below was downloaded from the LTC Slurry Plant onboard computer. It shows the cell designation and the quantity of Portland cement delivered into the cell. Cells with a B designation are where solid soil was encountered deeper than 583.5. Additional PC was added to the cell to maintain the correct PC/sludge ratio.

Date	Time	Cell	lb
7/27/2018	7:27:55 AM	E5S59	6,470
7/27/2018	7:47:16 AM	E5S60	6,520
7/27/2018	8:01:04 AM	E5S61	6,420
7/27/2018	8:14:28 AM	E5S62	6,230
7/27/2018	8:29:49 AM	E5S63	6,520
7/27/2018	8:44:21 AM	E5S64	6,010
7/27/2018	8:59:10 AM	E5S65	5,910
7/27/2018	9:19:37 AM	E5S66	5,990
7/27/2018	9:33:43 AM	E5S67	5,830
7/27/2018	9:46:50 AM	E5S68	5,790
7/27/2018	10:01:04 AM	E5S69	6,240
7/27/2018	10:17:51 AM	E5S70	6,440
7/27/2018	10:31:06 AM	E5S71	6,350
7/27/2018	11:06:07 AM	E4S1	4,990
7/27/2018	11:21:54 AM	E5S2	7,190
7/27/2018	11:38:16 AM	E4S3	7,610
7/27/2018	11:59:13 AM	E4S4	7,370
7/27/2018	12:20:33 PM	E4S5	7,070
7/27/2018	12:36:35 PM	E5S6	6,730
7/27/2018	12:52:00 PM	E5S7	6,780
7/27/2018	1:09:10 PM	E5S8	7,110
7/27/2018	1:25:11 PM	E4S9	6,780
7/27/2018	1:40:38 PM	E4S10	6,450
7/27/2018	1:56:01 PM	E4S11	6,820
7/27/2018	2:14:22 PM	E4S12	6,550
7/27/2018	2:29:39 PM	E4S13	6,870
7/27/2018	2:46:58 PM	E5S14	6,710
7/27/2018	3:00:46 PM	E4S15	6,310
7/27/2018	3:14:57 PM	E4S16	6,140
		Total PC lbs	188,200

The chart below is a summary of the soil volume mixed and the quantity of Portland cement delivered to the site, on hand and used in the ISS operation. This information is taken from the Excel workbook created for this project and updated each work day.

PC Delivered to Site NW	2,158,300	On Hand End of Day		Soil Volume Mixed	
Total PC Cell Qt'ys Sheet	2,073,570	Truck	9,400	Total	37,075.80
Total from Plant Scale	2,077,000	Silo 1	50,750	NW Quad	16,136.73
PC Today Cell Qt'ys Sheet	187,863	Silo 2	500	NE Quad	20,939.07
Total NE Quad	3,020,020	Total	60,650		0.00
	0	Plant + On Hand	2,137,650		0.00
	0	Error lb	20,650	yd^3 today	1,461.97
Total PC Tons	2,546.79	Error %	0.96%		

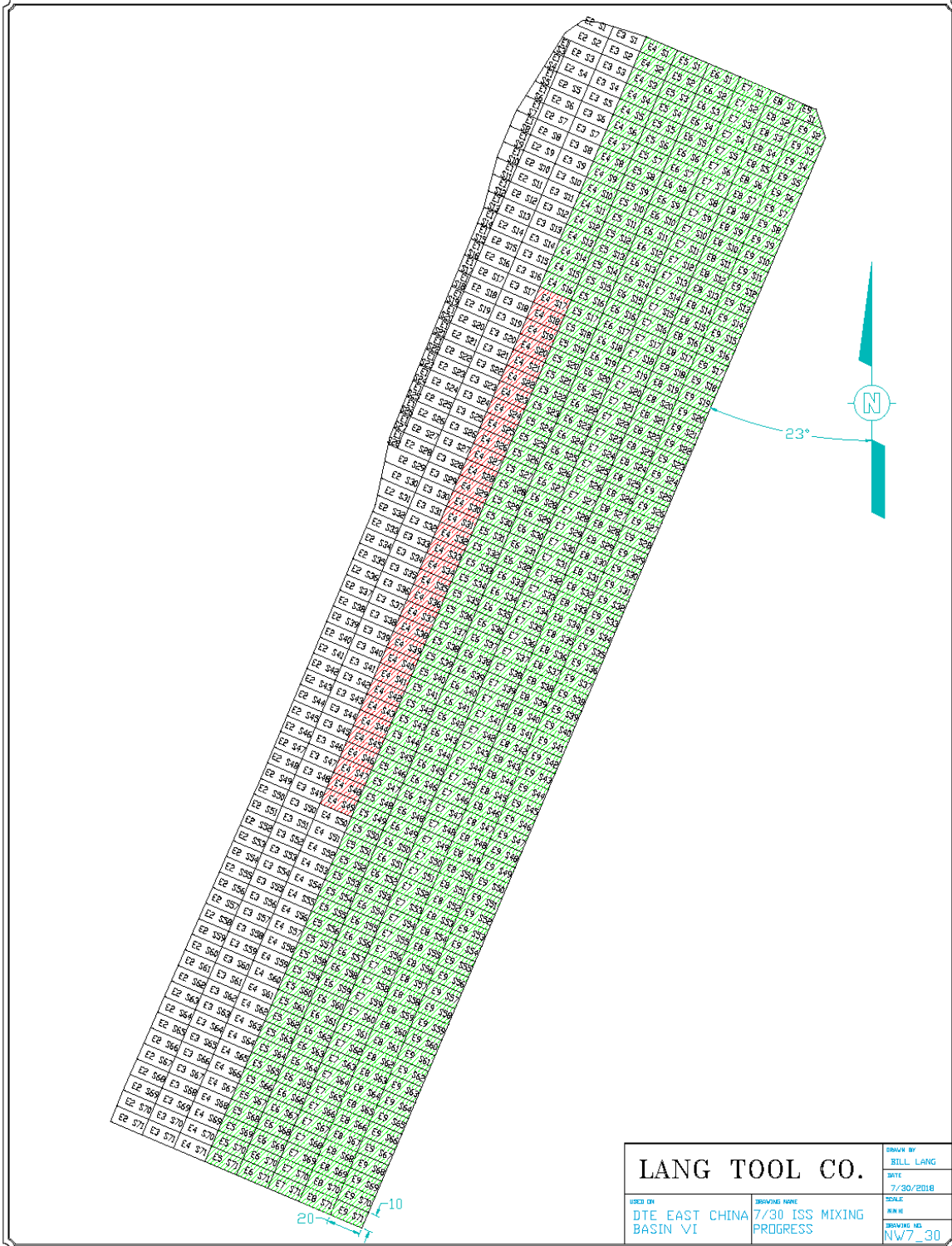
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July 30, 2018
Northwest



The chart below was downloaded from the LTC Slurry Plant onboard computer. It shows the cell designation and the quantity of Portland cement delivered into the cell. Cells with a B designation are where solid soil was encountered deeper than 583.5. Additional PC was added to the cell to maintain the correct PC/sludge ratio.

Date	Time	Cell	lb
7/30/2018	6:59:23 AM	E4S17	6,800
7/30/2018	7:11:45 AM	E4S18	6,550
7/30/2018	7:24:25 AM	E4S19	6,400
7/30/2018	7:36:25 AM	E4S20	6,110
7/30/2018	7:49:51 AM	E4S21	5,820
7/30/2018	8:04:47 AM	E4S22	5,600
7/30/2018	8:17:01 AM	E4S23	5,980
7/30/2018	8:29:11 AM	E4S24	5,700
7/30/2018	8:41:21 AM	E4S25	5,430
7/30/2018	8:54:00 AM	E4S26	6,010
7/30/2018	9:07:30 AM	E4S27	5,440
7/30/2018	9:21:04 AM	E4S28	5,670
7/30/2018	9:33:34 AM	E4S29	5,770
7/30/2018	9:45:38 AM	E4S30	5,680
7/30/2018	9:58:13 AM	E4S31	5,800
7/30/2018	10:10:53 AM	E4S32	5,550
7/30/2018	10:25:58 AM	E4S33	6,180
7/30/2018	10:39:24 AM	E4S34	6,030
7/30/2018	10:51:49 AM	E4S35	6,080
7/30/2018	11:06:56 AM	E4S36	6,380
7/30/2018	11:21:05 AM	E4S37	6,210
7/30/2018	11:38:27 AM	E4S38	6,030
7/30/2018	11:51:40 AM	E4S39	5,870
7/30/2018	12:04:15 PM	E4S40	6,330
7/30/2018	12:18:10 PM	E4S41	6,460
7/30/2018	12:32:05 PM	E4S42	6,380
7/30/2018	12:48:26 PM	E4S43	6,310
7/30/2018	1:02:18 PM	E4S44	6,220
7/30/2018	1:16:54 PM	E4S45	6,190
7/30/2018	1:32:01 PM	E4S46	6,600
7/30/2018	1:46:25 PM	E4S47	6,420
7/30/2018	2:05:31 PM	E4S48	6,740
7/30/2018	2:20:21 PM	E4S49	6,700
		Total PC lbs	201,440

The chart below is a summary of the soil volume mixed and the quantity of Portland cement delivered to the site, on hand and used in the ISS operation. This information is taken from the Excel workbook created for this project and updated each work day.

PC Delivered to Site NW	2,353,000	On Hand End of Day		Soil Volume Mixed	
Total PC Cell Qt'ys Sheet	2,274,763	Truck	2,960	Total	38,641.50
Total from Plant Scale	2,278,440	Silo 1	49,200	NW Quad	17,702.43
PC Today Cell Qt'ys Sheet	201,193	Silo 2	500	NE Quad	20,939.07
Total NE Quad	3,020,020	Total	52,660		0.00
	0	Plant + On Hand	2,331,100		0.00
	0	Error lb	21,900	yd^3 today	1,565.70
Total PC Tons	2,647.39	Error %	0.93%		

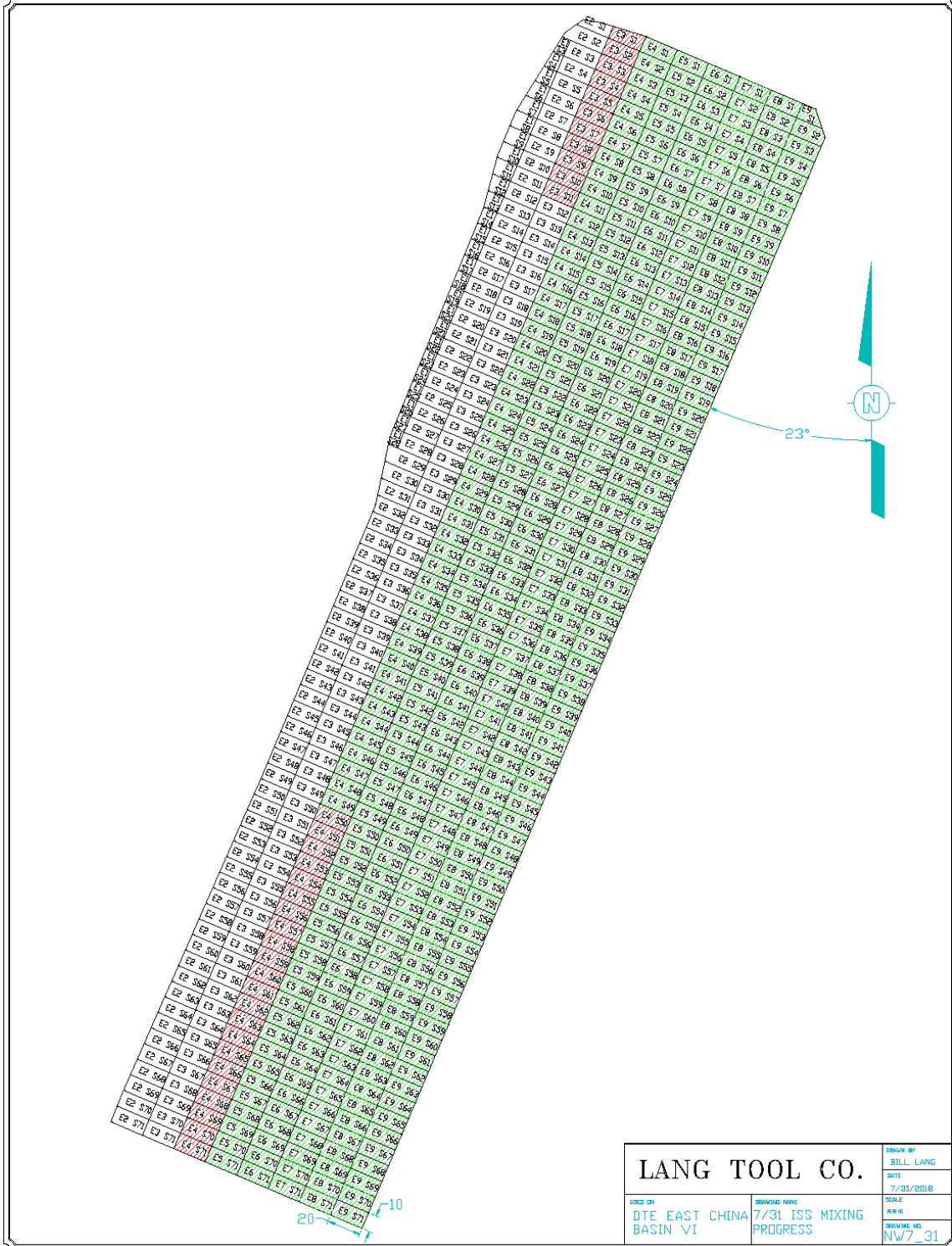
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July 31, 2018
Northwest



The chart below was downloaded from the LTC Slurry Plant onboard computer. It shows the cell designation and the quantity of Portland cement delivered into the cell. Cells with a B designation are where solid soil was encountered deeper than 583.5. Additional PC was added to the cell to maintain the correct PC/sludge ratio.

Date	Time	Cell	lb
7/31/2018	6:40:50 AM	E4S50	6,690
7/31/2018	6:56:21 AM	E4S51	7,140
7/31/2018	7:18:36 AM	E4S52	7,110
7/31/2018	7:34:50 AM	E4S53	6,930
7/31/2018	7:49:20 AM	E4S54	7,050
7/31/2018	8:04:07 AM	E4S55	7,130
7/31/2018	8:17:27 AM	E4S56	6,630
7/31/2018	8:31:30 AM	E4S57	6,520
7/31/2018	8:48:33 AM	E4S58	6,370
7/31/2018	9:03:57 AM	E4S59	7,310
7/31/2018	9:19:44 AM	E4S60	7,210
7/31/2018	9:39:13 AM	E4S61	7,270
7/31/2018	9:55:00 AM	E4S62	6,450
7/31/2018	10:12:31 AM	E4S63	6,410
7/31/2018	10:30:35 AM	E4S64	6,530
7/31/2018	10:44:15 AM	E4S65	6,430
7/31/2018	10:58:18 AM	E4S66	6,800
7/31/2018	11:11:45 AM	E4S67	6,720
7/31/2018	11:25:06 AM	E4S68	6,670
7/31/2018	11:44:51 AM	E4S69	6,700
7/31/2018	11:59:33 AM	E4S70	6,550
7/31/2018	12:14:03 PM	E4S71	6,540
7/31/2018	12:42:47 PM	E3S1	4,880
7/31/2018	12:57:30 PM	E3S2	7,000
7/31/2018	1:14:14 PM	E3S3	7,500
7/31/2018	1:30:41 PM	E3S4	7,330
7/31/2018	1:46:14 PM	E3S5	7,790
7/31/2018	2:01:53 PM	E3S6	7,600
7/31/2018	2:17:11 PM	E3S7	7,400
7/31/2018	2:33:34 PM	E3S8	7,140
7/31/2018	2:49:34 PM	E3S9	6,920
7/31/2018	3:06:21 PM	E3S10	6,620
7/31/2018	3:21:34 PM	E3S11	6,220
		Total PC lbs	225,560

The chart below is a summary of the soil volume mixed and the quantity of Portland cement delivered to the site, on hand and used in the ISS operation. This information is taken from the Excel workbook created for this project and updated each work day.

PC Delivered to Site NW	2,601,420	On Hand End of Day		Soil Volume Mixed	
Total PC Cell Qt'ys Sheet	2,499,965	Truck	15,970	Total	40,394.05
Total from Plant Scale	2,504,000	Silo 1	57,470	NW Quad	19,454.98
PC Today Cell Qt'ys Sheet	225,202	Silo 2	500	NE Quad	20,939.07
Total NE Quad	3,020,020	Total	73,940		0.00
	0	Plant + On Hand	2,577,940		0.00
	0	Error lb	23,480	yd^3 today	1,752.55
Total PC Tons	2,759.99	Error %	0.90%		

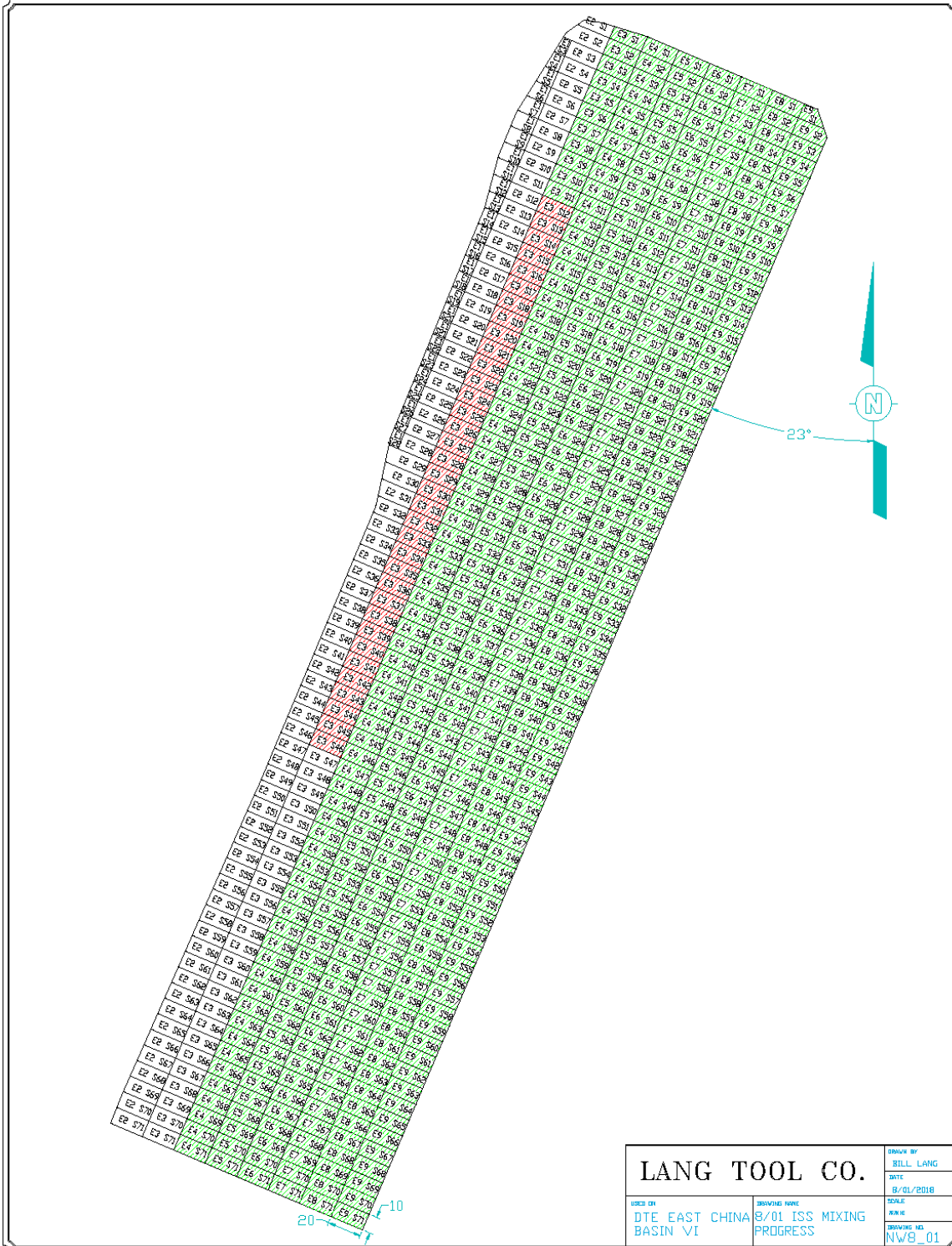
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August 1, 2018
Northwest



The chart below was downloaded from the LTC Slurry Plant onboard computer. It shows the cell designation and the quantity of Portland cement delivered into the cell. Cells with a B designation are where solid soil was encountered deeper than 583.5. Additional PC was added to the cell to maintain the correct PC/sludge ratio.

Date	Time	Cell	lb
8/1/2018	7:07:25 AM	E3S12	6,580
8/1/2018	7:21:05 AM	E3S13	6,860
8/1/2018	7:34:03 AM	E3S14	6,430
8/1/2018	7:48:20 AM	E3S15	6,820
8/1/2018	8:03:29 AM	E3S16	6,530
8/1/2018	8:17:00 AM	E3S17	6,730
8/1/2018	8:28:50 AM	E3S18	5,570
8/1/2018	8:41:09 AM	E3S19	5,490
8/1/2018	8:56:04 AM	E3S20	5,720
8/1/2018	9:16:18 AM	E3S21	5,940
8/1/2018	9:30:02 AM	E3S22	5,800
8/1/2018	9:42:02 AM	E3S23	5,610
8/1/2018	9:53:35 AM	E3S24	5,250
8/1/2018	10:05:54 AM	E3S25	5,240
8/1/2018	10:21:20 AM	E3S26	5,680
8/1/2018	10:32:16 AM	E3S27	5,270
8/1/2018	10:46:10 AM	E3S28	5,510
8/1/2018	10:57:58 AM	E3S29	5,370
8/1/2018	11:13:11 AM	E3S30	5,380
8/1/2018	11:37:59 AM	E3S31	5,450
8/1/2018	11:49:48 AM	E3S32	6,060
8/1/2018	12:02:18 PM	E3S33	5,760
8/1/2018	12:16:25 PM	E3S34	5,980
8/1/2018	12:28:59 PM	E3S35	6,020
8/1/2018	12:44:36 PM	E3S36	5,770
8/1/2018	12:57:50 PM	E3S37	6,090
8/1/2018	1:10:24 PM	E3S38	5,730
8/1/2018	1:23:32 PM	E3S39	5,890
8/1/2018	1:35:53 PM	E3S40	5,820
8/1/2018	1:53:13 PM	E3S41	5,990
8/1/2018	2:06:15 PM	E3S42	5,920
8/1/2018	2:21:39 PM	E3S43	6,030
8/1/2018	2:38:07 PM	E3S44	6,450
8/1/2018	2:57:02 PM	E3S45	6,880
8/1/2018	3:11:34 PM	E3S46	6,750
		Total PC lbs	208,370

The chart below is a summary of the soil volume mixed and the quantity of Portland cement delivered to the site, on hand and used in the ISS operation. This information is taken from the Excel workbook created for this project and updated each work day.

PC Delivered to Site NW	2,796,310	On Hand End of Day		Soil Volume Mixed	
Total PC Cell Qt'ys Sheet	2,706,993	Truck	6,750	Total	42,005.16
Total from Plant Scale	2,712,370	Silo 1	52,630	NW Quad	21,066.09
PC Today Cell Qt'ys Sheet	207,028	Silo 2	500	NE Quad	20,939.07
Total NE Quad	3,020,020	Total	59,880		0.00
	0	Plant + On Hand	2,772,250		0.00
	0	Error lb	24,060	yd^3 today	1,611.11
Total PC Tons	2,863.51	Error %	0.86%		

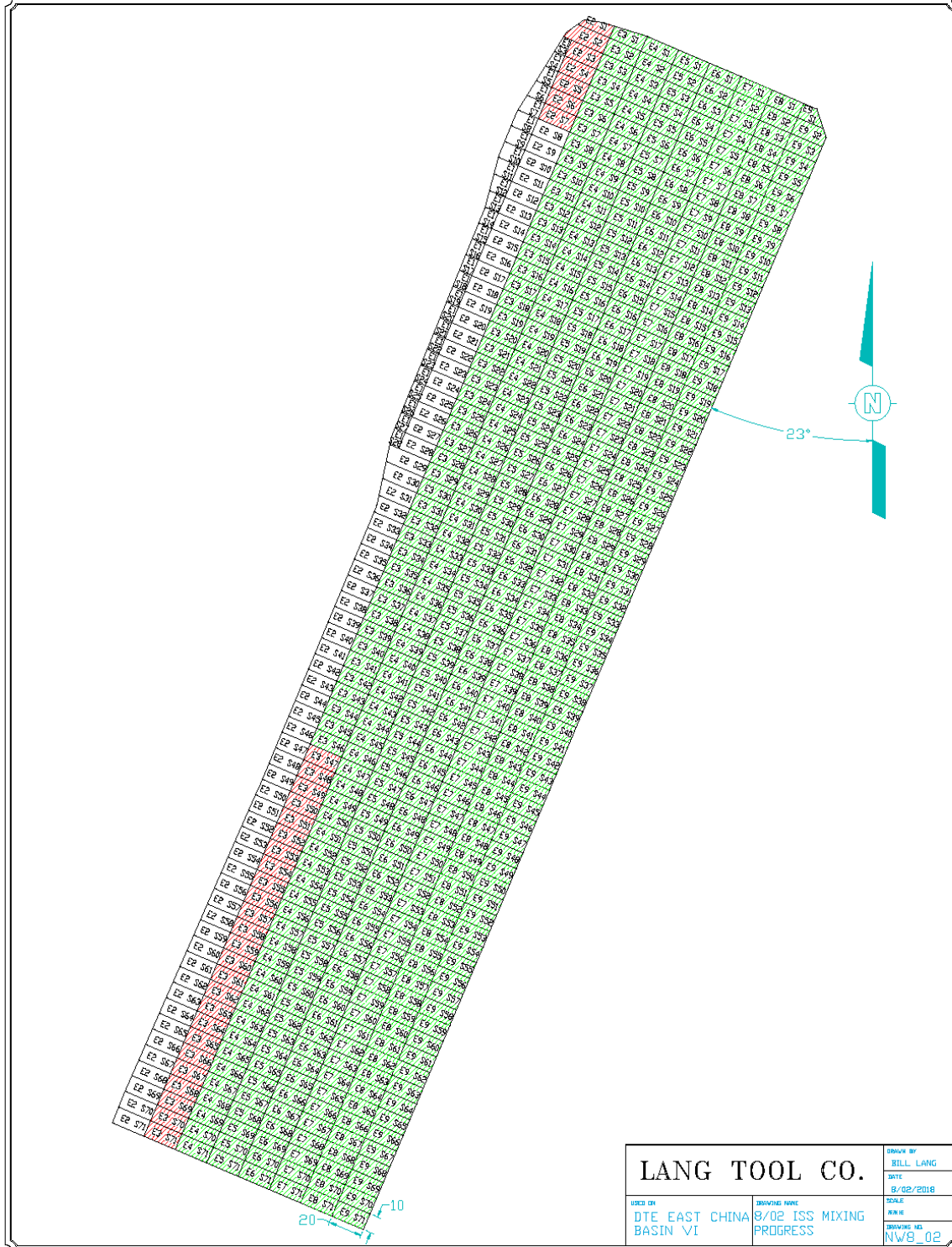
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August 2, 2018
Northwest



The chart below was downloaded from the LTC Slurry Plant onboard computer. It shows the cell designation and the quantity of Portland cement delivered into the cell. Cells with a B designation are where solid soil was encountered deeper than 583.5. Additional PC was added to the cell to maintain the correct PC/sludge ratio.

Date	Time	Cell	lb
8/2/2018	6:41:56 AM	E3S47	7,600
8/2/2018	6:56:26 AM	E3S48	7,720
8/2/2018	7:12:02 AM	E3S49	7,180
8/2/2018	7:49:28 AM	E3S50	6,890
8/2/2018	8:02:43 AM	E3S51	6,910
8/2/2018	8:17:57 AM	E3S52	6,900
8/2/2018	8:34:15 AM	E3S53	6,740
8/2/2018	8:51:58 AM	E3S54	6,780
8/2/2018	9:08:01 AM	E3S55	6,950
8/2/2018	9:24:38 AM	E3S56	6,950
8/2/2018	9:39:32 AM	E3S57	6,510
8/2/2018	9:57:40 AM	E3S58	6,600
8/2/2018	10:12:34 AM	E3S59	6,800
8/2/2018	10:27:12 AM	E3S60	6,630
8/2/2018	10:43:44 AM	E3S61	6,570
8/2/2018	11:01:00 AM	E3S62	6,610
8/2/2018	11:21:23 AM	E3S63	6,810
8/2/2018	11:36:21 AM	E3S64	6,620
8/2/2018	12:01:19 PM	E3S65	6,970
8/2/2018	12:17:11 PM	E3S66	7,020
8/2/2018	12:33:46 PM	E3S67	6,990
8/2/2018	12:49:06 PM	E3S68	6,810
8/2/2018	1:06:56 PM	E3S69	6,760
8/2/2018	1:22:05 PM	E3S70	6,760
8/2/2018	1:37:03 PM	E3S71	6,420
8/2/2018	1:57:55 PM	E2S1	2,910
8/2/2018	2:10:50 PM	E2S2	6,590
8/2/2018	2:25:17 PM	E2S3	6,790
8/2/2018	2:38:24 PM	E2S4	6,900
8/2/2018	2:52:53 PM	E2S5	7,170
8/2/2018	3:09:05 PM	E2S6	7,830
8/2/2018	3:27:27 PM	E2S7	7,630
		Total PC lbs	217,320

The chart below is a summary of the soil volume mixed and the quantity of Portland cement delivered to the site, on hand and used in the ISS operation. This information is taken from the Excel workbook created for this project and updated each work day.

PC Delivered to Site NW	3,045,790	On Hand End of Day		Soil Volume Mixed	
Total PC Cell Qt'ys Sheet	2,923,678	Truck	25,750	Total	43,691.43
Total from Plant Scale	2,929,690	Silo 1	64,180	NW Quad	22,752.36
PC Today Cell Qt'ys Sheet	216,685	Silo 2	500	NE Quad	20,939.07
Total NE Quad	3,020,020	Total	90,430		0.00
	0	Plant + On Hand	3,020,120		0.00
	0	Error lb	25,670	yd^3 today	1,686.27
Total PC Tons	2,971.85	Error %	0.84%		

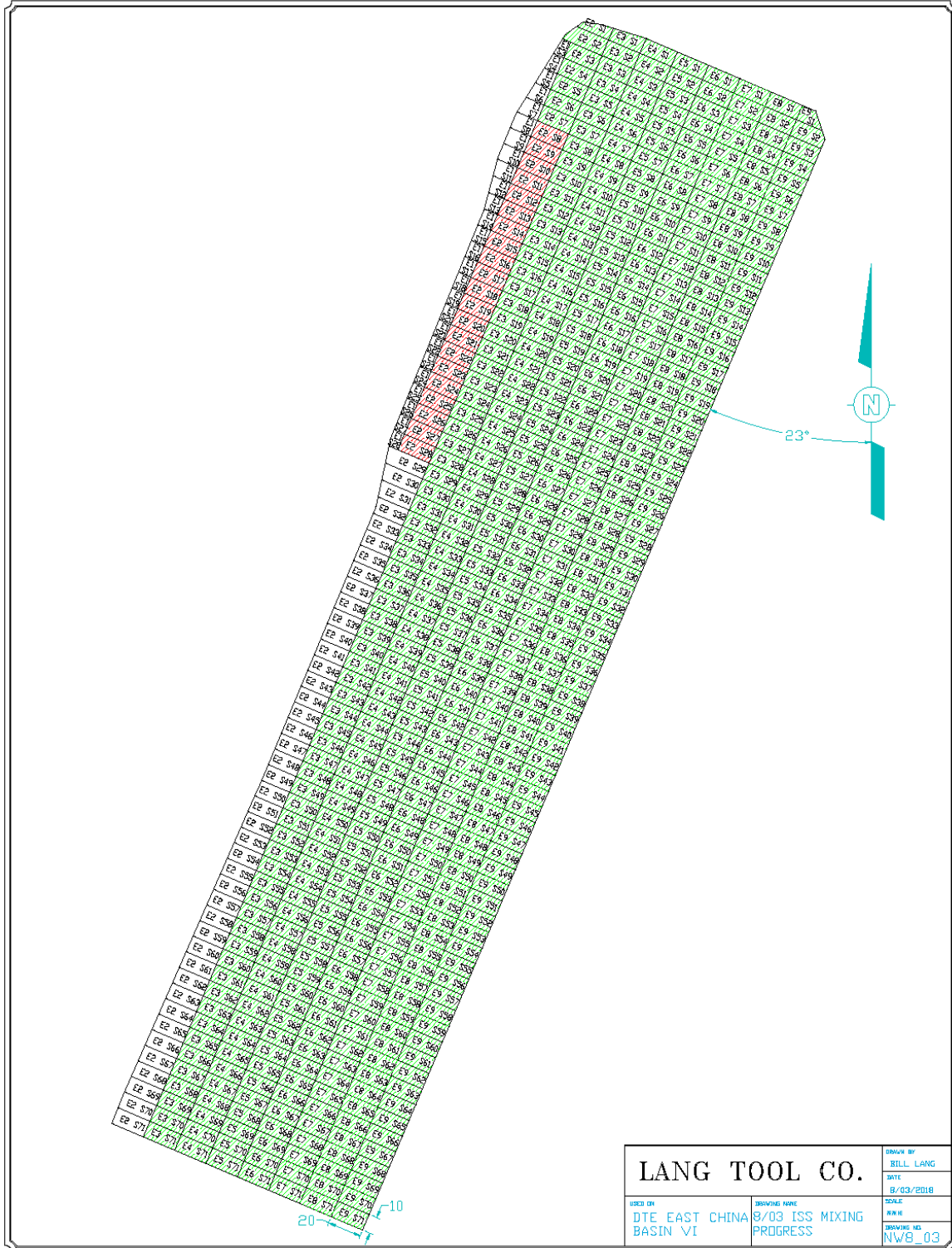
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August 3, 2018
Northwest



The chart below was downloaded from the LTC Slurry Plant onboard computer. It shows the cell designation and the quantity of Portland cement delivered into the cell. Cells with a B designation are where solid soil was encountered deeper than 583.5. Additional PC was added to the cell to maintain the correct PC/sludge ratio.

Date	Time	Cell	lb
8/3/2018	6:29:40 AM	E2S8	7,400
8/3/2018	6:43:41 AM	E2S9	7,350
8/3/2018	6:58:45 AM	E2S10	7,530
8/3/2018	7:13:47 AM	E2S11	7,290
8/3/2018	7:28:45 AM	E2S12	7,420
8/3/2018	7:43:25 AM	E2S13	7,220
8/3/2018	8:01:47 AM	E2S14	7,130
8/3/2018	8:17:52 AM	E2S15	6,780
8/3/2018	8:34:08 AM	E2S16	6,650
8/3/2018	8:48:34 AM	E2S17	6,530
8/3/2018	9:03:08 AM	E2S18	6,470
8/3/2018	9:20:13 AM	E2S19	5,930
8/3/2018	9:35:51 AM	E2S20	5,520
8/3/2018	9:48:48 AM	E2S21	5,540
8/3/2018	10:01:20 AM	E2S22	5,470
8/3/2018	10:13:48 AM	E2S23	5,260
8/3/2018	10:27:01 AM	E2S24	5,020
8/3/2018	10:44:58 AM	E2S25	5,410
8/3/2018	10:57:51 AM	E2S26	5,210
8/3/2018	11:11:27 AM	E2S27	4,950
8/3/2018	11:24:49 AM	E2S28	5,530
		Total PC lbs	131,610

The chart below is a summary of the soil volume mixed and the quantity of Portland cement delivered to the site, on hand and used in the ISS operation. This information is taken from the Excel workbook created for this project and updated each work day.

PC Delivered to Site NW	3,094,570	On Hand End of Day		Soil Volume Mixed	
Total PC Cell Qt'ys Sheet	3,055,043	Truck	4,330	Total	44,713.73
Total from Plant Scale	3,061,320	Silo 1	1,590	NW Quad	23,774.66
PC Today Cell Qt'ys Sheet	131,365	Silo 2	500	NE Quad	20,939.07
Total NE Quad	3,020,020	Total	6,420		0.00
	0	Plant + On Hand	3,067,740		0.00
	0	Error lb	26,830	yd^3 today	1,022.30
Total PC Tons	3,037.53	Error %	0.87%		

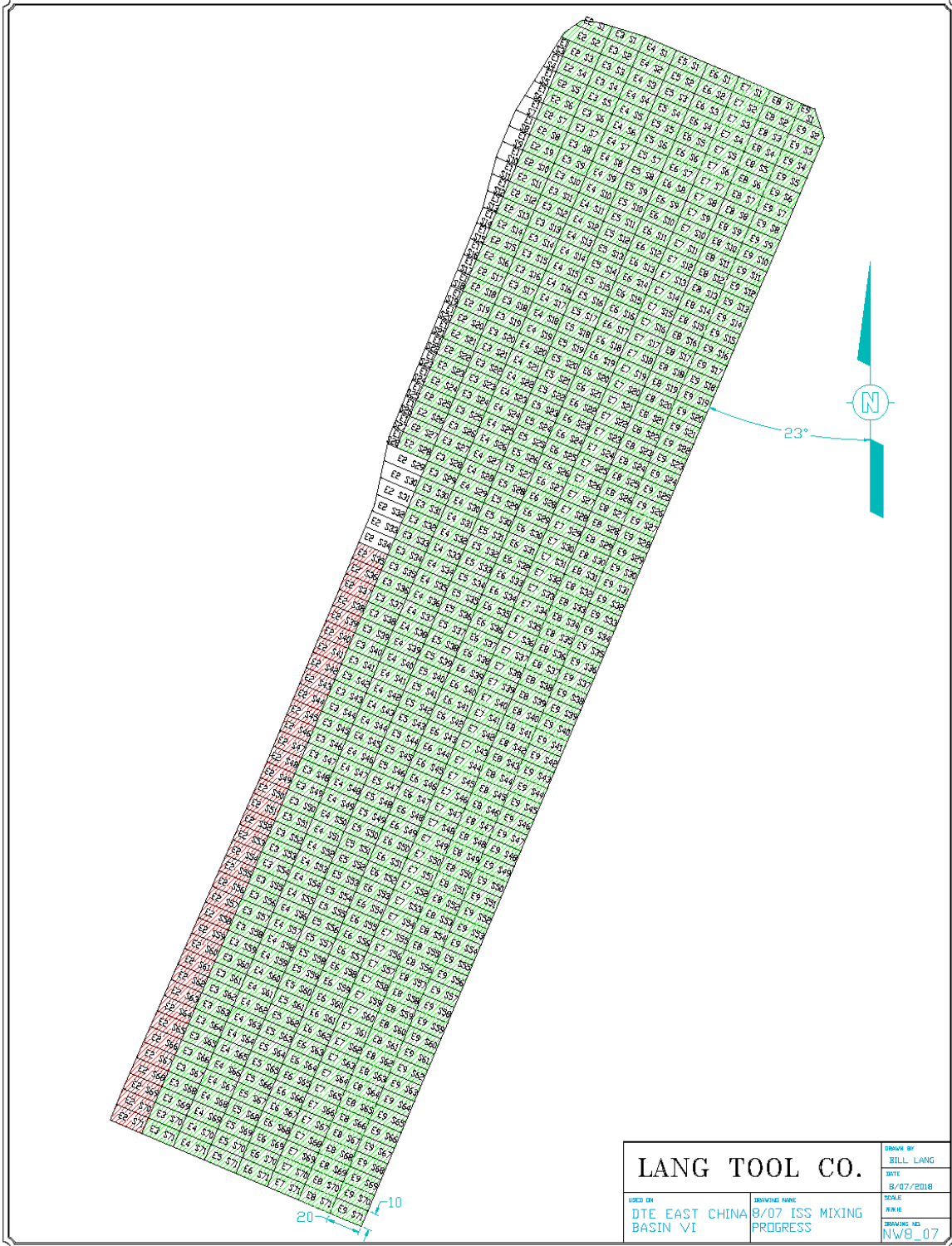
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August 7, 2018
Northwest



The chart below was downloaded from the LTC Slurry Plant onboard computer. It shows the cell designation and the quantity of Portland cement delivered into the cell. Cells with a B designation are where solid soil was encountered deeper than 583.5. Additional PC was added to the cell to maintain the correct PC/sludge ratio.

Date	Time	Cell	lb
8/7/2018	8:05:59 AM	E2S71	5,150
8/7/2018	8:17:13 AM	E2S70	5,150
8/7/2018	8:27:32 AM	E2S69	5,020
8/7/2018	8:37:03 AM	E2S68	4,780
8/7/2018	8:47:32 AM	E2S67	4,620
8/7/2018	9:05:18 AM	E2S66	4,690
8/7/2018	9:17:21 AM	E2S65	4,890
8/7/2018	9:27:38 AM	E2S64	4,820
8/7/2018	9:38:01 AM	E2S63	4,480
8/7/2018	9:47:43 AM	E2S62	4,360
8/7/2018	10:02:24 AM	E2S61	4,550
8/7/2018	10:13:46 AM	E2S60	4,560
8/7/2018	10:23:20 AM	E2S59	4,240
8/7/2018	10:32:26 AM	E2S58	4,470
8/7/2018	10:43:38 AM	E2S57	4,700
8/7/2018	10:57:56 AM	E2S56	4,950
8/7/2018	11:07:51 AM	E2S55	4,760
8/7/2018	11:19:09 AM	E2S54	4,510
8/7/2018	11:31:16 AM	E2S53	4,760
8/7/2018	11:49:48 AM	E2S52	4,780
8/7/2018	12:02:47 PM	E2S51	4,700
8/7/2018	12:13:16 PM	E2S50	4,610
8/7/2018	12:23:48 PM	E2S49	4,690
8/7/2018	12:33:29 PM	E2S48	4,670
8/7/2018	12:43:43 PM	E2S47	4,720
8/7/2018	12:56:59 PM	E2S46	4,640
8/7/2018	1:07:16 PM	E2S45	4,800
8/7/2018	1:19:10 PM	E2S44	4,870
8/7/2018	1:31:03 PM	E2S43	4,900
8/7/2018	1:44:28 PM	E2S42	4,950
8/7/2018	1:58:05 PM	E2S41	4,630
8/7/2018	2:12:03 PM	E2S40	5,000
8/7/2018	2:25:07 PM	E2S39	4,900
8/7/2018	2:35:53 PM	E2S38	4,830
8/7/2018	2:46:11 PM	E2S37	4,740
8/7/2018	2:59:38 PM	E2S36	4,630
8/7/2018	3:10:10 PM	E2S35	4,510
		Total PC lbs	175,030

The chart below is a summary of the soil volume mixed and the quantity of Portland cement delivered to the site, on hand and used in the ISS operation. This information is taken from the Excel workbook created for this project and updated each work day.

PC Delivered to Site NW	3,346,750	On Hand End of Day		Soil Volume Mixed	
Total PC Cell Qt'ys Sheet	3,229,744	Truck	26,110	Total	46,413.15
Total from Plant Scale	3,236,350	Silo 1	1,630	NW Quad	25,474.08
PC Today Cell Qt'ys Sheet	174,701	Silo 2	55,170	NE Quad	20,939.07
Total NE Quad	3,020,020	Total	82,910		0.00
	0	Plant + On Hand	3,319,260		0.00
	0	Error lb	27,490	yd^3 today	1,699.42
Total PC Tons	3,124.88	Error %	0.82%		

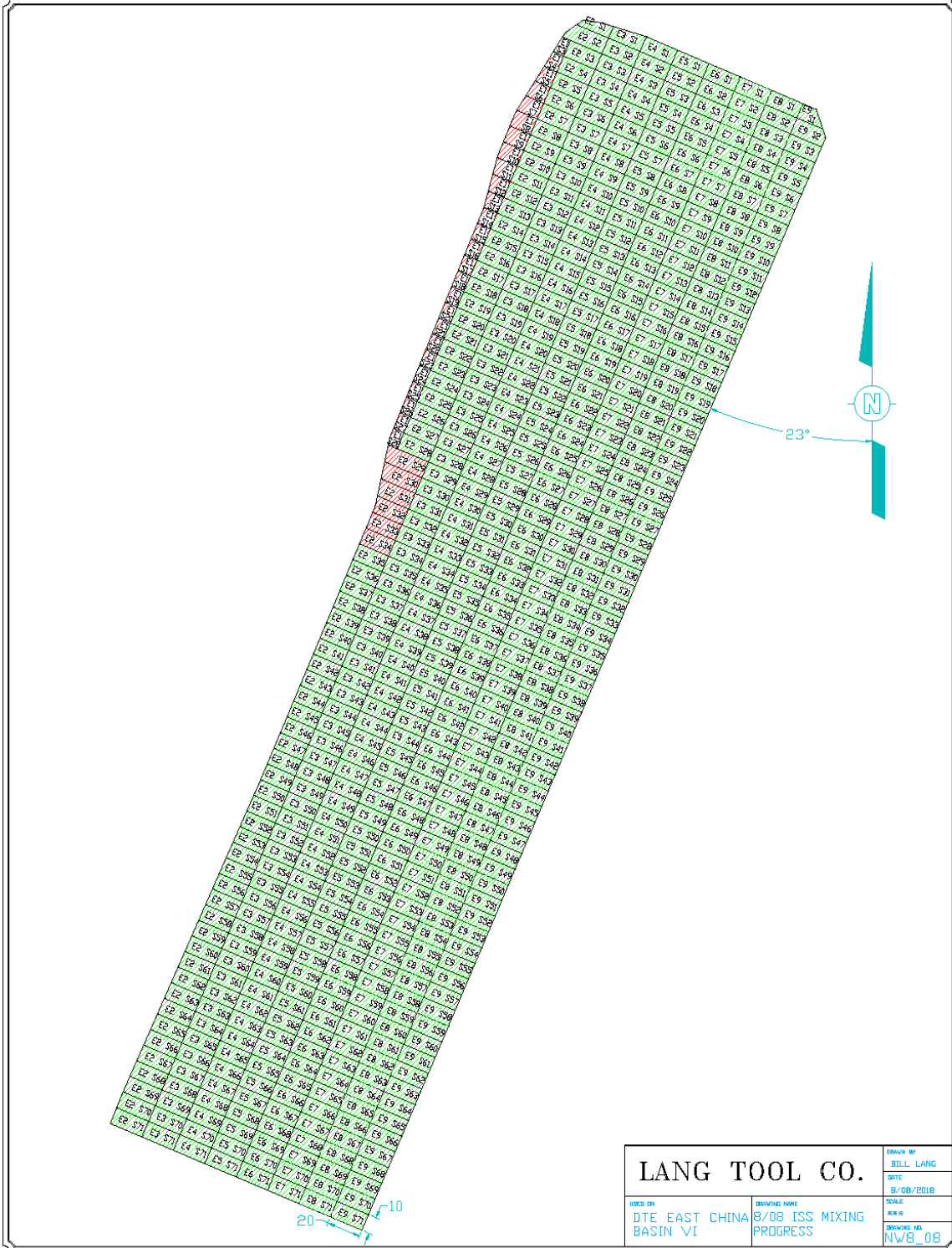
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August 8, 2018
Northwest



LANG TOOL CO.		DRAWN BY	BILL LANG
		DATE	8/08/2018
USED ON	DTE EAST CHINA BASIN VI	DRAWING NO.	NWB_09
DRAWING NAME	8/08 ISS MIXING PROGRESS	SCALE	1"=1'

The chart below was downloaded from the LTC Slurry Plant onboard computer. It shows the cell designation and the quantity of Portland cement delivered into the cell. Cells with a B designation are where solid soil was encountered deeper than 583.5. Additional PC was added to the cell to maintain the correct PC/sludge ratio.

Date	Time	Cell	lb
8/8/2018	6:39:20 AM	E2S34	4,970
8/8/2018	6:56:14 AM	E2S33	5,080
8/8/2018	7:05:33 AM	E2S32	4,630
8/8/2018	7:15:47 AM	E2S31	5,140
8/8/2018	7:26:31 AM	E2S30	5,600
8/8/2018	7:42:46 AM	E2S29	5,900
8/8/2018	8:01:32 AM	E1S28	1,150
8/8/2018	8:05:23 AM	E1S27	1,160
8/8/2018	8:09:15 AM	E1S26	1,170
8/8/2018	8:12:39 AM	E1S25	1,120
8/8/2018	8:16:31 AM	E1S24	1,190
8/8/2018	8:20:06 AM	E1S23	1,220
8/8/2018	8:24:20 AM	E1S22	1,080
8/8/2018	8:31:35 AM	E1S21	1,040
8/8/2018	8:35:02 AM	E1S20	1,040
8/8/2018	8:38:46 AM	E1S19	1,160
8/8/2018	8:42:38 AM	E1S18	1,280
8/8/2018	8:46:53 AM	E1S17	1,410
8/8/2018	8:54:48 AM	E1S16	1,700
8/8/2018	8:59:17 AM	E1S15	1,720
8/8/2018	9:04:48 AM	E1S14	1,820
8/8/2018	9:09:46 AM	E1S13	2,200
8/8/2018	9:16:17 AM	E1S12	2,710
8/8/2018	9:24:08 AM	E1S11	3,100
8/8/2018	9:42:36 AM	E1S10	3,080
8/8/2018	9:49:09 AM	E1S9	2,750
8/8/2018	9:56:07 AM	E1S8	2,920
8/8/2018	10:02:47 AM	E1S7	2,530
8/8/2018	10:12:43 AM	E1S6	1,990
8/8/2018	10:17:02 AM	E1S5	1,440
8/8/2018	10:30:40 AM	E1S4	1,010
8/8/2018	10:34:10 AM	E1S3	790
		Total PC lbs	75,100

The chart below is a summary of the soil volume mixed and the quantity of Portland cement delivered to the site, on hand and used in the ISS operation. This information is taken from the Excel workbook created for this project and updated each work day.

PC Delivered to Site NW	3,450,390	On Hand End of Day		Soil Volume Mixed	
Total PC Cell Qt'ys Sheet	3,304,540	Truck	17,130	Total	47,140.73
Total from Plant Scale	3,311,450	Silo 1	65,480	NW Quad	26,201.66
PC Today Cell Qt'ys Sheet	74,796	Silo 2	28,970	NE Quad	20,939.07
Total NE Quad	3,020,020	Total	111,580		0.00
	0	Plant + On Hand	3,423,030		0.00
	0	Error lb	27,360	yd^3 today	727.58
Total PC Tons	3,162.28	Error %	0.79%		

Lang Tool Co.

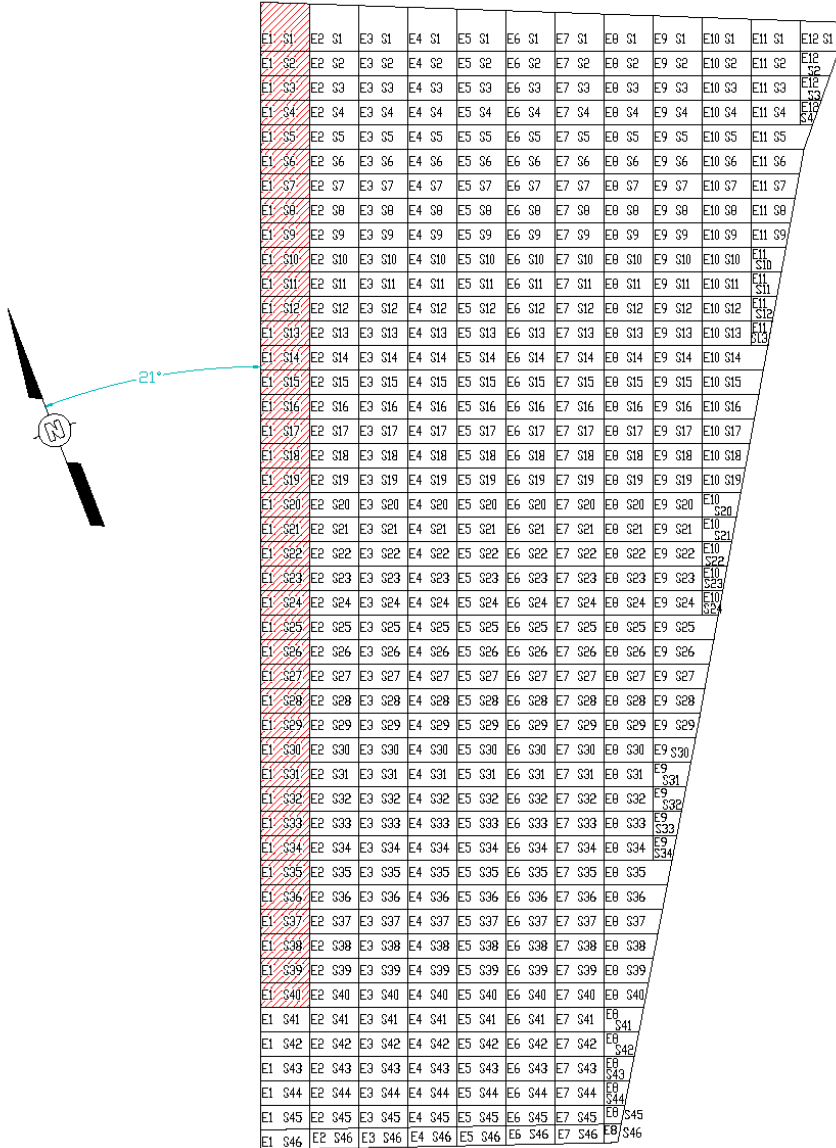
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August 8, 2018
South

CELLS MIXED TODAY ARE HATCHED IN RED
PREVIOUSLY MIX CELLS ARE HATCHED IN GREEN



LANG TOOL CO.		<small>DRAWN BY</small> BILL LANG <small>DATE</small> 8/08/2018 <small>SCALE</small> <small>WORK</small> <small>DRAWING NO.</small> 8/08
<small>USED ON</small> DTE EAST CHINA BASIN VI	<small>DRAWING NAME</small> B/08 ISS MIXING PROGRESS	

The chart below was downloaded from the LTC Slurry Plant onboard computer. It shows the cell designation and the quantity of Portland cement delivered into the cell. Cells with a B designation are where solid soil was encountered deeper than 583.5. Additional PC was added to the cell to maintain the correct PC/sludge ratio.

Date	Time	Cell	lb
8/8/2018	11:15:15 AM	AE1S1	4,620
8/8/2018	11:20:33 AM	AE1S2	1,260
8/8/2018	11:25:30 AM	AE1S3	1,420
8/8/2018	11:32:39 AM	AE1S4	1,570
8/8/2018	11:43:29 AM	AE1S5	1,260
8/8/2018	11:47:48 AM	AE1S6	1,230
8/8/2018	11:52:10 AM	AE1S7	960
8/8/2018	11:57:12 AM	AE1S8	1,570
8/8/2018	12:02:28 PM	AE1S9	1,770
8/8/2018	12:07:30 PM	AE1S10	1,700
8/8/2018	12:15:54 PM	AE1S11	1,750
8/8/2018	12:20:27 PM	AE1S12	1,190
8/8/2018	12:25:46 PM	AE1S13	1,680
8/8/2018	12:30:49 PM	AE1S14	1,560
8/8/2018	12:37:00 PM	AE1S15	2,360
8/8/2018	12:45:45 PM	AE1S16	2,430
8/8/2018	12:51:51 PM	AE1S17	2,020
8/8/2018	12:57:16 PM	AE1S18	1,770
8/8/2018	1:02:55 PM	AE1S19	1,860
8/8/2018	1:10:25 PM	AE1S20	2,000
8/8/2018	1:14:44 PM	AE1S21	1,420
8/8/2018	1:20:09 PM	AE1S22	1,730
8/8/2018	1:25:18 PM	AE1S23	1,090
8/8/2018	1:34:54 PM	AE1S24	1,250
8/8/2018	1:39:18 PM	AE1S25	1,390
8/8/2018	1:44:08 PM	AE1S26	1,580
8/8/2018	1:49:27 PM	AE1S27	1,640
8/8/2018	1:58:18 PM	AE1S28	1,580
8/8/2018	2:02:49 PM	AE1S29	1,330
8/8/2018	2:09:29 PM	AE1S30	1,120
8/8/2018	2:14:06 PM	AE1S31	1,530
8/8/2018	2:18:44 PM	AE1S32	1,380
8/8/2018	2:23:40 PM	AE1S33	1,420
8/8/2018	2:28:57 PM	AE1S34	1,300
8/8/2018	2:33:01 PM	AE1S35	1,290
8/8/2018	2:41:23 PM	AE1S36	1,220
8/8/2018	2:48:50 PM	AE1S37	1,830
8/8/2018	2:55:56 PM	AE1S38	1,630
8/8/2018	3:01:08 PM	AE1S39	2,050
8/8/2018	3:06:02 PM	AE1S40	2,090
		Total PC lbs	65,850

The chart below is a summary of the soil volume mixed and the quantity of Portland cement delivered to the site, on hand and used in the ISS operation. This information is taken from the Excel workbook created for this project and updated each work day.

PC Delivered to Site SE&SW	213,720	On Hand End of Day		Soil Volume Mixed	
Total PC Cell Qt'ys Sheet	65,510	Truck	18,900	Total	47,650.53
Total from Plant Scale	65,850	Silo 1	65,530	SE&SW Quad	509.80
PC Today Cell Qt'ys Sheet	65,510	Silo 2	63,910	NE Quad	20,939.07
Total NE Quad	3,020,020	Total	148,340	NW Quad	26,201.66
Total NW Quad	3,450,390	Plant + On Hand	214,190		0.00
	0	Error lb	-470	yd^3 today	509.80
Total PC Tons	3,267.96	Error %	-0.22%		

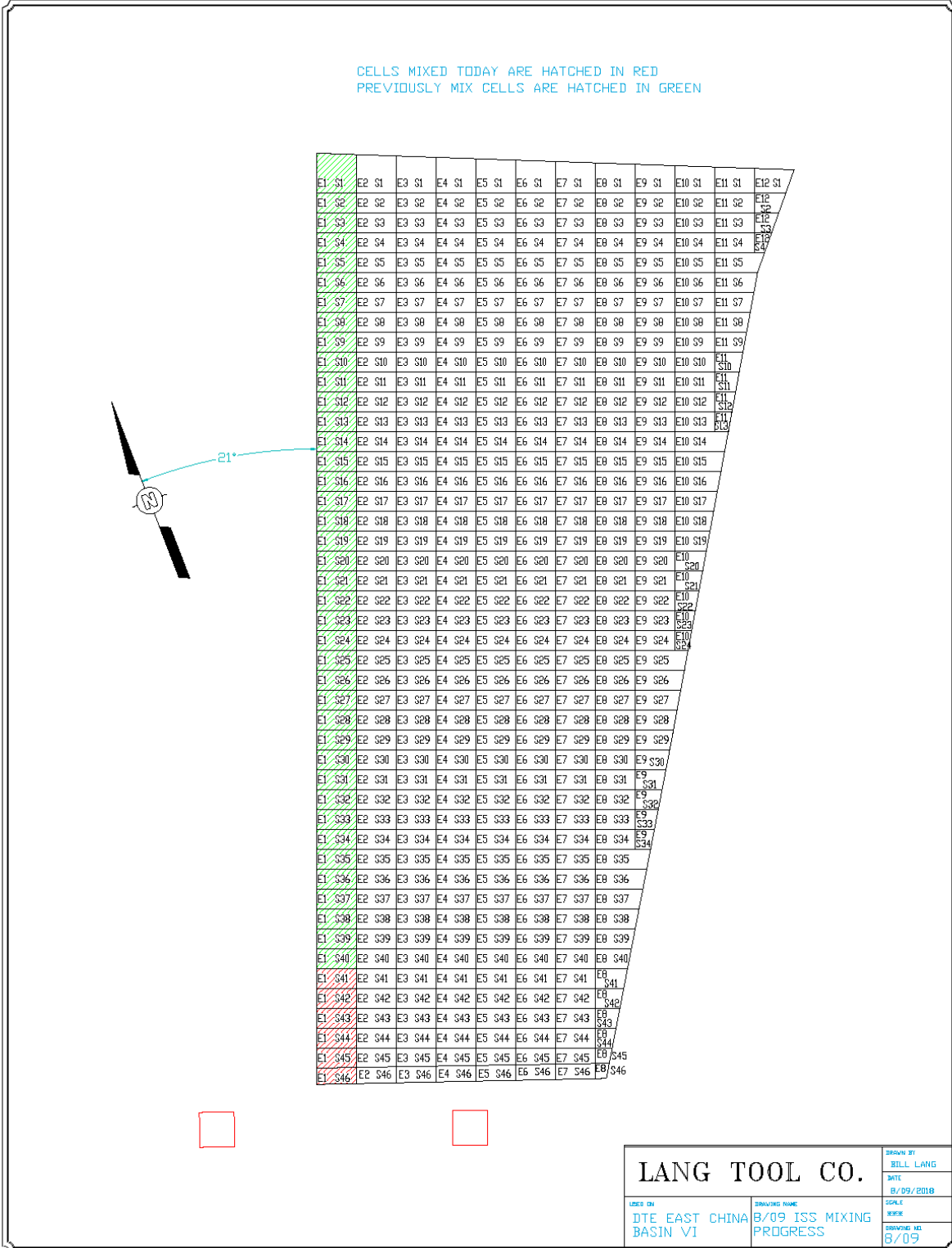
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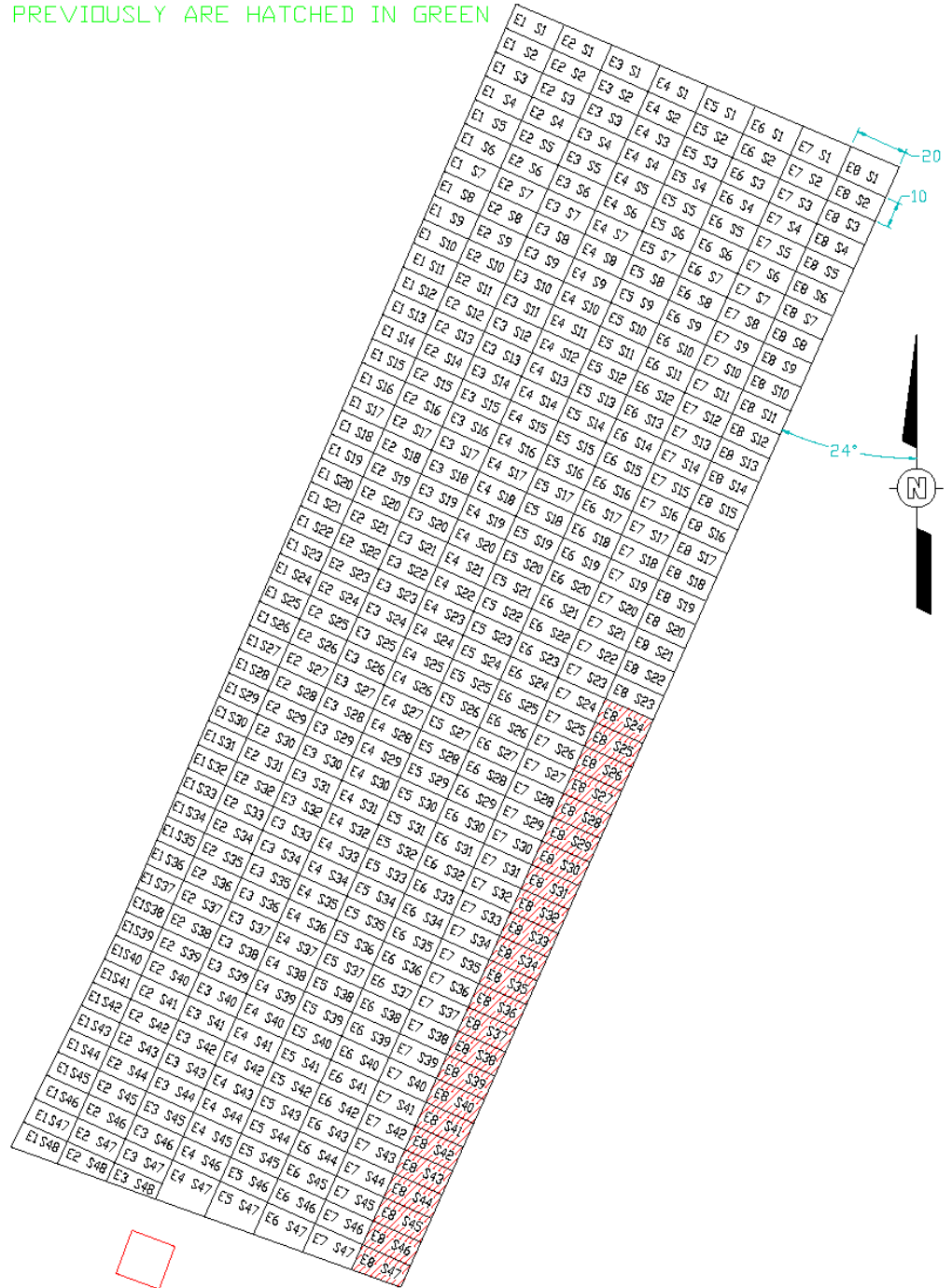
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August 9, 2018
South



CELLS MIXED TO DAY ARE HATCHED IN RED
 CELLS MIXED PREVIOUSLY ARE HATCHED IN GREEN



LANG TOOL CO.		DRAWN BY BILL LANG DATE 8/09/2018
USED ON DTE EAST CHINA BASIN VI	DRAWING NAME 8/09 ISS MIXING PROGRESS	SCALE AS SHOWN DRAWING NO. SW-8/09

The chart below was downloaded from the LTC Slurry Plant onboard computer. It shows the cell designation and the quantity of Portland cement delivered into the cell. Cells that have an A in front are in the Southeast Quadrant, cells that have a B in front are for the Southwest Quadrant

Date	Time	Cell	lb
8/9/2018	6:28:41 AM	Filled Line	1,860
8/9/2018	6:34:30 AM	AE1S41	1,850
8/9/2018	6:44:35 AM	AE1S42	2,240
8/9/2018	6:50:09 AM	AE1S43	2,080
8/9/2018	6:55:04 AM	AE1S44	1,740
8/9/2018	7:01:24 AM	AE1S45	2,160
8/9/2018	7:12:57 AM	AE1S46	2,100
8/9/2018	7:28:30 AM	BE8S47	5,650
8/9/2018	7:45:05 AM	BE8S46	5,330
8/9/2018	8:00:32 AM	BE8S45	4,700
8/9/2018	8:12:33 AM	BE8S44	4,160
8/9/2018	8:29:12 AM	BE8S43	4,060
8/9/2018	8:41:16 AM	BE8S42	4,230
8/9/2018	9:20:59 AM	BE8S41	4,310
8/9/2018	9:53:18 AM	BE8S40	4,430
8/9/2018	10:26:19 AM	BE8S39	4,280
8/9/2018	10:43:52 AM	BE8S38	5,140
8/9/2018	10:55:57 AM	BE8S37	4,940
8/9/2018	11:09:50 AM	BE8S36	4,400
8/9/2018	11:25:10 AM	BE8S35	5,010
8/9/2018	11:43:33 AM	BE8S34	4,910
8/9/2018	12:14:16 PM	BE8S33	4,210
8/9/2018	12:57:18 PM	BE8S32	4,580
8/9/2018	1:09:50 PM	BE8S31	5,310
8/9/2018	1:25:28 PM	BE8S30	5,000
8/9/2018	1:37:58 PM	BE8S29	4,290
8/9/2018	1:51:23 PM	BE8S28	4,540
8/9/2018	2:03:51 PM	BE8S27	5,290
8/9/2018	2:16:46 PM	BE8S26	5,210
8/9/2018	2:34:32 PM	BE8S25	5,500
8/9/2018	2:48:33 PM	BE8S24	5,170
		Total PC lbs	128,680

The chart below is a summary of the soil volume mixed and the quantity of Portland cement delivered to the site, on hand and used in the ISS operation. This information is taken from the Excel workbook created for this project and updated each work day.

PC Delivered to Site SE&SW	310,680	On Hand End of Day		Soil Volume Mixed	
Total PC Cell Qt'ys Sheet	191,793	Truck	21,850	Total	47,744.79
Total from Plant Scale	194,530	Silo 1	65,530	SE&SW Quad	604.06
PC Today Cell Qt'ys Sheet	126,283	Silo 2	28,200	NE Quad	20,939.07
Total NE Quad	3,020,020	Total	115,580	NW Quad	26,201.66
Total NW Quad	3,450,390	Plant + On Hand	310,110		0.00
	0	Error lb	570	yd^3 today	982.75
Total PC Tons	3,331.10	Error %	0.18%		

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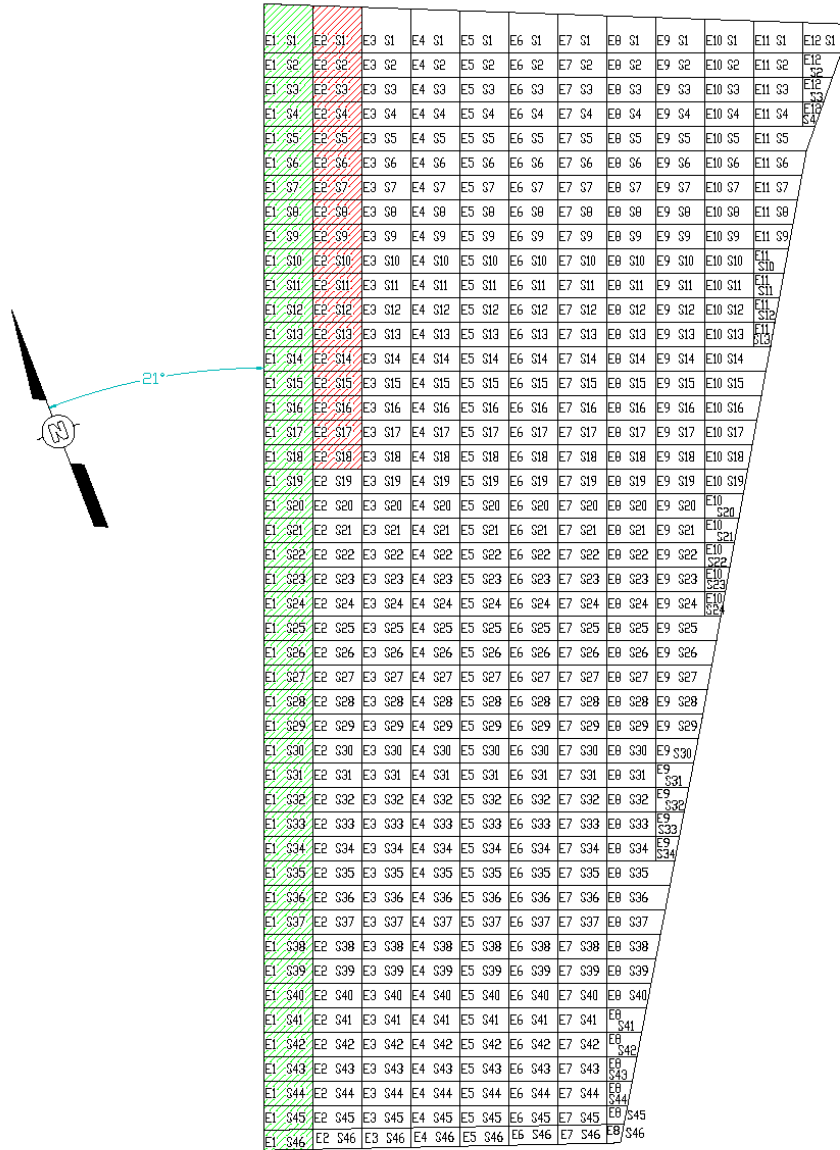
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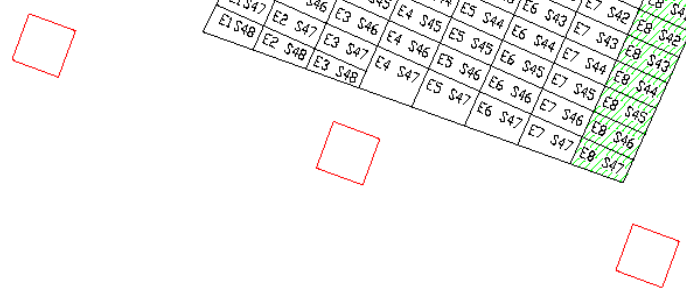
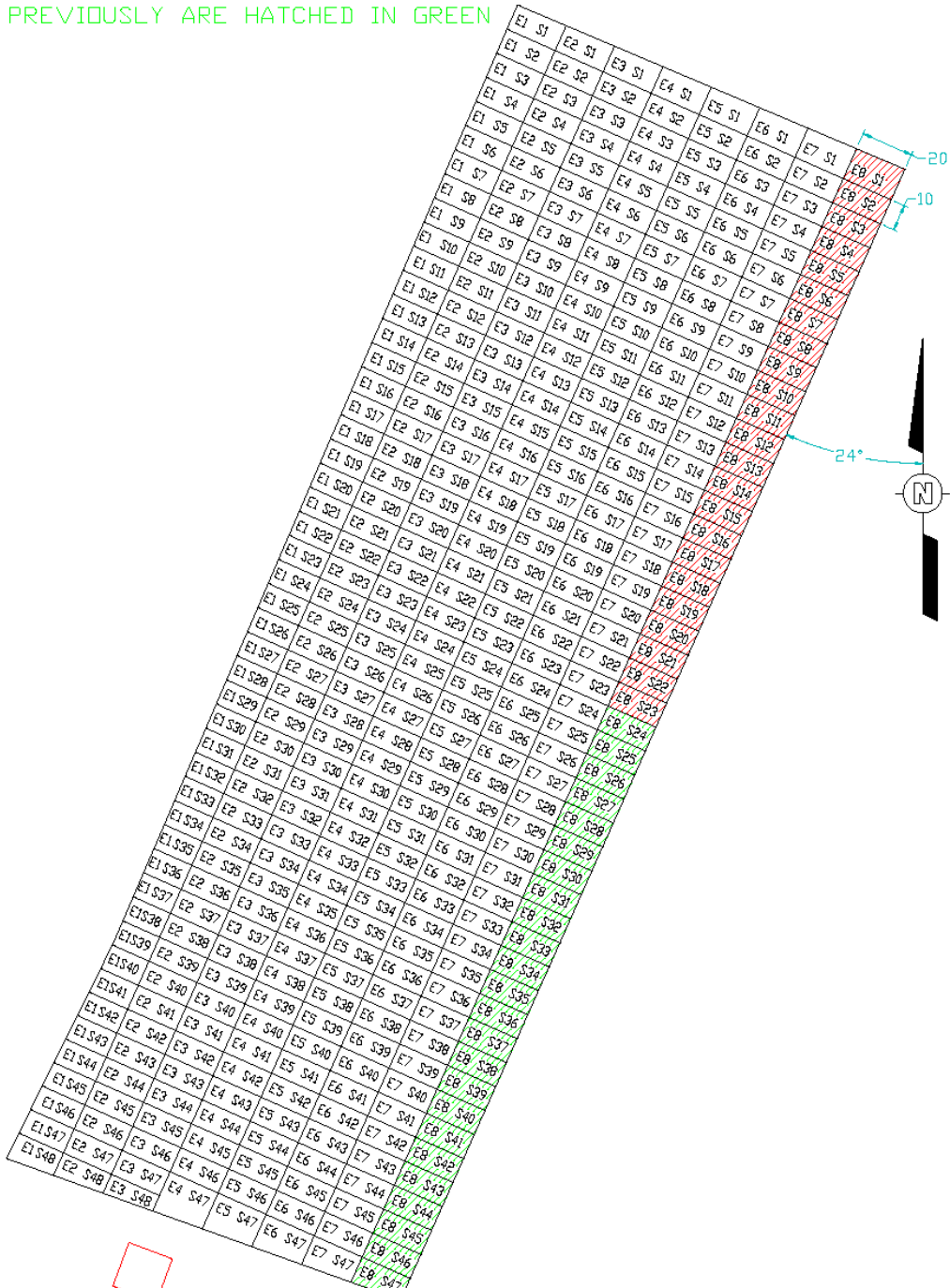
August 10, 2018
South

CELLS MIXED TODAY ARE HATCHED IN RED
PREVIOUSLY MIX CELLS ARE HATCHED IN GREEN



LANG TOOL CO.		
DESIGNED BY DTE EAST CHINA BASIN V1	DRAWING NAME B/10 ISS MIXING PROGRESS	DRAWN BY BILL LANG DATE 8/10/2018 SCALE NPK DRAWING NO B/10

CELLS MIXED TO DAY ARE HATCHED IN RED
 CELLS MIXED PREVIOUSLY ARE HATCHED IN GREEN



LANG TOOL CO.		DRAWN BY	BILL LANG
		DATE	8/10/2018
USED ON	DTE EAST CHINA BASIN VI	ISSUED FOR	B/10 ISS MIXING PROGRESS
		SCALE	1:1
		DRAWING NO.	SW-8/10

The chart below was downloaded from the LTC Slurry Plant onboard computer. It shows the cell designation and the quantity of Portland cement delivered into the cell. Cells that have an A in front are in the Southeast Quadrant, cells that have a B in front are for the Southwest Quadrant

Date	Time	Cell	lb
8/10/2018	6:35:05 AM	BE8S1	5,240
8/10/2018	6:45:14 AM	BE8S2	3,780
8/10/2018	6:55:27 AM	BE8S3	3,950
8/10/2018	7:05:39 AM	BE8S4	4,230
8/10/2018	7:18:06 AM	BE8S5	4,320
8/10/2018	7:28:50 AM	BE8S6	4,360
8/10/2018	7:39:36 AM	BE8S7	4,660
8/10/2018	7:50:05 AM	BE8S8	4,600
8/10/2018	8:00:42 AM	BE8S9	4,350
8/10/2018	8:11:28 AM	BE8S10	4,160
8/10/2018	8:22:45 AM	BE8S11	4,650
8/10/2018	8:37:51 AM	BE8S12	4,670
8/10/2018	8:52:56 AM	BE8S13	4,400
8/10/2018	9:05:56 AM	BE8S14	4,920
8/10/2018	9:21:49 AM	BE8S15	4,720
8/10/2018	9:42:43 AM	BE8S16	4,820
8/10/2018	10:16:44 AM	BE8S17	4,810
8/10/2018	10:36:46 AM	BE8S18	4,640
8/10/2018	10:50:38 AM	BE8S19	5,140
8/10/2018	12:02:33 PM	BE8S20	5,020
8/10/2018	12:16:07 PM	BE8S21	4,630
8/10/2018	12:28:41 PM	BE8S22	4,760
8/10/2018	12:41:17 PM	BE8S23	5,050
8/10/2018	1:01:37 PM	AE2S1	5,000
8/10/2018	1:13:20 PM	AE2S2	2,670
8/10/2018	1:20:07 PM	AE2S3	2,550
8/10/2018	1:26:54 PM	AE2S4	2,270
8/10/2018	1:33:10 PM	AE2S5	2,350
8/10/2018	1:39:58 PM	AE2S6	2,300
8/10/2018	1:46:55 PM	AE2S7	2,510
8/10/2018	1:54:03 PM	AE2S8	2,140
8/10/2018	2:03:56 PM	AE2S9	2,320
8/10/2018	2:10:08 PM	AE2S10	2,410
8/10/2018	2:17:36 PM	AE2S11	2,370
8/10/2018	2:24:16 PM	AE2S12	2,380
8/10/2018	2:31:15 PM	AE2S13	2,450
8/10/2018	2:38:45 PM	AE2S14	2,440
8/10/2018	2:45:01 PM	AE2S15	2,330
8/10/2018	2:52:45 PM	AE2S16	2,400
8/10/2018	2:58:45 PM	AE2S17	2,300
8/10/2018	3:04:50 PM	AE2S18	2,310
		Total PC lbs	151,380

The chart below is a summary of the soil volume mixed and the quantity of Portland cement delivered to the site, on hand and used in the ISS operation. This information is taken from the Excel workbook created for this project and updated each work day.

PC Delivered to Site SE&SW	456,680	On Hand End of Day		Soil Volume Mixed	
Total PC Cell Qt'ys Sheet	342,873	Truck	20,640	Total	49,809.00
Total from Plant Scale	345,910	Silo 1	62,720	SE&SW Quad	2,668.27
PC Today Cell Qt'ys Sheet	151,080	Silo 2	23,720	NE Quad	20,939.07
Total NE Quad	3,020,020	Total	107,080	NW Quad	26,201.66
Total NW Quad	3,450,390	Plant + On Hand	452,990		0.00
	0	Error lb	3,690	yd^3 today	1,175.71
Total PC Tons	3,406.64	Error %	0.81%		

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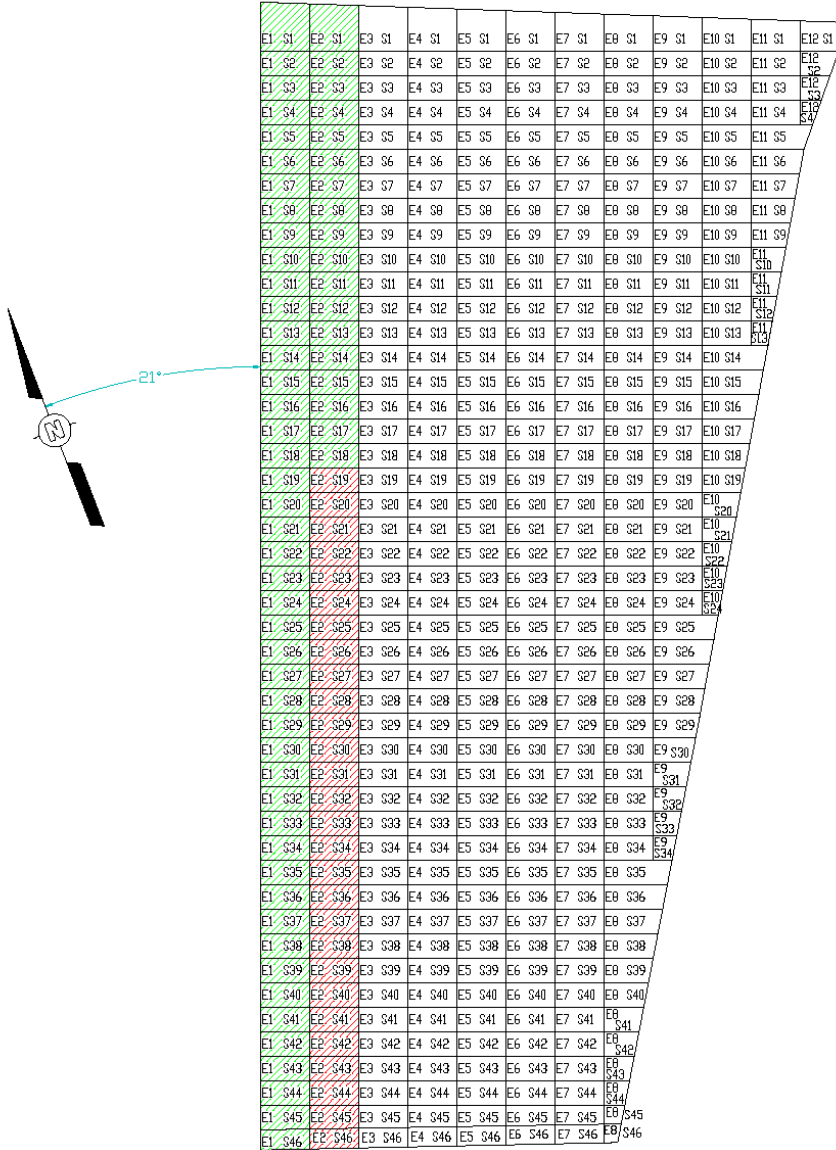
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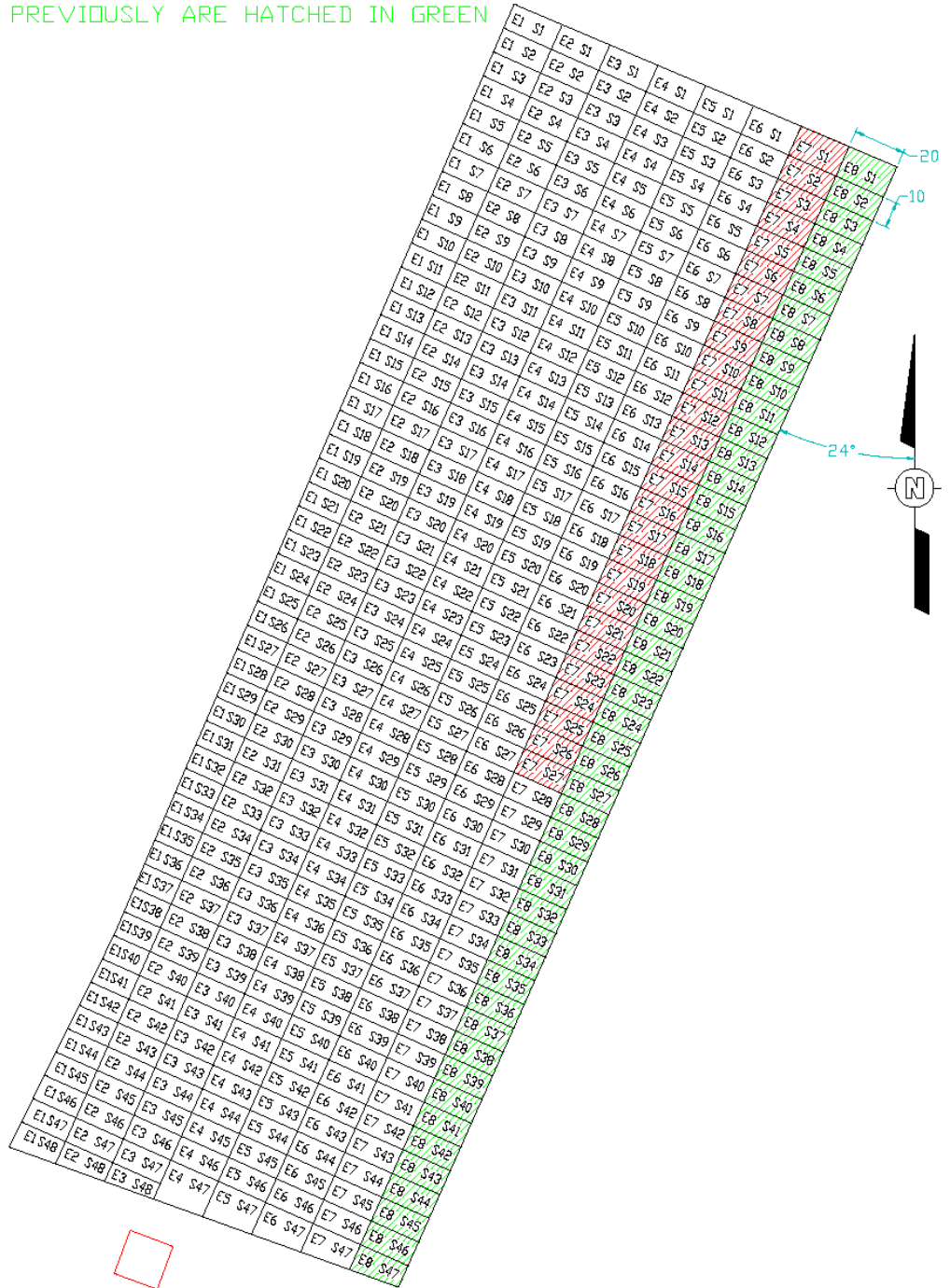
August 13, 2018
South

CELLS MIXED TODAY ARE HATCHED IN RED
PREVIOUSLY MIX CELLS ARE HATCHED IN GREEN



LANG TOOL CO.		DRAWN BY BILL LANG DATE 8/13/2018 SCALE 1"=10' DRAWING NO. B/13
USED ON DTE EAST CHINA BASIN VI	DRAWING NAME B/13 ISS MIXING PROGRESS	

CELLS MIXED TO DAY ARE HATCHED IN RED
 CELLS MIXED PREVIOUSLY ARE HATCHED IN GREEN



LANG TOOL CO.		DRAWN BY	BILL LANG
		DATE	8/13/2018
BASED ON	DTE EAST CHINA BASIN VI	DRAWING NAME	8/13 ISS MIXING PROGRESS
		SCALE	
		DRAWING NO.	SW-8/13

The chart below was downloaded from the LTC Slurry Plant onboard computer. It shows the cell designation and the quantity of Portland cement delivered into the cell. Cells that have an A in front are in the Southeast Quadrant, cells that have a B in front are for the Southwest Quadrant

Date	Time	Cell	lb	Time	Cell	lb
8/13/2018	6:48:52 AM	AE2S19	2,580	10:10:20 AM	AE2S46	2,180
8/13/2018	6:56:59 AM	AE2S20	2,630	10:37:41 AM	BE7S1	5,190
8/13/2018	7:03:58 AM	AE2S21	2,670	10:48:11 AM	BE7S2	4,070
8/13/2018	7:11:32 AM	AE2S22	2,870	11:00:00 AM	BE7S3	5,140
8/13/2018	7:18:10 AM	AE2S23	2,570	11:11:07 AM	BE7S4	4,010
8/13/2018	7:25:26 AM	AE2S24	2,240	11:18:16 AM	BE7S5	2,740
8/13/2018	7:31:32 AM	AE2S25	2,130	11:30:33 AM	BE7S6	2,840
8/13/2018	7:39:38 AM	AE2S26	2,100	11:38:42 AM	BE7S7	2,570
8/13/2018	7:47:13 AM	AE2S27	2,220	11:47:10 AM	BE7S8	3,320
8/13/2018	7:56:32 AM	AE2S28	2,140	11:58:08 AM	BE7S9	3,030
8/13/2018	8:03:00 AM	AE2S29	2,180	12:06:51 PM	BE7S10	3,240
8/13/2018	8:09:54 AM	AE2S30	2,100	12:16:05 PM	BE7S11	3,440
8/13/2018	8:18:28 AM	AE2S31	2,050	12:24:48 PM	BE7S12	3,510
8/13/2018	8:25:33 AM	AE2S32	2,580	12:33:44 PM	BE7S13	3,270
8/13/2018	8:31:50 AM	AE2S33	2,260	12:44:17 PM	BE7S14	3,160
8/13/2018	8:38:23 AM	AE2S34	2,800	12:53:31 PM	BE7S15	3,130
8/13/2018	8:47:10 AM	AE2S35	2,130	1:01:39 PM	BE7S16	3,050
8/13/2018	8:54:12 AM	AE2S36	2,340	1:09:46 PM	BE7S17	2,970
8/13/2018	9:01:30 AM	AE2S37	2,450	1:20:02 PM	BE7S18	2,960
8/13/2018	9:08:11 AM	AE2S38	2,610	1:32:59 PM	BE7S19	2,940
8/13/2018	9:18:09 AM	AE2S39	2,720	1:40:41 PM	BE7S20	2,780
8/13/2018	9:30:01 AM	AE2S40	2,490	1:48:00 PM	BE7S21	2,720
8/13/2018	9:36:09 AM	AE2S41	2,470	1:55:27 PM	BE7S22	2,850
8/13/2018	9:43:46 AM	AE2S42	2,590	2:03:10 PM	BE7S23	2,760
8/13/2018	9:51:37 AM	AE2S43	2,550	2:13:07 PM	BE7S24	2,500
8/13/2018	9:58:33 AM	AE2S44	2,400	2:21:24 PM	BE7S25	2,740
8/13/2018	10:05:02 AM	AE2S45	2,190	2:29:45 PM	BE7S26	2,760
			65,060	2:39:26 PM	BE7S27	2,230
						88,100
				Total PC lbs		153,160

The chart below is a summary of the soil volume mixed and the quantity of Portland cement delivered to the site, on hand and used in the ISS operation. This information is taken from the Excel workbook created for this project and updated each work day.

PC Delivered to Site SE&SW	599,960	On Hand End of Day		Soil Volume Mixed	
Total PC Cell Qt'ys Sheet	495,508	Truck	20,410	Total	50,996.82
Total from Plant Scale	502,070	Silo 1	13,890	SE&SW Quad	3,856.09
PC Today Cell Qt'ys Sheet	152,635	Silo 2	63,030	NE Quad	20,939.07
Total NE Quad	3,020,020	Total	97,330	NW Quad	26,201.66
Total NW Quad	3,450,390	Plant + On Hand	599,400		0.00
	0	Error lb	560	yd^3 today	1,187.82
Total PC Tons	3,482.96	Error %	0.09%		

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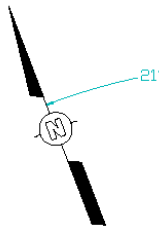
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August 14, 2018
South

CELLS MIXED TODAY ARE HATCHED IN RED
PREVIOUSLY MIX CELLS ARE HATCHED IN GREEN

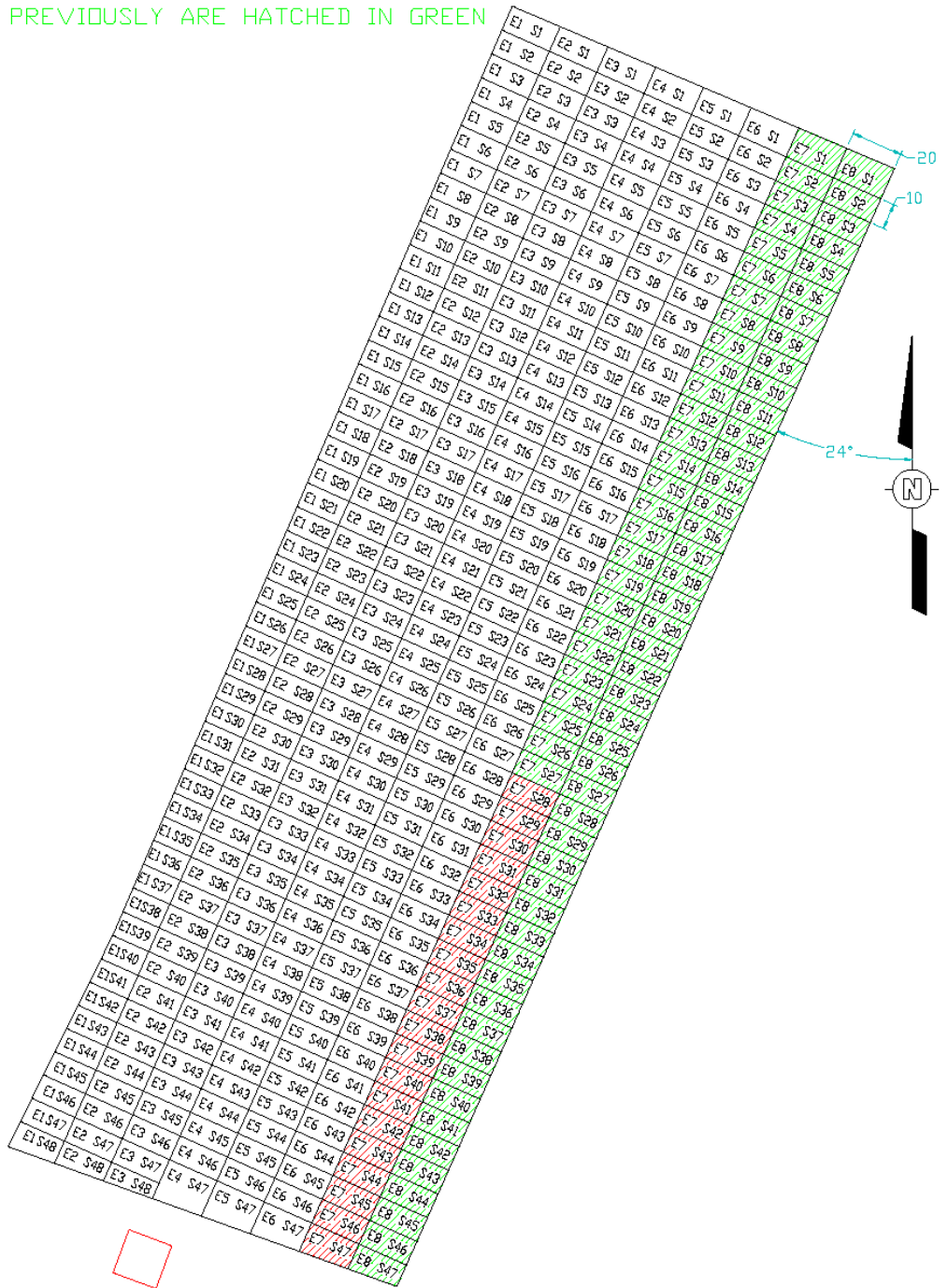


E1 S1	E2 S1	E3 S1	E4 S1	E5 S1	E6 S1	E7 S1	E8 S1	E9 S1	E10 S1	E11 S1	E12 S1
E1 S2	E2 S2	E3 S2	E4 S2	E5 S2	E6 S2	E7 S2	E8 S2	E9 S2	E10 S2	E11 S2	E12 S2
E1 S3	E2 S3	E3 S3	E4 S3	E5 S3	E6 S3	E7 S3	E8 S3	E9 S3	E10 S3	E11 S3	E12 S3
E1 S4	E2 S4	E3 S4	E4 S4	E5 S4	E6 S4	E7 S4	E8 S4	E9 S4	E10 S4	E11 S4	E12 S4
E1 S5	E2 S5	E3 S5	E4 S5	E5 S5	E6 S5	E7 S5	E8 S5	E9 S5	E10 S5	E11 S5	E12 S5
E1 S6	E2 S6	E3 S6	E4 S6	E5 S6	E6 S6	E7 S6	E8 S6	E9 S6	E10 S6	E11 S6	E12 S6
E1 S7	E2 S7	E3 S7	E4 S7	E5 S7	E6 S7	E7 S7	E8 S7	E9 S7	E10 S7	E11 S7	E12 S7
E1 S8	E2 S8	E3 S8	E4 S8	E5 S8	E6 S8	E7 S8	E8 S8	E9 S8	E10 S8	E11 S8	E12 S8
E1 S9	E2 S9	E3 S9	E4 S9	E5 S9	E6 S9	E7 S9	E8 S9	E9 S9	E10 S9	E11 S9	E12 S9
E1 S10	E2 S10	E3 S10	E4 S10	E5 S10	E6 S10	E7 S10	E8 S10	E9 S10	E10 S10	E11 S10	E12 S10
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E1 S12	E2 S12	E3 S12	E4 S12	E5 S12	E6 S12	E7 S12	E8 S12	E9 S12	E10 S12	E11 S12	E12 S12
E1 S13	E2 S13	E3 S13	E4 S13	E5 S13	E6 S13	E7 S13	E8 S13	E9 S13	E10 S13	E11 S13	E12 S13
E1 S14	E2 S14	E3 S14	E4 S14	E5 S14	E6 S14	E7 S14	E8 S14	E9 S14	E10 S14	E11 S14	E12 S14
E1 S15	E2 S15	E3 S15	E4 S15	E5 S15	E6 S15	E7 S15	E8 S15	E9 S15	E10 S15	E11 S15	E12 S15
E1 S16	E2 S16	E3 S16	E4 S16	E5 S16	E6 S16	E7 S16	E8 S16	E9 S16	E10 S16	E11 S16	E12 S16
E1 S17	E2 S17	E3 S17	E4 S17	E5 S17	E6 S17	E7 S17	E8 S17	E9 S17	E10 S17	E11 S17	E12 S17
E1 S18	E2 S18	E3 S18	E4 S18	E5 S18	E6 S18	E7 S18	E8 S18	E9 S18	E10 S18	E11 S18	E12 S18
E1 S19	E2 S19	E3 S19	E4 S19	E5 S19	E6 S19	E7 S19	E8 S19	E9 S19	E10 S19	E11 S19	E12 S19
E1 S20	E2 S20	E3 S20	E4 S20	E5 S20	E6 S20	E7 S20	E8 S20	E9 S20	E10 S20	E11 S20	E12 S20
E1 S21	E2 S21	E3 S21	E4 S21	E5 S21	E6 S21	E7 S21	E8 S21	E9 S21	E10 S21	E11 S21	E12 S21
E1 S22	E2 S22	E3 S22	E4 S22	E5 S22	E6 S22	E7 S22	E8 S22	E9 S22	E10 S22	E11 S22	E12 S22
E1 S23	E2 S23	E3 S23	E4 S23	E5 S23	E6 S23	E7 S23	E8 S23	E9 S23	E10 S23	E11 S23	E12 S23
E1 S24	E2 S24	E3 S24	E4 S24	E5 S24	E6 S24	E7 S24	E8 S24	E9 S24	E10 S24	E11 S24	E12 S24
E1 S25	E2 S25	E3 S25	E4 S25	E5 S25	E6 S25	E7 S25	E8 S25	E9 S25	E10 S25	E11 S25	E12 S25
E1 S26	E2 S26	E3 S26	E4 S26	E5 S26	E6 S26	E7 S26	E8 S26	E9 S26	E10 S26	E11 S26	E12 S26
E1 S27	E2 S27	E3 S27	E4 S27	E5 S27	E6 S27	E7 S27	E8 S27	E9 S27	E10 S27	E11 S27	E12 S27
E1 S28	E2 S28	E3 S28	E4 S28	E5 S28	E6 S28	E7 S28	E8 S28	E9 S28	E10 S28	E11 S28	E12 S28
E1 S29	E2 S29	E3 S29	E4 S29	E5 S29	E6 S29	E7 S29	E8 S29	E9 S29	E10 S29	E11 S29	E12 S29
E1 S30	E2 S30	E3 S30	E4 S30	E5 S30	E6 S30	E7 S30	E8 S30	E9 S30	E10 S30	E11 S30	E12 S30
E1 S31	E2 S31	E3 S31	E4 S31	E5 S31	E6 S31	E7 S31	E8 S31	E9 S31	E10 S31	E11 S31	E12 S31
E1 S32	E2 S32	E3 S32	E4 S32	E5 S32	E6 S32	E7 S32	E8 S32	E9 S32	E10 S32	E11 S32	E12 S32
E1 S33	E2 S33	E3 S33	E4 S33	E5 S33	E6 S33	E7 S33	E8 S33	E9 S33	E10 S33	E11 S33	E12 S33
E1 S34	E2 S34	E3 S34	E4 S34	E5 S34	E6 S34	E7 S34	E8 S34	E9 S34	E10 S34	E11 S34	E12 S34
E1 S35	E2 S35	E3 S35	E4 S35	E5 S35	E6 S35	E7 S35	E8 S35	E9 S35	E10 S35	E11 S35	E12 S35
E1 S36	E2 S36	E3 S36	E4 S36	E5 S36	E6 S36	E7 S36	E8 S36	E9 S36	E10 S36	E11 S36	E12 S36
E1 S37	E2 S37	E3 S37	E4 S37	E5 S37	E6 S37	E7 S37	E8 S37	E9 S37	E10 S37	E11 S37	E12 S37
E1 S38	E2 S38	E3 S38	E4 S38	E5 S38	E6 S38	E7 S38	E8 S38	E9 S38	E10 S38	E11 S38	E12 S38
E1 S39	E2 S39	E3 S39	E4 S39	E5 S39	E6 S39	E7 S39	E8 S39	E9 S39	E10 S39	E11 S39	E12 S39
E1 S40	E2 S40	E3 S40	E4 S40	E5 S40	E6 S40	E7 S40	E8 S40	E9 S40	E10 S40	E11 S40	E12 S40
E1 S41	E2 S41	E3 S41	E4 S41	E5 S41	E6 S41	E7 S41	E8 S41	E9 S41	E10 S41	E11 S41	E12 S41
E1 S42	E2 S42	E3 S42	E4 S42	E5 S42	E6 S42	E7 S42	E8 S42	E9 S42	E10 S42	E11 S42	E12 S42
E1 S43	E2 S43	E3 S43	E4 S43	E5 S43	E6 S43	E7 S43	E8 S43	E9 S43	E10 S43	E11 S43	E12 S43
E1 S44	E2 S44	E3 S44	E4 S44	E5 S44	E6 S44	E7 S44	E8 S44	E9 S44	E10 S44	E11 S44	E12 S44
E1 S45	E2 S45	E3 S45	E4 S45	E5 S45	E6 S45	E7 S45	E8 S45	E9 S45	E10 S45	E11 S45	E12 S45
E1 S46	E2 S46	E3 S46	E4 S46	E5 S46	E6 S46	E7 S46	E8 S46	E9 S46	E10 S46	E11 S46	E12 S46



LANG TOOL CO.		
DESIGNED BY	BILL LANG	
DATE	8/14/2018	
SCALE	AS SHOWN	
DRAWING NO.	8/14	
USED IN	DTE EAST CHINA BASIN V1	DRAWING NAME
		8/14 ISS MIXING PROGRESS

CELLS MIXED TO DAY ARE HATCHED IN RED
 CELLS MIXED PREVIOUSLY ARE HATCHED IN GREEN



LANG TOOL CO.		DRAWN BY	BILL LANG
		DATE	8/14/2018
USED ON	DTE EAST CHINA BASIN VI	DRAWING NAME	8/14 ISS MIXING PROGRESS
		SCALE	WWW
		DRAWING NO.	SW-8/14

The chart below was downloaded from the LTC Slurry Plant onboard computer. It shows the cell designation and the quantity of Portland cement delivered into the cell. Cells that have an A in front are in the Southeast Quadrant, cells that have a B in front are for the Southwest Quadrant

Date	Time	Cell	lb	Time	Cell	lb
8/14/2018	6:24:14 AM	BE7S28	2,650	10:58:18 AM	AE3S8	2,810
8/14/2018	6:33:26 AM	BE7S29	2,860	11:05:07 AM	AE3S9	2,940
8/14/2018	6:39:53 AM	BE7S30	2,940	11:12:01 AM	AE3S10	2,860
8/14/2018	6:47:48 AM	BE7S31	3,500	11:18:33 AM	AE3S11	2,740
8/14/2018	6:59:46 AM	BE7S32	3,210	11:27:04 AM	AE3S12	3,150
8/14/2018	7:07:35 AM	BE7S33	3,260	11:35:50 AM	AE2S13	2,960
8/14/2018	7:16:23 AM	BE7S34	3,550	11:47:51 AM	AE3S14	2,980
8/14/2018	7:25:30 AM	BE7S35	4,200	11:55:00 AM	AE3S15	2,850
8/14/2018	7:34:59 AM	BE7S36	4,740	12:01:51 PM	AE3S16	3,060
8/14/2018	7:46:47 AM	BE7S37	4,220	12:08:18 PM	AE3S17	2,960
8/14/2018	7:55:24 AM	BE7S38	3,910	12:15:31 PM	AE3S18	3,050
8/14/2018	8:04:46 AM	BE7S39	4,340	12:25:17 PM	AE3S19	2,940
8/14/2018	8:13:55 AM	BE7S40	4,060	12:32:19 PM	AE3S20	3,090
8/14/2018	8:24:19 AM	BE7S41	4,550	12:41:50 PM	AE3S21	3,230
8/14/2018	8:38:38 AM	BE7S42	4,800	12:50:03 PM	AE3S22	3,310
8/14/2018	8:50:22 AM	BE7S43	4,580	12:57:23 PM	AE3S23	3,250
8/14/2018	9:00:48 AM	BE7S44	4,590	1:09:15 PM	AE3S24	3,470
8/14/2018	9:13:21 AM	BE7S45	6,250	1:16:56 PM	AE3S25	3,230
8/14/2018	9:27:42 AM	BE7S46	7,430	1:24:36 PM	AE3S26	3,350
8/14/2018	9:39:31 AM	BE7S47	6,070	1:32:00 PM	AE3S27	3,250
8/14/2018	10:08:31 AM	AE3S1	5,340	1:40:57 PM	AE3S28	3,620
8/14/2018	10:16:35 AM	AE3S2	3,350	1:51:05 PM	AE3S29	3,010
8/14/2018	10:24:40 AM	AE3S3	3,060	1:59:53 PM	AE3S30	3,140
8/14/2018	10:32:12 AM	AE3S4	2,920	2:08:29 PM	AE3S31	3,540
8/14/2018	10:38:43 AM	AE3S5	2,620	2:15:49 PM	AE3S32	2,940
8/14/2018	10:45:11 AM	AE3S6	2,630	2:23:08 PM	AE3S33	2,810
8/14/2018	10:51:37 AM	AE3S7	2,710	2:32:55 PM	AE3S34	2,970
			108,340			83,510
				Total PC lbs		191,850

The chart below is a summary of the soil volume mixed and the quantity of Portland cement delivered to the site, on hand and used in the ISS operation. This information is taken from the Excel workbook created for this project and updated each work day.

PC Delivered to Site SE&SW	798,140	On Hand End of Day		Soil Volume Mixed	
Total PC Cell Qt'ys Sheet	686,816	Truck	22,460	Total	52,485.60
Total from Plant Scale	693,920	Silo 1	13,810	SE&SW Quad	5,344.87
PC Today Cell Qt'ys Sheet	191,308	Silo 2	64,490	NE Quad	20,939.07
Total NE Quad	3,020,020	Total	100,760	NW Quad	26,201.66
Total NW Quad	3,450,390	Plant + On Hand	794,680		0.00
	0	Error lb	3,460	yd ³ today	1,488.78
Total PC Tons	3,578.61	Error %	0.43%		

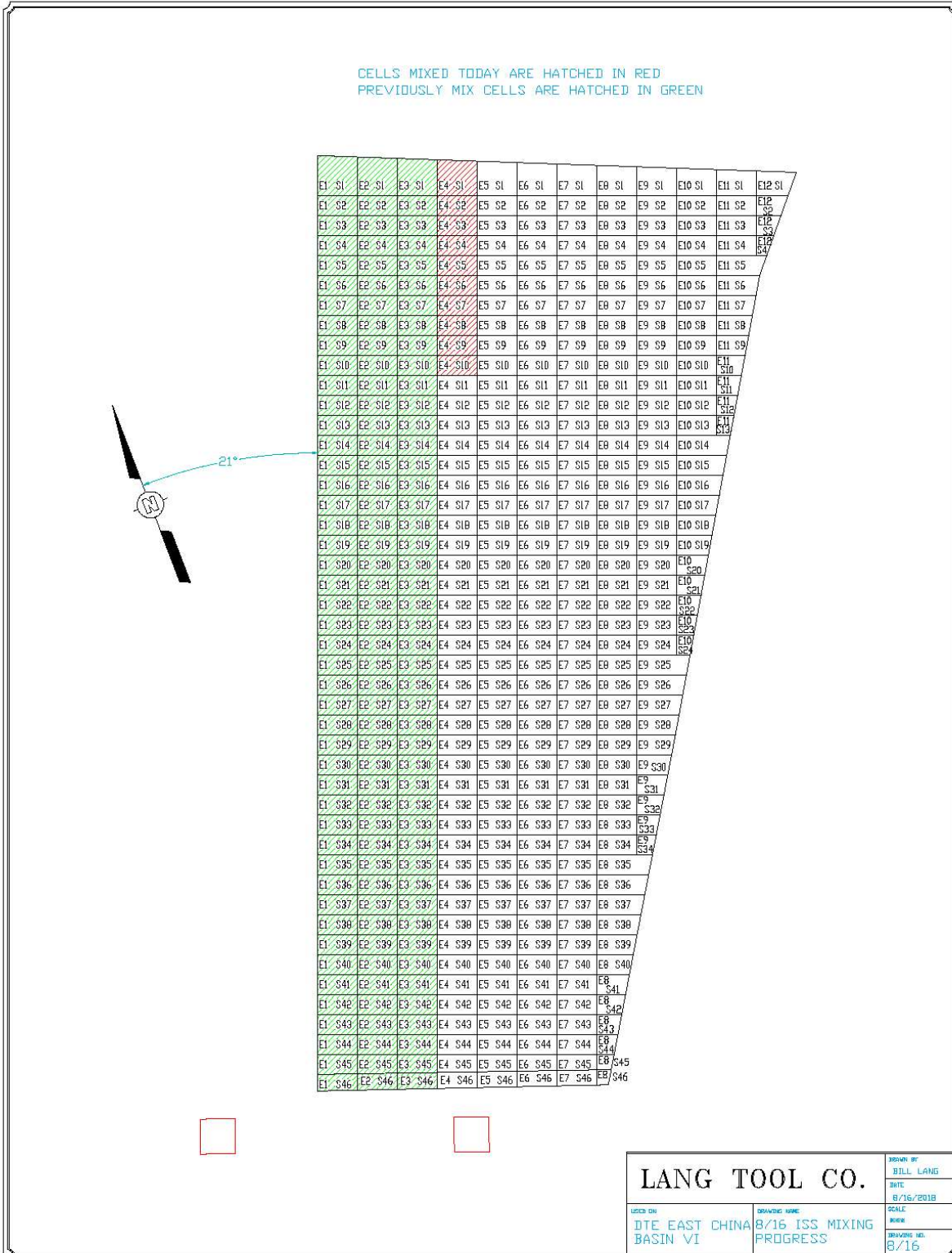
Lang Tool Co.

2520 Glidden Rd.
Beaverton, MI 48612

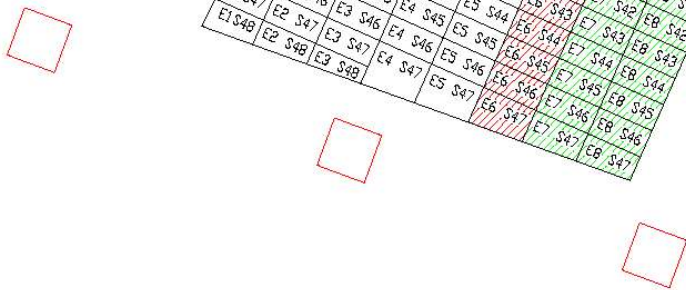
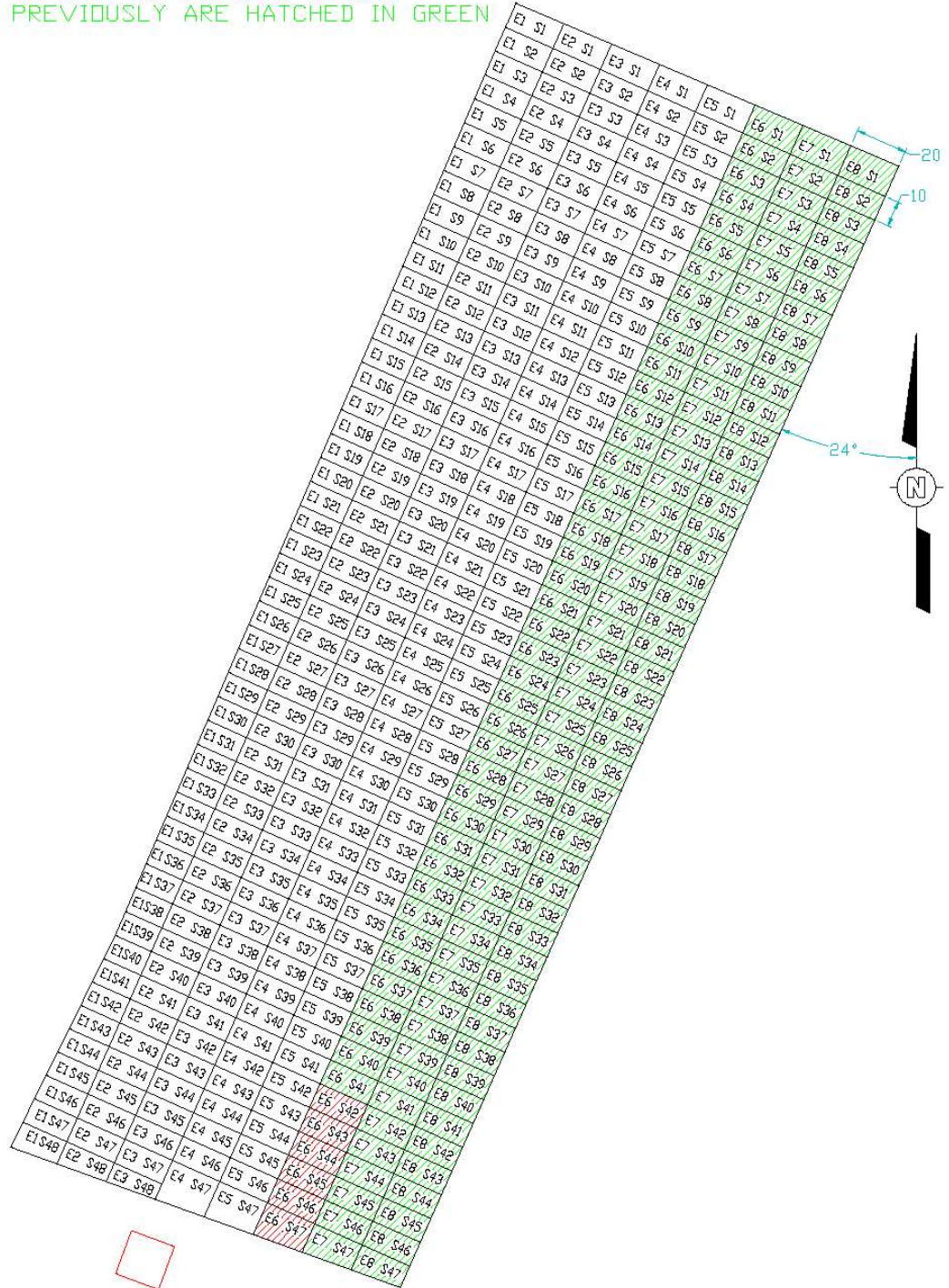
www.langtool.com
bill@langtool.com

Phone (989) 435-9864
Fax (989) 435-4311

August 16, 2018
South



CELLS MIXED TO DAY ARE HATCHED IN RED
 CELLS MIXED PREVIOUSLY ARE HATCHED IN GREEN



LANG TOOL CO.

DESIGNED BY BILL LANG	DRAWING NAME 8/16 ISS MIXING PROGRESS	DRAWING NO. SW-8/16
DATE 8/16/2018	SCALE AS SHOWN	
PROJECT NO. DTE EAST CHINA BASIN VI		

The chart below was downloaded from the LTC Slurry Plant onboard computer. It shows the cell designation and the quantity of Portland cement delivered into the cell. Cells that have an A in front are in the Southeast Quadrant, cells that have a B in front are for the Southwest Quadrant

Date	Time	SW Cells	lb	Time	SE Cells	lb
8/16/2018	6:37:14 AM	E6S42	3,490	8:05:07 AM	E4S1	7,110
8/16/2018	6:47:37 AM	E6S43	3,610	8:16:25 AM	E4S2	4,120
8/16/2018	6:56:48 AM	E6S44	3,730	8:24:53 AM	E4S3	3,620
8/16/2018	7:08:21 AM	E6S45	3,860	8:33:39 AM	E4S4	3,280
8/16/2018	7:19:30 AM	E6S46	5,100	8:45:40 AM	E4S5	3,140
8/16/2018	7:28:54 AM	E6S47	3,220	8:55:53 AM	E4S6	3,370
		SW Total	23,010	9:21:39 AM	E4S7	3,010
				9:33:19 AM	E4S8	2,850
				9:42:40 AM	E4S9	2,990
				10:05:57 AM	E4S10	3,080
					SE Total	36,570
					Day Total	59,580

The chart below is a summary of the soil volume mixed and the quantity of Portland cement delivered to the site, on hand and used in the ISS operation. This information is taken from the Excel workbook created for this project and updated each work day.

PC Delivered to Site SE&SW	1,094,480	On Hand End of Day		Soil Volume Mixed	
Total PC Cell Qt'ys Sheet	940,086	Truck	16,680	Total	54,456.58
Total from Plant Scale	947,020	Silo 1	61,470	SE&SW Quad	7,315.85
PC Today Cell Qt'ys Sheet	59,101	Silo 2	60,940	NE Quad	20,939.07
Total NE Quad	3,020,020	Total	139,090	NW Quad	26,201.66
Total NW Quad	3,305,390	Plant + On Hand	1,086,110		0.00
	0	Error lb	8,370	yd^3 today	459.95
Total PC Tons	3,709.95	Error %	0.76%		

Lang Tool Co.

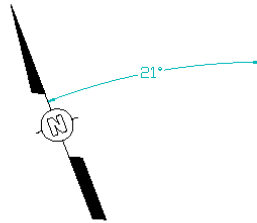
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August 23, 2018
South

CELLS MIXED TODAY ARE HATCHED IN RED
PREVIOUSLY MIX CELLS ARE HATCHED IN GREEN

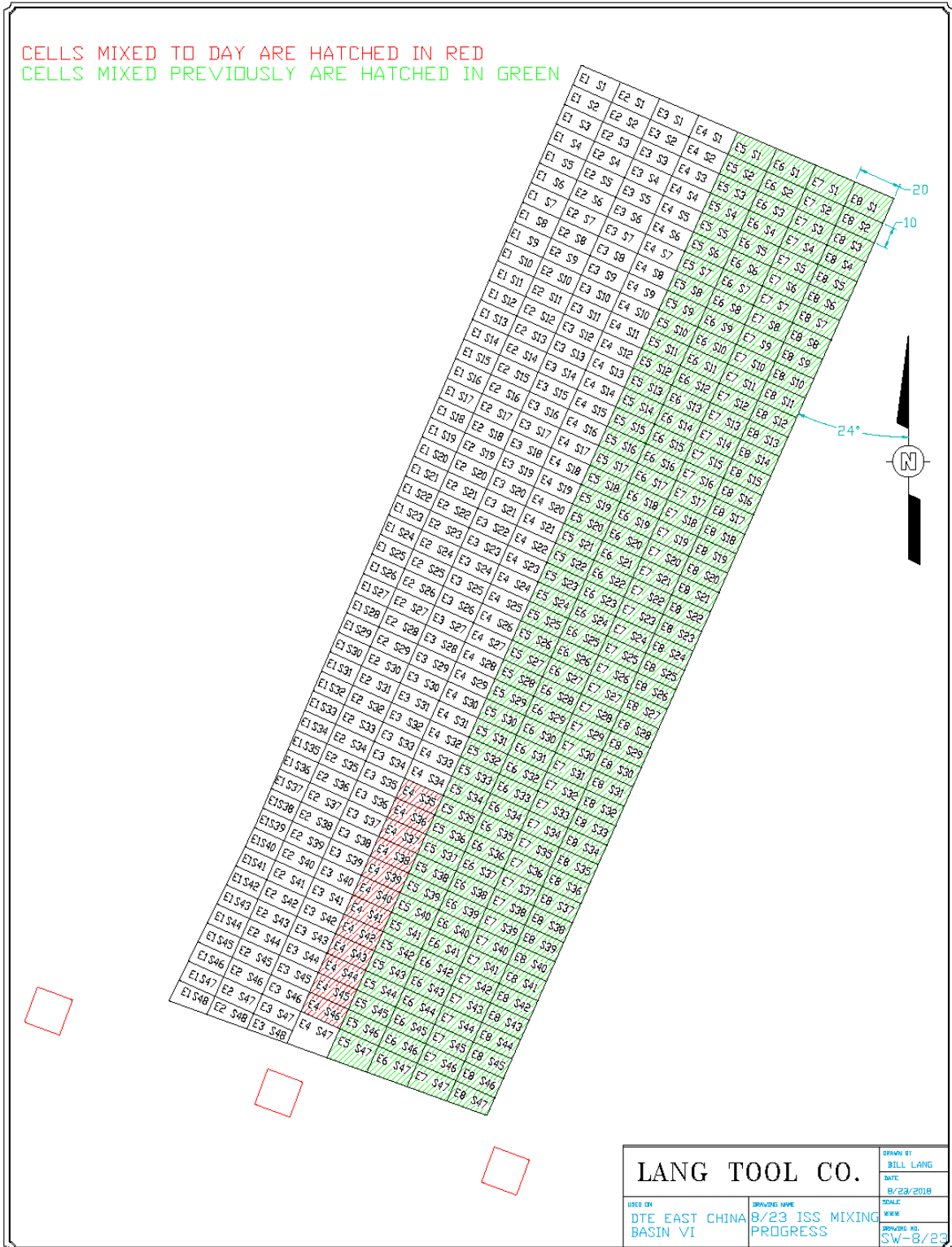


E1 S1	E2 S1	E3 S1	E4 S1	E5 S1	E6 S1	E7 S1	E8 S1	E9 S1	E10 S1	E11 S1	E12 S1
E1 S2	E2 S2	E3 S2	E4 S2	E5 S2	E6 S2	E7 S2	E8 S2	E9 S2	E10 S2	E11 S2	E12 S2
E1 S3	E2 S3	E3 S3	E4 S3	E5 S3	E6 S3	E7 S3	E8 S3	E9 S3	E10 S3	E11 S3	E12 S3
E1 S4	E2 S4	E3 S4	E4 S4	E5 S4	E6 S4	E7 S4	E8 S4	E9 S4	E10 S4	E11 S4	E12 S4
E1 S5	E2 S5	E3 S5	E4 S5	E5 S5	E6 S5	E7 S5	E8 S5	E9 S5	E10 S5	E11 S5	E12 S5
E1 S6	E2 S6	E3 S6	E4 S6	E5 S6	E6 S6	E7 S6	E8 S6	E9 S6	E10 S6	E11 S6	E12 S6
E1 S7	E2 S7	E3 S7	E4 S7	E5 S7	E6 S7	E7 S7	E8 S7	E9 S7	E10 S7	E11 S7	E12 S7
E1 S8	E2 S8	E3 S8	E4 S8	E5 S8	E6 S8	E7 S8	E8 S8	E9 S8	E10 S8	E11 S8	E12 S8
E1 S9	E2 S9	E3 S9	E4 S9	E5 S9	E6 S9	E7 S9	E8 S9	E9 S9	E10 S9	E11 S9	E12 S9
E1 S10	E2 S10	E3 S10	E4 S10	E5 S10	E6 S10	E7 S10	E8 S10	E9 S10	E10 S10	E11 S10	E12 S10
E1 S11	E2 S11	E3 S11	E4 S11	E5 S11	E6 S11	E7 S11	E8 S11	E9 S11	E10 S11	E11 S11	E12 S11
E1 S12	E2 S12	E3 S12	E4 S12	E5 S12	E6 S12	E7 S12	E8 S12	E9 S12	E10 S12	E11 S12	E12 S12
E1 S13	E2 S13	E3 S13	E4 S13	E5 S13	E6 S13	E7 S13	E8 S13	E9 S13	E10 S13	E11 S13	E12 S13
E1 S14	E2 S14	E3 S14	E4 S14	E5 S14	E6 S14	E7 S14	E8 S14	E9 S14	E10 S14	E11 S14	E12 S14
E1 S15	E2 S15	E3 S15	E4 S15	E5 S15	E6 S15	E7 S15	E8 S15	E9 S15	E10 S15	E11 S15	E12 S15
E1 S16	E2 S16	E3 S16	E4 S16	E5 S16	E6 S16	E7 S16	E8 S16	E9 S16	E10 S16	E11 S16	E12 S16
E1 S17	E2 S17	E3 S17	E4 S17	E5 S17	E6 S17	E7 S17	E8 S17	E9 S17	E10 S17	E11 S17	E12 S17
E1 S18	E2 S18	E3 S18	E4 S18	E5 S18	E6 S18	E7 S18	E8 S18	E9 S18	E10 S18	E11 S18	E12 S18
E1 S19	E2 S19	E3 S19	E4 S19	E5 S19	E6 S19	E7 S19	E8 S19	E9 S19	E10 S19	E11 S19	E12 S19
E1 S20	E2 S20	E3 S20	E4 S20	E5 S20	E6 S20	E7 S20	E8 S20	E9 S20	E10 S20	E11 S20	E12 S20
E1 S21	E2 S21	E3 S21	E4 S21	E5 S21	E6 S21	E7 S21	E8 S21	E9 S21	E10 S21	E11 S21	E12 S21
E1 S22	E2 S22	E3 S22	E4 S22	E5 S22	E6 S22	E7 S22	E8 S22	E9 S22	E10 S22	E11 S22	E12 S22
E1 S23	E2 S23	E3 S23	E4 S23	E5 S23	E6 S23	E7 S23	E8 S23	E9 S23	E10 S23	E11 S23	E12 S23
E1 S24	E2 S24	E3 S24	E4 S24	E5 S24	E6 S24	E7 S24	E8 S24	E9 S24	E10 S24	E11 S24	E12 S24
E1 S25	E2 S25	E3 S25	E4 S25	E5 S25	E6 S25	E7 S25	E8 S25	E9 S25	E10 S25	E11 S25	E12 S25
E1 S26	E2 S26	E3 S26	E4 S26	E5 S26	E6 S26	E7 S26	E8 S26	E9 S26	E10 S26	E11 S26	E12 S26
E1 S27	E2 S27	E3 S27	E4 S27	E5 S27	E6 S27	E7 S27	E8 S27	E9 S27	E10 S27	E11 S27	E12 S27
E1 S28	E2 S28	E3 S28	E4 S28	E5 S28	E6 S28	E7 S28	E8 S28	E9 S28	E10 S28	E11 S28	E12 S28
E1 S29	E2 S29	E3 S29	E4 S29	E5 S29	E6 S29	E7 S29	E8 S29	E9 S29	E10 S29	E11 S29	E12 S29
E1 S30	E2 S30	E3 S30	E4 S30	E5 S30	E6 S30	E7 S30	E8 S30	E9 S30	E10 S30	E11 S30	E12 S30
E1 S31	E2 S31	E3 S31	E4 S31	E5 S31	E6 S31	E7 S31	E8 S31	E9 S31	E10 S31	E11 S31	E12 S31
E1 S32	E2 S32	E3 S32	E4 S32	E5 S32	E6 S32	E7 S32	E8 S32	E9 S32	E10 S32	E11 S32	E12 S32
E1 S33	E2 S33	E3 S33	E4 S33	E5 S33	E6 S33	E7 S33	E8 S33	E9 S33	E10 S33	E11 S33	E12 S33
E1 S34	E2 S34	E3 S34	E4 S34	E5 S34	E6 S34	E7 S34	E8 S34	E9 S34	E10 S34	E11 S34	E12 S34
E1 S35	E2 S35	E3 S35	E4 S35	E5 S35	E6 S35	E7 S35	E8 S35	E9 S35	E10 S35	E11 S35	E12 S35
E1 S36	E2 S36	E3 S36	E4 S36	E5 S36	E6 S36	E7 S36	E8 S36	E9 S36	E10 S36	E11 S36	E12 S36
E1 S37	E2 S37	E3 S37	E4 S37	E5 S37	E6 S37	E7 S37	E8 S37	E9 S37	E10 S37	E11 S37	E12 S37
E1 S38	E2 S38	E3 S38	E4 S38	E5 S38	E6 S38	E7 S38	E8 S38	E9 S38	E10 S38	E11 S38	E12 S38
E1 S39	E2 S39	E3 S39	E4 S39	E5 S39	E6 S39	E7 S39	E8 S39	E9 S39	E10 S39	E11 S39	E12 S39
E1 S40	E2 S40	E3 S40	E4 S40	E5 S40	E6 S40	E7 S40	E8 S40	E9 S40	E10 S40	E11 S40	E12 S40
E1 S41	E2 S41	E3 S41	E4 S41	E5 S41	E6 S41	E7 S41	E8 S41	E9 S41	E10 S41	E11 S41	E12 S41
E1 S42	E2 S42	E3 S42	E4 S42	E5 S42	E6 S42	E7 S42	E8 S42	E9 S42	E10 S42	E11 S42	E12 S42
E1 S43	E2 S43	E3 S43	E4 S43	E5 S43	E6 S43	E7 S43	E8 S43	E9 S43	E10 S43	E11 S43	E12 S43
E1 S44	E2 S44	E3 S44	E4 S44	E5 S44	E6 S44	E7 S44	E8 S44	E9 S44	E10 S44	E11 S44	E12 S44
E1 S45	E2 S45	E3 S45	E4 S45	E5 S45	E6 S45	E7 S45	E8 S45	E9 S45	E10 S45	E11 S45	E12 S45
E1 S46	E2 S46	E3 S46	E4 S46	E5 S46	E6 S46	E7 S46	E8 S46	E9 S46	E10 S46	E11 S46	E12 S46



LANG TOOL CO.		DRAWN BY BILL LANG DATE 8/23/2018 SCALE NONE DRAWING NO. 8/23
USED BY DTE EAST CHINA BASIN VI	DRAWING NAME 8/23 ISS MIXING PROGRESS	

Cell E4S47 in the West side had all of its material scrapped down to the good clay so we did not blend it.



The chart below was downloaded from the LTC Slurry Plant onboard computer. It shows the cell designation and the quantity of Portland cement delivered into the cell. Cells that have an A in front are in the Southeast Quadrant, cells that have a B in front are for the Southwest Quadrant

Date	Time	Cell	lb
8/23/2018	6:22:18 AM	AE5S16	3,240
8/23/2018	6:29:51 AM	AE5S17	2,970
8/23/2018	6:38:16 AM	AE5S18	3,170
8/23/2018	6:49:28 AM	AE5S19	3,240
8/23/2018	6:57:51 AM	AE5S20	3,310
8/23/2018	7:06:43 AM	AE5S21	3,340
8/23/2018	7:15:28 AM	AE5S22	3,570
8/23/2018	7:23:34 AM	AE5S23	3,140
8/23/2018	7:30:37 AM	AE5S24	3,100
8/23/2018	7:38:43 AM	AE5S25	3,360
8/23/2018	7:49:44 AM	AE5S26	3,360
8/23/2018	7:57:54 AM	AE5S27	3,320
8/23/2018	8:05:13 AM	AE5S28	3,000
8/23/2018	8:12:09 AM	AE5S29	3,020
8/23/2018	8:23:05 AM	AE5S30	3,380
8/23/2018	8:30:19 AM	AE5S31	3,290
8/23/2018	8:37:34 AM	AE5S32	3,260
8/23/2018	8:45:42 AM	AE5S33	3,200
8/23/2018	8:53:34 AM	AE5S34	3,670
8/23/2018	9:06:32 AM	AE5S35	3,580
8/23/2018	9:14:18 AM	AE5S36	3,680
8/23/2018	9:25:49 AM	AE5S37	3,800
8/23/2018	9:34:46 AM	AE5S38	3,490
8/23/2018	9:46:55 AM	AE5S39	3,670
8/23/2018	9:54:56 AM	AE5S40	3,550
8/23/2018	10:02:57 AM	AE5S41	3,250
8/23/2018	10:11:03 AM	AE5S42	3,550
8/23/2018	10:23:36 AM	AE5S43	3,430
8/23/2018	10:31:25 AM	AE5S44	2,980
8/23/2018	10:40:45 AM	AE5S45	2,370
8/23/2018	10:46:00 AM	AE5S46	2,050
8/23/2018	10:58:09 AM	BE4S46	1,490
8/23/2018	11:09:00 AM	BE4S45	4,850
8/23/2018	11:19:55 AM	BE4S44	5,000
8/23/2018	11:35:52 AM	BE4S43	5,350
8/23/2018	11:47:22 AM	BE4S42	5,570
8/23/2018	11:59:35 AM	BE4S41	5,450
8/23/2018	12:10:55 PM	BE4S40	5,400
8/23/2018	12:22:52 PM	BE4S39	5,700
8/23/2018	12:34:50 PM	BE4S38	5,860
8/23/2018	12:47:26 PM	BE4S37	6,070
8/23/2018	1:02:24 PM	BE4S36	5,710
8/23/2018	2:01:11 PM	BE4S35	6,080
		Total PC lbs	163,870

The chart below is a summary of the soil volume mixed and the quantity of Portland cement delivered to the site, on hand and used in the ISS operation. This information is taken from the Excel workbook created for this project and updated each work day.

PC Delivered to Site SE&SW	1,681,420	On Hand End of Day		Soil Volume Mixed	
Total PC Cell Qt'ys Sheet	1,508,502	Truck	23,360	Total	58,880.04
Total from Plant Scale	1,516,570	Silo 1	60,300	SE&SW Quad	11,739.31
PC Today Cell Qt'ys Sheet	163,505	Silo 2	62,890	NE Quad	20,939.07
Total NE Quad	3,020,020	Total	146,550	NW Quad	26,201.66
Total NW Quad	3,305,390	Plant + On Hand	1,663,120		0.00
	0	Error lb	18,300	yd^3 today	1,272.41
Total PC Tons	4,003.42	Error %	1.09%		

Lang Tool Co.

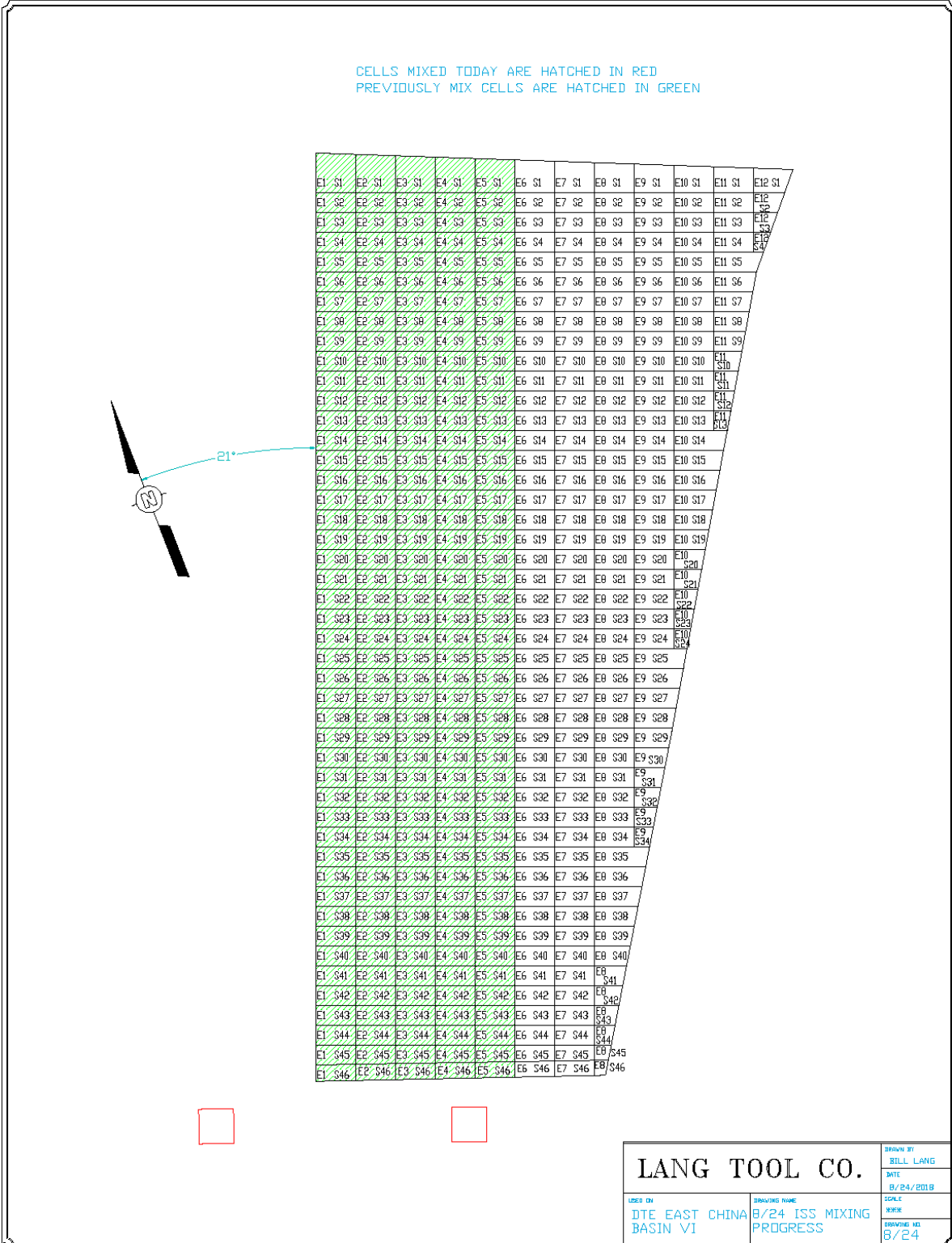
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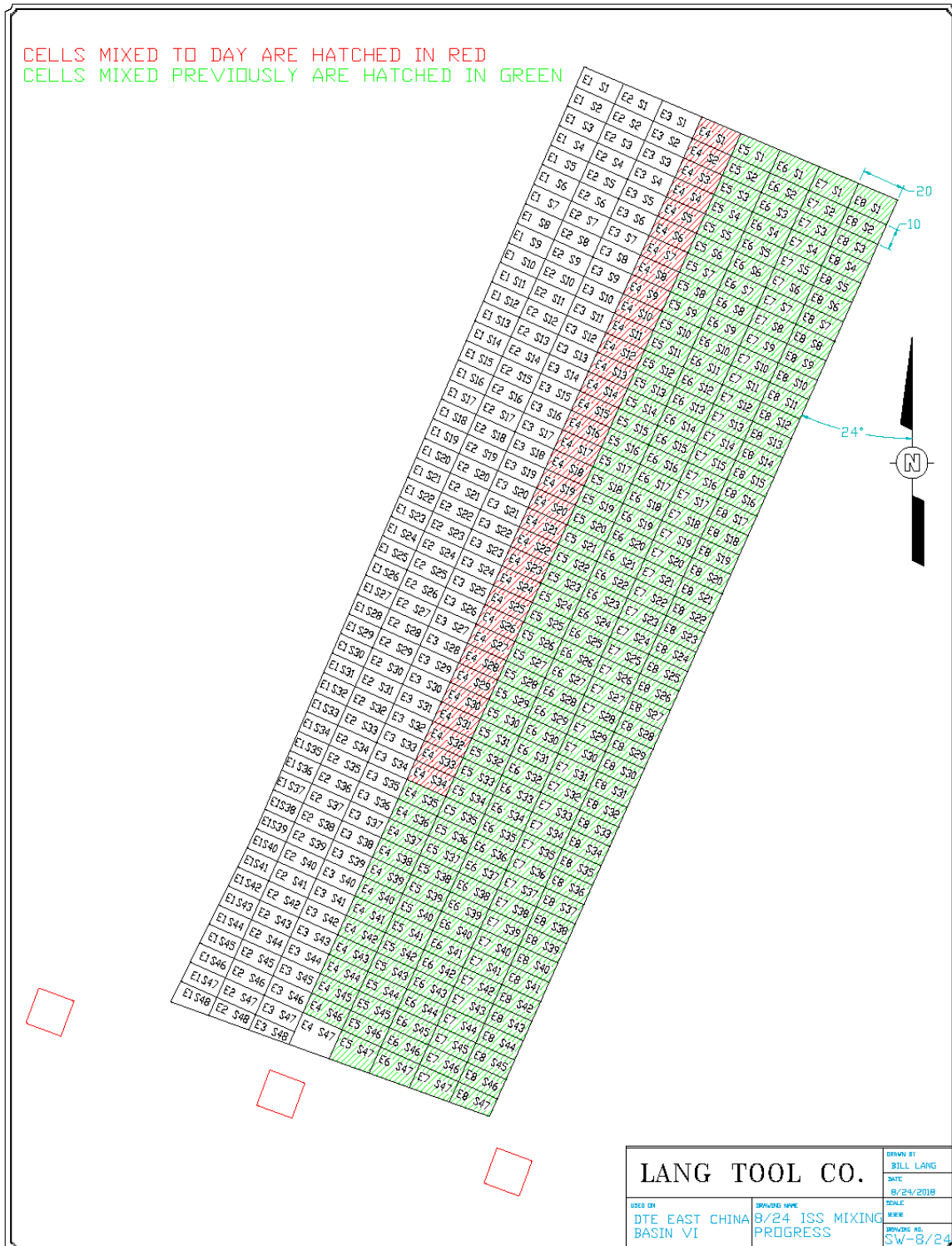
Phone (989) 435-9864
Fax (989) 435-4311

August 24, 2018
South

CELLS MIXED TODAY ARE HATCHED IN RED
PREVIOUSLY MIX CELLS ARE HATCHED IN GREEN



Cell E4S47 in the West side had all of its material scrapped down to the good clay so we did not blend it.



The chart below was downloaded from the LTC Slurry Plant onboard computer. It shows the cell designation and the quantity of Portland cement delivered into the cell. Cells that have an A in front are in the Southeast Quadrant, cells that have a B in front are for the Southwest Quadrant

Date	Time	Cell	lb
8/24/2018	7:19:09 AM	BE4S34	6,370
8/24/2018	7:31:17 AM	BE4S33	6,020
8/24/2018	7:43:30 AM	BE4S32	5,830
8/24/2018	7:56:18 AM	BE4S31	4,080
8/24/2018	8:05:57 AM	BE4S30	4,360
8/24/2018	8:15:44 AM	BE4S29	4,250
8/24/2018	8:25:42 AM	BE4S28	4,380
8/24/2018	8:34:57 AM	BE4S27	4,280
8/24/2018	8:48:28 AM	BE4S26	4,870
8/24/2018	8:59:26 AM	BE4S25	5,180
8/24/2018	9:11:18 AM	BE4S24	5,550
8/24/2018	9:44:11 AM	BE4S23	5,570
8/24/2018	9:55:16 AM	BE4S22	5,500
8/24/2018	10:06:25 AM	BE4S21	5,580
8/24/2018	10:17:28 AM	BE4S20	5,770
8/24/2018	10:29:12 AM	BE4S19	5,540
8/24/2018	10:42:19 AM	BE4S18	5,990
8/24/2018	10:53:39 AM	BE4S17	5,390
8/24/2018	11:07:06 AM	BE4S16	5,450
8/24/2018	11:20:00 AM	BE4S15	5,230
8/24/2018	11:31:16 AM	BE4S14	5,670
8/24/2018	11:42:22 AM	BE4S13	5,530
8/24/2018	11:53:36 AM	BE4S12	5,660
8/24/2018	12:04:14 PM	BE4S11	5,530
8/24/2018	12:16:01 PM	BE4S10	5,670
8/24/2018	12:28:34 PM	BE4S9	5,990
8/24/2018	12:42:11 PM	BE4S8	5,670
8/24/2018	12:54:12 PM	BE4S7	6,080
8/24/2018	1:07:19 PM	BE4S6	6,120
8/24/2018	1:19:02 PM	BE4S5	5,810
8/24/2018	1:30:46 PM	BE4S4	5,990
8/24/2018	1:42:46 PM	BE4S3	6,250
8/24/2018	1:54:45 PM	BE4S2	6,440
8/24/2018	2:07:42 PM	BE4S1	6,890
		Total PC lbs	188,490

The chart below is a summary of the soil volume mixed and the quantity of Portland cement delivered to the site, on hand and used in the ISS operation. This information is taken from the Excel workbook created for this project and updated each work day.

PC Delivered to Site SE&SW	1,778,520	On Hand End of Day		Soil Volume Mixed	
Total PC Cell Qt'ys Sheet	1,696,624	Truck	23,320	Total	60,344.03
Total from Plant Scale	1,705,060	Silo 1	7,730	SE&SW Quad	13,203.30
PC Today Cell Qt'ys Sheet	188,123	Silo 2	20,520	NE Quad	20,939.07
Total NE Quad	3,020,020	Total	51,570	NW Quad	26,201.66
Total NW Quad	3,305,390	Plant + On Hand	1,756,630		0.00
	0	Error lb	21,890	yd^3 today	1,463.98
Total PC Tons	4,051.97	Error %	1.23%		

Lang Tool Co.

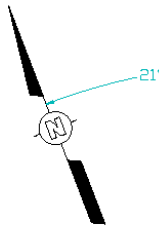
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August 27, 2018
South

CELLS MIXED TODAY ARE HATCHED IN RED
PREVIOUSLY MIX CELLS ARE HATCHED IN GREEN

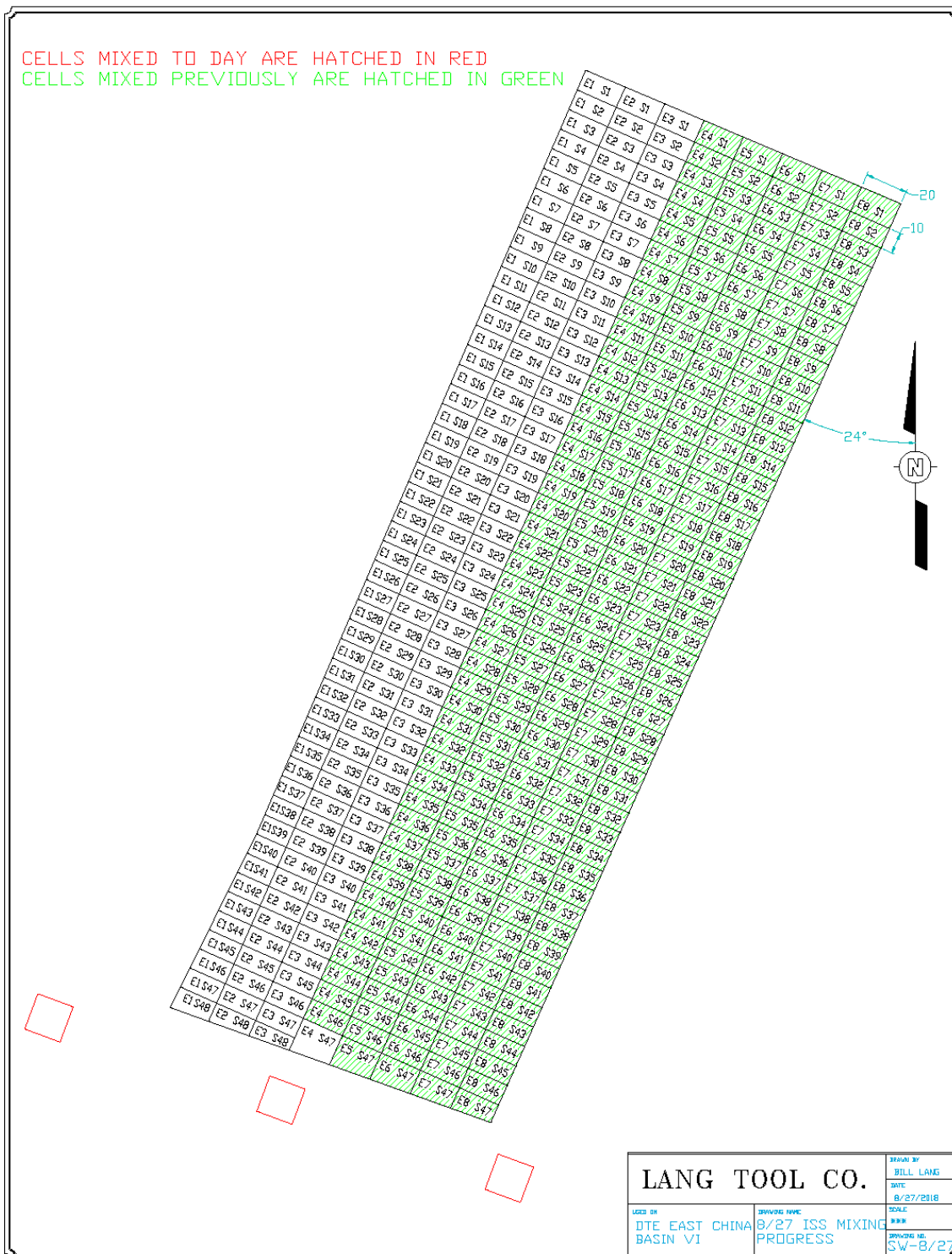


E1 S1	E2 S1	E3 S1	E4 S1	E5 S1	E6 S1	E7 S1	E8 S1	E9 S1	E10 S1	E11 S1	E12 S1
E1 S2	E2 S2	E3 S2	E4 S2	E5 S2	E6 S2	E7 S2	E8 S2	E9 S2	E10 S2	E11 S2	E12 S2
E1 S3	E2 S3	E3 S3	E4 S3	E5 S3	E6 S3	E7 S3	E8 S3	E9 S3	E10 S3	E11 S3	E12 S3
E1 S4	E2 S4	E3 S4	E4 S4	E5 S4	E6 S4	E7 S4	E8 S4	E9 S4	E10 S4	E11 S4	E12 S4
E1 S5	E2 S5	E3 S5	E4 S5	E5 S5	E6 S5	E7 S5	E8 S5	E9 S5	E10 S5	E11 S5	E12 S5
E1 S6	E2 S6	E3 S6	E4 S6	E5 S6	E6 S6	E7 S6	E8 S6	E9 S6	E10 S6	E11 S6	E12 S6
E1 S7	E2 S7	E3 S7	E4 S7	E5 S7	E6 S7	E7 S7	E8 S7	E9 S7	E10 S7	E11 S7	E12 S7
E1 S8	E2 S8	E3 S8	E4 S8	E5 S8	E6 S8	E7 S8	E8 S8	E9 S8	E10 S8	E11 S8	E12 S8
E1 S9	E2 S9	E3 S9	E4 S9	E5 S9	E6 S9	E7 S9	E8 S9	E9 S9	E10 S9	E11 S9	E12 S9
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E1 S12	E2 S12	E3 S12	E4 S12	E5 S12	E6 S12	E7 S12	E8 S12	E9 S12	E10 S12	E11 S12	E12 S12
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E1 S14	E2 S14	E3 S14	E4 S14	E5 S14	E6 S14	E7 S14	E8 S14	E9 S14	E10 S14	E11 S14	E12 S14
E1 S15	E2 S15	E3 S15	E4 S15	E5 S15	E6 S15	E7 S15	E8 S15	E9 S15	E10 S15	E11 S15	E12 S15
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E1 S18	E2 S18	E3 S18	E4 S18	E5 S18	E6 S18	E7 S18	E8 S18	E9 S18	E10 S18	E11 S18	E12 S18
E1 S19	E2 S19	E3 S19	E4 S19	E5 S19	E6 S19	E7 S19	E8 S19	E9 S19	E10 S19	E11 S19	E12 S19
E1 S20	E2 S20	E3 S20	E4 S20	E5 S20	E6 S20	E7 S20	E8 S20	E9 S20	E10 S20	E11 S20	E12 S20
E1 S21	E2 S21	E3 S21	E4 S21	E5 S21	E6 S21	E7 S21	E8 S21	E9 S21	E10 S21	E11 S21	E12 S21
E1 S22	E2 S22	E3 S22	E4 S22	E5 S22	E6 S22	E7 S22	E8 S22	E9 S22	E10 S22	E11 S22	E12 S22
E1 S23	E2 S23	E3 S23	E4 S23	E5 S23	E6 S23	E7 S23	E8 S23	E9 S23	E10 S23	E11 S23	E12 S23
E1 S24	E2 S24	E3 S24	E4 S24	E5 S24	E6 S24	E7 S24	E8 S24	E9 S24	E10 S24	E11 S24	E12 S24
E1 S25	E2 S25	E3 S25	E4 S25	E5 S25	E6 S25	E7 S25	E8 S25	E9 S25	E10 S25	E11 S25	E12 S25
E1 S26	E2 S26	E3 S26	E4 S26	E5 S26	E6 S26	E7 S26	E8 S26	E9 S26	E10 S26	E11 S26	E12 S26
E1 S27	E2 S27	E3 S27	E4 S27	E5 S27	E6 S27	E7 S27	E8 S27	E9 S27	E10 S27	E11 S27	E12 S27
E1 S28	E2 S28	E3 S28	E4 S28	E5 S28	E6 S28	E7 S28	E8 S28	E9 S28	E10 S28	E11 S28	E12 S28
E1 S29	E2 S29	E3 S29	E4 S29	E5 S29	E6 S29	E7 S29	E8 S29	E9 S29	E10 S29	E11 S29	E12 S29
E1 S30	E2 S30	E3 S30	E4 S30	E5 S30	E6 S30	E7 S30	E8 S30	E9 S30	E10 S30	E11 S30	E12 S30
E1 S31	E2 S31	E3 S31	E4 S31	E5 S31	E6 S31	E7 S31	E8 S31	E9 S31	E10 S31	E11 S31	E12 S31
E1 S32	E2 S32	E3 S32	E4 S32	E5 S32	E6 S32	E7 S32	E8 S32	E9 S32	E10 S32	E11 S32	E12 S32
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E1 S38	E2 S38	E3 S38	E4 S38	E5 S38	E6 S38	E7 S38	E8 S38	E9 S38	E10 S38	E11 S38	E12 S38
E1 S39	E2 S39	E3 S39	E4 S39	E5 S39	E6 S39	E7 S39	E8 S39	E9 S39	E10 S39	E11 S39	E12 S39
E1 S40	E2 S40	E3 S40	E4 S40	E5 S40	E6 S40	E7 S40	E8 S40	E9 S40	E10 S40	E11 S40	E12 S40
E1 S41	E2 S41	E3 S41	E4 S41	E5 S41	E6 S41	E7 S41	E8 S41	E9 S41	E10 S41	E11 S41	E12 S41
E1 S42	E2 S42	E3 S42	E4 S42	E5 S42	E6 S42	E7 S42	E8 S42	E9 S42	E10 S42	E11 S42	E12 S42
E1 S43	E2 S43	E3 S43	E4 S43	E5 S43	E6 S43	E7 S43	E8 S43	E9 S43	E10 S43	E11 S43	E12 S43
E1 S44	E2 S44	E3 S44	E4 S44	E5 S44	E6 S44	E7 S44	E8 S44	E9 S44	E10 S44	E11 S44	E12 S44
E1 S45	E2 S45	E3 S45	E4 S45	E5 S45	E6 S45	E7 S45	E8 S45	E9 S45	E10 S45	E11 S45	E12 S45
E1 S46	E2 S46	E3 S46	E4 S46	E5 S46	E6 S46	E7 S46	E8 S46	E9 S46	E10 S46	E11 S46	E12 S46



LANG TOOL CO.		DRAWN BY BILL LANG
USED IN DTE EAST CHINA BASIN VI		DATE 8/27/2018
DRAWING NAME 8/27 ISS MIXING PROGRESS		SCALE N/A
		DRAWING NO. 8/27

Cell E4S47 in the West side had all of its material scrapped down to the good clay so we did not blend it.



The chart below was downloaded from the LTC Slurry Plant onboard computer. It shows the cell designation and the quantity of Portland cement delivered into the cell. Cells that have an A in front are in the Southeast Quadrant, cells that have a B in front are for the Southwest Quadrant

Date	Time	Cell	lb	Time	Cell	lb
8/27/2018	7:02:07 AM	AE6S1	7,220	11:06:50 AM	AE6S28	3,000
8/27/2018	7:13:16 AM	AE6S2	4,030	11:25:21 AM	AE6S29	2,900
8/27/2018	7:21:30 AM	AE6S3	3,470	11:35:59 AM	AE6S30	2,910
8/27/2018	7:29:27 AM	AE6S4	3,380	11:42:26 AM	AE6S31	2,900
8/27/2018	7:37:17 AM	AE6S5	3,370	11:49:37 AM	AE6S32	2,990
8/27/2018	7:46:11 AM	AE6S6	3,190	11:56:43 AM	AE6S33	3,000
8/27/2018	7:55:45 AM	AE6S7	3,130	12:05:12 PM	AE6S34	3,230
8/27/2018	8:04:16 AM	AE6S8	3,350	12:16:23 PM	AE6S35	3,580
8/27/2018	8:12:02 AM	AE6S9	3,360	12:30:34 PM	AE6S36	3,340
8/27/2018	8:20:34 AM	AE6S10	3,240	12:39:06 PM	AE6S37	3,360
8/27/2018	8:28:30 AM	AE6S11	3,210	12:46:21 PM	AE6S38	3,400
8/27/2018	8:36:55 AM	AE6S12	3,150	12:54:49 PM	AE6S39	3,550
8/27/2018	8:44:13 AM	AE6S13	3,130	1:05:10 PM	AE6S40	3,160
8/27/2018	8:51:44 AM	AE6S14	3,040	1:12:11 PM	AE6S41	3,260
8/27/2018	9:06:02 AM	AE6S15	2,960	1:20:40 PM	AE6S42	3,190
8/27/2018	9:14:36 AM	AE6S16	3,100	1:28:20 PM	AE6S43	3,190
8/27/2018	9:22:28 AM	AE6S17	3,090	1:36:08 PM	AE6S44	2,850
8/27/2018	9:30:07 AM	AE6S18	3,140	1:45:52 PM	AE6S45	2,310
8/27/2018	9:38:05 AM	AE6S19	3,010	1:51:04 PM	AE6S46	2,210
8/27/2018	9:49:28 AM	AE6S20	3,170	2:11:07 PM	AE7S1	5,910
8/27/2018	9:58:09 AM	AE6S21	3,150	2:20:28 PM	AE7S2	3,750
8/27/2018	10:07:01 AM	AE6S22	3,120	2:30:50 PM	AE7S3	3,850
8/27/2018	10:16:38 AM	AE6S23	3,250	2:40:45 PM	AE7S4	3,800
8/27/2018	10:27:07 AM	AE6S24	3,170	2:49:37 PM	AE7S5	3,830
8/27/2018	10:39:17 AM	AE6S25	3,250	2:58:49 PM	AE7S6	3,850
8/27/2018	10:47:46 AM	AE6S26	3,310	3:07:50 PM	AE7S7	3,800
8/27/2018	10:57:00 AM	AE6S27	3,340			87,120
			91,330	Total PC lbs		178,450

The chart below is a summary of the soil volume mixed and the quantity of Portland cement delivered to the site, on hand and used in the ISS operation. This information is taken from the Excel workbook created for this project and updated each work day.

PC Delivered to Site SE&SW	2,031,680	On Hand End of Day		Soil Volume Mixed	
Total PC Cell Qt'ys Sheet	1,874,655	Truck	11,170	Total	61,729.48
Total from Plant Scale	1,883,510	Silo 1	52,630	SE&SW Quad	14,588.75
PC Today Cell Qt'ys Sheet	178,032	Silo 2	60,970	NE Quad	20,939.07
Total NE Quad	3,020,020	Total	124,770	NW Quad	26,201.66
Total NW Quad	3,305,390	Plant + On Hand	2,008,280		0.00
	0	Error lb	23,400	yd^3 today	1,385.45
Total PC Tons	4,178.55	Error %	1.15%		

Lang Tool Co.

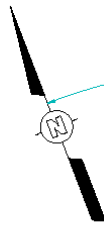
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August 28, 2018
South

CELLS MIXED TODAY ARE HATCHED IN RED
PREVIOUSLY MIX CELLS ARE HATCHED IN GREEN

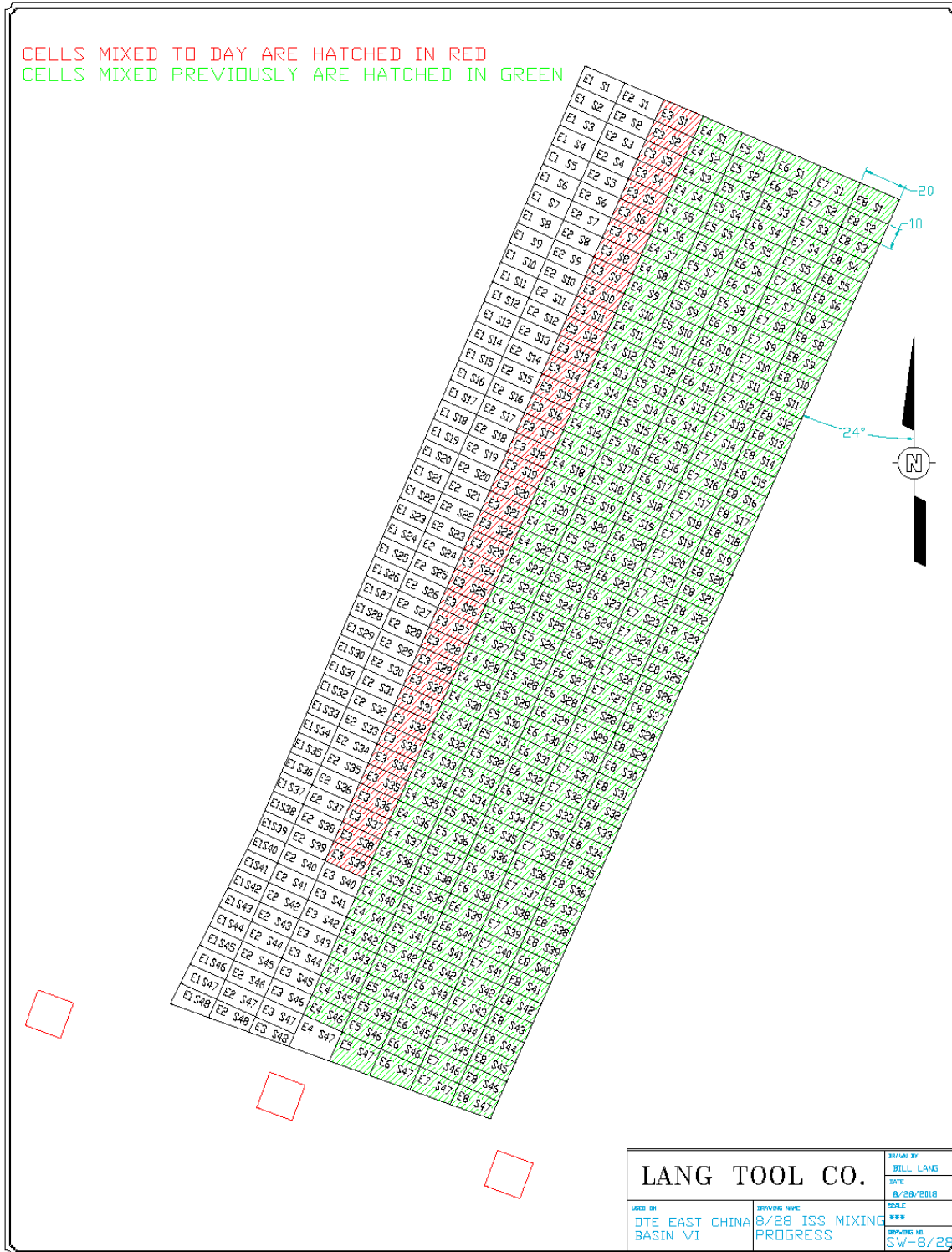


E1 S1	E2 S1	E3 S1	E4 S1	E5 S1	E6 S1	E7 S1	E8 S1	E9 S1	E10 S1	E11 S1	E12 S1
E1 S2	E2 S2	E3 S2	E4 S2	E5 S2	E6 S2	E7 S2	E8 S2	E9 S2	E10 S2	E11 S2	E12 S2
E1 S3	E2 S3	E3 S3	E4 S3	E5 S3	E6 S3	E7 S3	E8 S3	E9 S3	E10 S3	E11 S3	E12 S3
E1 S4	E2 S4	E3 S4	E4 S4	E5 S4	E6 S4	E7 S4	E8 S4	E9 S4	E10 S4	E11 S4	E12 S4
E1 S5	E2 S5	E3 S5	E4 S5	E5 S5	E6 S5	E7 S5	E8 S5	E9 S5	E10 S5	E11 S5	E12 S5
E1 S6	E2 S6	E3 S6	E4 S6	E5 S6	E6 S6	E7 S6	E8 S6	E9 S6	E10 S6	E11 S6	E12 S6
E1 S7	E2 S7	E3 S7	E4 S7	E5 S7	E6 S7	E7 S7	E8 S7	E9 S7	E10 S7	E11 S7	E12 S7
E1 S8	E2 S8	E3 S8	E4 S8	E5 S8	E6 S8	E7 S8	E8 S8	E9 S8	E10 S8	E11 S8	E12 S8
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E1 S11	E2 S11	E3 S11	E4 S11	E5 S11	E6 S11	E7 S11	E8 S11	E9 S11	E10 S11	E11 S11	E12 S11
E1 S12	E2 S12	E3 S12	E4 S12	E5 S12	E6 S12	E7 S12	E8 S12	E9 S12	E10 S12	E11 S12	E12 S12
E1 S13	E2 S13	E3 S13	E4 S13	E5 S13	E6 S13	E7 S13	E8 S13	E9 S13	E10 S13	E11 S13	E12 S13
E1 S14	E2 S14	E3 S14	E4 S14	E5 S14	E6 S14	E7 S14	E8 S14	E9 S14	E10 S14	E11 S14	E12 S14
E1 S15	E2 S15	E3 S15	E4 S15	E5 S15	E6 S15	E7 S15	E8 S15	E9 S15	E10 S15	E11 S15	E12 S15
E1 S16	E2 S16	E3 S16	E4 S16	E5 S16	E6 S16	E7 S16	E8 S16	E9 S16	E10 S16	E11 S16	E12 S16
E1 S17	E2 S17	E3 S17	E4 S17	E5 S17	E6 S17	E7 S17	E8 S17	E9 S17	E10 S17	E11 S17	E12 S17
E1 S18	E2 S18	E3 S18	E4 S18	E5 S18	E6 S18	E7 S18	E8 S18	E9 S18	E10 S18	E11 S18	E12 S18
E1 S19	E2 S19	E3 S19	E4 S19	E5 S19	E6 S19	E7 S19	E8 S19	E9 S19	E10 S19	E11 S19	E12 S19
E1 S20	E2 S20	E3 S20	E4 S20	E5 S20	E6 S20	E7 S20	E8 S20	E9 S20	E10 S20	E11 S20	E12 S20
E1 S21	E2 S21	E3 S21	E4 S21	E5 S21	E6 S21	E7 S21	E8 S21	E9 S21	E10 S21	E11 S21	E12 S21
E1 S22	E2 S22	E3 S22	E4 S22	E5 S22	E6 S22	E7 S22	E8 S22	E9 S22	E10 S22	E11 S22	E12 S22
E1 S23	E2 S23	E3 S23	E4 S23	E5 S23	E6 S23	E7 S23	E8 S23	E9 S23	E10 S23	E11 S23	E12 S23
E1 S24	E2 S24	E3 S24	E4 S24	E5 S24	E6 S24	E7 S24	E8 S24	E9 S24	E10 S24	E11 S24	E12 S24
E1 S25	E2 S25	E3 S25	E4 S25	E5 S25	E6 S25	E7 S25	E8 S25	E9 S25	E10 S25	E11 S25	E12 S25
E1 S26	E2 S26	E3 S26	E4 S26	E5 S26	E6 S26	E7 S26	E8 S26	E9 S26	E10 S26	E11 S26	E12 S26
E1 S27	E2 S27	E3 S27	E4 S27	E5 S27	E6 S27	E7 S27	E8 S27	E9 S27	E10 S27	E11 S27	E12 S27
E1 S28	E2 S28	E3 S28	E4 S28	E5 S28	E6 S28	E7 S28	E8 S28	E9 S28	E10 S28	E11 S28	E12 S28
E1 S29	E2 S29	E3 S29	E4 S29	E5 S29	E6 S29	E7 S29	E8 S29	E9 S29	E10 S29	E11 S29	E12 S29
E1 S30	E2 S30	E3 S30	E4 S30	E5 S30	E6 S30	E7 S30	E8 S30	E9 S30	E10 S30	E11 S30	E12 S30
E1 S31	E2 S31	E3 S31	E4 S31	E5 S31	E6 S31	E7 S31	E8 S31	E9 S31	E10 S31	E11 S31	E12 S31
E1 S32	E2 S32	E3 S32	E4 S32	E5 S32	E6 S32	E7 S32	E8 S32	E9 S32	E10 S32	E11 S32	E12 S32
E1 S33	E2 S33	E3 S33	E4 S33	E5 S33	E6 S33	E7 S33	E8 S33	E9 S33	E10 S33	E11 S33	E12 S33
E1 S34	E2 S34	E3 S34	E4 S34	E5 S34	E6 S34	E7 S34	E8 S34	E9 S34	E10 S34	E11 S34	E12 S34
E1 S35	E2 S35	E3 S35	E4 S35	E5 S35	E6 S35	E7 S35	E8 S35	E9 S35	E10 S35	E11 S35	E12 S35
E1 S36	E2 S36	E3 S36	E4 S36	E5 S36	E6 S36	E7 S36	E8 S36	E9 S36	E10 S36	E11 S36	E12 S36
E1 S37	E2 S37	E3 S37	E4 S37	E5 S37	E6 S37	E7 S37	E8 S37	E9 S37	E10 S37	E11 S37	E12 S37
E1 S38	E2 S38	E3 S38	E4 S38	E5 S38	E6 S38	E7 S38	E8 S38	E9 S38	E10 S38	E11 S38	E12 S38
E1 S39	E2 S39	E3 S39	E4 S39	E5 S39	E6 S39	E7 S39	E8 S39	E9 S39	E10 S39	E11 S39	E12 S39
E1 S40	E2 S40	E3 S40	E4 S40	E5 S40	E6 S40	E7 S40	E8 S40	E9 S40	E10 S40	E11 S40	E12 S40
E1 S41	E2 S41	E3 S41	E4 S41	E5 S41	E6 S41	E7 S41	E8 S41	E9 S41	E10 S41	E11 S41	E12 S41
E1 S42	E2 S42	E3 S42	E4 S42	E5 S42	E6 S42	E7 S42	E8 S42	E9 S42	E10 S42	E11 S42	E12 S42
E1 S43	E2 S43	E3 S43	E4 S43	E5 S43	E6 S43	E7 S43	E8 S43	E9 S43	E10 S43	E11 S43	E12 S43
E1 S44	E2 S44	E3 S44	E4 S44	E5 S44	E6 S44	E7 S44	E8 S44	E9 S44	E10 S44	E11 S44	E12 S44
E1 S45	E2 S45	E3 S45	E4 S45	E5 S45	E6 S45	E7 S45	E8 S45	E9 S45	E10 S45	E11 S45	E12 S45
E1 S46	E2 S46	E3 S46	E4 S46	E5 S46	E6 S46	E7 S46	E8 S46	E9 S46	E10 S46	E11 S46	E12 S46



LANG TOOL CO.		DRAWN BY BILL LANG DATE 8/28/2018 SCALE AS SHOWN DRAWING NO. 8/28
USED ON DTE EAST CHINA BASIN VI	DRAWING NAME 8/28 ISS MIXING PROGRESS	

Cell E4S47 in the West side had all of its material scrapped down to the good clay so we did not blend it.



The chart below was downloaded from the LTC Slurry Plant onboard computer. It shows the cell designation and the quantity of Portland cement delivered into the cell. Cells that have an A in front are in the Southeast Quadrant, cells that have a B in front are for the Southwest Quadrant

Date	Time	Cell	lb
8/28/2018	6:34:54 AM	BE3S1	7,700
8/28/2018	6:48:41 AM	BE3S2	7,210
8/28/2018	7:02:03 AM	BE3S3	7,270
8/28/2018	7:16:59 AM	BE3S4	7,550
8/28/2018	7:30:02 AM	BE3S5	7,030
8/28/2018	7:43:51 AM	BE3S6	7,490
8/28/2018	7:59:42 AM	BE3S7	7,380
8/28/2018	8:13:26 AM	BE3S8	7,240
8/28/2018	8:27:43 AM	BE3S9	7,450
8/28/2018	8:42:21 AM	BE3S10	7,380
8/28/2018	8:57:21 AM	BE3S11	7,180
8/28/2018	9:14:25 AM	BE3S12	7,310
8/28/2018	9:30:58 AM	BE3S13	6,750
8/28/2018	9:43:41 AM	BE3S14	6,950
8/28/2018	9:56:48 AM	BE3S15	7,220
8/28/2018	10:09:55 AM	BE3S16	6,710
8/28/2018	10:23:23 AM	BE3S17	6,920
8/28/2018	10:37:03 AM	BE3S18	6,420
8/28/2018	10:49:33 AM	BE3S19	6,730
8/28/2018	11:19:56 AM	BE3S20	6,450
8/28/2018	11:32:01 AM	BE3S21	6,330
8/28/2018	11:45:12 AM	BE3S22	6,540
8/28/2018	11:59:14 AM	BE3S23	6,230
8/28/2018	12:11:01 PM	BE3S24	6,120
8/28/2018	12:23:09 PM	BE3S25	6,210
8/28/2018	12:35:56 PM	BE3S26	6,200
8/28/2018	12:48:14 PM	BE3S27	5,850
8/28/2018	1:03:04 PM	BE3S28	6,130
8/28/2018	1:15:42 PM	BE3S29	6,330
8/28/2018	1:27:11 PM	BE3S30	5,950
8/28/2018	1:40:29 PM	BE3S31	6,300
8/28/2018	1:54:16 PM	BE3S32	6,500
8/28/2018	2:09:42 PM	BE3S33	6,370
8/28/2018	2:23:43 PM	BE3S34	6,500
8/28/2018	2:37:16 PM	BE3S35	5,870
8/28/2018	2:47:53 PM	BE3S36	5,960
8/28/2018	3:00:16 PM	BE3S37	5,980
8/28/2018	3:11:28 PM	BE3S38	6,620
8/28/2018	3:23:40 PM	BE3S39	6,680
		Total PC lbs	261,010

The chart below is a summary of the soil volume mixed and the quantity of Portland cement delivered to the site, on hand and used in the ISS operation. This information is taken from the Excel workbook created for this project and updated each work day.

PC Delivered to Site SE&SW	2,284,920	On Hand End of Day		Soil Volume Mixed	
Total PC Cell Qt'ys Sheet	2,135,319	Truck	17,080	Total	63,758.00
Total from Plant Scale	2,144,520	Silo 1	57,390	SE&SW Quad	16,617.27
PC Today Cell Qt'ys Sheet	260,664	Silo 2	37,700	NE Quad	20,939.07
Total NE Quad	3,020,020	Total	112,170	NW Quad	26,201.66
Total NW Quad	3,305,390	Plant + On Hand	2,256,690		0.00
	0	Error lb	28,230	yd^3 today	2,028.52
Total PC Tons	4,305.17	Error %	1.24%		

Lang Tool Co.

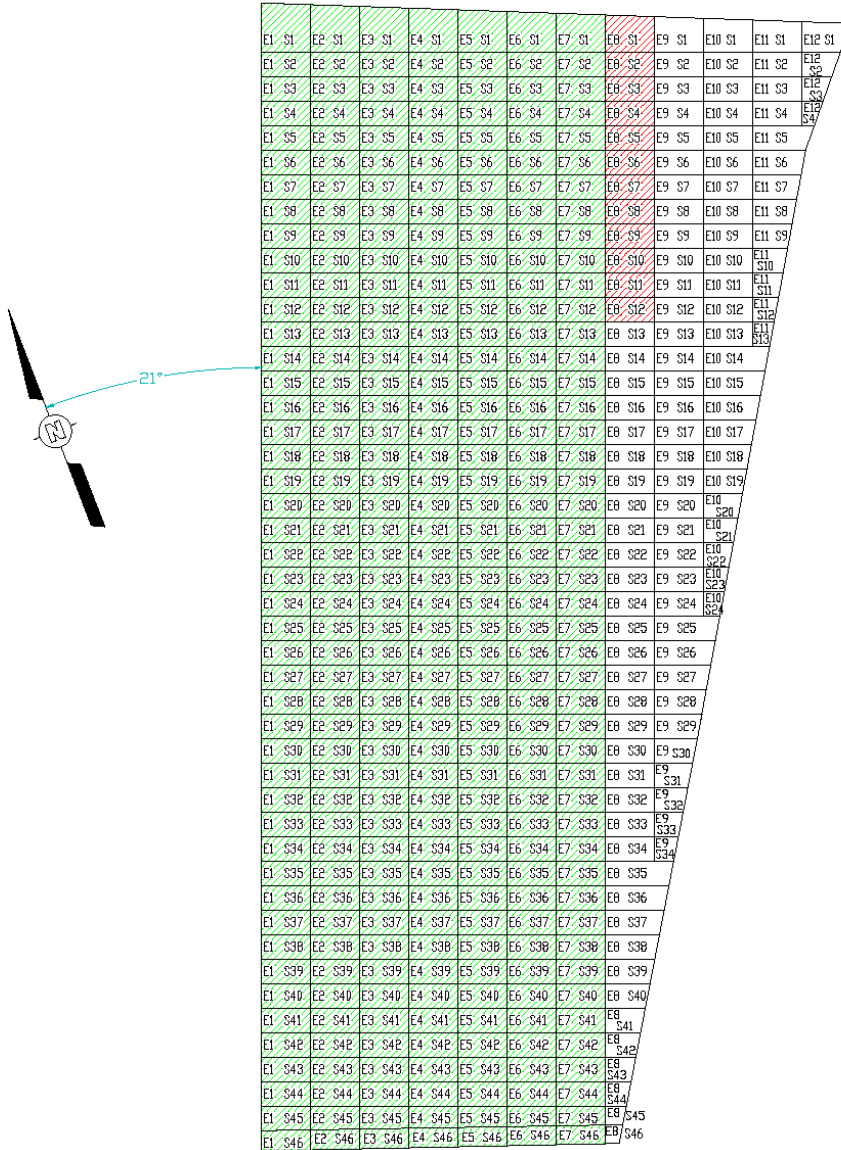
2520 Glidden Rd.
Beaverton, MI 48612

www.langtool.com
bill@langtool.com

Phone (989) 435-9864
Fax (989) 435-4311

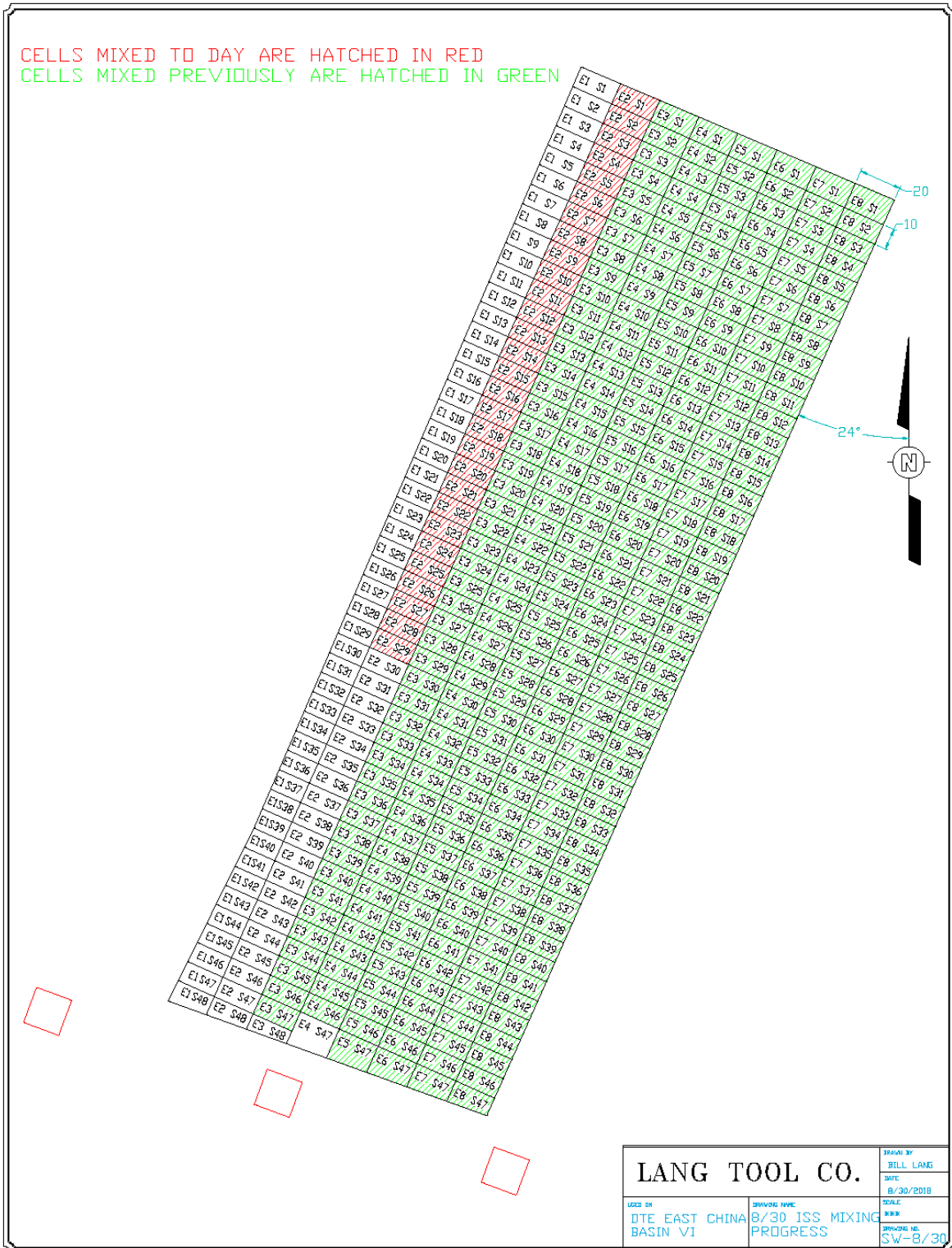
August 30, 2018
South

CELLS MIXED TODAY ARE HATCHED IN RED
PREVIOUSLY MIX CELLS ARE HATCHED IN GREEN



LANG TOOL CO.		<small>DRAWN BY</small> BILL LANG <small>DATE</small> 8/30/2018
<small>USED ON</small> DTE EAST CHINA BASIN VI	<small>DRAWING NAME</small> 8/30 ISS MIXING PROGRESS	<small>SCALE</small> NONE <small>DRAWING NO.</small> 8/30

Cells E4S47 & E3S48 in the West side had all of their material scrapped down to the good clay so we did not blend them.



The chart below was downloaded from the LTC Slurry Plant onboard computer. It shows the cell designation and the quantity of Portland cement delivered into the cell. Cells that have an A in front are in the Southeast Quadrant, cells that have a B in front are for the Southwest Quadrant

Date	Time	Cell	lb	Time	Cell	lb
8/30/2018	6:25:04 AM	AE8S1	5,990	10:19:53 AM	BE2S9	7,650
8/30/2018	6:32:42 AM	AE8S2	3,780	10:36:05 AM	BE2S10	7,920
8/30/2018	6:40:33 AM	AE8S3	3,590	10:51:45 AM	BE2S11	7,800
8/30/2018	6:48:41 AM	AE8S4	3,700	11:07:15 AM	BE2S12	7,880
8/30/2018	6:56:00 AM	AE8S5	3,800	11:23:34 AM	BE2S13	7,720
8/30/2018	7:03:59 AM	AE8S6	3,890	11:41:41 AM	BE2S14	8,000
8/30/2018	7:11:23 AM	AE8S7	3,690	11:54:26 AM	BE2S15	7,550
8/30/2018	7:19:52 AM	AE8S8	3,520	12:07:51 PM	BE2S16	7,580
8/30/2018	7:26:49 AM	AE8S9	3,290	12:22:09 PM	BE2S17	7,460
8/30/2018	7:33:21 AM	AE8S10	3,520	12:38:16 PM	BE2S18	7,540
8/30/2018	7:40:07 AM	AE8S11	3,400	12:52:02 PM	BE2S19	7,470
8/30/2018	7:46:53 AM	AE8S12	3,360	1:06:18 PM	BE2S20	7,450
8/30/2018	8:10:49 AM	BE2S1	7,280	1:19:34 PM	BE2S21	5,740
8/30/2018	8:25:01 AM	BE2S2	7,440	1:33:29 PM	BE2S22	7,150
8/30/2018	8:38:34 AM	BE2S3	7,660	1:45:41 PM	BE2S23	6,920
8/30/2018	8:53:30 AM	BE2S4	8,610	1:58:03 PM	BE2S24	7,240
8/30/2018	9:17:31 AM	BE2S5	8,250	2:13:32 PM	BE2S25	7,240
8/30/2018	9:32:45 AM	BE2S6	8,790	2:26:47 PM	BE2S26	7,510
8/30/2018	9:48:12 AM	BE2S7	8,610	2:40:56 PM	BE2S27	7,770
8/30/2018	10:05:21 AM	BE2S8	8,130	2:54:22 PM	BE2S28	7,380
			110,300	3:08:10 PM	BE2S29	7,230
						156,200
				Total PC lbs		266,500

The chart below is a summary of the soil volume mixed and the quantity of Portland cement delivered to the site, on hand and used in the ISS operation. This information is taken from the Excel workbook created for this project and updated each work day.

PC Delivered to Site SE&SW	2,695,120	On Hand End of Day		Soil Volume Mixed	
Total PC Cell Qt'ys Sheet	2,569,787	Truck	15,970	Total	67,139.07
Total from Plant Scale	2,579,870	Silo 1	48,340	SE&SW Quad	19,998.34
PC Today Cell Qt'ys Sheet	266,129	Silo 2	15,240	NE Quad	20,939.07
Total NE Quad	3,020,020	Total	79,550	NW Quad	26,201.66
Total NW Quad	3,305,390	Plant + On Hand	2,659,420		0.00
	0	Error lb	35,700	yd^3 today	2,071.04
Total PC Tons	4,510.27	Error %	1.32%		

Lang Tool Co.

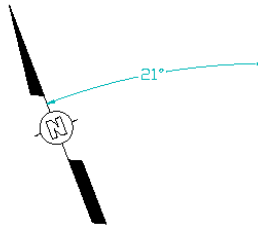
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Phone (989) 435-9864
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August 31, 2018
South

CELLS MIXED TODAY ARE HATCHED IN RED
PREVIOUSLY MIX CELLS ARE HATCHED IN GREEN

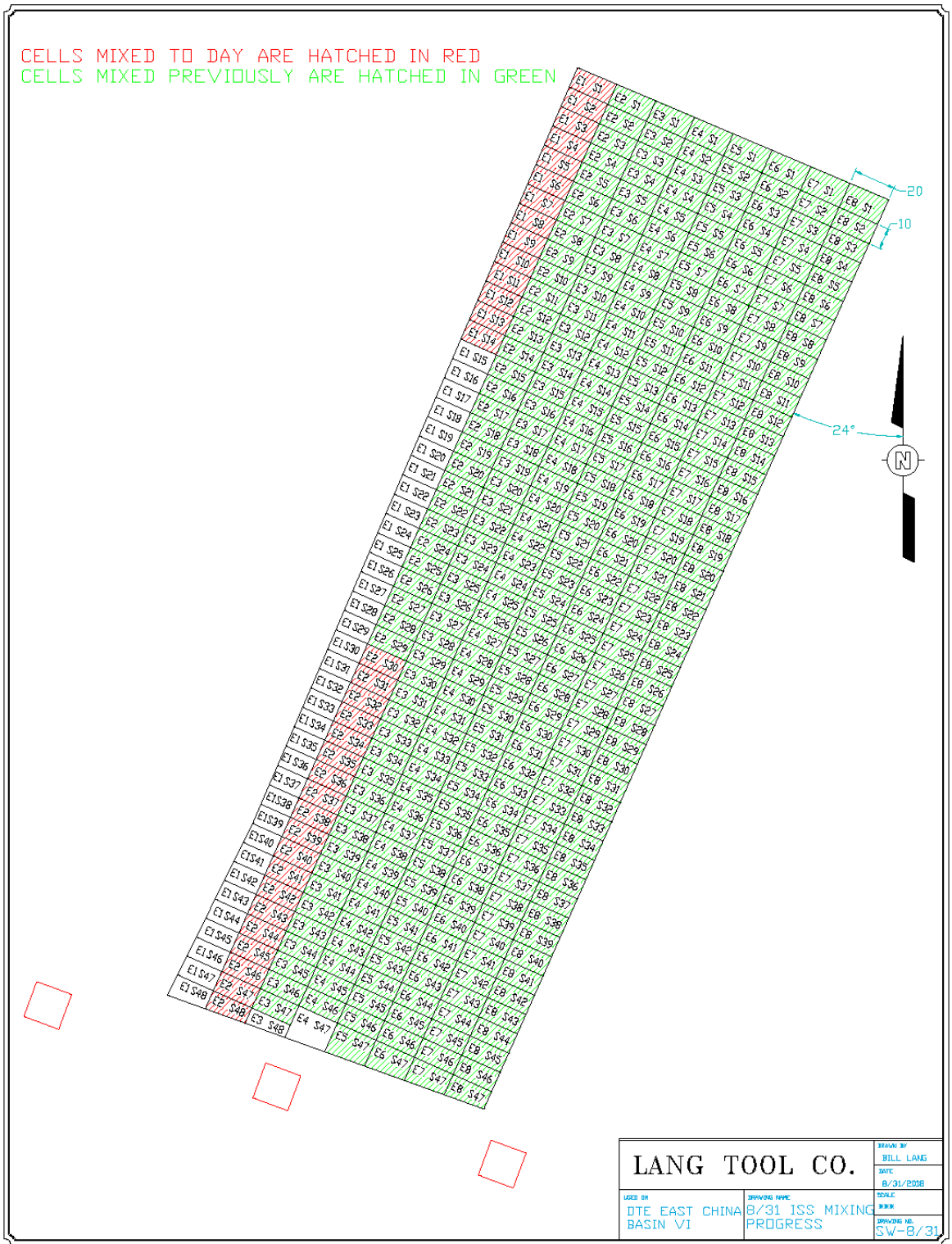


E1 S1	E2 S1	E3 S1	E4 S1	E5 S1	E6 S1	E7 S1	E8 S1	E9 S1	E10 S1	E11 S1	E12 S1
E1 S2	E2 S2	E3 S2	E4 S2	E5 S2	E6 S2	E7 S2	E8 S2	E9 S2	E10 S2	E11 S2	E12 S2
E1 S3	E2 S3	E3 S3	E4 S3	E5 S3	E6 S3	E7 S3	E8 S3	E9 S3	E10 S3	E11 S3	E12 S3
E1 S4	E2 S4	E3 S4	E4 S4	E5 S4	E6 S4	E7 S4	E8 S4	E9 S4	E10 S4	E11 S4	E12 S4
E1 S5	E2 S5	E3 S5	E4 S5	E5 S5	E6 S5	E7 S5	E8 S5	E9 S5	E10 S5	E11 S5	E12 S5
E1 S6	E2 S6	E3 S6	E4 S6	E5 S6	E6 S6	E7 S6	E8 S6	E9 S6	E10 S6	E11 S6	E12 S6
E1 S7	E2 S7	E3 S7	E4 S7	E5 S7	E6 S7	E7 S7	E8 S7	E9 S7	E10 S7	E11 S7	E12 S7
E1 S8	E2 S8	E3 S8	E4 S8	E5 S8	E6 S8	E7 S8	E8 S8	E9 S8	E10 S8	E11 S8	E12 S8
E1 S9	E2 S9	E3 S9	E4 S9	E5 S9	E6 S9	E7 S9	E8 S9	E9 S9	E10 S9	E11 S9	E12 S9
E1 S10	E2 S10	E3 S10	E4 S10	E5 S10	E6 S10	E7 S10	E8 S10	E9 S10	E10 S10	E11 S10	E12 S10
E1 S11	E2 S11	E3 S11	E4 S11	E5 S11	E6 S11	E7 S11	E8 S11	E9 S11	E10 S11	E11 S11	E12 S11
E1 S12	E2 S12	E3 S12	E4 S12	E5 S12	E6 S12	E7 S12	E8 S12	E9 S12	E10 S12	E11 S12	E12 S12
E1 S13	E2 S13	E3 S13	E4 S13	E5 S13	E6 S13	E7 S13	E8 S13	E9 S13	E10 S13	E11 S13	E12 S13
E1 S14	E2 S14	E3 S14	E4 S14	E5 S14	E6 S14	E7 S14	E8 S14	E9 S14	E10 S14	E11 S14	E12 S14
E1 S15	E2 S15	E3 S15	E4 S15	E5 S15	E6 S15	E7 S15	E8 S15	E9 S15	E10 S15	E11 S15	E12 S15
E1 S16	E2 S16	E3 S16	E4 S16	E5 S16	E6 S16	E7 S16	E8 S16	E9 S16	E10 S16	E11 S16	E12 S16
E1 S17	E2 S17	E3 S17	E4 S17	E5 S17	E6 S17	E7 S17	E8 S17	E9 S17	E10 S17	E11 S17	E12 S17
E1 S18	E2 S18	E3 S18	E4 S18	E5 S18	E6 S18	E7 S18	E8 S18	E9 S18	E10 S18	E11 S18	E12 S18
E1 S19	E2 S19	E3 S19	E4 S19	E5 S19	E6 S19	E7 S19	E8 S19	E9 S19	E10 S19	E11 S19	E12 S19
E1 S20	E2 S20	E3 S20	E4 S20	E5 S20	E6 S20	E7 S20	E8 S20	E9 S20	E10 S20	E11 S20	E12 S20
E1 S21	E2 S21	E3 S21	E4 S21	E5 S21	E6 S21	E7 S21	E8 S21	E9 S21	E10 S21	E11 S21	E12 S21
E1 S22	E2 S22	E3 S22	E4 S22	E5 S22	E6 S22	E7 S22	E8 S22	E9 S22	E10 S22	E11 S22	E12 S22
E1 S23	E2 S23	E3 S23	E4 S23	E5 S23	E6 S23	E7 S23	E8 S23	E9 S23	E10 S23	E11 S23	E12 S23
E1 S24	E2 S24	E3 S24	E4 S24	E5 S24	E6 S24	E7 S24	E8 S24	E9 S24	E10 S24	E11 S24	E12 S24
E1 S25	E2 S25	E3 S25	E4 S25	E5 S25	E6 S25	E7 S25	E8 S25	E9 S25	E10 S25	E11 S25	E12 S25
E1 S26	E2 S26	E3 S26	E4 S26	E5 S26	E6 S26	E7 S26	E8 S26	E9 S26	E10 S26	E11 S26	E12 S26
E1 S27	E2 S27	E3 S27	E4 S27	E5 S27	E6 S27	E7 S27	E8 S27	E9 S27	E10 S27	E11 S27	E12 S27
E1 S28	E2 S28	E3 S28	E4 S28	E5 S28	E6 S28	E7 S28	E8 S28	E9 S28	E10 S28	E11 S28	E12 S28
E1 S29	E2 S29	E3 S29	E4 S29	E5 S29	E6 S29	E7 S29	E8 S29	E9 S29	E10 S29	E11 S29	E12 S29
E1 S30	E2 S30	E3 S30	E4 S30	E5 S30	E6 S30	E7 S30	E8 S30	E9 S30	E10 S30	E11 S30	E12 S30
E1 S31	E2 S31	E3 S31	E4 S31	E5 S31	E6 S31	E7 S31	E8 S31	E9 S31	E10 S31	E11 S31	E12 S31
E1 S32	E2 S32	E3 S32	E4 S32	E5 S32	E6 S32	E7 S32	E8 S32	E9 S32	E10 S32	E11 S32	E12 S32
E1 S33	E2 S33	E3 S33	E4 S33	E5 S33	E6 S33	E7 S33	E8 S33	E9 S33	E10 S33	E11 S33	E12 S33
E1 S34	E2 S34	E3 S34	E4 S34	E5 S34	E6 S34	E7 S34	E8 S34	E9 S34	E10 S34	E11 S34	E12 S34
E1 S35	E2 S35	E3 S35	E4 S35	E5 S35	E6 S35	E7 S35	E8 S35	E9 S35	E10 S35	E11 S35	E12 S35
E1 S36	E2 S36	E3 S36	E4 S36	E5 S36	E6 S36	E7 S36	E8 S36	E9 S36	E10 S36	E11 S36	E12 S36
E1 S37	E2 S37	E3 S37	E4 S37	E5 S37	E6 S37	E7 S37	E8 S37	E9 S37	E10 S37	E11 S37	E12 S37
E1 S38	E2 S38	E3 S38	E4 S38	E5 S38	E6 S38	E7 S38	E8 S38	E9 S38	E10 S38	E11 S38	E12 S38
E1 S39	E2 S39	E3 S39	E4 S39	E5 S39	E6 S39	E7 S39	E8 S39	E9 S39	E10 S39	E11 S39	E12 S39
E1 S40	E2 S40	E3 S40	E4 S40	E5 S40	E6 S40	E7 S40	E8 S40	E9 S40	E10 S40	E11 S40	E12 S40
E1 S41	E2 S41	E3 S41	E4 S41	E5 S41	E6 S41	E7 S41	E8 S41	E9 S41	E10 S41	E11 S41	E12 S41
E1 S42	E2 S42	E3 S42	E4 S42	E5 S42	E6 S42	E7 S42	E8 S42	E9 S42	E10 S42	E11 S42	E12 S42
E1 S43	E2 S43	E3 S43	E4 S43	E5 S43	E6 S43	E7 S43	E8 S43	E9 S43	E10 S43	E11 S43	E12 S43
E1 S44	E2 S44	E3 S44	E4 S44	E5 S44	E6 S44	E7 S44	E8 S44	E9 S44	E10 S44	E11 S44	E12 S44
E1 S45	E2 S45	E3 S45	E4 S45	E5 S45	E6 S45	E7 S45	E8 S45	E9 S45	E10 S45	E11 S45	E12 S45
E1 S46	E2 S46	E3 S46	E4 S46	E5 S46	E6 S46	E7 S46	E8 S46	E9 S46	E10 S46	E11 S46	E12 S46



LANG TOOL CO.		DESIGN BY BILL LANG
		DWG 8/31/2018
ISSUED ON DTE EAST CHINA BASIN VI	ISSUING NAME 8/31 ISS MIXING PROGRESS	SCALE N/A
		ISSUING NO. 8/31

Cells E4S47 & E3S48 in the West side had all of their material scrapped down to the good clay so we did not blend them.



The chart below was downloaded from the LTC Slurry Plant onboard computer. It shows the cell designation and the quantity of Portland cement delivered into the cell. Cells that have an A in front are in the Southeast Quadrant, cells that have a B in front are for the Southwest Quadrant

Date	Time	Cell	lb
8/31/2018	6:24:28 AM	BE2S30	6,760
8/31/2018	6:40:22 AM	BE2S31	7,140
8/31/2018	6:54:59 AM	BE2S32	7,430
8/31/2018	7:08:49 AM	BE2S33	7,210
8/31/2018	7:21:56 AM	BE2S34	7,260
8/31/2018	7:38:07 AM	BE2S35	7,180
8/31/2018	7:51:40 AM	BE2S36	7,230
8/31/2018	8:05:02 AM	BE2S37	7,270
8/31/2018	8:18:32 AM	BE2S38	7,470
8/31/2018	8:32:12 AM	BE2S39	7,460
8/31/2018	8:49:11 AM	BE2S40	7,540
8/31/2018	9:03:43 AM	BE2S41	8,110
8/31/2018	9:18:54 AM	BE2S42	8,240
8/31/2018	9:33:02 AM	BE2S43	7,810
8/31/2018	9:52:05 AM	BE2S44	7,590
8/31/2018	10:06:15 AM	BE2S45	7,560
8/31/2018	10:19:01 AM	BE2S46	6,940
8/31/2018	10:31:53 AM	BE2S47	6,850
8/31/2018	10:43:58 AM	BE2S48	5,620
8/31/2018	11:09:04 AM	BE1S1	5,340
8/31/2018	11:17:59 AM	BE1S2	5,020
8/31/2018	11:27:57 AM	BE1S3	5,320
8/31/2018	11:38:36 AM	BE1S4	5,900
8/31/2018	11:52:29 AM	BE1S5	6,130
8/31/2018	12:03:05 PM	BE1S6	5,710
8/31/2018	12:14:09 PM	BE1S7	5,800
8/31/2018	12:26:46 PM	BE1S8	5,710
8/31/2018	12:37:15 PM	BE1S9	5,620
8/31/2018	12:48:35 PM	BE1S10	6,280
8/31/2018	12:58:46 PM	BE1S11	5,540
8/31/2018	1:10:24 PM	BE1S12	5,660
8/31/2018	1:24:56 PM	BE1S13	5,590
8/31/2018	1:36:49 PM	BE1S14	5,480
		Total PC lbs	217,770

The chart below is a summary of the soil volume mixed and the quantity of Portland cement delivered to the site, on hand and used in the ISS operation. This information is taken from the Excel workbook created for this project and updated each work day.

PC Delivered to Site SE&SW	2,945,560	On Hand End of Day		Soil Volume Mixed	
Total PC Cell Qt'ys Sheet	2,787,223	Truck	24,960	Total	68,984.77
Total from Plant Scale	2,797,640	Silo 1	52,600	SE&SW Quad	21,844.04
PC Today Cell Qt'ys Sheet	217,436	Silo 2	29,470	NE Quad	20,939.07
Total NE Quad	3,020,020	Total	107,030	NW Quad	26,201.66
Total NW Quad	3,305,390	Plant + On Hand	2,904,670		0.00
	0	Error lb	40,890	yd^3 today	1,845.70
Total PC Tons	4,635.49	Error %	1.39%		

Lang Tool Co.

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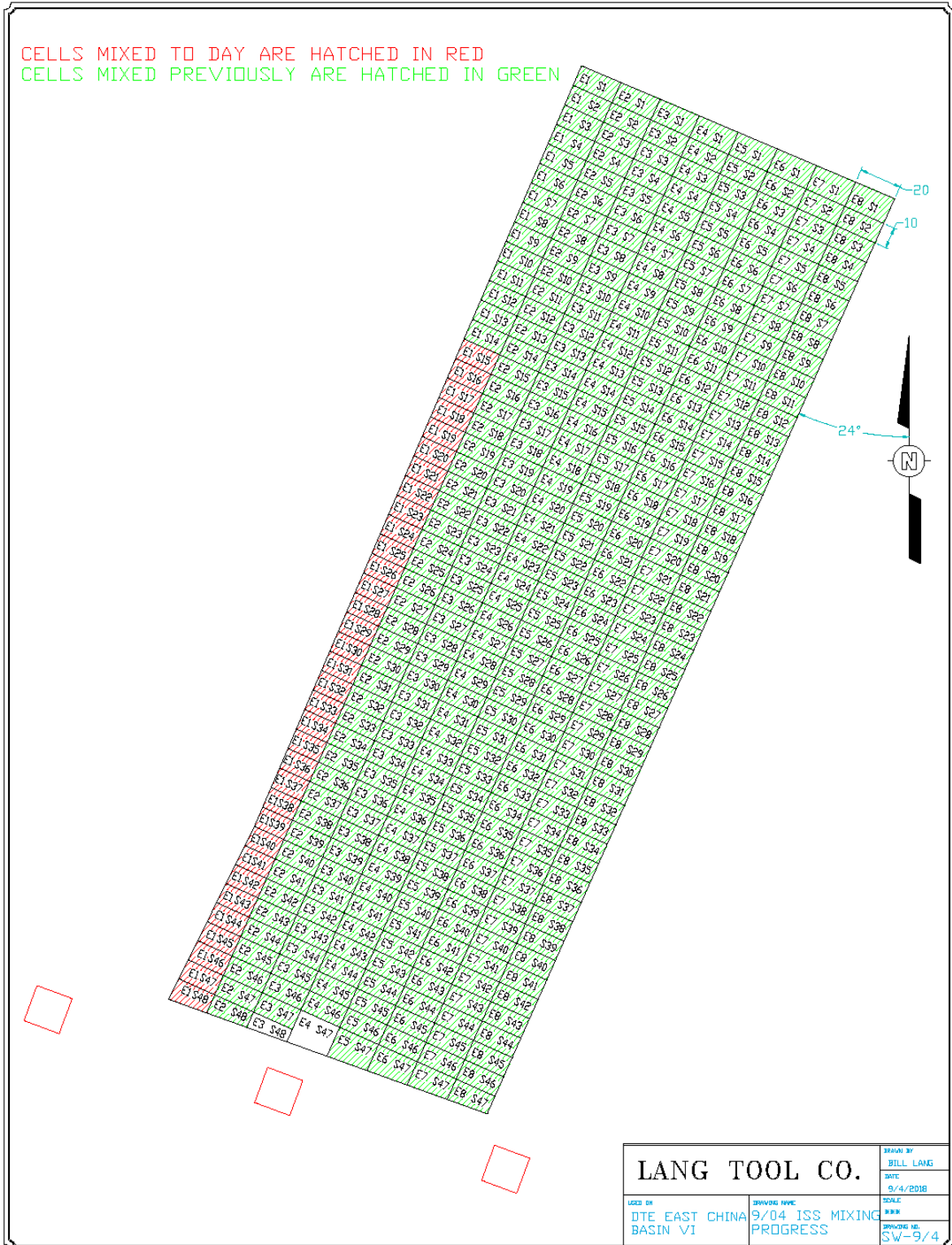
September 4, 2018
South

CELLS MIXED TODAY ARE HATCHED IN RED
PREVIOUSLY MIX CELLS ARE HATCHED IN GREEN

E1 S1	E2 S1	E3 S1	E4 S1	E5 S1	E6 S1	E7 S1	E8 S1	E9 S1	E10 S1	E11 S1	E12 S1
E1 S2	E2 S2	E3 S2	E4 S2	E5 S2	E6 S2	E7 S2	E8 S2	E9 S2	E10 S2	E11 S2	E12 S2
E1 S3	E2 S3	E3 S3	E4 S3	E5 S3	E6 S3	E7 S3	E8 S3	E9 S3	E10 S3	E11 S3	E12 S3
E1 S4	E2 S4	E3 S4	E4 S4	E5 S4	E6 S4	E7 S4	E8 S4	E9 S4	E10 S4	E11 S4	E12 S4
E1 S5	E2 S5	E3 S5	E4 S5	E5 S5	E6 S5	E7 S5	E8 S5	E9 S5	E10 S5	E11 S5	E12 S5
E1 S6	E2 S6	E3 S6	E4 S6	E5 S6	E6 S6	E7 S6	E8 S6	E9 S6	E10 S6	E11 S6	E12 S6
E1 S7	E2 S7	E3 S7	E4 S7	E5 S7	E6 S7	E7 S7	E8 S7	E9 S7	E10 S7	E11 S7	E12 S7
E1 S8	E2 S8	E3 S8	E4 S8	E5 S8	E6 S8	E7 S8	E8 S8	E9 S8	E10 S8	E11 S8	E12 S8
E1 S9	E2 S9	E3 S9	E4 S9	E5 S9	E6 S9	E7 S9	E8 S9	E9 S9	E10 S9	E11 S9	E12 S9
E1 S10	E2 S10	E3 S10	E4 S10	E5 S10	E6 S10	E7 S10	E8 S10	E9 S10	E10 S10	E11 S10	E12 S10
E1 S11	E2 S11	E3 S11	E4 S11	E5 S11	E6 S11	E7 S11	E8 S11	E9 S11	E10 S11	E11 S11	E12 S11
E1 S12	E2 S12	E3 S12	E4 S12	E5 S12	E6 S12	E7 S12	E8 S12	E9 S12	E10 S12	E11 S12	E12 S12
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E1 S41	E2 S41	E3 S41	E4 S41	E5 S41	E6 S41	E7 S41	E8 S41	E9 S41	E10 S41	E11 S41	E12 S41
E1 S42	E2 S42	E3 S42	E4 S42	E5 S42	E6 S42	E7 S42	E8 S42	E9 S42	E10 S42	E11 S42	E12 S42
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E1 S45	E2 S45	E3 S45	E4 S45	E5 S45	E6 S45	E7 S45	E8 S45	E9 S45	E10 S45	E11 S45	E12 S45
E1 S46	E2 S46	E3 S46	E4 S46	E5 S46	E6 S46	E7 S46	E8 S46	E9 S46	E10 S46	E11 S46	E12 S46

LANG TOOL CO.		DRAWN BY BILL LANG
USED ON DTE EAST CHINA BASIN VI		DATE 9/4/2018
DRAWING NAME 9/4 ISS MIXING PROGRESS		SCALE NONE
		DRAWING NO. 9/4

Cells E4S47 & E3S48 in the West side had all of their material scrapped down to the good clay so we did not blend them.



The chart below was downloaded from the LTC Slurry Plant onboard computer. It shows the cell designation and the quantity of Portland cement delivered into the cell. Cells that have an A in front are in the Southeast Quadrant, cells that have a B in front are for the Southwest Quadrant

Date	Time	Cell	lb	Time	Cell	lb
9/4/2018	6:46:32 AM	BE1S15	5,600	11:14:45 AM	BE1S40	4,160
9/4/2018	6:56:36 AM	BE1S16	5,550	11:29:54 AM	BE1S41	4,020
9/4/2018	7:07:05 AM	BE1S17	5,260	11:38:57 AM	BE1S42	4,070
9/4/2018	7:19:27 AM	BE1S18	5,290	11:48:42 AM	BE1S43	3,970
9/4/2018	7:29:39 AM	BE1S19	5,040	12:01:13 PM	BE1S44	4,030
9/4/2018	7:39:12 AM	BE1S20	4,870	12:12:04 PM	BE1S45	4,340
9/4/2018	7:49:29 AM	BE1S21	4,900	12:21:32 PM	BE1S46	4,450
9/4/2018	7:59:42 AM	BE1S22	4,800	12:33:33 PM	BE1S47	5,790
9/4/2018	8:13:43 AM	BE1S23	4,690	12:38:54 PM	BE1S48	2,700
9/4/2018	8:23:39 AM	BE1S24	4,630	1:03:51 PM	AE9S1	6,230
9/4/2018	8:34:33 AM	BE1S25	4,470	1:10:58 PM	AE9S2	3,660
9/4/2018	8:45:04 AM	BE1S26	4,380	1:19:13 PM	AE9S3	4,230
9/4/2018	8:55:33 AM	BE1S27	4,590	1:26:14 PM	AE9S4	3,980
9/4/2018	9:05:29 AM	BE1S28	4,700	1:34:26 PM	AE9S5	4,170
9/4/2018	9:17:56 AM	BE1S29	4,550	1:42:39 PM	AE9S6	4,310
9/4/2018	9:27:10 AM	BE1S30	4,600	1:51:09 PM	AE9S7	4,090
9/4/2018	9:37:42 AM	BE1S31	4,600	1:59:44 PM	AE9S8	4,050
9/4/2018	9:47:52 AM	BE1S32	4,750	2:09:19 PM	AE9S9	4,700
9/4/2018	10:00:42 AM	BE1S33	4,690	2:18:19 PM	AE9S10	4,360
9/4/2018	10:10:25 AM	BE1S34	4,560	2:28:20 PM	AE9S11	4,510
9/4/2018	10:19:36 AM	BE1S35	4,560	2:37:26 PM	AE9S12	4,410
9/4/2018	10:29:44 AM	BE1S36	4,340	2:45:40 PM	AE8S13	3,750
9/4/2018	10:41:12 AM	BE1S37	4,300	2:55:10 PM	AE8S14	4,640
9/4/2018	10:52:07 AM	BE1S38	4,390	3:04:14 PM	AE8S15	4,260
9/4/2018	11:04:16 AM	BE1S39	4,210			102,880
			118,320	Total PC lbs		221,200

The chart below is a summary of the soil volume mixed and the quantity of Portland cement delivered to the site, on hand and used in the ISS operation. This information is taken from the Excel workbook created for this project and updated each work day.

PC Delivered to Site SE&SW	3,137,860	On Hand End of Day		Soil Volume Mixed	
Total PC Cell Qt'ys Sheet	3,007,921	Truck	11,310	Total	70,988.30
Total from Plant Scale	3,018,840	Silo 1	8,120	SE&SW Quad	23,847.57
PC Today Cell Qt'ys Sheet	220,697	Silo 2	55,750	NE Quad	20,939.07
Total NE Quad	3,020,020	Total	75,180	NW Quad	26,201.66
Total NW Quad	3,305,390	Plant + On Hand	3,094,020		0.00
	0	Error lb	43,840	yd^3 today	2,003.52
Total PC Tons	4,731.64	Error %	1.40%		

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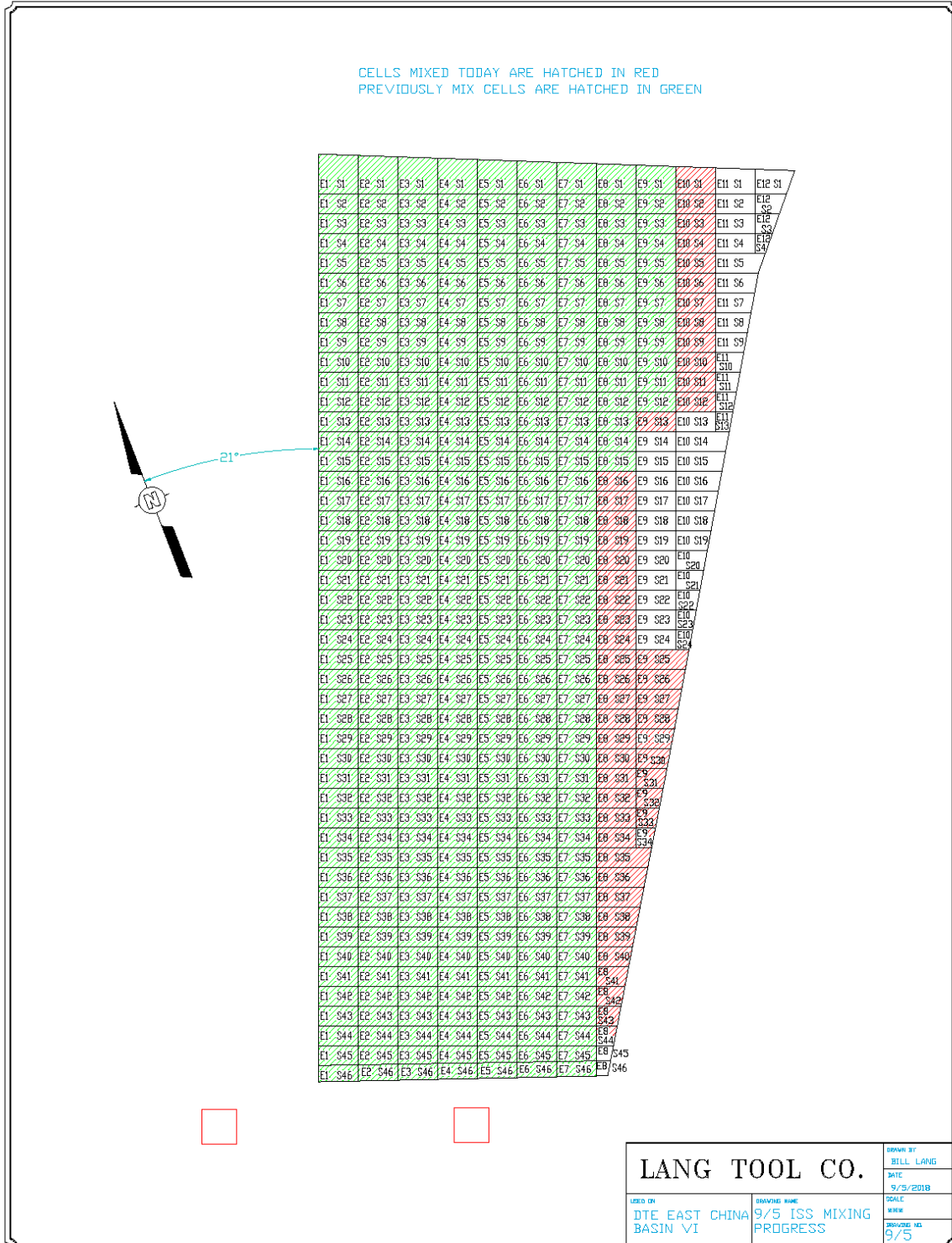
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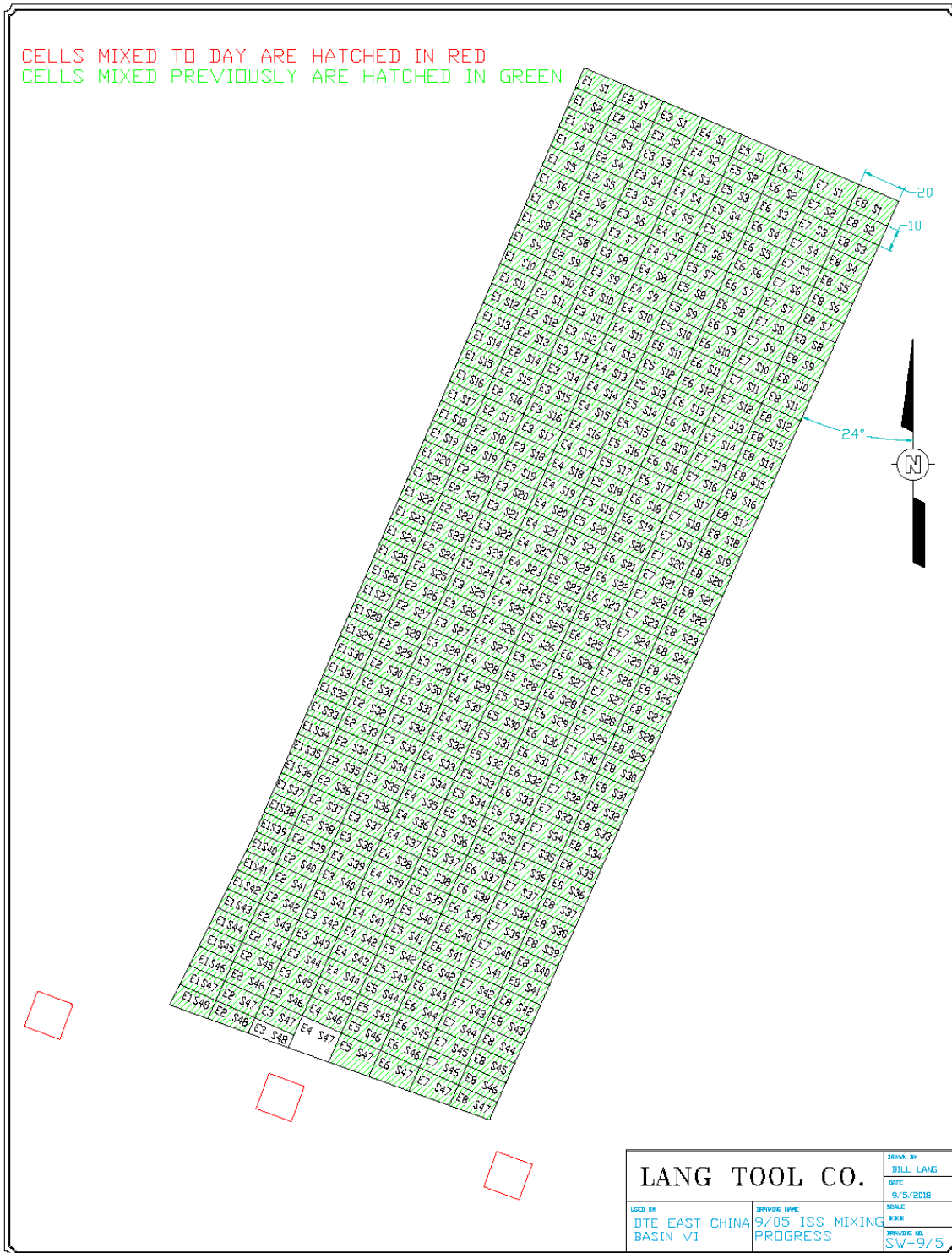
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September 5, 2018
South

Cells E8S45 & E8S46 in the East side had all of their material scrapped down to the good clay so we did not blend them.



Cells E4S47 & E3S48 in the West side had all of their material scrapped down to the good clay so we did not blend them.



The chart below was downloaded from the LTC Slurry Plant onboard computer. It shows the cell designation and the quantity of Portland cement delivered into the cell. Cells that have an A in front are in the Southeast Quadrant, cells that have a B in front are for the Southwest Quadrant

Date	Time	Cell	lb	Time	Cell	lb
9/5/2018	6:32:50 AM	AE8S16	5,070	10:21:37 AM	AE8S42	1,530
9/5/2018	6:42:36 AM	AE8S17	5,230	10:25:07 AM	AE8S43	1,290
9/5/2018	6:51:21 AM	AE8S18	4,800	10:28:05 AM	AE8S44	1,210
9/5/2018	7:00:25 AM	AE8S19	4,900	10:41:42 AM	AE9S25	1,760
9/5/2018	7:08:55 AM	AE8S20	4,350	10:45:19 AM	AE9S26	1,390
9/5/2018	7:17:27 AM	AE8S21	4,560	10:48:34 AM	AE9S27	1,340
9/5/2018	7:27:45 AM	AE8S22	4,360	10:51:30 AM	AE9S28	1,300
9/5/2018	7:37:41 AM	AE8S23	4,450	10:54:33 AM	AE9S29	1,160
9/5/2018	7:46:33 AM	AE8S24	4,070	10:57:55 AM	AE9S30	1,200
9/5/2018	7:57:01 AM	AE8S25	4,070	11:00:38 AM	AE9S31	1,120
9/5/2018	8:06:44 AM	AE8S26	3,950	11:03:18 AM	AE9S32	890
9/5/2018	8:18:33 AM	AE8S27	4,100	11:06:23 AM	AE9S33	910
9/5/2018	8:28:11 AM	AE8S28	3,990	11:08:54 AM	AE9S34	880
9/5/2018	8:37:41 AM	AE8S29	3,860	11:28:16 AM	AE10S1	5,610
9/5/2018	8:47:57 AM	AE8S30	3,940	11:48:04 AM	AE10S2	3,940
9/5/2018	8:58:38 AM	AE8S31	4,340	11:56:54 AM	AE10S3	4,110
9/5/2018	9:12:58 AM	AE8S32	3,860	12:04:31 PM	AE10S4	3,720
9/5/2018	9:22:57 AM	AE8S33	4,190	12:11:39 PM	AE10S5	3,630
9/5/2018	9:31:56 AM	AE8S34	4,140	12:18:37 PM	AE10S6	3,650
9/5/2018	9:42:14 AM	AE8S35	4,090	12:25:49 PM	AE10S7	3,670
9/5/2018	9:49:15 AM	AE8S36	2,040	12:32:55 PM	AE10S8	3,600
9/5/2018	9:57:19 AM	AE8S37	2,020	12:40:55 PM	AE10S9	4,400
9/5/2018	10:02:04 AM	AE8S38	2,000	12:49:06 PM	AE10S10	4,090
9/5/2018	10:06:28 AM	AE8S39	1,810	1:01:50 PM	AE10S11	4,360
9/5/2018	10:11:18 AM	AE8S40	1,810	1:11:16 PM	AE10S12	4,090
9/5/2018	10:15:14 AM	AE8S41	1,490	1:20:01 PM	AE9S13	3,640
			97,490			68,490
				Total PC lbs		165,980

The chart below is a summary of the soil volume mixed and the quantity of Portland cement delivered to the site, on hand and used in the ISS operation. This information is taken from the Excel workbook created for this project and updated each work day.

PC Delivered to Site SE&SW	3,283,340	On Hand End of Day		Soil Volume Mixed	
Total PC Cell Qt'ys Sheet	3,173,426	Truck	25,030	Total	72,336.74
Total from Plant Scale	3,184,820	Silo 1	120	SE&SW Quad	25,196.01
PC Today Cell Qt'ys Sheet	165,505	Silo 2	25,620	NE Quad	20,939.07
Total NE Quad	3,020,020	Total	50,770	NW Quad	26,201.66
Total NW Quad	3,305,390	Plant + On Hand	3,235,590		0.00
	0	Error lb	47,750	yd^3 today	1,348.44
Total PC Tons	4,804.38	Error %	1.45%		

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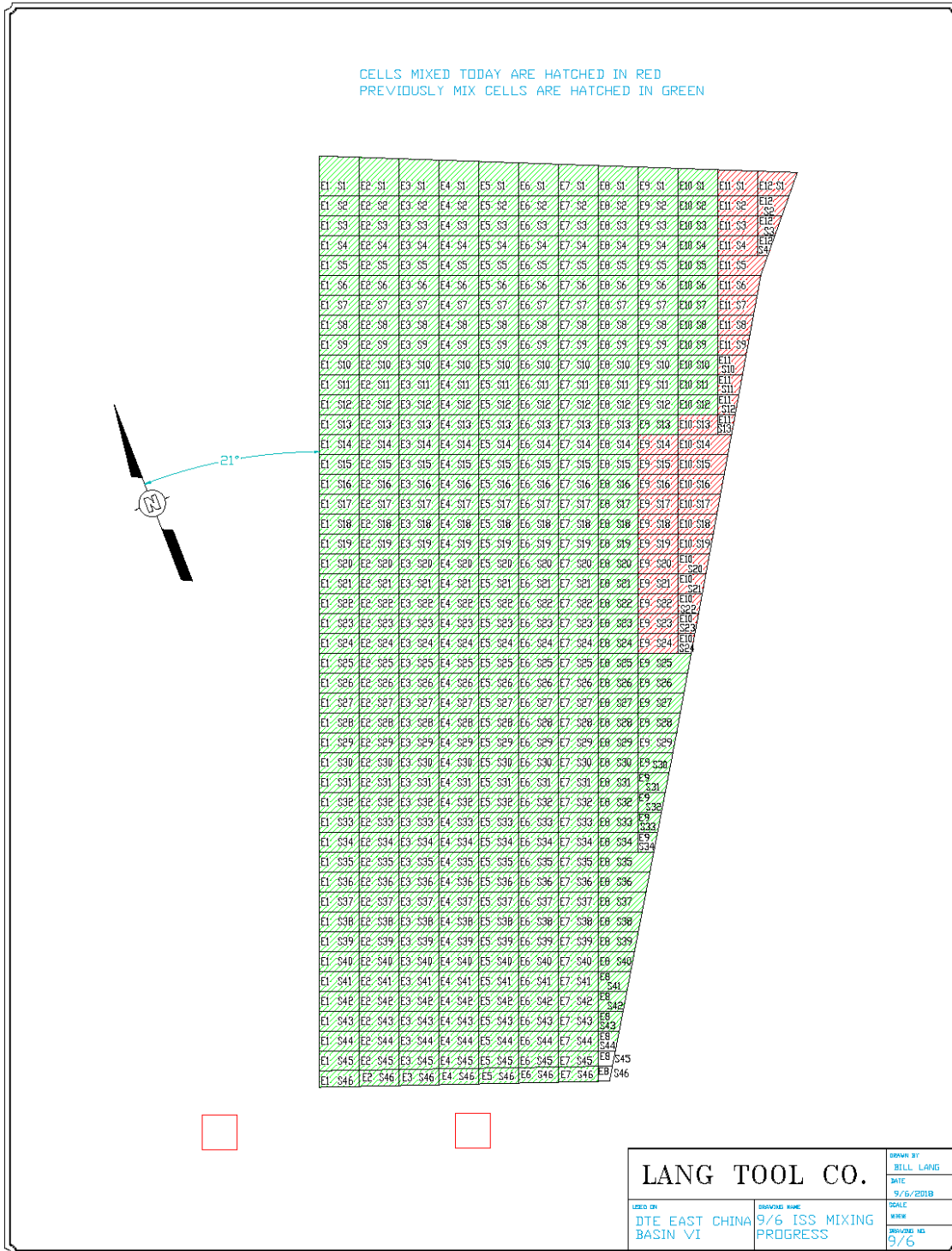
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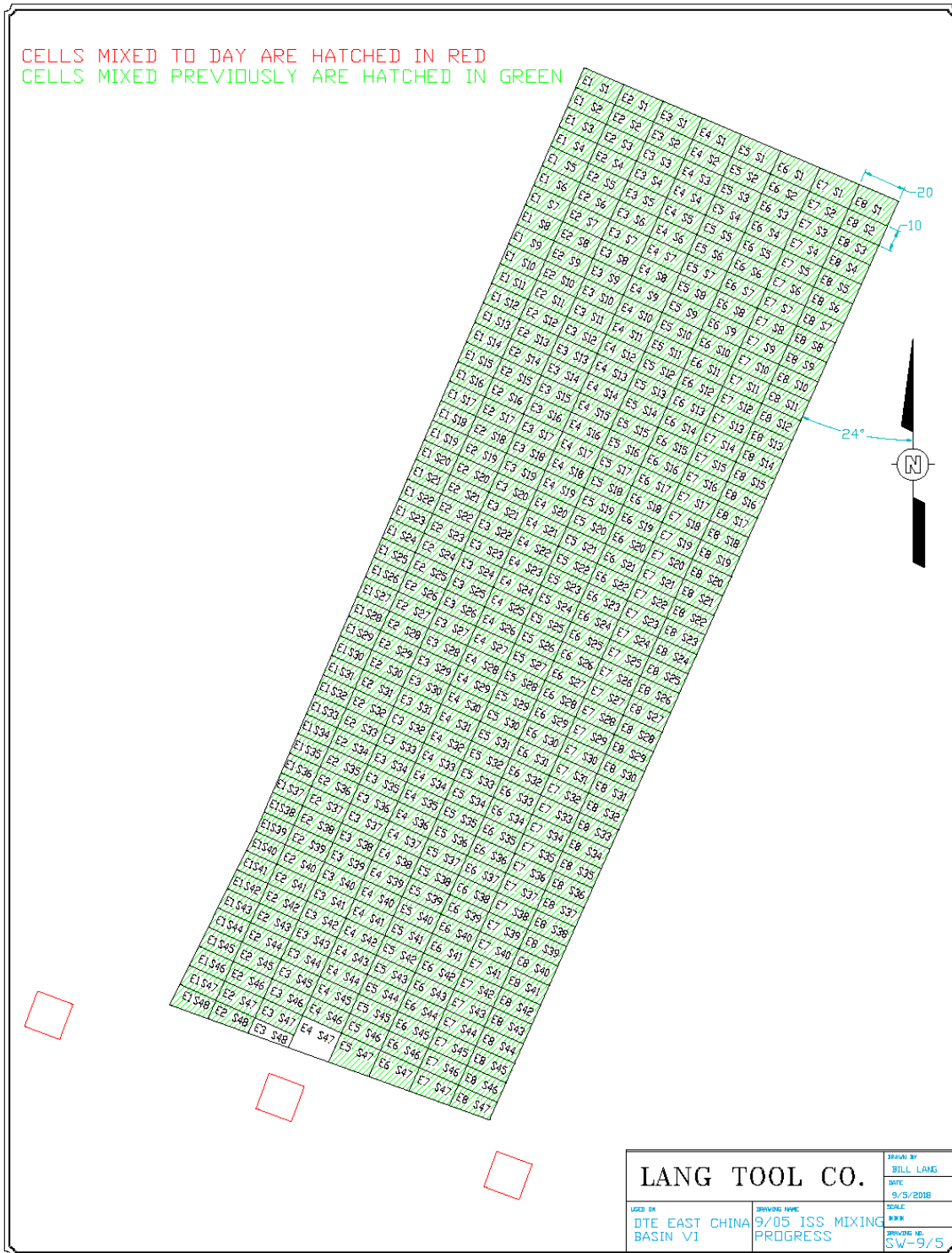
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September 6, 2018
South

Cells E8S45 & E8S46 in the East side had all of their material scrapped down to the good clay so we did not blend them.



Cells E4S47 & E3S48 in the West side had all of their material scrapped down to the good clay so we did not blend them.



The chart below was downloaded from the LTC Slurry Plant onboard computer. It shows the cell designation and the quantity of Portland cement delivered into the cell. Cells that have an A in front are in the Southeast Quadrant, cells that have a B in front are for the Southwest Quadrant

Date	Time	Cell	lb	Time	Cell	lb
9/6/2018	6:35:32 AM	AE9S14	4,490	9/6/2018	AE11S6	1,600
9/6/2018	6:43:18 AM	AE9S15	4,050	9/6/2018	AE11S7	1,090
9/6/2018	6:54:52 AM	AE9S16	4,800	9/6/2018	AE11S8	370
9/6/2018	7:03:40 AM	AE9S17	4,810	9/6/2018	AE11S9	380
9/6/2018	7:12:07 AM	AD9S18	4,880	9/6/2018	AE11S10	330
9/6/2018	7:21:13 AM	AE9S19	4,950	9/6/2018	AE11S11	300
9/6/2018	7:30:51 AM	AE9S20	5,020	9/6/2018	AE11S12	260
9/6/2018	7:39:36 AM	AE9S21	4,500	9/6/2018	AE11S13	280
9/6/2018	7:50:07 AM	AE9S22	4,020	9/6/2018	AE10S13	3,570
9/6/2018	7:58:19 AM	AE9S23	3,930	9/6/2018	AE10S14	500
9/6/2018	8:08:27 AM	AE9S24	3,660	9/6/2018	AE10S15	850
9/6/2018	8:14:38 AM	AE12S1	1,120	9/6/2018	AE10S16	1,380
9/6/2018	8:18:08 AM	AE12S2	690	9/6/2018	AE10S17	1,560
9/6/2018	8:20:44 AM	AE12S3	710	9/6/2018	AE10S18	1,210
9/6/2018	8:22:50 AM	AE12S4	540	9/6/2018	AE10S19	1,090
9/6/2018	8:33:04 AM	AE11S1	5,290	9/6/2018	AE10S20	860
9/6/2018	8:40:55 AM	AE11S2	4,410	9/6/2018	AE10S21	750
9/6/2018	8:50:09 AM	AE11S3	4,940	9/6/2018	AE10S22	650
9/6/2018	8:58:50 AM	AE11S4	4,660	9/6/2018	AE10S23	540
9/6/2018	9:02:48 AM	AE11S5	1,110	9/6/2018	AE10S24	440
			72,580			18,010
				Total PC lbs		90,590

The chart below is a summary of the soil volume mixed and the quantity of Portland cement delivered to the site, on hand and used in the ISS operation. This information is taken from the Excel workbook created for this project and updated each work day.

PC Delivered to Site SE&SW	3,326,320	On Hand End of Day		Soil Volume Mixed	
Total PC Cell Qt'ys Sheet	3,263,677	Truck	720	Total	73,074.84
Total from Plant Scale	3,275,410	Silo 1	120	SE&SW Quad	25,934.11
PC Today Cell Qt'ys Sheet	90,252	Silo 2	750	NE Quad	20,939.07
Total NE Quad	3,020,020	Total	1,590	NW Quad	26,201.66
Total NW Quad	3,305,390	Plant + On Hand	3,277,000		0.00
	0	Error lb	49,320	yd^3 today	738.10
Total PC Tons	4,825.87	Error %	1.48%		

Appendix C Project Photographs

Unit 6 Scrubber Basins Photographic Log



Photo 1: Northeast quadrant of Scrubber Basins after excavation – view looking southeast (access ramp visible in foreground removed at a later date)



Photo 2: Northeast quadrant after excavation (view looking north)



Photo 3: Northwest quadrant of Scrubber Basins after excavation (view looking southwest)



Photo 4: Excavation and soil-mixing underneath the coal conveyor in southwest quadrant (view looking west)

Unit 6 Scrubber Basins Photographic Log



Photo 5: Southeast quadrant after excavation is complete (view looking southeast)



Photo 6: Southeast quadrant after excavation is complete; view looking south towards pump house

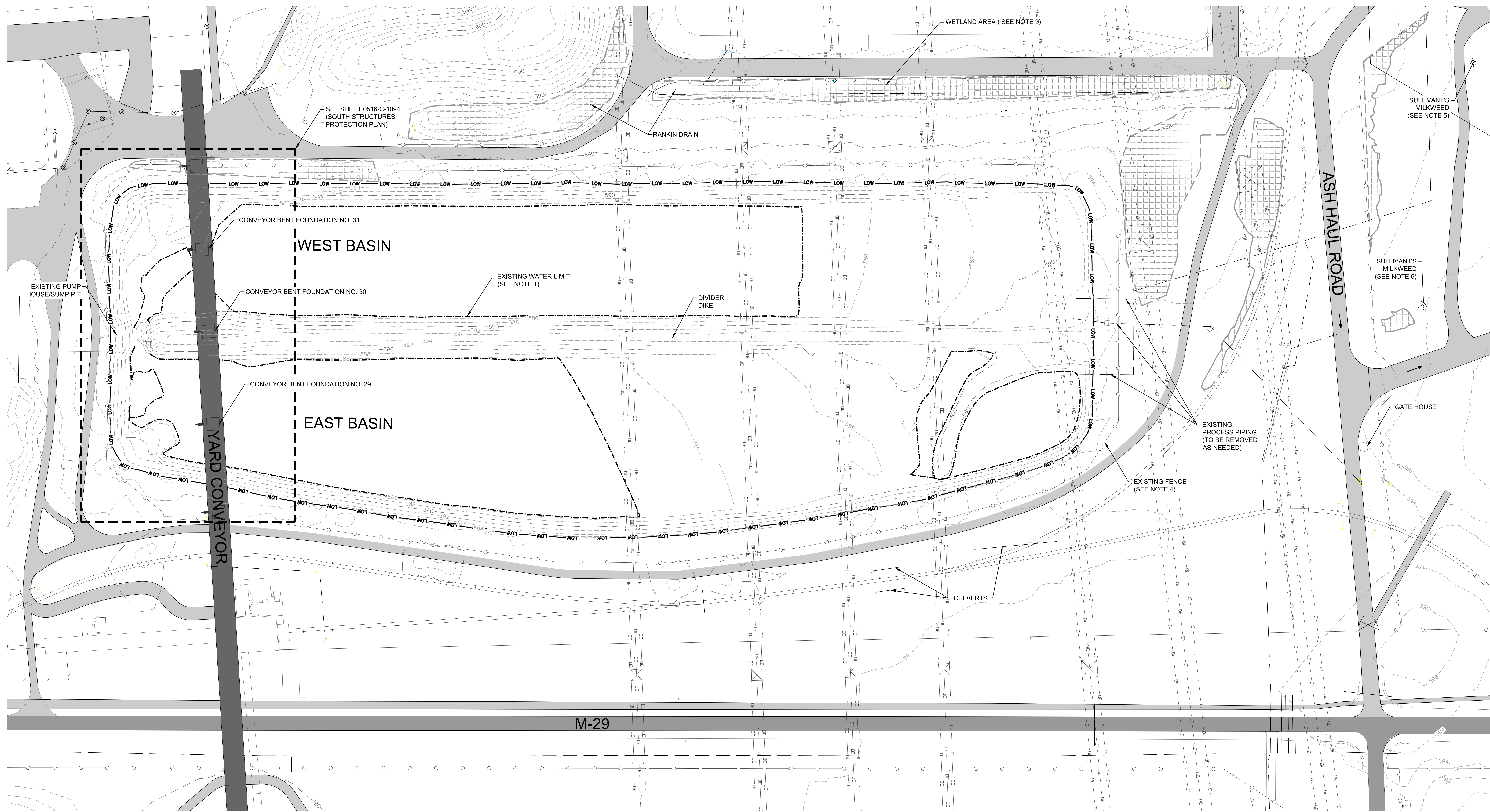
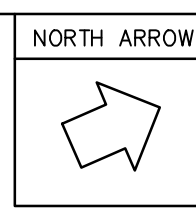


Photo 7: Southwest quadrant after excavation is complete (view looking southwest)



Photo 8: Southwest quadrant after excavation is complete (view looking southwest)

Appendix D As-Built Drawings and Volume Calculations



LEGEND

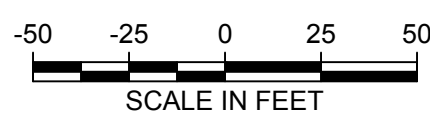
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- 448--- EXISTING MINOR CONTOUR
- EXISTING VEGETATION
- EXISTING FENCE
- EXISTING GRAVEL ROAD
- EXISTING PAVED ROAD
- EXISTING WATER LIMIT
- EXISTING RAIL LINES
- OVERHEAD ELECTRIC
- LOW --- LIMIT OF WASTE
- WETLAND AREA
- CONVEYOR FOUNDATION
- PROCESS PIPING

REFERENCES

1. SITE TOPOGRAPHICAL CONTOURS ARE A COMBINATION OF 'TOPOGRAPHIC SURVEY OF UNIT 6 WASTE DISPOSAL PONDS' BY DTE ENERGY'S SURVEYING SERVICES DATED 07/08/2015 AND U.S. GEOGRAPHICAL SURVEY DATA, 2013 FOR ST. CLAIR COUNTY, MI.
2. TOPOGRAPHY IS BASED UPON THE FOLLOWING PROJECTION AND DATUM: MICHIGAN STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, INTERNATIONAL FOOT. THE HORIZONTAL DATUM IS NAD 83 (2011). THE VERTICAL DATUM IS PLANT DATUM (AREA WITHIN THE LIMITS OF WASTE) NAVD88 (AREA OUTSIDE THE LIMITS OF WASTE).
3. REFERENCE DWGS FOR CONVEYOR FOUNDATIONS : 1258-C-0920, 1258-C-0921, 1258-C-0924, 1258-F08-1765.
4. REFERENCE DWGS FOR WETLAND AREA : FIGURE 1, SCPP SCRUBBER BASINS WETLAND REPORT, MAY 2, 2017.
5. REFERENCE DWG FOR OVERHEAD ELECTRIC LINES : 6SE 0516-023.
6. REFERENCE DWG FOR VERTICAL LIMITS OF CCR/HISTORIC DESIGN BOTTOM OF BASINS: 6C516-428 (REV. H).

NOTES

1. DTE ELECTRIC BEGAN PUMPING AND REMOVAL OF WATER FROM THE BASIN ON OR AROUND MAY 27, 2017. MECHANICAL INFORMATION ON PUMPS USED AND WATER LEVEL MEASUREMENTS TAKEN DURING PUMPING WILL BE PROVIDED TO THE CONTRACTOR.
2. THE LIMIT OF WASTE SHOWN IS APPROXIMATE AND BASED ON THE FURTHEST POSSIBLE ASSUMED EXTENT OF SLUDGE PLACEMENT IN THE BASIN. EXCAVATION OF SLUDGE AND CCR MATERIALS WILL CONTINUE, BOTH HORIZONTALLY AND VERTICALLY, UNTIL MATERIALS ARE COMPLETELY REMOVED AND VERIFIED BY THE ENGINEER.
3. WETLAND AREAS SHALL NOT BE IMPACTED DURING CONSTRUCTION. AS NECESSARY, CONTRACTOR SHALL INSTALL CONSTRUCTION FENCING TO ACT AS A PHYSICAL BARRIER TO WETLAND ACCESS IN AREAS WHERE CONSTRUCTION WORK IS ANTICIPATED.
4. EXISTING FENCE TO BE REMOVED AS NEEDED FOR CONSTRUCTION ACCESS ROAD. ALL FENCE REMOVED OR DAMAGED MUST BE REPLACED IN KIND.
5. CONTRACTOR SHALL INSTALL CONSTRUCTION FENCING AS DIRECTED BY DTE ENVIRONMENTAL STAFF AROUND THIS AREA TO PREVENT DAMAGE TO THIS ENVIRONMENTALLY SENSITIVE AREA.



DESIGN FILE NAME: 0516-C-1093
LATEST REVISION

5			
4			
3			
2	12/1/18	AS-BUILT	
1	10/18/17	ISSUED FOR CONSTRUCTION	
0	07/14/17	ISSUED FOR BID	
NO.	DATE	ISSUED FOR	PROJ. ENG. RESP. ENG.
PROJECT ENGINEER:		APPROVALS	
REVISION BLOCK - REV.			
Vendor:			



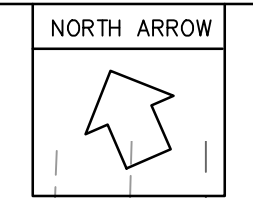
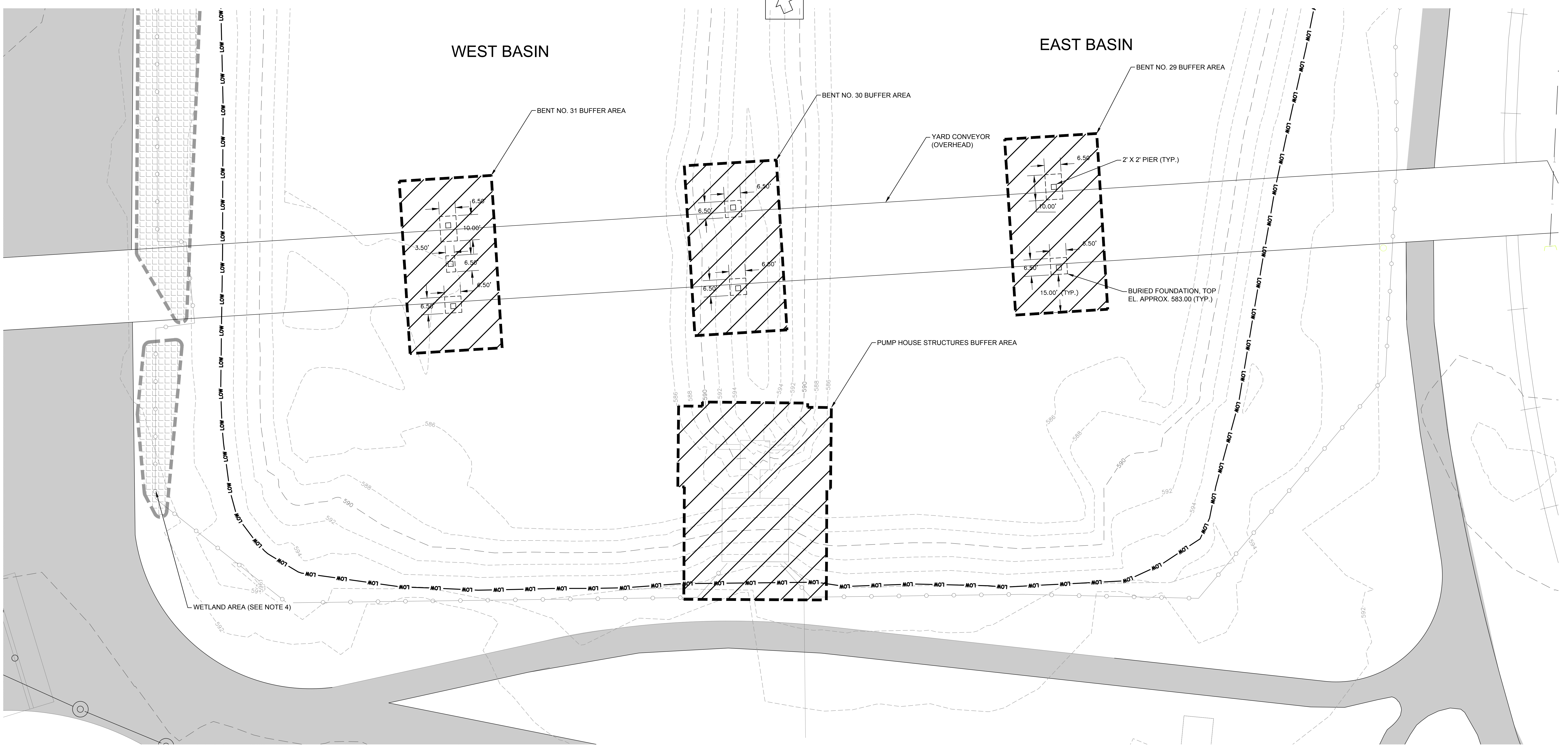
DTE Electric Company	
TITLE	
LAND IMPROVEMENT - CCR REMOVAL PROJECT	
EXISTING SITE PLAN	
LOCATION NAME	ST. CLAIR POWER PLANT
ORIGINATING SOURCE	SCALE AS SHOWN
DTE ELECTRIC COMPANY DRAWING NUMBER	0516-C-1093

THIS IS A CAD PRODUCED DRAWING. ANY CHANGES OR REVISIONS TO THIS DRAWING MUST BE COMPLETED USING THE CAD SYSTEM



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DTE ELECTRIC APPROVALS	DATE	OTHER APPROVALS	DATE	DESIGNED BY	DATE
FOR GEN. PROJ. ENG.		ARCH		AMR	07/14/2017
FOR GEN. PLANT ENG.		CIVL		AG	07/14/2017
DIST. ENG.		MCH		CHKD BY	DATE
PROJECT ENG.		ELEC		SSH	07/14/2017
ENG. COMP.		INC		APPROVED BY	DATE
				PROJECT ENGINEER	DATE
				PROJECT MANAGER	DATE



LEGEND

- 450--- EXISTING MAJOR CONTOUR
- 448--- EXISTING MINOR CONTOUR
- EXISTING VEGETATION
- EXISTING FENCE
- EXISTING GRAVEL ROAD
- EXISTING RAIL LINES
- LOW --- LIMIT OF WASTE
- WETLAND AREA
- CONVEYOR FOUNDATION/SUMP STRUCTURE 15' BUFFER ZONE

REFERENCES

1. SITE TOPOGRAPHICAL CONTOURS ARE A COMBINATION OF "TOPOGRAPHIC SURVEY OF UNIT 6 WASTE DISPOSAL PONDS" BY DTE ENERGY'S SURVEYING SERVICES DATED 07/08/2015 AND U.S. GEOGRAPHICAL SURVEY DATA, 2013 FOR ST. CLAIR COUNTY, MI.
2. TOPOGRAPHY IS BASED UPON THE FOLLOWING PROJECTION AND DATUM: MICHIGAN STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, INTERNATIONAL FOOT. THE HORIZONTAL DATUM IS NAD 83 (2011). THE VERTICAL DATUM IS: PLANT DATUM (AREA WITHIN THE LIMITS OF WASTE) NAVORS (AREA OUTSIDE THE LIMITS OF WASTE).
3. REFERENCE DWGS FOR CONVEYOR FOUNDATIONS : 1258-C-0920, 1258-C-0921, 1258-C-0924, 1258-F08-1765.
4. REFERENCE DWGS FOR WETLAND AREA : FIGURE 1, SCPP SCRUBBER BASINS WETLAND REPORT, MAY 2, 2017.
5. REFERENCE DWG FOR OVERHEAD ELECTRIC LINES : 6SE 0516-023.
6. REFERENCE DWG FOR VERTICAL LIMITS OF CCR/HISTORIC DESIGN BOTTOM OF BASINS: 6C516-428 (REV. H).
7. REFERENCE DWG FOR PUMPHOUSE : DTE DWG NO. 0516-MS-112.

NOTES

1. LOCATION OF STRUCTURES SHOWN IS APPROXIMATE. CONTRACTOR TO FIELD VERIFY, CONVEYOR FOUNDATIONS/PIERS LOCATIONS AND DIMENSIONS OBTAINED FROM DTE DWG NOS. 6C1258C-998-2 AND 6C1258C-924.
2. CONTRACTOR TO TAKE PRECAUTIONARY MEASURES TO PROTECT AND PREVENT DAMAGE TO ALL EXISTING STRUCTURES, INCLUDING SUMP/PUMP HOUSE, RETAINING WALLS, CONVEYOR FOUNDATIONS, PIERS, AND OVERHEAD CONVEYOR SUPERSTRUCTURE. CONTRACTOR SHALL SUBMIT A FOUNDATION PROTECTION PLAN IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS FOR REVIEW AND APPROVAL.
3. IT IS RECOMMENDED THAT EQUIPMENT NOT TRAVEL/PARK WITHIN 15 FEET OF THE STRUCTURES EXTENTS, AS SHOWN.
4. WETLAND AREAS SHALL NOT BE IMPACTED DURING CONSTRUCTION. AS NECESSARY, CONTRACTOR SHALL INSTALL CONSTRUCTION FENCING TO ACT AS A PHYSICAL BARRIER TO WETLAND ACCESS IN AREAS WHERE CONSTRUCTION WORK IS ANTICIPATED.

DESIGN FILE NAME: 0516-C-1094
LATEST REVISION

NO.	DATE	ISSUED FOR	PROJ. ENG.	RESP. ENG.
1	12/1/18	AS-BUILT		
2	10/18/17	ISSUED FOR CONSTRUCTION		
3	07/14/17	ISSUED FOR BID		

PROJECT ENGINEER: APPROVALS
REVISION BLOCK - REV.
Vendor:

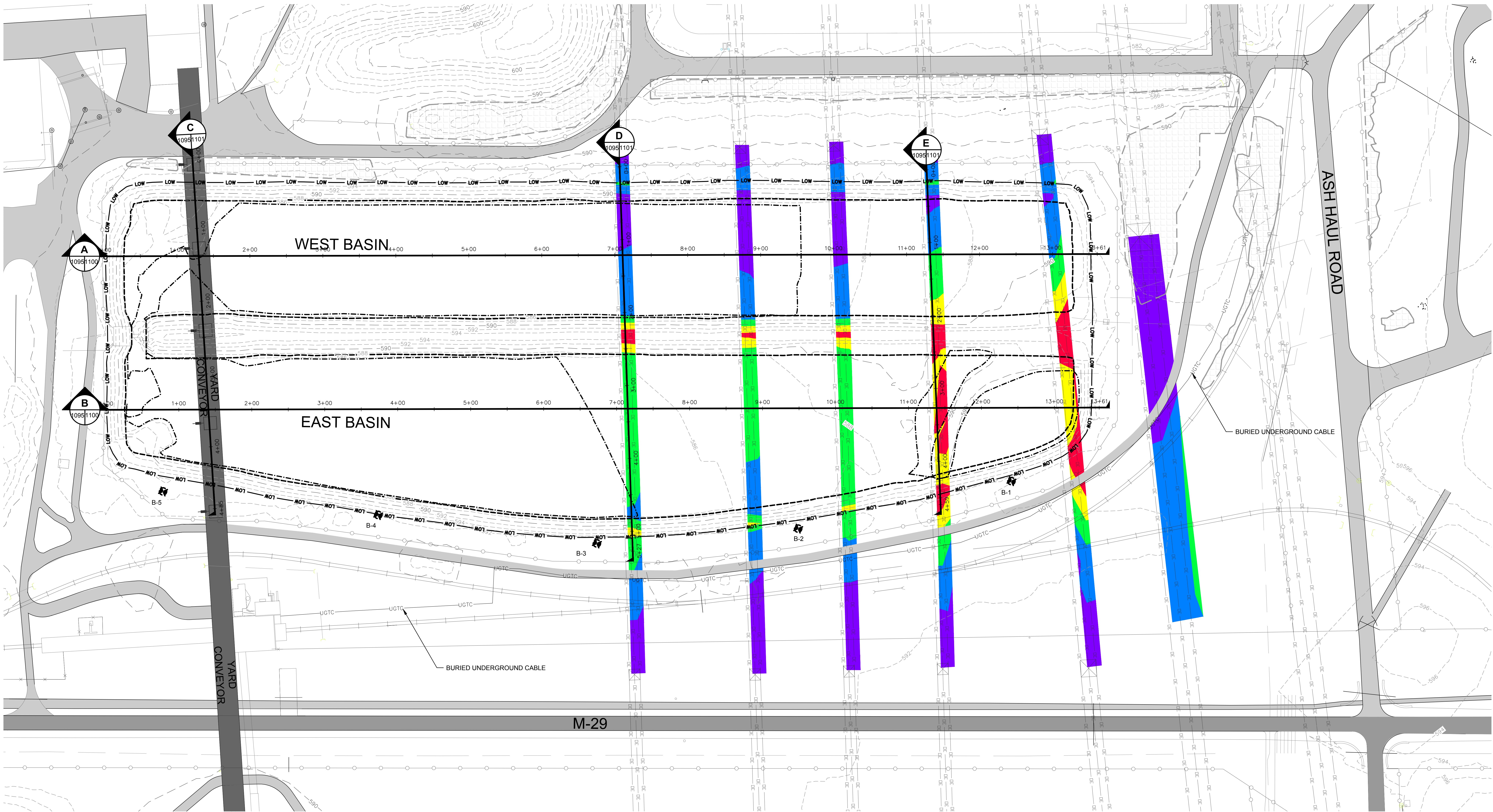
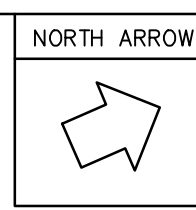


DTE Electric Company
TITLE
LAND IMPROVEMENT - CCR REMOVAL PROJECT
SOUTH STRUCTURES PROTECTION PLAN
LOCATION NAME: ST. CLAIR POWER PLANT
UNIT NUMBER
ORIGINATING SOURCE
SCALE: AS SHOWN
USE DIMENSIONS DO NOT SCALE
DTE ELECTRIC COMPANY DRAWING NUMBER: 0516-C-1094

THIS IS A CAD PRODUCED DRAWING. ANY CHANGES OR REVISIONS TO THIS DRAWING MUST BE COMPLETED USING THE CAD SYSTEM

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DTE ELECTRIC APPROVALS	DATE	OTHER APPROVALS	DATE	DESIGNED BY	DATE
FOR GEN. TECH. DRG.					
FOR GEN. PLANT ENG.					
DIST. ORP.					
PROJECT ENG.					
ENG. COMP.					



LEGEND

- 450--- EXISTING MAJOR CONTOUR
- 448--- EXISTING MINOR CONTOUR
- 450--- PROPOSED MAJOR CONTOUR
- 448--- PROPOSED MINOR CONTOUR
- ~~~~~ EXISTING VEGETATION
- EXISTING FENCE
- EXISTING GRAVEL ROAD
- EXISTING PAVED ROAD
- TOE OF SLOPE (ORIGINAL DESIGN)
- CONVEYOR FOUNDATION
- EXISTING RAIL LINES
- OVERHEAD ELECTRIC
- LIMIT OF WASTE
- WETLAND AREA
- PROCESS PIPING
- PROPOSED SOIL BORING/ MONITORING WELL LOCATION

NOTES

1. WETLAND AREAS SHALL NOT BE IMPACTED DURING CONSTRUCTION. AS NECESSARY, CONTRACTOR SHALL INSTALL CONSTRUCTION FENCING TO ACT AS A PHYSICAL BARRIER TO WETLAND ACCESS IN AREAS WHERE CONSTRUCTION WORK IS ANTICIPATED.
2. ALL PERSONNEL AND ANY PORTION OF CONSTRUCTION EQUIPMENT MUST MAINTAIN A MINIMUM 20-FOOT DISTANCE FROM OVERHEAD ELECTRIC LINES AT ALL TIMES. CONTRACTOR WILL UTILIZE A SPOTTER DURING ANY CONSTRUCTION OPERATIONS THAT ARE CLOSER THAN 40 FEET TO THE OVERHEAD ELECTRIC.
3. THE BELOW TABLE INDICATES A COLOR CODED SCHEME TO REPRESENT DIFFERENT RANGES OF DISTANCES/ELEVATIONS FROM GROUND LEVEL TO OVERHEAD ELECTRIC LINES. THE 20-FOOT ISOLATION DISTANCE HAS BEEN INCLUDED TO SHOW THE MINIMUM EXCLUSION DISTANCE FROM THE OVERHEAD LINES.

Elevations Table			
Number	Minimum Elevation	Maximum Elevation	Color
1	12.77	20.00	Red
2	20.00	24.00	Yellow
3	24.00	28.00	Green
4	28.00	32.00	Blue
5	32.00	52.05	Purple

SEE CROSS-SECTION SHEETS FOR AN ADDITIONAL VIEW OF HOW THE 20-FOOT AND 40-FOOT EXCLUSION DISTANCES APPLY IN THOSE AREAS.

REFERENCES

1. SITE TOPOGRAPHICAL CONTOURS ARE A COMBINATION OF TOPOGRAPHIC SURVEY OF UNIT 6 WASTE DISPOSAL PONDS BY DTE ENERGY'S SURVEYING SERVICES DATED 07/08/2015 AND U.S. GEOGRAPHICAL SURVEY DATA, 2013 FOR ST. CLAIR COUNTY, MI.
2. TOPOGRAPHY IS BASED UPON THE FOLLOWING PROJECTION AND DATUM: MICHIGAN STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, INTERNATIONAL FOOT. THE HORIZONTAL DATUM IS NAD 83 (2011). THE VERTICAL DATUM IS: PLANT DATUM (AREA WITHIN THE LIMITS OF WASTE) NAVD88 (AREA OUTSIDE THE LIMITS OF WASTE).
3. REFERENCE DWGS FOR CONVEYOR FOUNDATIONS : 1258-C-0920, 1258-C-0921, 1258-C-0924, 1258-F08-1765.
4. REFERENCE DWG FOR WETLAND AREA : FIGURE 1, SOCP SCRUBBER BASINS WETLAND REPORT, MAY 2, 2017.
5. REFERENCE DWG FOR OVERHEAD ELECTRIC LINES : 6SE 0516-023.
6. REFERENCE DWG FOR VERTICAL LIMITS OF CCR/HISTORIC DESIGN BOTTOM OF BASINS: 6C516-428 (REV. H).



DESIGN FILE NAME: 0516-C-1095
LATEST REVISION

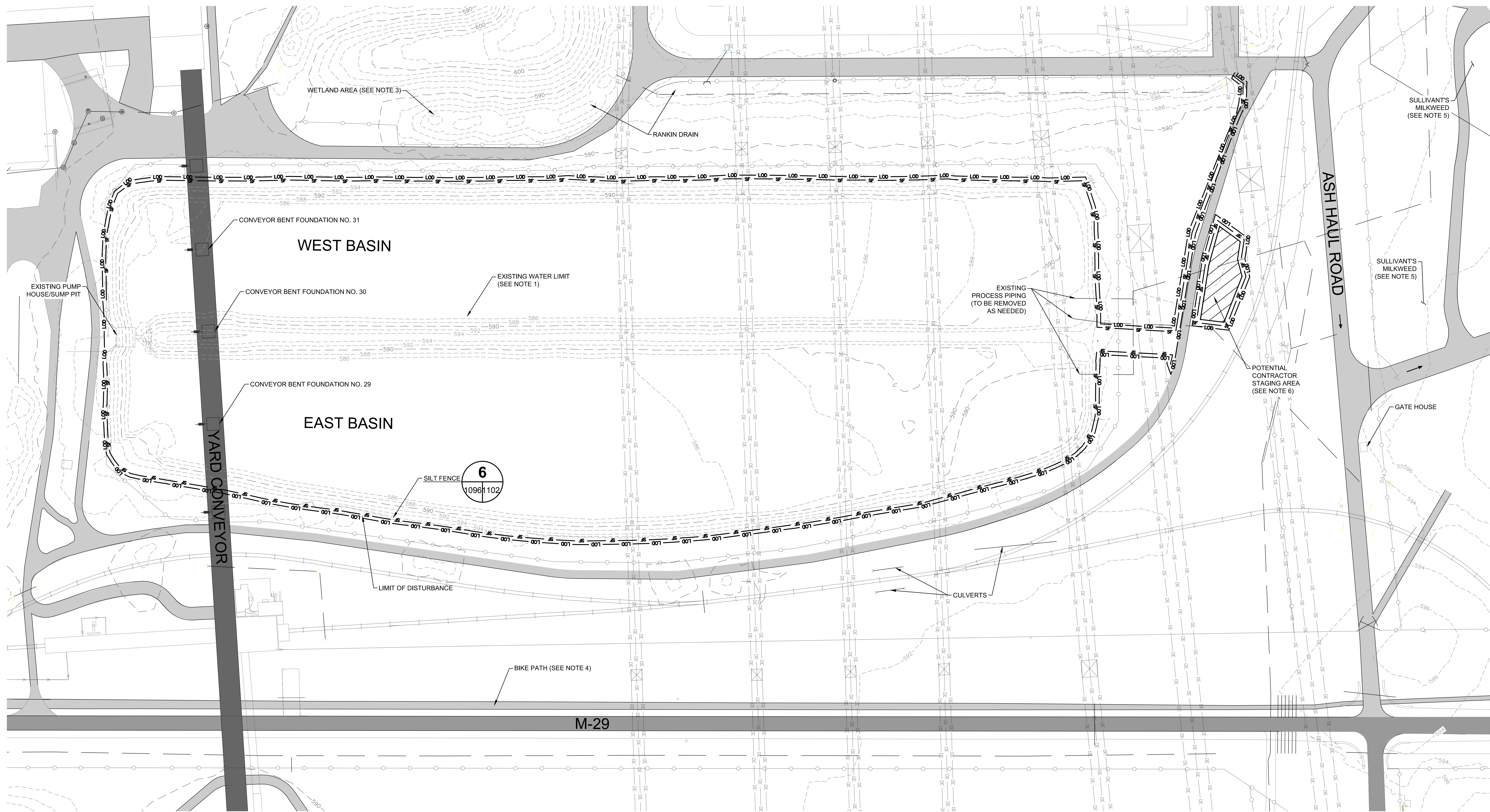
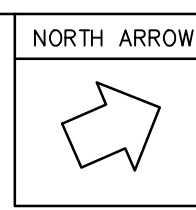
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1	10/18/17	ISSUED FOR CONSTRUCTION		
0	07/14/17	ISSUED FOR BID		
NO.	DATE	ISSUED FOR	PROJ. ENG.	RESP. ENG.
PROJECT ENGINEER:		APPROVALS		
REVISION BLOCK - REV.				
Vendor:				
AECOM				
DTE Electric Company				
TITLE				
LAND IMPROVEMENT - CCR REMOVAL PROJECT				
ELECTRICAL CLEARANCE AND INFORMATION PLAN				
LOCATION NAME			UNIT NUMBER	
ST. CLAIR POWER PLANT				
ORIGINATING SOURCE			SCALE	
DTE ELECTRIC COMPANY DRAWING NUMBER			AS SHOWN	
0516-C-1095			USE DIMENSIONS DO NOT SCALE	

THIS IS A CAD PRODUCED DRAWING. ANY CHANGES OR REVISIONS TO THIS DRAWING MUST BE COMPLETED USING THE CAD SYSTEM



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DTE ELECTRIC APPROVALS		DATE		OTHER APPROVALS		DATE	
DESIGNED BY	DATE	DESIGNED BY	DATE	DESIGNED BY	DATE	DESIGNED BY	DATE
DRWN BY	DATE	DRWN BY	DATE	DRWN BY	DATE	DRWN BY	DATE
CHKD BY	DATE	CHKD BY	DATE	CHKD BY	DATE	CHKD BY	DATE
APPD BY	DATE	APPD BY	DATE	APPD BY	DATE	APPD BY	DATE
PROJECT ENGINEER	DATE	PROJECT ENGINEER	DATE	PROJECT ENGINEER	DATE	PROJECT ENGINEER	DATE
PROJECT MANAGER	DATE	PROJECT MANAGER	DATE	PROJECT MANAGER	DATE	PROJECT MANAGER	DATE



LEGEND

- 450 --- EXISTING MAJOR CONTOUR
- 448 --- EXISTING MINOR CONTOUR
- --- EXISTING VEGETATION
- --- EXISTING FENCE
- --- EXISTING GRAVEL ROAD
- --- EXISTING PAVED ROAD
- --- EXISTING WATER LIMIT
- --- EXISTING RAIL LINES
- --- OVERHEAD ELECTRIC
- --- LIMIT OF WASTE
- --- WETLAND AREA
- --- CONVEYOR FOUNDATION
- --- SILT FENCE
- --- LIMIT OF DISTURBANCE
- --- PROCESS PIPING

REFERENCES

1. SITE TOPOGRAPHICAL CONTOURS ARE A COMBINATION OF "TOPOGRAPHIC SURVEY OF UNIT 6 WASTE DISPOSAL PONDS" BY DTE ENERGY'S SURVEYING SERVICES DATED 07/08/2015 AND U.S. GEOGRAPHICAL SURVEY DATA, 2013 FOR ST. CLAIR COUNTY, MI.
2. TOPOGRAPHY IS BASED UPON THE FOLLOWING PROJECTION AND DATUM: MICHIGAN STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, INTERNATIONAL FOOT. THE HORIZONTAL DATUM IS NAD 83 (2011). THE VERTICAL DATUM IS PLANT DATUM (AREA WITHIN THE LIMITS OF WASTE) NAVD88 (AREA OUTSIDE THE LIMITS OF WASTE).
3. REFERENCE DWGS FOR CONVEYOR FOUNDATIONS : 1258-C-0920, 1258-C-0921, 1258-C-0924, 1258-F08-1765.
4. REFERENCE DWGS FOR WETLAND AREA : FIGURE 1, SCPP SCRUBBER BASINS WETLAND REPORT, MAY 2, 2017.
5. REFERENCE DWG FOR OVERHEAD ELECTRIC LINES : 6SE 0516-023.
6. REFERENCE DWG FOR VERTICAL LIMITS OF CCR/HISTORIC DESIGN BOTTOM OF BASINS: 6CS16-428 (REV. H).

NOTES

1. DTE BEGAN PUMPING AND REMOVAL OF WATER FROM THE BASIN ON OR AROUND MAY 27, 2017. MECHANICAL INFORMATION ON PUMPS USED AND WATER LEVEL MEASUREMENTS TAKEN DURING PUMPING WILL BE PROVIDED TO THE CONTRACTOR.
2. THE LIMIT OF WASTE SHOWN IS APPROXIMATE AND BASED ON THE FURTHEST POSSIBLE ASSUMED EXTENT OF SLUDGE PLACEMENT IN THE BASIN. EXCAVATION OF SLUDGE AND CCR MATERIALS WILL CONTINUE, BOTH HORIZONTALLY AND VERTICALLY, UNTIL MATERIALS ARE COMPLETELY REMOVED AND VERIFIED BY THE ENGINEER.
3. WETLAND AREAS SHALL NOT BE IMPACTED DURING CONSTRUCTION, AS NECESSARY, CONTRACTOR SHALL INSTALL CONSTRUCTION FENCING TO ACT AS A PHYSICAL BARRIER TO WETLAND ACCESS IN AREAS WHERE CONSTRUCTION WORK IS ANTICIPATED.
4. CONTRACTOR WILL MAKE EVERY EFFORT IN COMPLIANCE WITH THE FACILITY FUGITIVE DUST PLAN TO ENSURE THAT DUST DOES NOT NEGATIVELY IMPACT THE PUBLIC TRAVELLING ON THE BIKE PATH PARALLEL TO M-29.
5. CONTRACTOR SHALL INSTALL CONSTRUCTION FENCING AS DIRECTED BY DTE ENVIRONMENTAL STAFF AROUND THIS AREA TO PREVENT DAMAGE TO THIS ENVIRONMENTALLY SENSITIVE AREA.
6. IF CONTRACTOR NEEDS ADDITIONAL STAGING AREAS, THEY WILL EITHER HAVE TO BE ESTABLISHED INSIDE OF THE SCRUBBER BASIN LIMITS OR IN AN AREA THAT HAS BEEN APPROVED BY THE DTE ENVIRONMENTAL GROUP.



DESIGN FILE NAME: 0516-C-1096
LATEST REVISION

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2	12/1/18	AS-BUILT			
1	10/18/17	ISSUED FOR CONSTRUCTION			
0	07/14/17	ISSUED FOR BID			
NO.	DATE	ISSUED FOR	PROJ. ENG.	RESP. ENG.	
PROJECT ENGINEER:			APPROVALS		
REVISION BLOCK - REV.					
Vendor:					



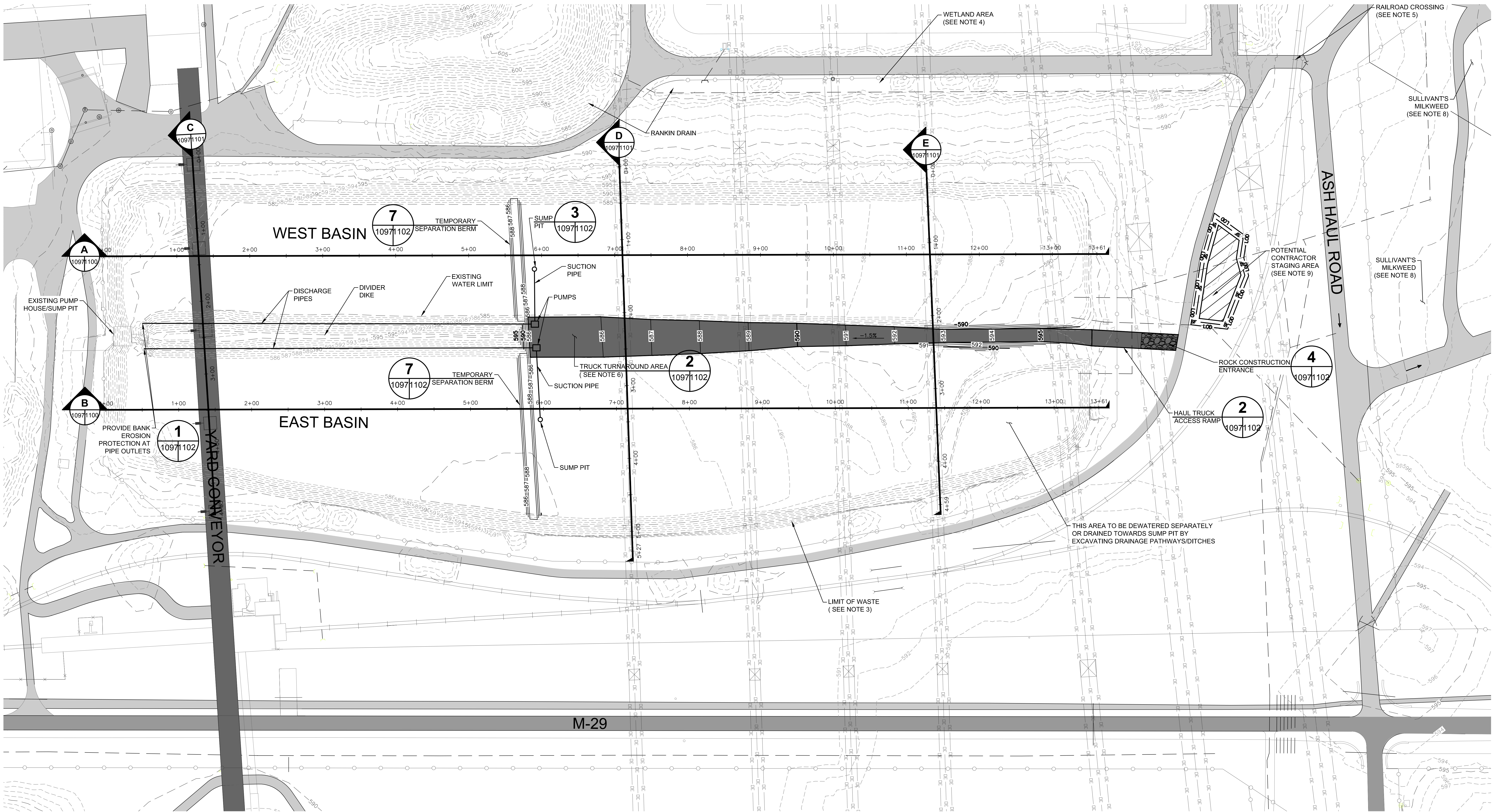
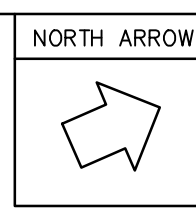
DTE Electric Company
 TITLE
LAND IMPROVEMENT - CCR REMOVAL PROJECT
EROSION AND SEDIMENT CONTROL PLAN
 LOCATION NAME: ST. CLAIR POWER PLANT UNIT NUMBER
 ORIGINATING SOURCE: SCALE: AS SHOWN USE DIMENSIONS DO NOT SCALE
 DTE ELECTRIC COMPANY DRAWING NUMBER: 0516-C-1096

THIS IS A CAD PRODUCED DRAWING. ANY CHANGES OR REVISIONS TO THIS DRAWING MUST BE COMPLETED USING THE CAD SYSTEM



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DTE ELECTRIC APPROVALS		OTHER APPROVALS		DESIGNED BY		DATE	
DESIGNER	DATE	DESIGNER	DATE	DESIGNER	DATE	DESIGNER	DATE
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APP BY	DATE	APP BY	DATE	APP BY	DATE	APP BY	DATE
PROJ ENGR	DATE	PROJ ENGR	DATE	PROJ ENGR	DATE	PROJ ENGR	DATE
PROJ MGR	DATE	PROJ MGR	DATE	PROJ MGR	DATE	PROJ MGR	DATE



LEGEND

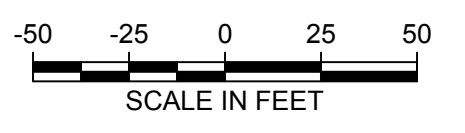
- 450--- EXISTING MAJOR CONTOUR
---448--- EXISTING MINOR CONTOUR
---450--- PROPOSED MAJOR CONTOUR
---448--- PROPOSED MINOR CONTOUR
Wavy line EXISTING VEGETATION
Dashed line EXISTING FENCE
Grey rectangle EXISTING GRAVEL ROAD
Dark grey rectangle EXISTING PAVED ROAD
Dashed line TOE OF SLOPE (ORIGINAL DESIGN)
Square with cross CONVEYOR FOUNDATION
Line with cross OVERHEAD ELECTRIC
Line with cross LIMIT OF WASTE
Wavy line WETLAND AREA
Grey rectangle PROPOSED ACCESS ROAD
Line with cross PROCESS PIPING

REFERENCES

- 1. SITE TOPOGRAPHICAL CONTOURS ARE A COMBINATION OF 'TOPOGRAPHIC SURVEY OF UNIT 6 WASTE DISPOSAL PONDS' BY DTE ENERGY'S SURVEYING SERVICES AND U.S. GEOGRAPHICAL SURVEY DATA, 2013 FOR ST. CLAIR COUNTY, MI.
2. TOPOGRAPHY IS BASED UPON THE FOLLOWING PROJECTION AND DATUM: MICHIGAN STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, INTERNATIONAL FOOT. THE HORIZONTAL DATUM IS NAD 83 (2011). THE VERTICAL DATUM IS PLANT DATUM (AREA WITHIN THE LIMITS OF WASTE) NAVD88 (AREA OUTSIDE THE LIMITS OF WASTE).
3. REFERENCE DWGS FOR CONVEYOR FOUNDATIONS: 1258-C-0920, 1258-C-0921, 1258-C-0924, 1258-F08-1765.
4. REFERENCE DWGS FOR WETLAND AREA: FIGURE 1, SCPP SCRUBBER BASINS WETLAND REPORT, MAY 2, 2017.
5. REFERENCE DWG FOR OVERHEAD ELECTRIC LINES: 6SE 0516-023.
6. REFERENCE DWG FOR VERTICAL LIMITS OF CCR/HISTORIC DESIGN BOTTOM OF BASINS: 6C516-428 (REV. H).

NOTES

- 1. THE PROPOSED GRADING AND DEWATERING CONFIGURATION SHOWN REPRESENT A SUGGESTED APPROACH TO ACCOMPLISH THE FIRST PHASE OF THE PROJECT. DEWATERING OF THE SOUTH PORTIONS OF THE BASINS (PHASE 2) MUST BE DONE IN COORDINATION WITH THE OWNER. IT IS STRONGLY ENCOURAGED THAT THIS PROCESS BEGIN EARLY IN THE PROJECT, DURING THE FIRST PHASE OF CCR REMOVAL. ADDITIONAL SUMP PITS, SUCTION PIPES, PUMPS, DISCHARGE PIPES, AND EXCAVATION OF DRAINAGE PATHWAYS/DITCHES MAY BE NECESSARY. THE CONTRACTOR SHALL SUBMIT A DETAILED WORK PLAN TO CAPTURE THESE ELEMENTS AND MODIFY THEM AS NEEDED TO COMPLETE THE PROJECT IN THE MOST EFFICIENT MANNER POSSIBLE.
2. THE GRADING SHOWN RESULTS IN 3,352 CY CUT (ACCESS RAMP) AND 621 CY FILL (TEMP. SEPARATION BERM). THE EXCAVATED MATERIAL MAY BE USED TO BUILD THE TEMPORARY SEPARATION BERMS AND/OR AS ADMIXTURE MATERIAL TO STABILIZE THE CCR MATERIAL FOR DISPOSAL. THE EXCAVATED MATERIAL SHALL BE CONSIDERED CONTAMINATED WITH CCR MATERIAL.
3. THE LIMIT OF WASTE SHOWN IS APPROXIMATE AND BASED ON THE FURTHEST POSSIBLE ASSUMED EXTENT OF SLUDGE PLACEMENT IN THE BASIN. EXCAVATION OF SLUDGE AND CCR MATERIALS WILL CONTINUE, BOTH HORIZONTALLY AND VERTICALLY, UNTIL MATERIALS ARE COMPLETELY REMOVED AND VERIFIED BY THE ENGINEER.
4. WETLAND AREAS SHALL NOT BE IMPACTED DURING CONSTRUCTION. AS NECESSARY, CONTRACTOR SHALL INSTALL CONSTRUCTION FENCING TO ACT AS A PHYSICAL BARRIER TO WETLAND ACCESS IN AREAS WHERE CONSTRUCTION WORK IS ANTICIPATED.
5. CONTRACTOR WILL PROTECT THE EXISTING RAILROAD CROSSING FROM DAMAGE DUE TO HAULING OF EXCAVATED MATERIALS. THIS RAILROAD LINE IS ACTIVE AND CONTRACTOR MAY EXPERIENCE DELAYS DUE TO THE ARRIVAL AND DEPARTURE OF TRAINS TO THE PLANT.
6. TRUCK TURNAROUND AREA LAYOUT IS CONCEPTUAL; CONTRACTOR SHALL INSTALL IN THE MANNER THAT PROVIDES FOR SAFETY AND CONSTRUCTION OPERATIONS. CONTRACTOR SHALL PERFORM ANY GEOTECHNICAL TESTING NECESSARY TO ENSURE THAT EXISTING BERM MATERIALS ARE SUITABLE FOR TRUCK AND CONSTRUCTION TRAFFIC. CONTRACTOR SHALL IMPORT MATERIALS AS NEEDED.
7. ANY MATERIAL STAGED, INSTALLED, OR IMPORTED INTO THE BASINS DURING CONSTRUCTION WILL BE REMOVED BY THE CONTRACTOR AT THE END OF THE PROJECT. EXCEPTIONS ARE PERMANENT EROSION CONTROL MEASURES (RIPRAP AND VEGETATION) AND THE HAUL TRUCK ACCESS RAMP, TRUCK TURNAROUND AND GRAVEL PUMP PAD.
8. CONTRACTOR SHALL INSTALL CONSTRUCTION FENCING AS DIRECTED BY DTE ENVIRONMENTAL STAFF AROUND THIS AREA TO PREVENT DAMAGE TO THIS ENVIRONMENTALLY SENSITIVE AREA.
9. IF CONTRACTOR NEEDS ADDITIONAL STAGING AREAS, THEY WILL EITHER HAVE TO BE ESTABLISHED INSIDE OF THE SCRUBBER BASIN LIMITS OR IN AN AREA THAT HAS BEEN APPROVED BY THE DTE ENVIRONMENTAL GROUP.



DESIGN FILE NAME: 0516-C-1097
LATEST REVISION

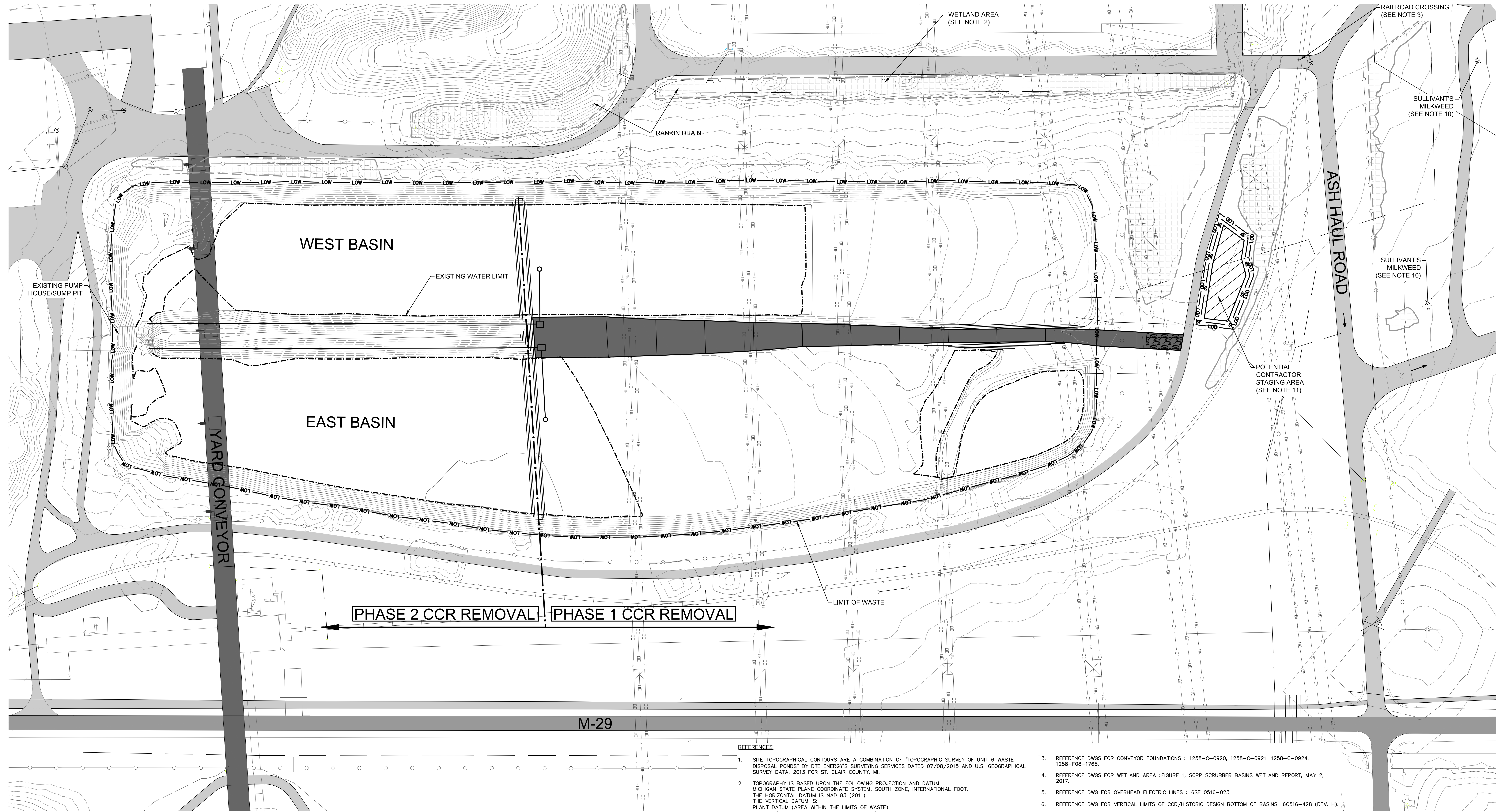
Table with columns for NO., DATE, ISSUED FOR, and APPROVALS. Includes AECOM logo and project title: LAND IMPROVEMENT - CCR REMOVAL PROJECT SITE PREPARATION AND DEWATERING PLAN.

Approval table with columns for PROLENG., PROLDGR., and various engineering disciplines (ARCH-CIVIL, ELEC., IBC, MECH., CIVIL, ENG.) across grid lines J through A.

THIS IS A CAD PRODUCED DRAWING. ANY CHANGES OR REVISIONS TO THIS DRAWING MUST BE COMPLETED USING THE CAD SYSTEM



DTE Electric Company
LAND IMPROVEMENT - CCR REMOVAL PROJECT
SITE PREPARATION AND DEWATERING PLAN
ST. CLAIR POWER PLANT
DTE ELECTRIC COMPANY DRAWING NUMBER 0516-C-1097



- LEGEND**
- 450--- EXISTING MAJOR CONTOUR
 - 448--- EXISTING MINOR CONTOUR
 - 450--- PROPOSED MAJOR CONTOUR
 - 448--- PROPOSED MINOR CONTOUR
 - EXISTING VEGETATION
 - EXISTING FENCE
 - EXISTING GRAVEL ROAD
 - EXISTING PAVED ROAD
 - TOE OF SLOPE (ORIGINAL DESIGN)
 - CONVEYOR FOUNDATION
 - EXISTING RAIL LINES
 - OC --- OVERHEAD ELECTRIC
 - LOW --- LIMIT OF WASTE
 - WETLAND AREA
 - PROPOSED ACCESS ROAD
 - PROCESS PIPING

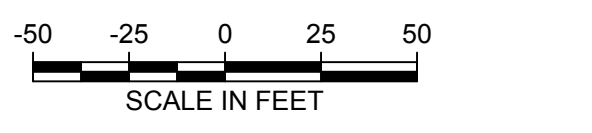
**TABLE 1 - LAB RESULTS SUMMARY
DTE STCPP SCRUBBER ASH BASIN REMOVAL
NTH PROJ. 62-160364-01**

Descriptor	Detailed Description	Moisture Content (%)	Paint Filter Test (1)	Ash Content (%)	Organic Content (%)	Specific Gravity	Dry Density (pcf)	Unconfined Compressive Strength (psf)	Direct Shear ⁽¹⁾	Gravel (%)					Silt and Clay (%)		Liquid Limit	Plastic Index
										Gravel (%)	Coarse Sand (%)	Medium Sand (%)	Fine Sand (%)	Silt (%)	Clay (%)			
Ash	Harbor Beach Ash (H8)	23	---	91	9	2.362	---	---	---	15	5	11	20	49	---	---	---	
	Belle River Fly Ash (B8) ⁽²⁾	0.1	---	99.1	0.9	2.721	---	---	---	0	0	0	5	95	---	---	---	
Sludge	West Basin (WB) - North	121.6	---	92.4	7.6	2.639	---	---	---	0	0	1	8	91	92	61	31	
	West Basin (WB) - South	121.6	Fail	84.3	15.7	2.43	---	---	---	0	0	5	40	55	70	36	34	
	East Basin (EB) - North	107.5	---	88.1	11.9	2.516	---	---	---	0	0	10	14	86	61	46	15	
	East Basin (EB) - South	107.5	---	68.8	31.2	2.219	---	---	---	0	0	2	30	88	77	44	33	
Mix	WB/EB-BR-HB mix 1:1:2 0hr	36.4	---	---	---	---	77.9	480	---	---	---	---	---	---	---	---	---	
	WB/EB-BR-HB mix 1:1:2 24hr	36.8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	WB/EB-BR-HB mix 1:1:2 48hr	36.5	---	---	---	---	80.3	1240	---	---	---	---	---	---	---	---	---	
	Sludge:BR mix 1:1	38.8	Pass	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	Sludge:BR mix 2:1	64.6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	Sludge:BR mix 1:1	74.3	Pass*	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	Sludge:BR mix 2:1	87.9	Fail**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	Sludge:BR mix 10:2	---,90.8,87.5,80.0 ⁽³⁾	Pass	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	Sludge:BR mix 10:3	---,79.5,74.4,72.3 ⁽³⁾	Pass	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	Sludge:BR mix 10:4	---,68.5,67.0,---,54.9 ⁽³⁾	Pass	---	---	---	---	---	---	---	---	---	---	---	---	---	---	

(1) EPA Method 9098B. Ran at time 0, 15 minutes, and 30 minutes.
(2) Tests run at 1, 3, 7, 14, 28 days after mixing.
(3) Tests run at 3 and 28 days.
(4) Chemical Analysis completed by Bowen-Morrer, Inc.
* After zero water passed through filter after 5 minutes, sample placed on vibrating table for 5 minutes and 0.0g passed through filter
** After zero water passed through filter after 5 minutes, sample placed on vibrating table for 5 minutes and 0.83g passed through filter

- REFERENCES**
- SITE TOPOGRAPHICAL CONTOURS ARE A COMBINATION OF TOPOGRAPHIC SURVEY OF UNIT 6 WASTE DISPOSAL PONDS BY DTE ENERGY'S SURVEYING SERVICES DATED 07/08/2015 AND U.S. GEOGRAPHICAL SURVEY DATA, 2013 FOR ST. CLAIR COUNTY, MI.
 - TOPOGRAPHY IS BASED UPON THE FOLLOWING PROJECTION AND DATUM: MICHIGAN STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, INTERNATIONAL FOOT. THE HORIZONTAL DATUM IS NAD 83 (2011). THE VERTICAL DATUM IS: PLANT DATUM (AREA WITHIN THE LIMITS OF WASTE) NAVD88 (AREA OUTSIDE THE LIMITS OF WASTE).
 - REFERENCE DWGS FOR CONVEYOR FOUNDATIONS : 1258-C-0920, 1258-C-0921, 1258-C-0924, 1258-F08-1765.
 - REFERENCE DWGS FOR WETLAND AREA : FIGURE 1, SSCP SCRUBBER BASIN WETLAND REPORT, MAY 2, 2017.
 - REFERENCE DWG FOR OVERHEAD ELECTRIC LINES : 6SE 0516-023.
 - REFERENCE DWG FOR VERTICAL LIMITS OF CCR/HISTORIC DESIGN BOTTOM OF BASINS: 6C516-428 (REV. H).

- NOTES**
- THE LIMIT OF WASTE SHOWN IS APPROXIMATE AND BASED ON THE FURTHEST POSSIBLE ASSUMED EXTENT OF SLUDGE PLACEMENT IN THE BASIN. EXCAVATION OF SLUDGE AND CCR MATERIALS WILL CONTINUE, BOTH HORIZONTALLY AND VERTICALLY, UNTIL MATERIALS ARE COMPLETELY REMOVED AND VERIFIED BY THE ENGINEER.
 - WETLAND AREAS SHALL NOT BE IMPACTED DURING CONSTRUCTION. AS NECESSARY, CONTRACTOR SHALL INSTALL CONSTRUCTION FENCING TO ACT AS A PHYSICAL BARRIER TO WETLAND ACCESS IN AREAS WHERE CONSTRUCTION WORK IS ANTICIPATED.
 - CONTRACTOR WILL PROTECT THE EXISTING RAILROAD CROSSING FROM DAMAGE DUE TO HAULING OF EXCAVATED MATERIALS. THIS RAILROAD LINE IS ACTIVE AND CONTRACTOR MAY EXPERIENCE DELAYS DUE TO THE ARRIVAL AND DEPARTURE OF TRAINS TO THE PLANT.
 - FLY ASH FROM BOTH THE BELLE RIVER AND ST. CLAIR PLANTS IS AVAILABLE TO USE AS A STABILIZATION MATERIAL TO MIX WITH THE SCRUBBER SLUDGE. GEOTECHNICAL TESTING BY NTH CONSULTANTS, LTD. OF THE FLY ASH, SLUDGE, AND POTENTIAL MIXTURES IS PROVIDED IN TABLE 1 (DATED JANUARY 10, 2017) SHOWN ON THIS DRAWING.
 - DTE ANTICIPATES THAT A MINIMUM OF 6,000 TONS OF FLY ASH PER MONTH WILL BE AVAILABLE FROM THE ST. CLAIR POWER PLANT FOR MIXING WITH THE SLUDGE IN THE SCRUBBER BASIN. DTE ALSO ANTICIPATES THAT AN ADDITIONAL 7,000 TONS OF FLY ASH PER MONTH WILL BE AVAILABLE AT THE BELLE RIVER POWER PLANT FOR MIXING. IF ADDITIONAL MATERIALS ARE DEEMED TO BE NECESSARY TO STABILIZE THE EXCAVATED MATERIALS FOR TRANSPORT TO THE RANGE ROAD LANDFILL ABOVE THESE QUANTITIES, CONTRACTOR SHALL GIVE DTE A MINIMUM OF ONE WEEK NOTICE OF THE EXPECTED SHORTFALL.
 - FLY ASH MATERIAL THAT DTE ELECTRIC PROVIDES MAY VARY IN CONSISTENCY.
 - FLY ASH USED FOR STABILIZATION SHALL, UNDER NO CIRCUMSTANCES, BE STAGED ON THE EXISTING GROUND OUTSIDE OF THE BASIN. TWO OPTIONS HAVE BEEN IDENTIFIED - a. CONSTRUCT A TEMPORARY PAD OUTSIDE OF THE BASIN WITH A GEOSYNTHETIC LINER AND 6" - 12" OF BOTTOM ASH, OR 21 AA, ETC. ON TOP OF THE GEOSYNTHETIC. COMPLETE GRADING OF THE TEMPORARY PAD TO ENSURE THAT ANY RUNOFF DRAINS INTO THE CURRENT BASIN. STAGING AND MIXING OF MATERIALS MUST BE COMPLETED ON THE PAD OR INSIDE OF THE BASIN. b. STOCKPILE AND MIX THE MATERIALS WITHIN THE BASIN AND LOAD DIRECTLY INTO TRUCKS.
 - EXCAVATED MATERIALS MUST BE ABLE TO PASS A PAINT FILTER TEST (EPA METHOD 9098B) BEFORE BEING TRANSPORTED TO THE LANDFILL. ADDITIONALLY, MATERIAL MUST ATTAIN A SHEAR STRENGTH OF 600 PSF OR GREATER PRIOR TO HAULING TO LANDFILL (SEE NTH MEMORANDUM PROVIDED IN COA PLAN).
 - CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PREVENT CCR CONTAMINATION OF AREAS BEYOND THE LIMIT OF WASTE. THIS INCLUDES, BUT IS NOT LIMITED TO, AVOIDING SPILLAGE OF CCR MATERIALS DURING LOADING/HAULING ACTIVITIES AND RESTRICTING HAUL TRUCK ACCESS WITHIN THE BASINS TO THE GRAVEL HAUL ROAD. CONTRACTOR SHALL IMMEDIATELY NOTIFY OWNER AND ENGINEER OF CCR SPILLAGE/CONTAMINATION WHICH OCCURS BEYOND THE LIMIT OF WASTE, AND CLEANUP THE SPILL.
 - CONTRACTOR SHALL INSTALL CONSTRUCTION FENCING AS DIRECTED BY DTE ENVIRONMENTAL STAFF AROUND THIS AREA TO PREVENT DAMAGE TO THIS ENVIRONMENTALLY SENSITIVE AREA.
 - IF CONTRACTOR NEEDS ADDITIONAL STAGING AREAS, THEY WILL EITHER HAVE TO BE ESTABLISHED INSIDE OF THE SCRUBBER BASIN LIMITS OR IN AN AREA THAT HAS BEEN APPROVED BY THE DTE ENVIRONMENTAL GROUP.



DESIGN FILE NAME: 0516-C-1098
LATEST REVISION: **

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0	07/14/17	ISSUED FOR BID		
NO.	DATE	ISSUED FOR	PROJ. ENG.	RESP. ENG.
PROJECT ENGINEER:		APPROVALS		
REVISION BLOCK - REV.				
Vendor:				



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DTE Electric Company
LAND IMPROVEMENT - CCR REMOVAL PROJECT

SLUDGE HANDLING PLAN

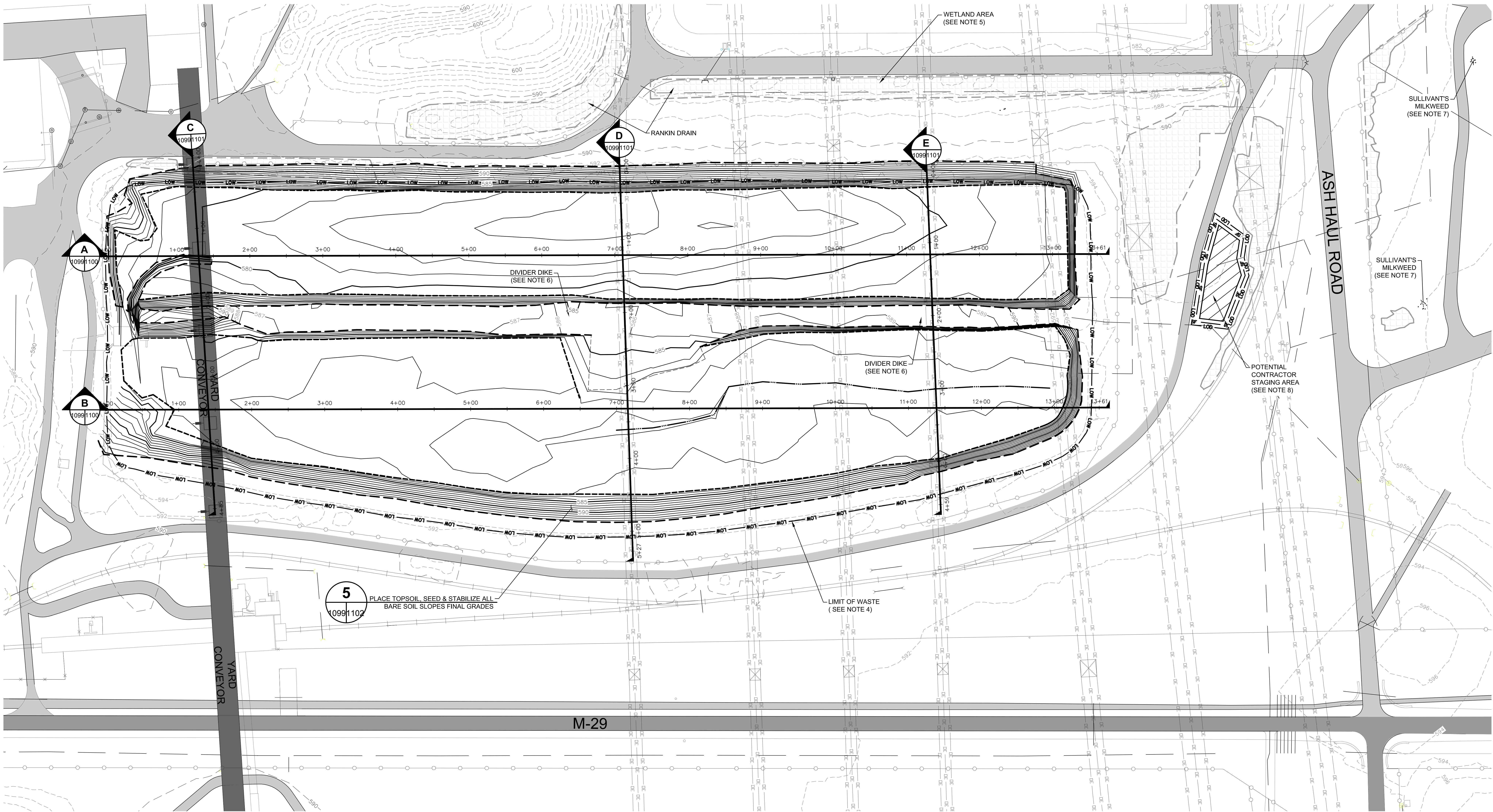
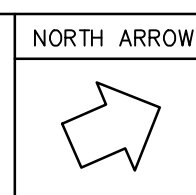
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ORIGINATING SOURCE: ST. CLAIR POWER PLANT SCALE: AS SHOWN USE DIMENSIONS DO NOT SCALE

DTE ELECTRIC COMPANY DRAWING NUMBER: 0516-C-1098

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PROBLEMS	PROLOGR	PROBLEMS	PROLOGR	PROBLEMS	PROLOGR	PROBLEMS	PROLOGR	PROBLEMS	PROLOGR	PROBLEMS	PROLOGR	PROBLEMS	PROLOGR	PROBLEMS	PROLOGR	PROBLEMS	PROLOGR	PROBLEMS	PROLOGR
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DTE ELECTRIC APPROVALS		DATE		OTHER APPROVALS		DATE		DESIGNED BY		DATE	
POS. GEN. PROJ. ENG.				OWNER				AMR	07/14/2017		
POS. GEN. PLANT ENG.				ARCH				AG	07/14/2017		
DIST. PROJECT ENG. INC.				CIVIL				CHKD BY	SSK		
				MECH				SGH	07/14/2017		
				ELEC.				APPROVED BY			
				INC.				PROJECT ENGINEER			
								PROJECT MANAGER			



5
10991102
PLACE TOPSOIL, SEED & STABILIZE ALL BARE SOIL SLOPES FINAL GRADES

LEGEND

- 450--- EXISTING MAJOR CONTOUR
- 448--- EXISTING MINOR CONTOUR
- 450--- PROPOSED MAJOR CONTOUR
- 448--- PROPOSED MINOR CONTOUR
- --- EXISTING VEGETATION
- --- EXISTING FENCE
- --- EXISTING GRAVEL ROAD
- --- EXISTING PAVED ROAD
- --- TOE OF SLOPE (ORIGINAL DESIGN)
- --- CONVEYOR FOUNDATION
- --- EXISTING RAIL LINES
- --- OVERHEAD ELECTRIC
- --- LIMIT OF WASTE
- --- WETLAND AREA
- --- PROCESS PIPING

REFERENCES

1. SITE TOPOGRAPHICAL CONTOURS ARE A COMBINATION OF 'TOPOGRAPHIC SURVEY OF UNIT 6 WASTE DISPOSAL PONDS' BY DTE ENERGY'S SURVEYING SERVICES DATED 07/08/2015 AND U.S. GEOGRAPHICAL SURVEY DATA, 2013 FOR ST. CLAIR COUNTY, MI.
2. TOPOGRAPHY IS BASED UPON THE FOLLOWING PROJECTION AND DATUM: MICHIGAN STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, INTERNATIONAL FOOT. THE HORIZONTAL DATUM IS NAD 83 (2011). THE VERTICAL DATUM IS PLANT DATUM (AREA WITHIN THE LIMITS OF WASTE) NAVD88 (AREA OUTSIDE THE LIMITS OF WASTE).
3. REFERENCE DWGS FOR CONVEYOR FOUNDATIONS : 1258-C-0920, 1258-C-0921, 1258-C-0924, 1258-F08-1765.
4. REFERENCE DWGS FOR WETLAND AREA : FIGURE 1, SCPP SCRUBBER BASINS WETLAND REPORT, MAY 2, 2017.
5. REFERENCE DWG FOR OVERHEAD ELECTRIC LINES : 6SE 0516-023.
6. REFERENCE DWG FOR VERTICAL LIMITS OF CCR/HISTORIC DESIGN BOTTOM OF BASINS: 6C516-428 (REV. H).

NOTES

1. THE HISTORIC DESIGN BOTTOM OF THE BASINS IS ELEVATION 584.0', WHICH IS ASSUMED TO BE THE VERTICAL LIMITS OF CCR.
2. THE DESIGN PROPOSES EXCAVATION AT 2H:1V SLOPES AND A FLAT BOTTOM ELEVATION OF 583.5', OR 6 INCHES BELOW THE LIMITS OF CCR.
3. BASED ON THE DESIGN EXCAVATION SHOWN, THE ESTIMATED TOTAL VOLUME OF CCR TO BE REMOVED IS 52,675 CY. THIS DOES NOT INCLUDE EXCAVATED MATERIAL FROM THE DIVIDER DIKE (SHOWN ON THE SITE PREPARATION PLAN) OR MATERIAL IMPORTED AS ADMIXTURE TO STABILIZE THE CCR.
4. THE LIMIT OF WASTE SHOWN IS APPROXIMATE AND BASED ON THE FURTHEST POSSIBLE ASSUMED EXTENT OF SLUDGE PLACEMENT IN THE BASIN. EXCAVATION OF SLUDGE AND CCR MATERIALS WILL CONTINUE, BOTH HORIZONTALLY AND VERTICALLY, UNTIL MATERIALS ARE COMPLETELY REMOVED AND VERIFIED BY THE ENGINEER.
5. WETLAND AREAS SHALL NOT BE IMPACTED DURING CONSTRUCTION. AS NECESSARY, CONTRACTOR SHALL INSTALL CONSTRUCTION FENCING TO ACT AS A PHYSICAL BARRIER TO WETLAND ACCESS IN AREAS WHERE CONSTRUCTION WORK IS ANTICIPATED.
6. THE DIVIDER DIKE IS NON-CCR FILL MATERIAL AND ANY EXCAVATION FROM THIS AREA CAN BE UTILIZED TO STABILIZE THE SCRUBBER SLUDGE FOR TRANSPORTATION TO RANGE ROAD LANDFILL.
7. CONTRACTOR SHALL INSTALL CONSTRUCTION FENCING AS DIRECTED BY DTE ENVIRONMENTAL STAFF AROUND THIS AREA TO PREVENT DAMAGE TO THIS ENVIRONMENTALLY SENSITIVE AREA.
8. IF CONTRACTOR NEEDS ADDITIONAL STAGING AREAS, THEY WILL EITHER HAVE TO BE ESTABLISHED INSIDE OF THE SCRUBBER BASIN LIMITS OR IN AN AREA THAT HAS BEEN APPROVED BY THE DTE ENVIRONMENTAL GROUP.



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LATEST REVISION

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0	07/14/17	ISSUED FOR BID	
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PROJECT ENGINEER:		APPROVALS	
REVISION BLOCK - REV.			
Vendor:			



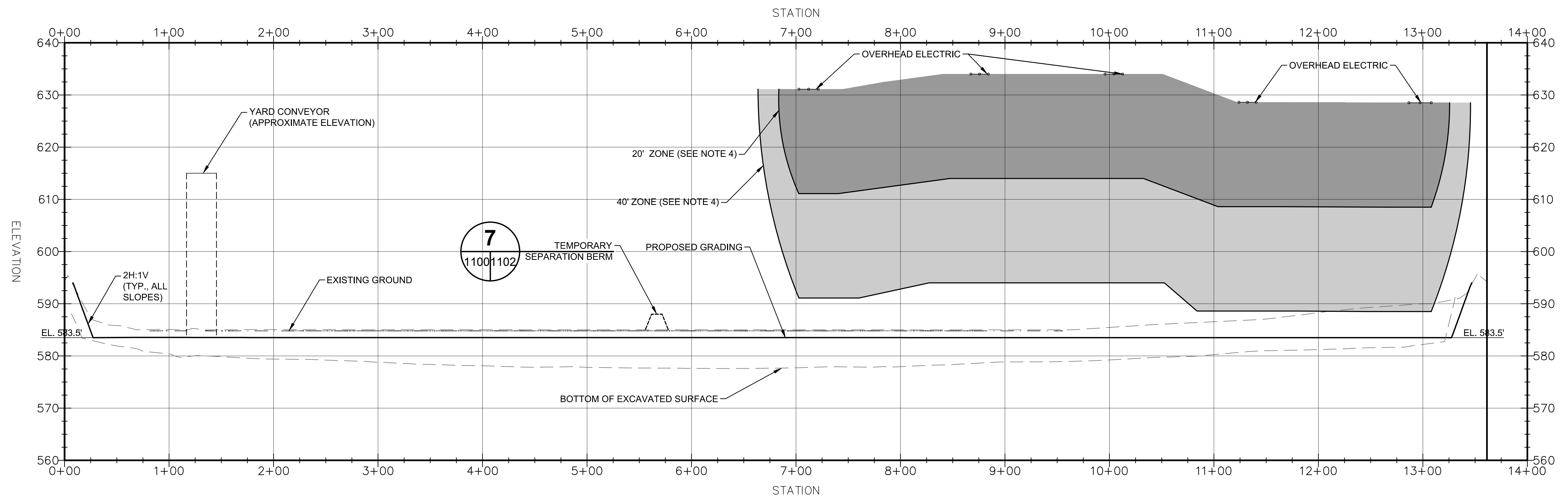
DTE Electric Company
 LAND IMPROVEMENT - CCR REMOVAL PROJECT
 ASH EXCAVATION PLAN
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 UNIT NUMBER: _____
 ORIGINATING SOURCE: _____
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 USE DIMENSIONS DO NOT SCALE.
 DTE ELECTRIC COMPANY DRAWING NUMBER: 0516-C-1099

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MADE BY	DATE	ARCH-CIVIL	MADE BY	DATE	ARCH-CIVIL	MADE BY	DATE	ARCH-CIVIL	MADE BY
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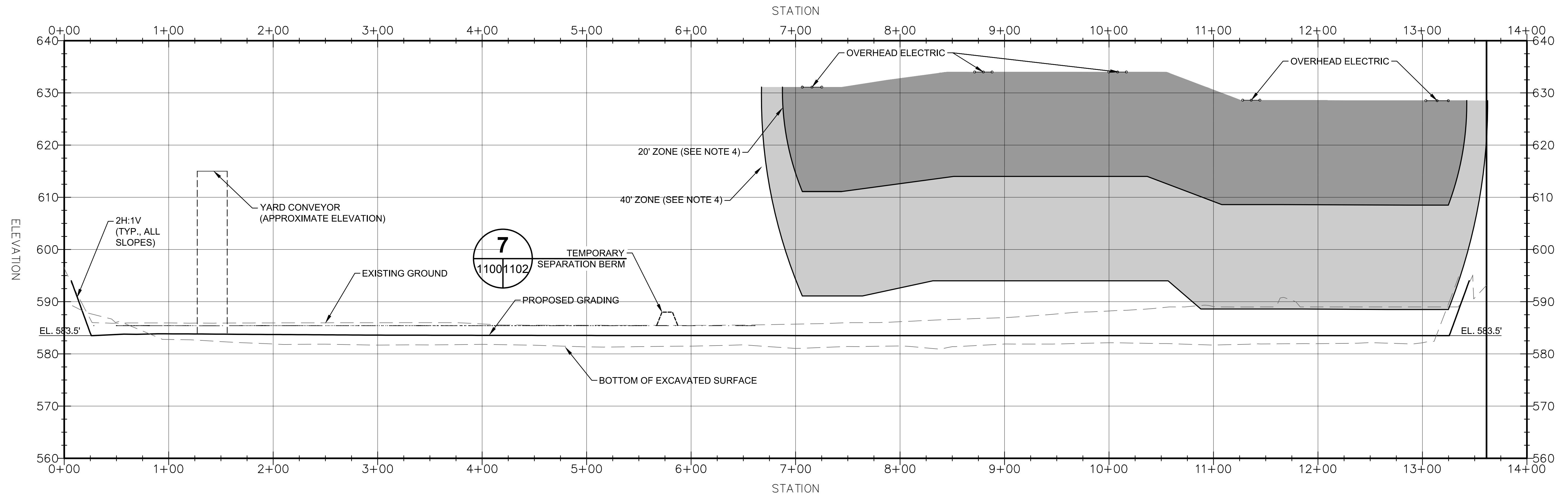
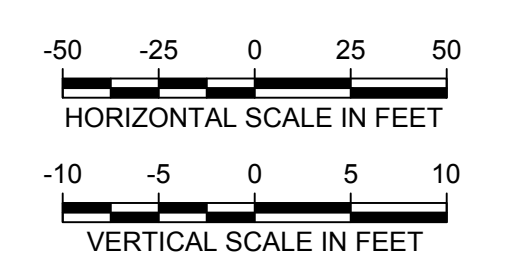
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FOR GEN. PLANT ENG.		CIVIL		AG	07/14/2017
DIST. ENG.		MECH.		CHKD BY	SSB
PROJECT ENG.		ELECT.		ISSD BY	SSB
ENG. COMP.				APPROVED BY	DATE
				PROJECT ENGINEER	DATE
				PROJECT MANAGER	DATE

THIS IS A CAD PRODUCED DRAWING. ANY CHANGES OR REVISIONS TO THIS DRAWING MUST BE COMPLETED USING THE CAD SYSTEM

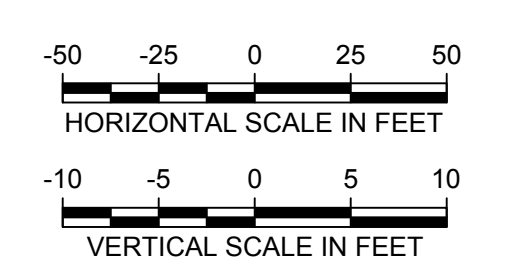




A CROSS-SECTION A
1099/1100
*1095,1097



B CROSS-SECTION B
1099/1100
*1095,1097



LEGEND

- PROPOSED GRADING
- - - WATER SURFACE
- - - EXISTING GRADE
- OVERHEAD ELECTRIC
- 20' ZONE (SEE NOTE 4)
- 40' ZONE (SEE NOTE 4)

REFERENCES

- THE EXISTING GROUND ELEVATIONS AND EXISTING WATER SURFACE ELEVATIONS WERE OBTAINED FROM TOPOGRAPHIC SURVEY OF UNIT 6 WASTE DISPOSAL PONDS BY DTE ENERGY'S SURVEYING SERVICES DATED 07/08/2015.

NOTES

- THE HISTORIC DESIGN BOTTOM OF THE BASINS IS ELEVATION 584.0', WHICH IS ASSUMED TO BE THE VERTICAL LIMITS OF CCR.
- THE DESIGN PROPOSES EXCAVATION AT 2H:1V SLOPES AND A FLAT BOTTOM ELEVATION OF 583.5', OR 6 INCHES BELOW THE LIMITS OF CCR.
- BASED ON THE DESIGN EXCAVATION SHOWN, THE ESTIMATED TOTAL VOLUME OF CCR TO BE REMOVED IS 52,675 CY. THIS DOES NOT INCLUDE EXCAVATED MATERIAL FROM THE DIVIDER DIKE (SHOWN ON THE SITE PREPARATION PLAN) OR MATERIAL IMPORTED AS ADMIXTURE TO STABILIZE THE CCR.
- ALL PERSONNEL AND ANY PORTION OF CONSTRUCTION EQUIPMENT MUST MAINTAIN A MINIMUM 20-FOOT DISTANCE FROM OVERHEAD ELECTRIC LINES AT ALL TIMES. CONTRACTOR WILL UTILIZE A SPOTTER DURING ANY CONSTRUCTION OPERATIONS THAT ARE CLOSER THAN 40 FEET TO THE OVERHEAD ELECTRIC.

DESIGN FILE NAME: 0516-C-1100
LATEST REVISION: **

5			
4			
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2	12/1/18	AS-BUILT	
1	10/18/17	ISSUED FOR CONSTRUCTION	
0	07/14/17	ISSUED FOR BID	
NO.	DATE	ISSUED FOR	PROJ. ENG. RESP. ENG. APPROVALS
PROJECT ENGINEER: APPROVALS			
REVISION BLOCK - REV.			
Vendor:			
AECOM			
DTE Electric Company			
TITLE			
LAND IMPROVEMENT - CCR REMOVAL PROJECT			
CROSS-SECTIONS I			
LOCATION NAME		UNIT NUMBER	
ST. CLAIR POWER PLANT			
ORIGINATING SOURCE	SCALE	USE DIMENSIONS DO NOT SCALE	
DTE ELECTRIC COMPANY DRAWING NUMBER	AS SHOWN		
0516-C-1100			

J				I				H				G				F				E				D				C				B				A			
PROJENL	PROJLDR			PROJENL	PROJLDR			PROJENL	PROJLDR			PROJENL	PROJLDR			PROJENL	PROJLDR			PROJENL	PROJLDR			PROJENL	PROJLDR			PROJENL	PROJLDR			PROJENL	PROJLDR						
MADE BY	DATE	ARCH-OVL	ELECT.	MADE BY	DATE	ARCH-OVL	ELECT.	MADE BY	DATE	ARCH-OVL	ELECT.	MADE BY	DATE	ARCH-OVL	ELECT.	MADE BY	DATE	ARCH-OVL	ELECT.	MADE BY	DATE	ARCH-OVL	ELECT.	MADE BY	DATE	ARCH-OVL	ELECT.	MADE BY	DATE	ARCH-OVL	ELECT.	MADE BY	DATE	ARCH-OVL	ELECT.				
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THIS IS A CAD PRODUCED DRAWING. ANY CHANGES OR REVISIONS TO THIS DRAWING MUST BE COMPLETED USING THE CAD SYSTEM.

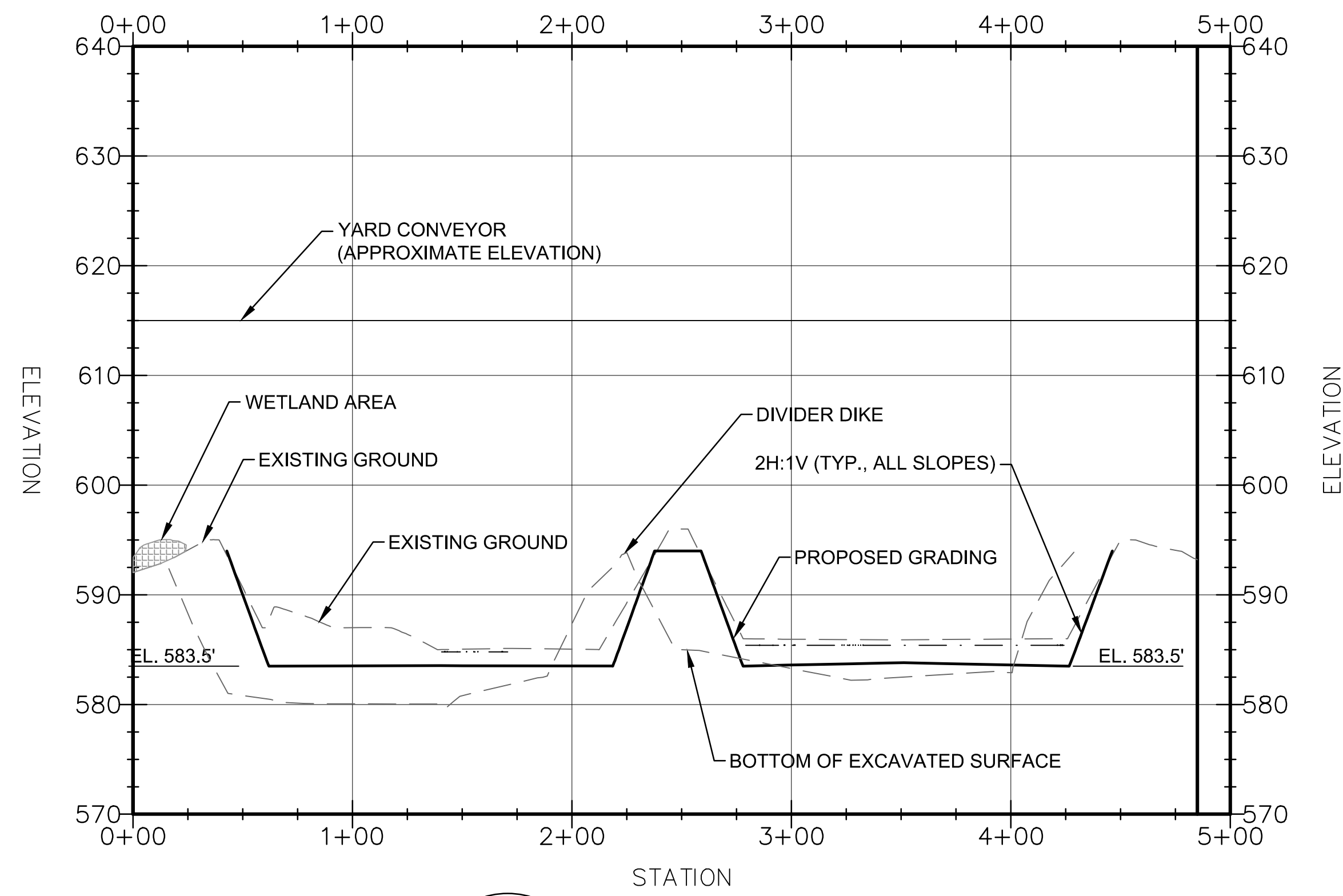


- REFERENCES**
1. THE EXISTING GROUND ELEVATIONS AND EXISTING WATER SURFACE ELEVATIONS WERE OBTAINED FROM "TOPOGRAPHIC SURVEY OF UNIT 6 WASTE DISPOSAL PONDS" BY DTE ENERGY'S SURVEYING SERVICES DATED 07/08/2015.

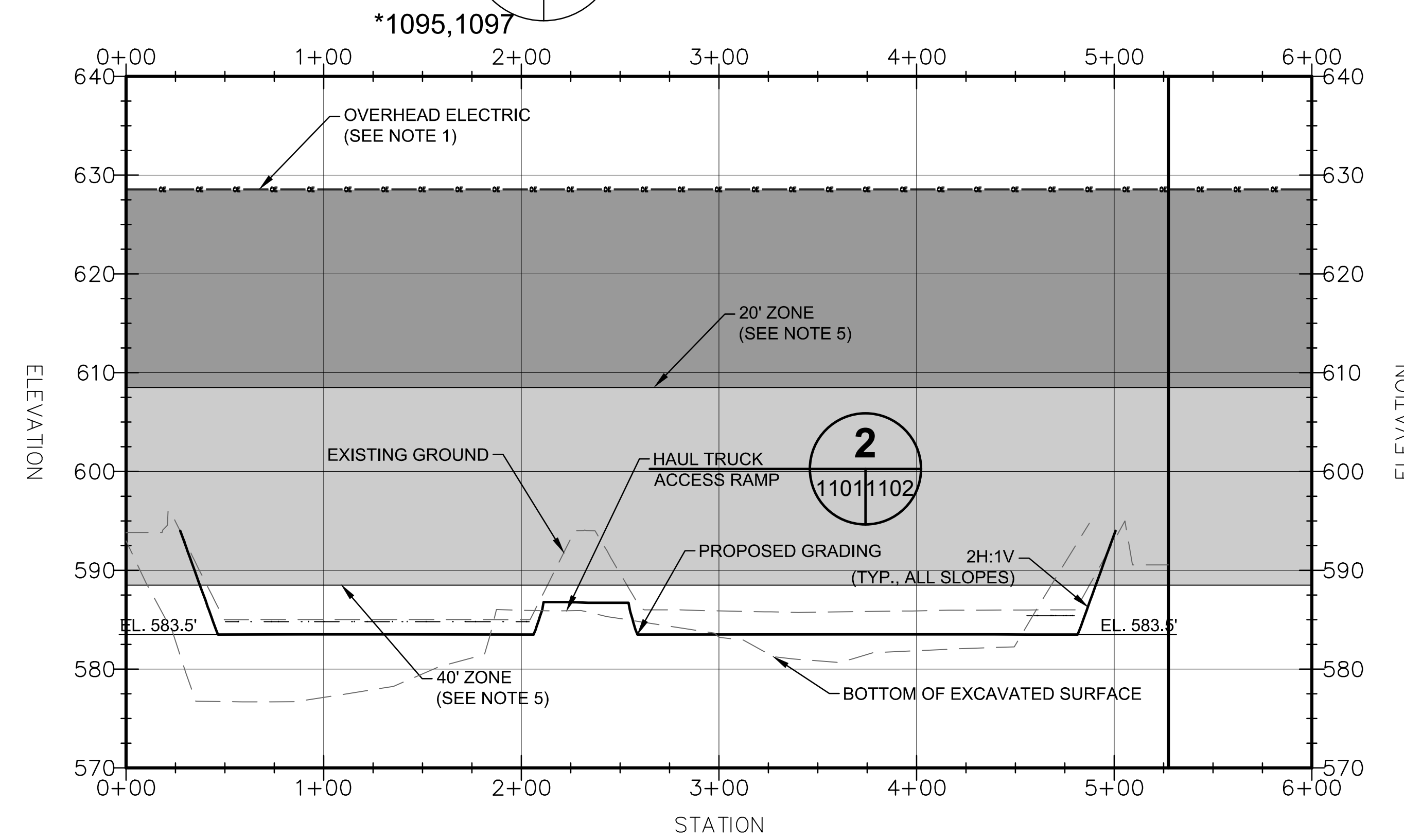
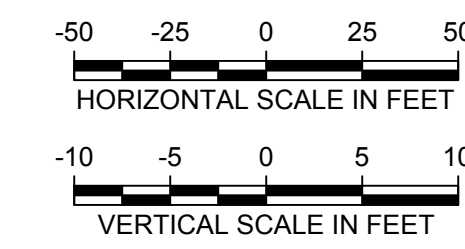
- NOTES**
1. CROSS-SECTIONS D AND E SHOW THE LOWEST HANGING OVERHEAD ELECTRIC LINE AT ITS LOWEST SAG ELEVATION.
 2. THE HISTORIC DESIGN BOTTOM OF THE BASINS IS ELEVATION 584.0', WHICH IS ASSUMED TO BE THE VERTICAL LIMITS OF CCR.
 3. THE DESIGN PROPOSES EXCAVATION AT 2H:1V SLOPES AND A FLAT BOTTOM ELEVATION OF 583.5', OR 6 INCHES BELOW THE LIMITS OF CCR.
 4. BASED ON THE DESIGN EXCAVATION SHOWN, THE ESTIMATED TOTAL VOLUME OF CCR TO BE REMOVED IS 52,675 CY. THIS DOES NOT INCLUDE EXCAVATED MATERIAL FROM THE DIVIDER DIKE (SHOWN ON THE SITE PREPARATION PLAN) OR MATERIAL IMPORTED AS ADMIXTURE TO STABILIZE THE CCR.
 5. ALL PERSONNEL AND ANY PORTION OF CONSTRUCTION EQUIPMENT MUST MAINTAIN A MINIMUM 20-FOOT DISTANCE FROM OVERHEAD ELECTRIC LINES AT ALL TIMES. CONTRACTOR WILL UTILIZE A SPOTTER DURING ANY CONSTRUCTION OPERATIONS THAT ARE CLOSER THAN 40 FEET TO THE OVERHEAD ELECTRIC.

LEGEND

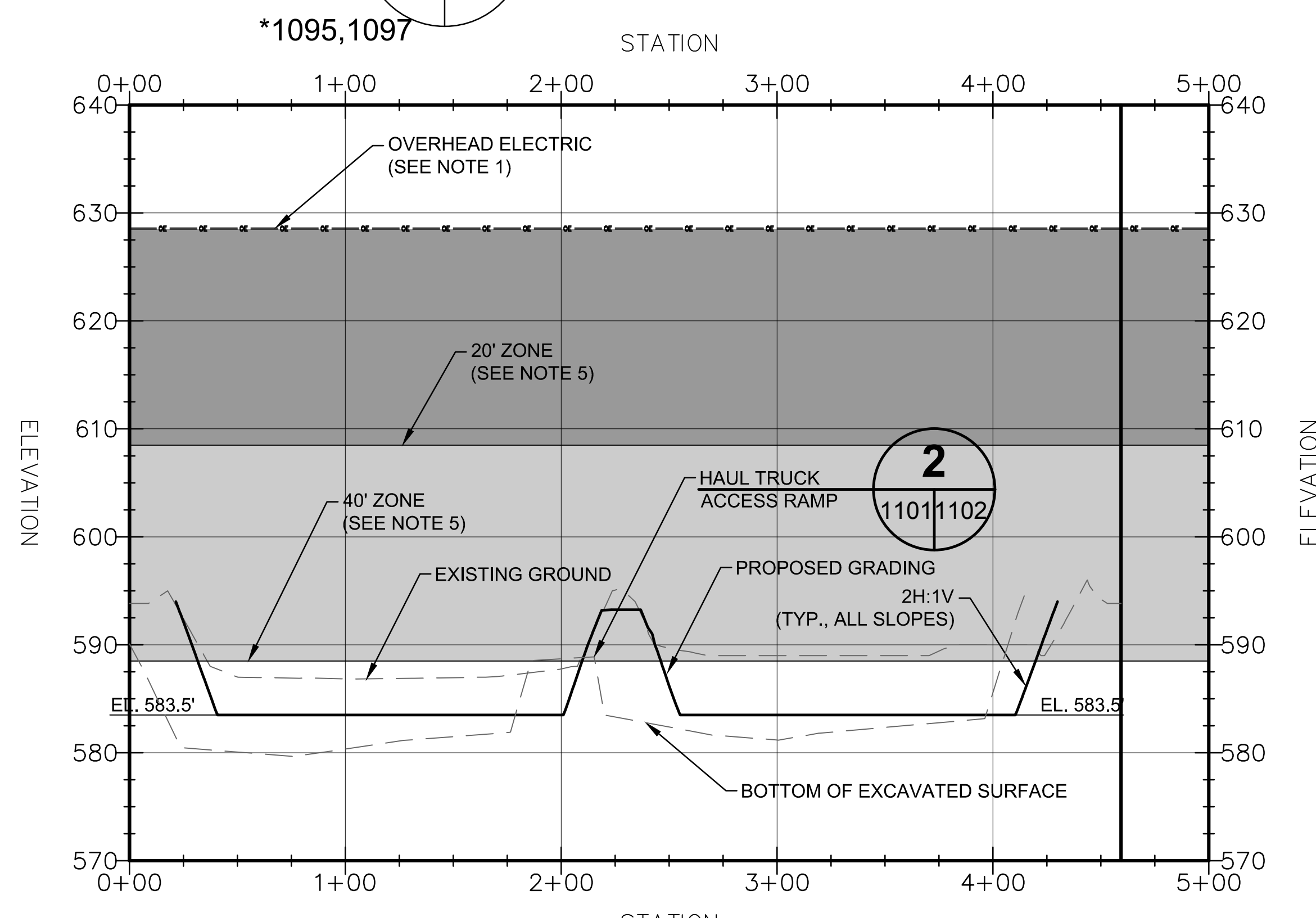
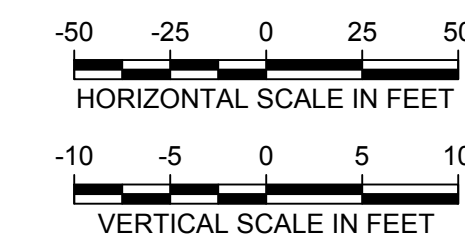
- PROPOSED GRADING
- - - WATER SURFACE
- - - EXISTING GRADE
- - - OVERHEAD ELECTRIC
- 20' ZONE (SEE NOTE 5)
- 40' ZONE (SEE NOTE 5)



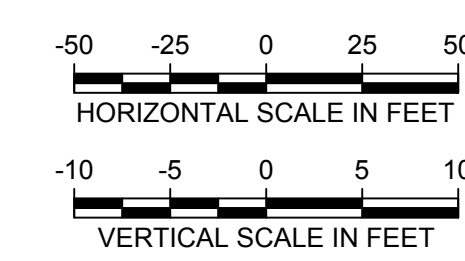
C CROSS-SECTION C
1099/1101



D CROSS-SECTION D
1099/1101



E CROSS-SECTION E
1099/1101



DESIGN FILE NAME: 0516-C-1101
LATEST REVISION: **

5					
4					
3					
2	12/1/18	AS-BUILT			
1	10/18/17	ISSUED FOR CONSTRUCTION			
0	07/14/17	ISSUED FOR BID			
NO.	DATE	ISSUED FOR	PROJ. ENG.	RESP. ENG.	
PROJECT ENGINEER:			APPROVALS		
REVISION BLOCK - REV.					
Vendor:					
AECOM					
DTE Electric Company					
TITLE					
LAND IMPROVEMENT - CCR REMOVAL PROJECT					
CROSS-SECTIONS II					
LOCATION NAME		ST. CLAIR POWER PLANT		UNIT NUMBER	
ORIGINATING SOURCE		SCALE		USE DIMENSIONS	
DTE ELECTRIC COMPANY DRAWING NUMBER		AS SHOWN		DO NOT SCALE	
0516-C-1101					

THIS IS A CAD PRODUCED DRAWING. ANY CHANGES OR REVISIONS TO THIS DRAWING MUST BE COMPLETED USING THE CAD SYSTEM



PROJ. ENGR.		PROJ. MGR.		PROJ. ENGR.		PROJ. MGR.		PROJ. ENGR.		PROJ. MGR.		PROJ. ENGR.		PROJ. MGR.		PROJ. ENGR.		PROJ. MGR.		PROJ. ENGR.		PROJ. MGR.	
MADE BY	DATE	ARCH-CIVIL	ELECT.	MADE BY	DATE	ARCH-CIVIL	ELECT.	MADE BY	DATE	ARCH-CIVIL	ELECT.	MADE BY	DATE	ARCH-CIVIL	ELECT.	MADE BY	DATE	ARCH-CIVIL	ELECT.	MADE BY	DATE	ARCH-CIVIL	ELECT.
CHK BY	DATE	MECH.	APPROVED BY	CHK BY	DATE	MECH.	APPROVED BY	CHK BY	DATE	MECH.	APPROVED BY	CHK BY	DATE	MECH.	APPROVED BY	CHK BY	DATE	MECH.	APPROVED BY	CHK BY	DATE	MECH.	APPROVED BY

DTE ELECTRIC APPROVALS		OTHER APPROVALS		DESIGNED BY		DATE	
POS. GEN. PROJ. ENGR.	DATE	VERIFYER	DATE	ANR	DATE	DRWEN BY	DATE
POS. GEN. PLANT ENG.	DATE	ARCH	DATE	AG	DATE	CHKD BY	DATE
DIST. ENR.	DATE	CIVIL	DATE	SGH	DATE	APPROVED BY	DATE
PROJECT ENG. COMP.	DATE	MED.	DATE	PROJECT ENGINEER	DATE	PROJECT ENGINEER	DATE
	DATE	ELEC.	DATE	PROJECT MANAGER	DATE	PROJECT MANAGER	DATE
	DATE	INC.	DATE		DATE		DATE

