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CONSTRUCTION SUMMARY REPORT

LOWER DISPOSAL AREA COVER UPGRADE

**RESERVE SILICA SITE
RAVENSDALE, WASHINGTON**

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Distribution:

2 Copies - Holcim (US) Inc.
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1.0 INTRODUCTION

1.1 Purpose

Golder Associates Inc. (Golder) under contract to Holcim (U.S.) Inc. (Holcim) has performed Construction Management (CM) and Construction Quality Assurance (CQA) services for the Lower Disposal Area (LDA) Cover Upgrade at the Reserve Silica Site located in Ravensdale, Washington (See Sheet 010 in Appendix A).

This report provides a summary of:

- Construction activities associated with the LDA cover upgrade;
- Observation and testing results associated with the cover soil placement;
- Review of lines and grades; and
- Observations associated with the construction of the interceptor ditch along the east side of the LDA.

1.2 Scope of Services

The scope of Golder's services included CM/CQA observation and testing of the LDA Cover Upgrade. The activities described in this report took place between September 11, 2007 and November 26, 2007.

Construction documentation included daily reports which were submitted by Golder field personnel. These reports are included in Appendix B. In addition, photographs were taken throughout construction and are included in Appendix C.

Clearcreek Contractors, Inc. (Clearcreek) of Everett, Washington performed all construction activities associated with the LDA Cover Upgrade. Surveying services, including preparation of topographic maps, were provided by Pacific Geomatic Services, Inc. of Mountlake Terrace, Washington under subcontract to Clearcreek.

1.3 Project Documents

The work performed for the LDA Cover Upgrade project was completed in accordance with the following documents, plans, and specifications:

Holcim (US) Reserve Silica Site Ravensdale, Washington, Lower Disposal Area Cover Upgrade, Construction Drawings, prepared by Golder Associates Inc., dated August 2007; and

Reserve Silica Site, CKD Disposal Areas Closure Covers, Technical Specifications, prepared by Golder Associates Inc., dated August 8, 2007.

The project as described in these documents was approved by the regulatory agencies via emails from King County Public Health Department (as the lead agency) on August 24, 2007, and from King County Department of Development and Environmental Services on August 28, 2007.

1.4 Organization of This Report

Section 2.0 describes construction activities in detail. Section 3.0 describes laboratory testing performed on the cover soil. Section 4 presents the conclusions of this report. Appendix A contains the as-built drawings for the project. Appendix B includes daily construction reports. Appendix C contains the construction photos for the project. Appendix D presents details of the laboratory testing results.

2.0 CONSTRUCTION ACTIVITIES

The major LDA Cover Upgrade construction included the following, listed in chronological sequence:

- Cleared trees, shrubs, and other vegetation from the LDA surface;
- Performed a topographic survey of the LDA to establish baseline conditions;
- Removed topsoil from the LDA area and stockpiled the topsoil within the LDA footprint;
- Performed a second topographic survey for determining topsoil quantities;
- Regraded the LDA to provide positive drainage and even slopes;
- Placed a minimum of 2-feet of cover soil over the southern portion of the LDA where CKD was encountered at the surface or where test pits indicated that the existing cover was less than 2 feet thick;
- Spread the stockpiled topsoil over the LDA;
- Performed a third topographic survey of the LDA area to document as-built conditions;
- Installed a short length of French drain at a location on the east side of the LDA to intercept seepage observed throughout construction;
- Hydroseeded the LDA surface;
- Constructed the interceptor ditch along the east side of the LDA;
- Installed an 18-inch culvert under the existing main access road at the south end of the LDA;
- Constructed a maintenance access road along the east side of the LDA; and
- Cleaned and groomed drainage ditches along the west side of the LDA.

The following sections provide a summary of the major construction activities for this project. Additional detail is provided in the daily construction reports, included in Appendix B.

2.1 Cover Construction

Clearing of trees and large brush was performed using Hitachi 200 excavators with buckets and thumbs. Removed vegetation was loaded into a Volvo A25C end dump truck and hauled to a stockpile located to the east of the LDA. The stockpiled vegetation was chipped using a tub grinder operated by Diamond Wood Recycling, Inc. of Ravensdale, Washington. The chipped vegetation was stockpiled and left on site.

Topsoil was stripped from the LDA using CAT D5M LGP, CAT D8R, and JD 550 dozers and the Hitachi 200 excavators. The topsoil was moved to a stockpile in the center west portion of the LDA area.

During topsoil stripping, CKD was encountered 6- to 8-inches below the topsoil surface over much of the southern half of the LDA area. Locations where CKD was present are shown on Sheet 040 in Appendix A. This area was regraded to a uniform slope and capped with a minimum of 2-feet of cover soil which was excavated from the northern half of the LDA area. Cover soil was excavated using a Hitachi 330 excavator and hauled to the placement area using the Volvo A25C. A second dump truck, a Volvo A30D articulating end dump, was also used as construction progressed.

Prior to excavating soil from the north half of the LDA area, a series of test pits were excavated to determine the thickness of existing soil cover above any CKD. This data allowed the excavation process to be controlled so that at least 2 feet of cover would remain over the CKD in all areas of the LDA. The test pit locations are shown on Sheet 040 in Appendix A and the data is summarized in Table 2-1.

Table 2-1. LDA Test Pit and Cover Thickness Summary

Test Pit No.	Total Depth (ft)	Depth to CKD (ft)	Initial Surface Elevation (ft)	Final Surface Elevation (ft)	Final Cover Thickness Above CKD (ft)
TP-01	9.0	NE	781.0	781.8	9.8
TP-02	5.5	3.5	766.2	765.8	3.1
TP-03	4.5	3.2	739.0	740.5	4.7
TP-04	3.0	NE	734.0	735.0	4.0
TP-05	3.0	2.5	738.3	741.1	5.3
TP-06	Not excavated	-	-	-	-
TP-07	11.0	NE	788.4	787.0	9.6
TP-08	10.0	NE	783.5	780.4	6.9
TP-09	11.0	NE	780.4	776.6	7.2
TP-10	11.4	NE	767.5	765.0	8.9
TP-11	9.8	NE	738.7	739.7	10.8
TP-12	8.5	8.0	731.8	733.2	9.4
TP-13	10.5	NE	715.9	717.0	11.6
TP-14	9.0	NE	707.0	707.6	9.6
TP-15	11.0	2.5	716.0	716.8	3.3
TP-16	3.0	2.0	721.0	721.4	2.4
TP-17	5.0	1.5	724.6	725.1	2.0
TP-18	6.5	2.0	733.2	733.3	2.1
TP-19	6.5	6.0	758.0	760.6	8.6
TP-20	9.0	8.5	750.0	747.5	6.0
TP-21	14.5	NE	786.2	785.5	13.8

CKD Cement kiln dust

ft Feet

NE Not encountered

See Sheet 040 in Appendix A for vertical datum information.

The data in this table indicates that a minimum thickness of at least 2 feet was maintained in all areas of the cover where soil was removed.

The cover soil was spread with the CAT D8R dozer in approximately 8-inch loose lifts and compacted using a self-propelled, smooth drum, vibratory roller, initially a CAT CCS 563D and later an IR SD-70D. The design specifications called for a CAT 815 pegfoot or equivalent compactor, and an 815B was initially mobilized to the site for this purpose. However, the 815B left a rough, pocked surface that collected water during rainy weather. Because the cover soil was relatively fine grained (see Section 3), it became quite slippery and did not drain when wet. This, in turn, prevented placing and compacting the cover soil. To solve this problem and allow construction to proceed, the smooth

drum compactors were used and the lift thickness reduced. The surface of each lift of cover soil was rolled at the end of the work day, or sooner if rain was forecast. The resulting smooth surface shed water and generally allowed soil placement to resume within a day after the precipitation event.

Upon completion of the regrading and placement of the cover soil, the previously-stockpiled topsoil was spread over the entire cover area. The topsoil was spread in a single 8-inch lift using a dozer.

Once the topsoil had been placed, the LDA cover surface was hydroseeded. On approximately the western two-thirds of the LDA, where the slopes of the LDA cover were 3H:1V or steeper, Flexterra Flexible Growth Medium was added to the hydroseed mix to provide a greater degree of erosion resistance over the winter. This approach was adopted because it was not clear that the grass seed in the hydroseed mix would become sufficiently well established at the time of planting (early November) to provide adequate erosion control. Approximately 4-acres were covered with the hydroseed mix containing the Flexterra Flexible Growth Medium. Another 2 acres with lower slopes in the eastern portion of the LDA were hydroseeded with the mix using the specified tackifier without Flexterra. The access road and diversion ditch locations along the east margin of the LDA were not seeded.

Photographs of cover construction activities are shown in Appendix C.

2.2 Surface Water Management

2.2.1 Diversion Ditch

A diversion ditch to intercept surface runoff and shallow subsurface seepage was constructed along the eastern perimeter of the LDA. The ditch was constructed after the adjacent cover had been completed, and was excavated to provide a minimum finished flow depth of at least 2 feet and positive drainage at all points. The base and a short section of the west slope of this ditch was lined with 30-mil PVC geomembrane. The geomembrane was covered with approximately 6-inches of bedding sand provided by Reserve Silica from on-site stockpiles. The ditch was lined with quarry spalls (armor rock) obtained from Enumclaw Quarry in Enumclaw, Washington, placed carefully with the Hitachi 200 or Hitachi 135 excavator.

Upon completion of the diversion ditch, an access road was constructed along the west side of the ditch for future maintenance.

2.2.2 Culverts

An 18-inch diameter corrugated metal pipe (CMP) culvert was installed under the main haul road at the south end of the LDA. This culvert receives flow from the southern portion of the diversion ditch and a short section of ditch along the toe of the LDA. The original design showed the diversion ditch extending to the culvert inlet immediately adjacent to the main haul road. However, during regrading, CKD was encountered at the surface at the southern end of the LDA, including a portion of the proposed diversion ditch. In order to prevent water that has contacted CKD from entering the diversion ditch and mixing with non-impacted runoff, an additional 125-feet of 18-inch diameter corrugated polyethylene pipe was installed from the main haul road in a northeasterly direction along the existing access road to a point beyond the CKD area, where it was then terminated in the diversion ditch. The standard closure cover section was constructed over this pipe.

A second 18-inch CMP was installed along the LDA toe ditch immediately north of the culvert under the main haul road. This CMP routes drainage under the end of the LDA access road. A WSDOT Type C catch basin was installed to connect the 3 culverts and allow cleaning. The penetrations in the catch basin where the culverts enter were sealed with mortar.

Culvert construction is shown in Photos 95-105, 115, 116, 159, and 160 in Appendix C.

2.2.3 French Drain

During grading for the diversion ditch along the toe of the mine spoils stockpile adjacent to the eastern margin of the LDA, groundwater seeped into the excavation along a section approximately 40 feet in length. Even under dry weather conditions, this area had continuously exhibited seepage, and construction equipment tended to rut and sink into the soil when crossing this location, indicating that it was relatively soft. Based on these observed conditions, it was decided to install a French drain in this area (see Drawing 060 in Appendix A). This drain was intended to locally reduce the groundwater elevation in order to provide a stable subgrade for the cover and diversion ditch and to intercept groundwater that might otherwise enter the LDA. The drain consists of a gravel-filled trench with a perforated collection pipe in the bottom (see Drawing 090 in Appendix A). The trench was about 8 to 10 feet deep; 12 oz/sy (ounce per square yard) non-woven polypropylene geotextile was placed against the trench walls to prevent piping of fines into the backfill. Rounded 1-inch washed drain rock was placed around the collector pipe to provide drainage, and the trench was filled to within about 2 feet of final grade with the same quarry spall material used for the diversion ditch lining. The geotextile was then folded over the top of the quarry spalls and the remainder of the trench filled with cover soil to prevent excess surface infiltration. The collection pipe was connected to a tightline which was routed about 600 feet northward at a 1% to 2% grade to discharge under gravity into the surface water diversion ditch.

The French drain is shown in Photos 108, 109, and 152 in Appendix C.

2.2.4 Former Access Road Drain Pipes

During LDA cover construction, the entrances to two solid-wall 8-inch diameter HDPE pipes were discovered about 65 east of the eastern boundary of the LDA near the temporary field office. These pipes drain a closed depression and surrounding area. The pipes trended toward the LDA, but the discharge points could not be located. During grading for the diversion ditch, the contractor located the discharge ends of these pipes about 20 feet from the diversion ditch. The soil around the downstream ends of these pipes was relatively wet, and the pipes contained water.

Based on conversations with site personnel, it appears that these pipes were originally installed to provide drainage beneath an access road and that the downstream ends were subsequently buried during LDA backfilling or other site operations. To restore the original function, these pipes were extended to discharge into the new diversion ditch. The extensions used the same standard sewer pipe as the French drain, since there was no need for solid-wall HDPE (which would have been significantly more expensive). Restoring the function of these pipes was also intended to reduce recharge of the upper elevations of the LDA (and hence CKD) with surface / seepage water, relative to the previous situation.

The former access road drain pipes are shown in Photos 89, 92, and 93, while the completed extensions are shown in Photos 117, 124, and 161.

3.0 LABORATORY TESTING

During construction, samples of the cover soil were collected to determine the fines content, i.e., the amount of material passing the U.S. No. 200 sieve. These samples were taken at a frequency of 1 sample for approximately 750 cubic yards of cover soil placed. The samples were conveyed to Golder's Redmond, Washington, soils laboratory for testing in accordance with ASTM D1140 (*Standard Test Methods for Amount of Material in Soils Finer than No. 200 (75-m) Sieve*). The results of the cover soil testing are summarized in Table 3-1.

Table 3-1. Cover Soil Fines Content Results

Sample Number	Moisture Content	Percent Fines
CS-01	12.3%	26.4%
CS-02	13.0%	27.1%
CS-03	14.9%	30.1%
CS-04	15.4%	30.0%
CS-05	16.8%	30.9%
CS-06	17.4%	32.7%
CS-07	13.6%	38.4%
CS-08	20.8%	37.7%
CS-09	16.3%	35.5%
CS-10	15.6%	30.7%
CS-11	15.6%	39.5%
CS-12	14.6%	29.7%
CS-13	14.6%	29.0%
CS-14	18.5%	42.3%
CS-15	13.8%	40.9%
CS-16	20.8%	37.4%
CS-17	17.7%	37.7%
CS-18	17.3%	39.0%
CS-19	19.0%	31.1%
CS-20	14.6%	35.7%
CS-21	14.9%	27.9%
CS-22	16.8%	39.5%
CS-23	16.2%	32.8%
CS-24	29.3%	34.1%
CS-25	20.3%	37.9%
CS-26	20.8%	40.0%
CS-27	22.8%	39.7%
CS-28	16.8%	36.2%
CS-29	18.6%	37.9%
CS-30	20.4%	44.5%
CS-31	21.4%	40.3%
CS-32	19.7%	43.0%
CS-33	17.7%	29.3%
CS-34	15.3%	26.2%
CS-35	15.5%	27.5%
Average		34.8%

Additional details of the testing are provided in Appendix D.

Based on limited testing during the design phase of the project (Golder, 2007), a requirement that the cover soil should have a minimum fines content of 25% was established to ensure that the cover soil would have a sufficiently low permeability. The results presented in Table 3-1 indicate that all samples achieved the minimum fines content and that the soil cover has an average fines content of 34.8%.

The specifications for this project included a contingency for admixing cover soil with fine-grained soil from the washwater settling ponds used by Reserve Silica as part of processing the sand product. However, as indicated by the results in Table 3-1, no admixing was necessary.

4.0 CONCLUSION

Construction activities for the LDA Cover Upgrade began on September 11, 2007, and were completed on November 26, 2007. Based on field observations and laboratory test results, the construction activities for this project were completed in substantial conformance with the approved plans and specifications.

5.0 REFERENCES

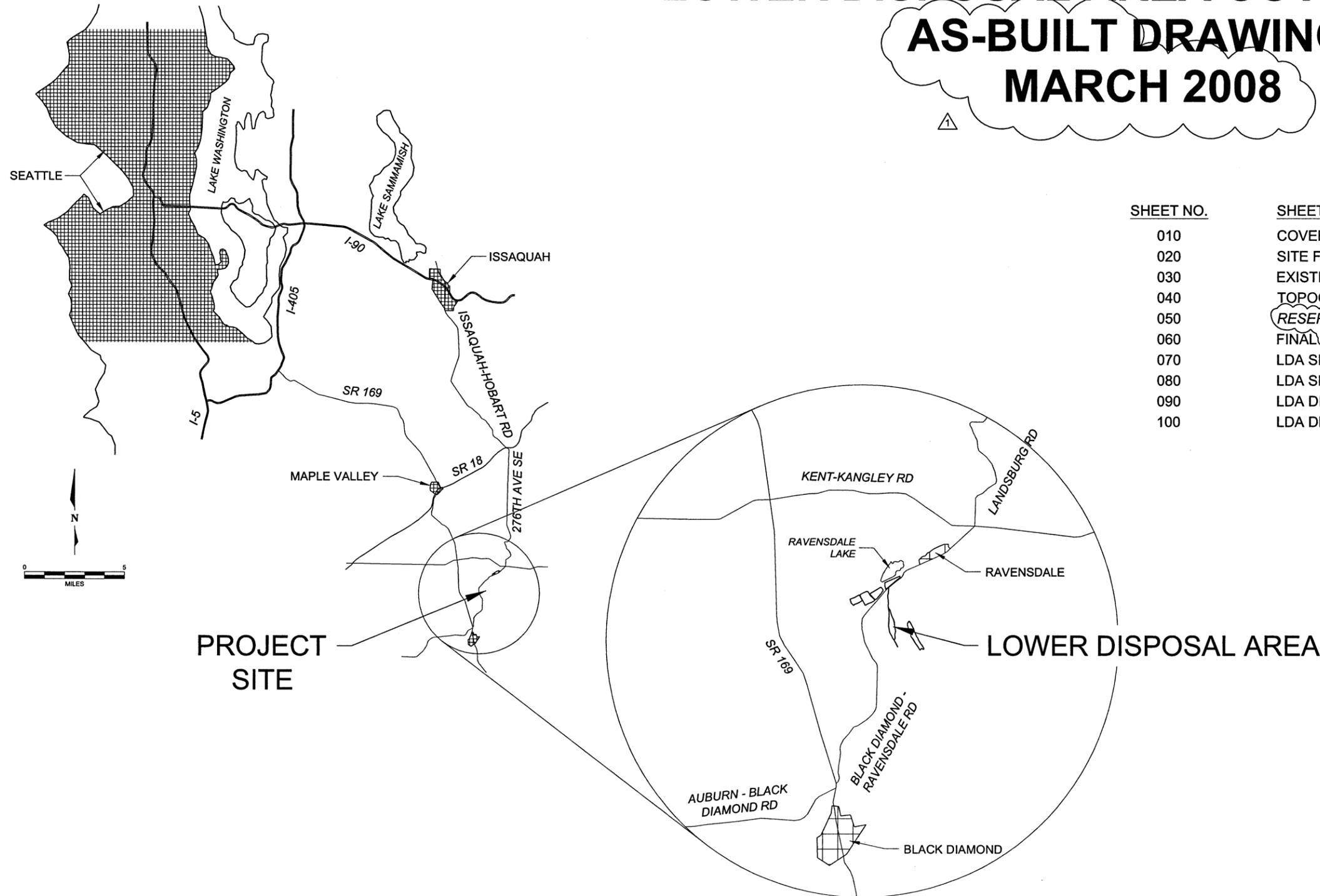
Golder Associates Inc., 2007. *Draft Report on Closure Cover Design of the LDA and DSP Areas, Reserve Silica Site*, Ravensdale, Washington, June 22.

APPENDIX A

AS-BUILT DRAWINGS

HOLCIM (US) RESERVE SILICA SITE RAVENSDALE, WASHINGTON

LOWER DISPOSAL AREA COVER UPGRADE AS-BUILT DRAWINGS MARCH 2008



SHEET NO.	SHEET TITLE
010	COVER SHEET
020	SITE FEATURES
030	EXISTING CONDITIONS - LOWER DISPOSAL AREA
040	TOPOGRAPHY AFTER (TOPSOIL) REMOVAL - LDA
050	RESERVED
060	FINAL GRADES - LOWER DISPOSAL AREA
070	LDA SECTIONS - 1
080	LDA SECTIONS - 2
090	LDA DIVERSION DITCH DETAILS
100	LDA DRAINAGE CULVERT DETAILS



REV	DATE	DES	FSS	FSS	ISSUED FOR CONSTRUCTION	CADD	CHK	R/W
1	3-31-08	FSS	FSS	AS-BUILT				
2	8-7-07	FSS	FSS	ISSUED FOR CONSTRUCTION				

PROJECT
RESERVE SILICA SITE
CKD DISPOSAL AREA
COVER DESIGN

TITLE
COVER SHEET

PROJECT No.	073-93074
FILE No.	AS SHOWN
REV. 0	SCALE AS SHOWN
DESIGN	FSS 6-22-07
CADD	FSS 6-22-07
CHECK	FSS 6-22-07
REVIEW	MG 6-22-07



SHEET 010

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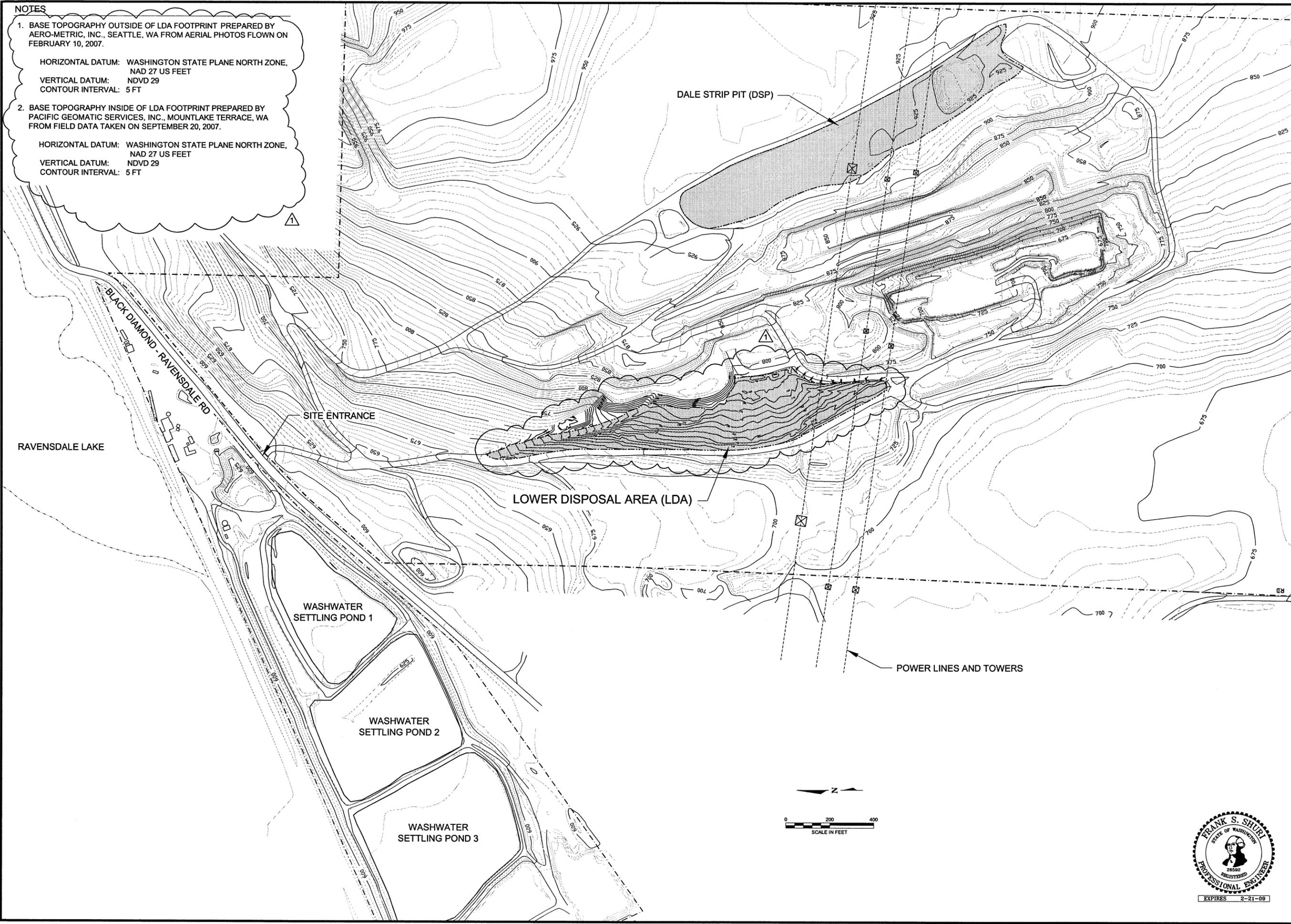
NOTES

1. BASE TOPOGRAPHY OUTSIDE OF LDA FOOTPRINT PREPARED BY AERO-METRIC, INC., SEATTLE, WA FROM AERIAL PHOTOS FLOWN ON FEBRUARY 10, 2007.

HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE,
NAD 27 US FEET
VERTICAL DATUM: NDVD 29
CONTOUR INTERVAL: 5 FT

2. BASE TOPOGRAPHY INSIDE OF LDA FOOTPRINT PREPARED BY PACIFIC GEOMATIC SERVICES, INC., MOUNTLAKE TERRACE, WA FROM FIELD DATA TAKEN ON SEPTEMBER 20, 2007.

HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE,
NAD 27 US FEET
VERTICAL DATUM: NDVD 29
CONTOUR INTERVAL: 5 FT



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3-31-08		FSS		ACM	MC	
8-7-07		FSS		FSS	MC	
					CADD	
					REVISION DESCRIPTION	

PROJECT	RESERVE SILICA SITE CKD DISPOSAL AREA COVER DESIGN
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TITLE	SITE FEATURES
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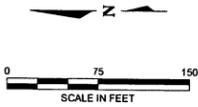
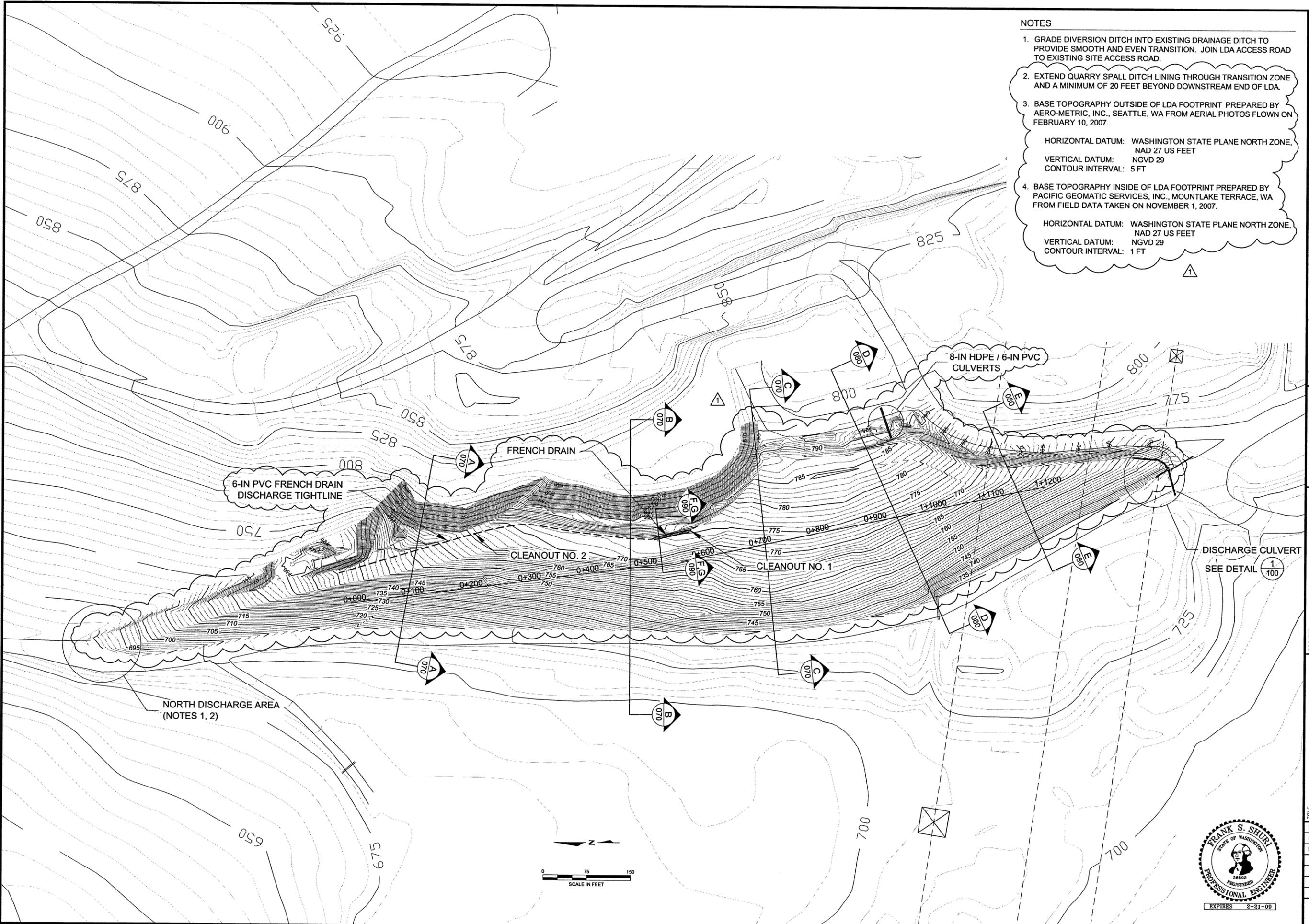
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REVIEW	MC 6-22-07

SHEET 020



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NOTES

1. GRADE DIVERSION DITCH INTO EXISTING DRAINAGE DITCH TO PROVIDE SMOOTH AND EVEN TRANSITION. JOIN LDA ACCESS ROAD TO EXISTING SITE ACCESS ROAD.
2. EXTEND QUARRY SPALL DITCH LINING THROUGH TRANSITION ZONE AND A MINIMUM OF 20 FEET BEYOND DOWNSTREAM END OF LDA.
3. BASE TOPOGRAPHY OUTSIDE OF LDA FOOTPRINT PREPARED BY AERO-METRIC, INC., SEATTLE, WA FROM AERIAL PHOTOS FLOWN ON FEBRUARY 10, 2007.

HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD 27 US FEET
VERTICAL DATUM: NGVD 29
CONTOUR INTERVAL: 5 FT
4. BASE TOPOGRAPHY INSIDE OF LDA FOOTPRINT PREPARED BY PACIFIC GEOMATIC SERVICES, INC., MOUNTLAKE TERRACE, WA FROM FIELD DATA TAKEN ON NOVEMBER 1, 2007.

HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD 27 US FEET
VERTICAL DATUM: NGVD 29
CONTOUR INTERVAL: 1 FT

Golder Associates		GOLDER ASSOCIATES INC. 18300 NE UNION HILL ROAD, SUITE 200 REDMOND, WA 98073-3535 TEL: (425) 883-0777 FAX: (425) 882-5488	
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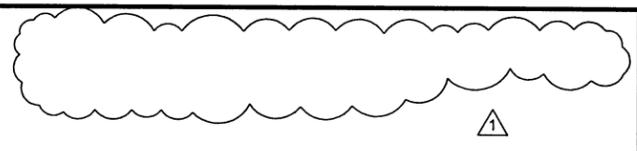
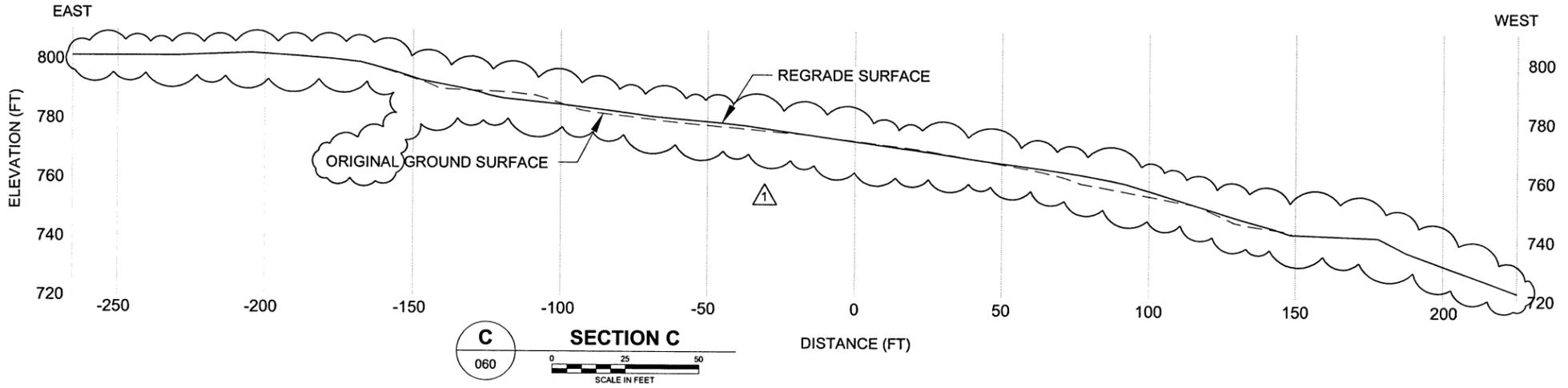
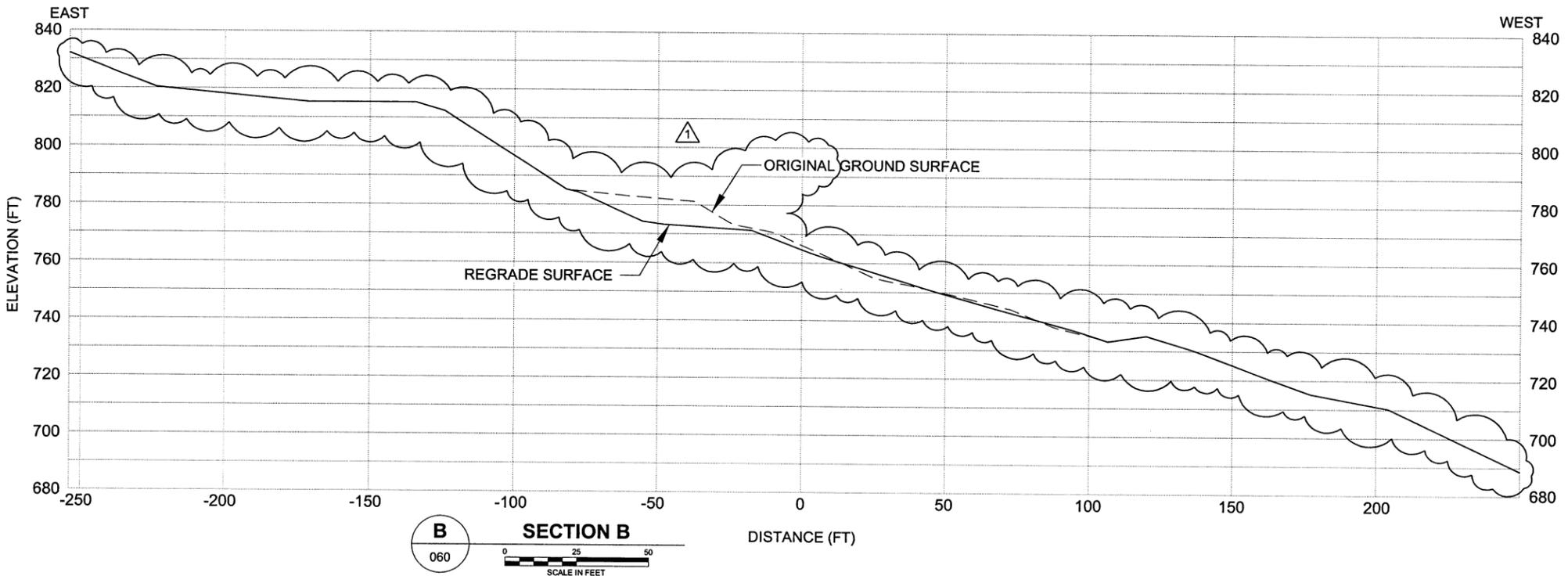
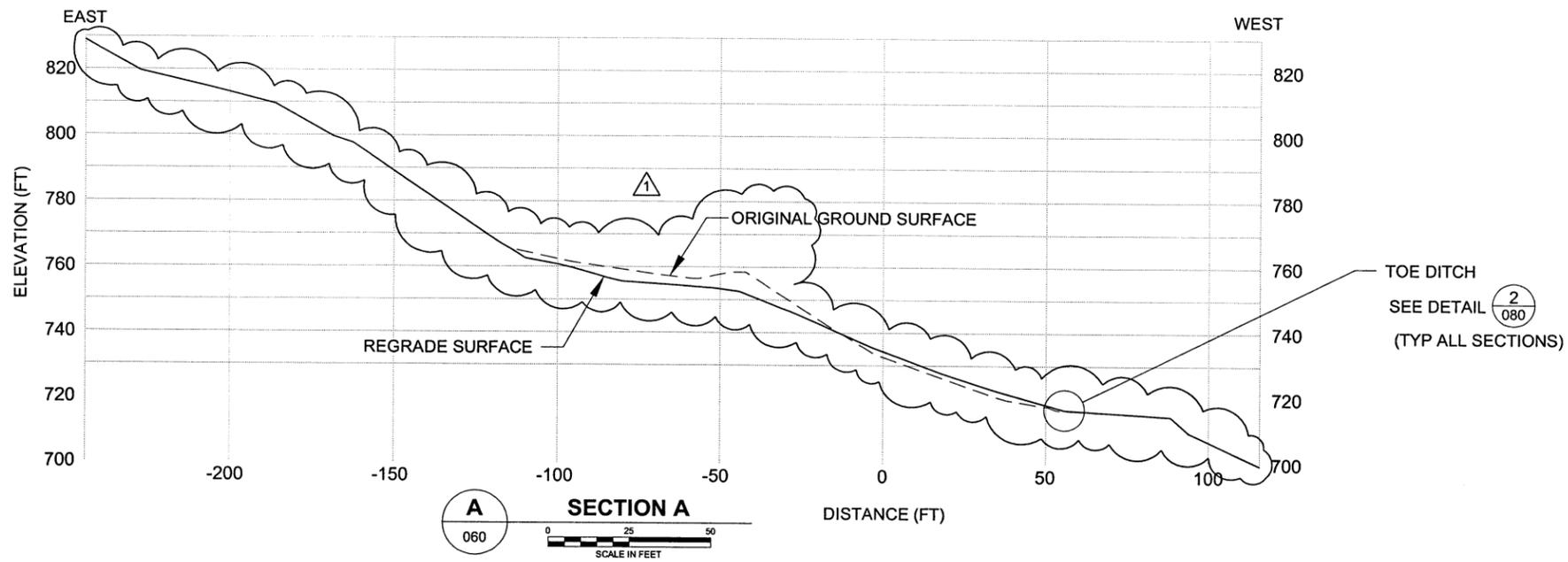
PROJECT
**RESERVE SILICA SITE
 CKD DISPOSAL AREA
 COVER DESIGN**

TITLE
**FINAL GRADES
 LOWER DISPOSAL AREA**

PROJECT No.	073-93074
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CADD	FSS 6-22-07
CHECK	FSS 6-22-07
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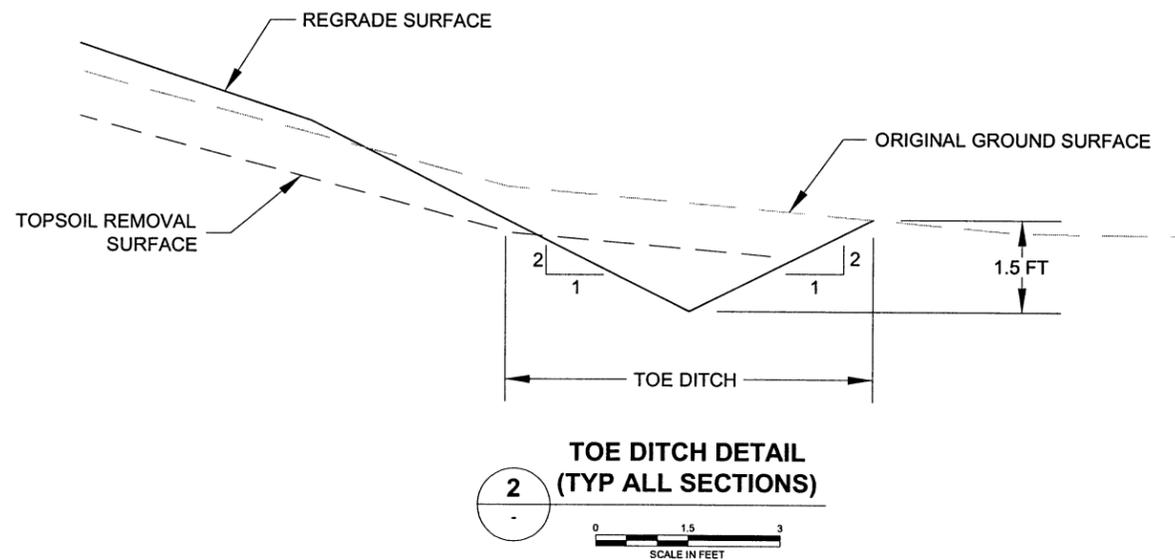
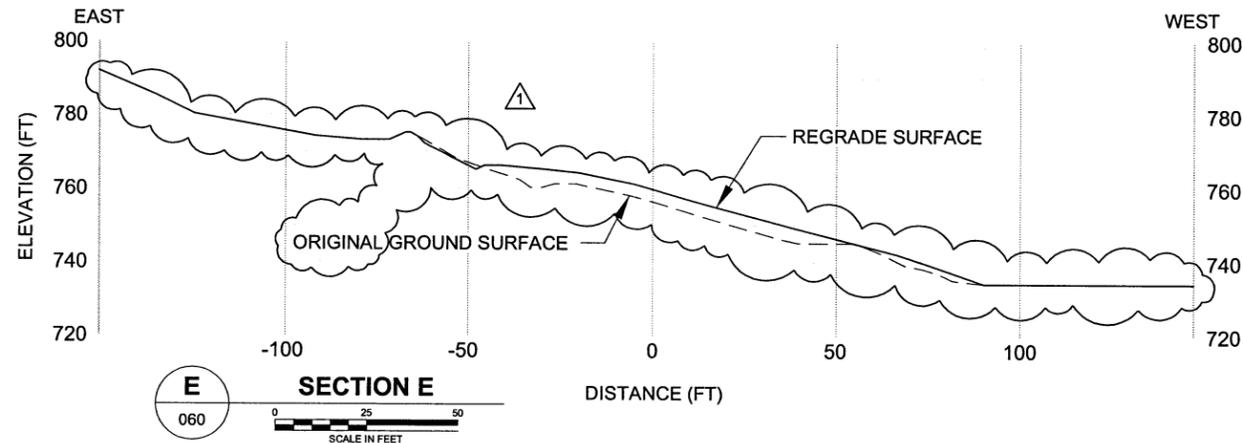
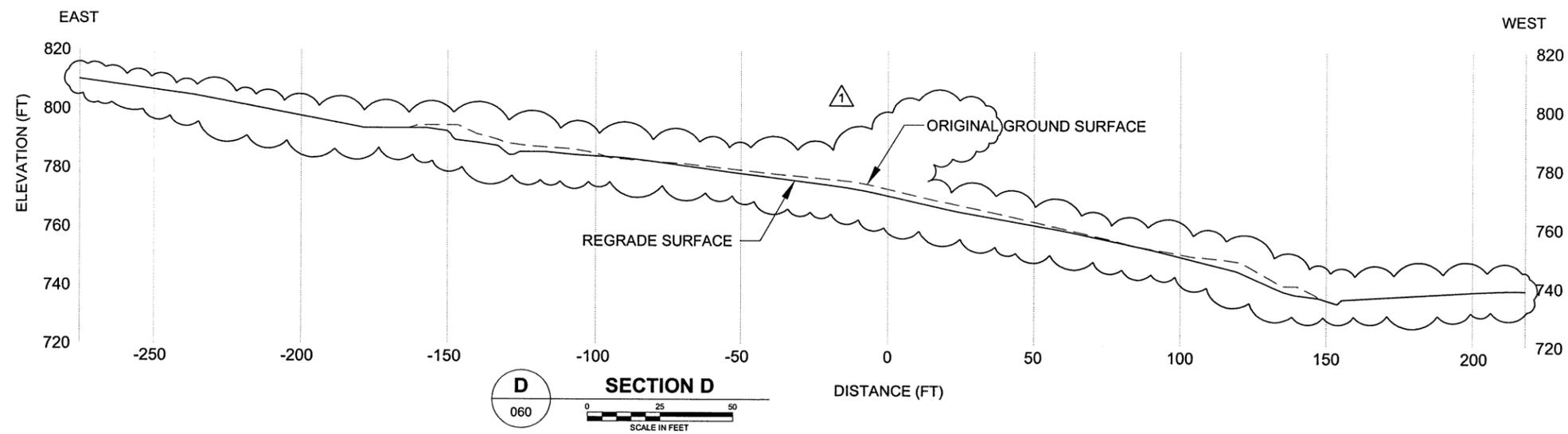
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CHECK	FSS	6-22-07
REVIEW	MG	6-22-07



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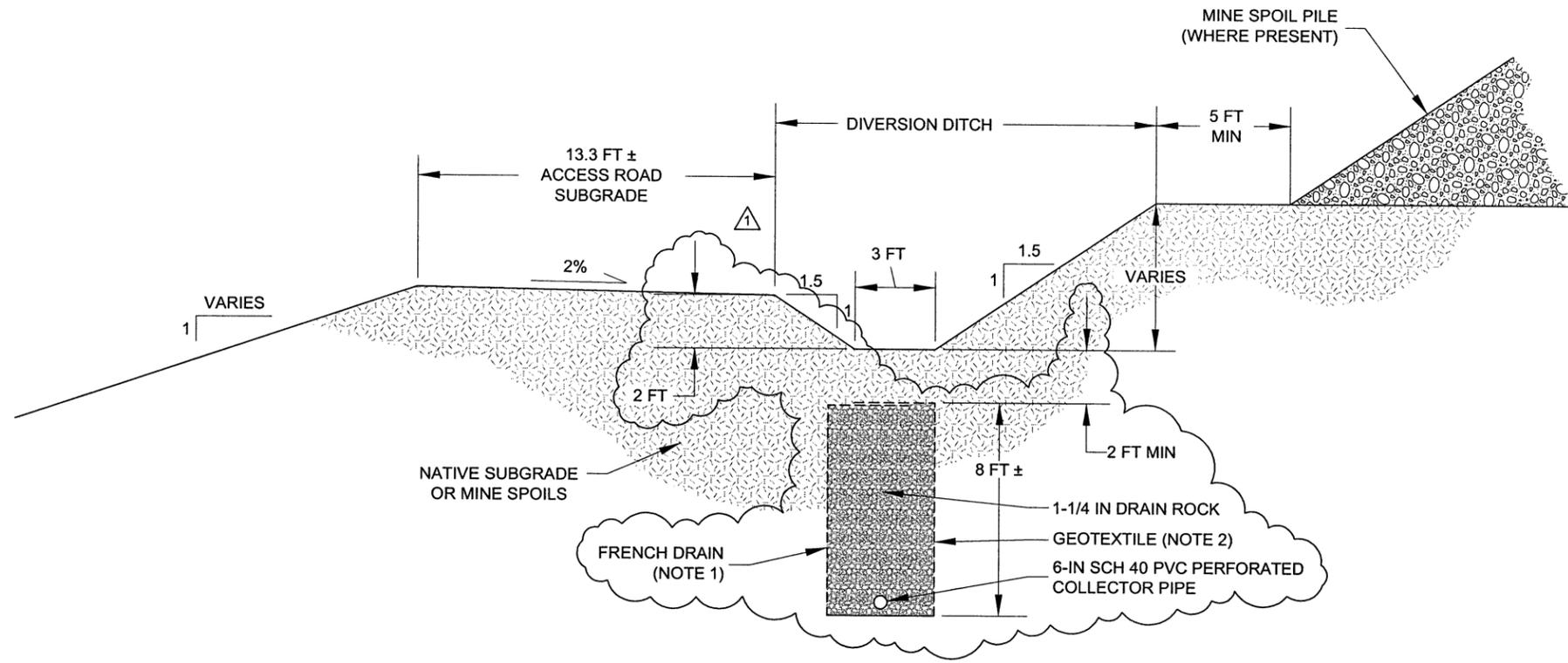
PROJECT
**RESERVE SILICA SITE
CKD DISPOSAL AREA
COVER DESIGN**

TITLE
LDA SECTIONS - 2

PROJECT No.	073-93074
FILE No.	AS SHOWN
REV. 0	SCALE AS SHOWN
DESIGN	FSS 6-22-07
CADD	FSS 6-22-07
CHECK	FSS 6-22-07
REVIEW	MG 6-22-07

SHEET 080

C:\DATA\FSS\0793074 Reserve Silica Drawings\As Built\073_93074_000_002_C01_r1.dwg | 060 | Mod: 04/18/2008, 11:14 | Plotter: 04/18/2008, 11:17 | Ishur



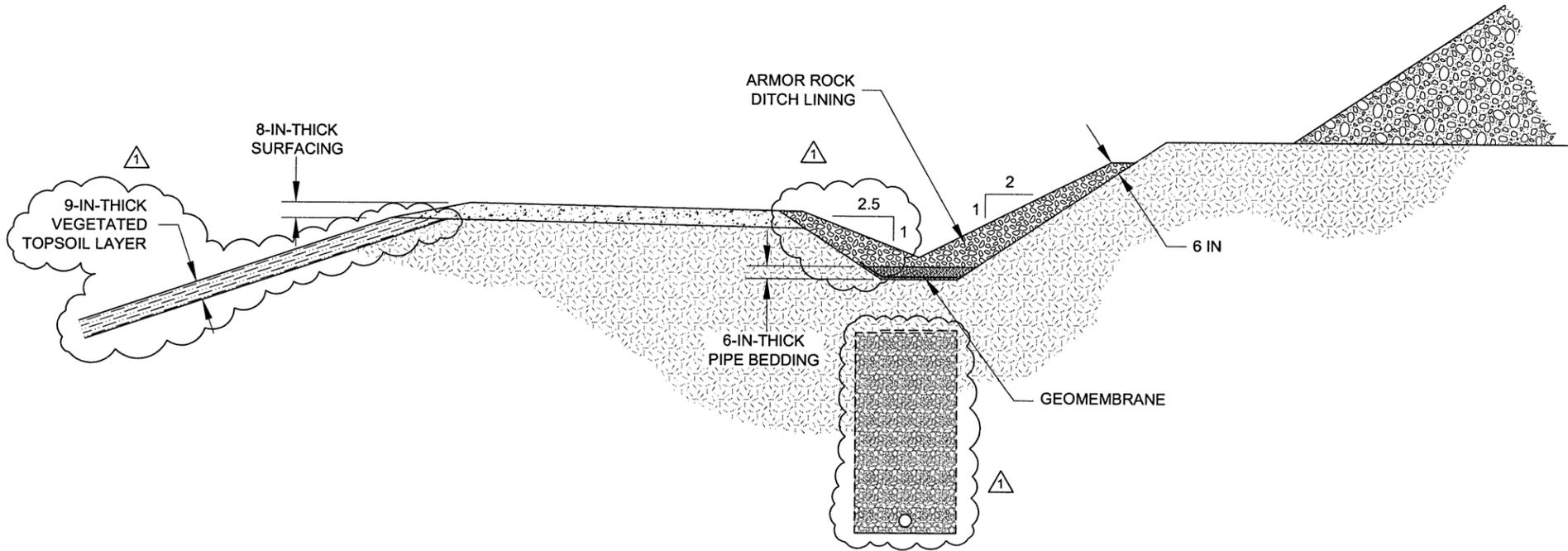
TYPICAL DIVERSION DITCH AND ACCESS ROAD SECTION - REGRADE SURFACE

F
060



NOTES

- SEE SHEET 060 FOR PLAN LOCATION OF FRENCH DRAIN. LATERAL POSITION WITH RESPECT TO DIVERSION DITCH CENTERLINE VARIES APPROXIMATELY 5 FT DOWNSLOPE FROM THAT SHOWN.
- GEOTEXTILE CONSISTS OF 12 OZ/SY NON-WOVEN POLYPROPYLENE, INSTALLED ON SIDES OF TRENCH AND OVERLAPPED ON TOP OF DRAIN ROCK.



TYPICAL DIVERSION DITCH AND ACCESS ROAD SECTION - FINAL SURFACE

G
060



PROJECT		RESERVE SILICA SITE CKD DISPOSAL AREA COVER DESIGN	
REV	DATE	DES	DES
3-31-08	FSS	FSS	FSS
AS-BUILT	ISSUED FOR CONSTRUCTION	REVISION DESCRIPTION	
MG	MG	CADD	CHK
MG	MG	MG	R/W

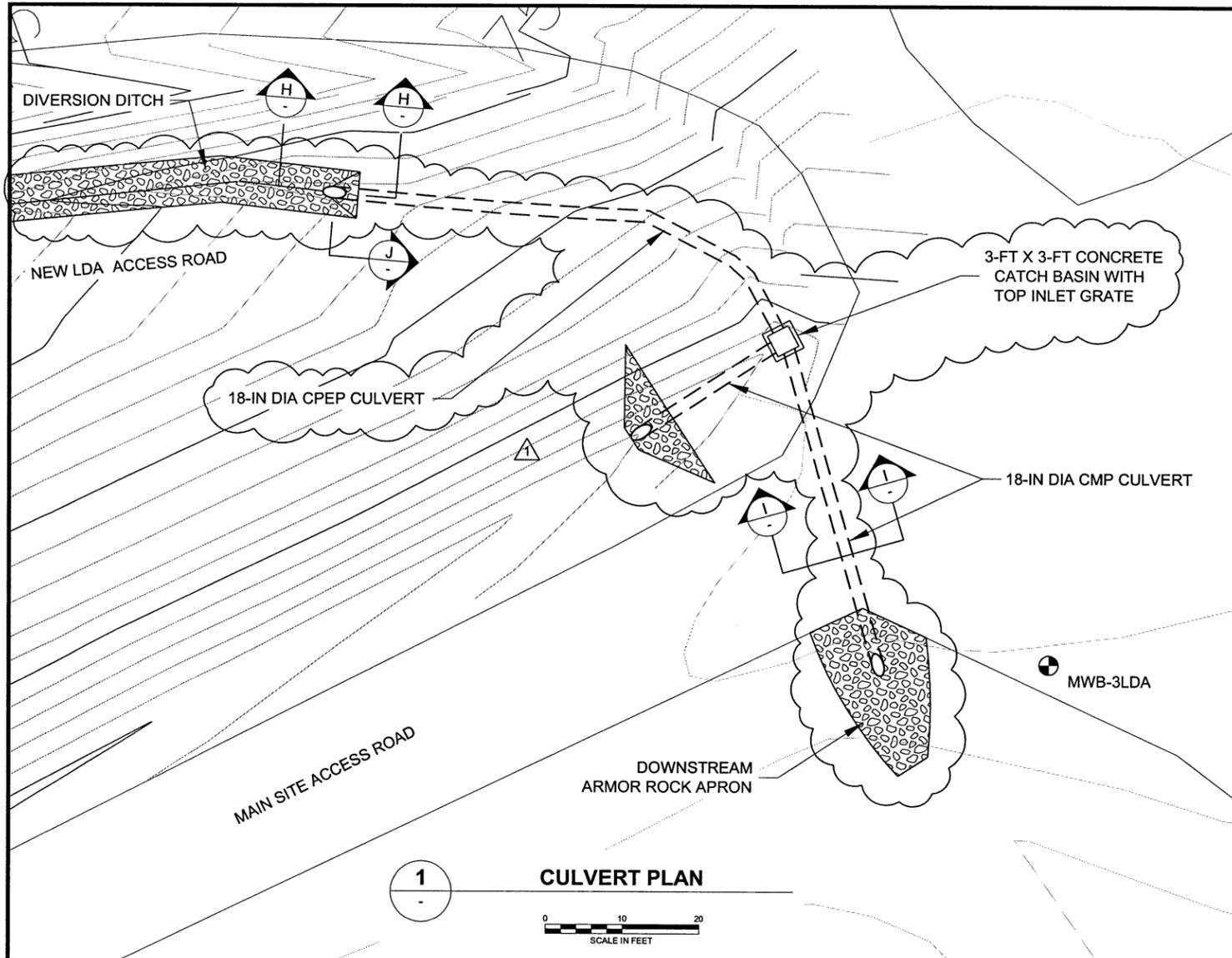
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FILE No.	AS SHOWN
REV. 0	SCALE AS SHOWN
DESIGN	FSS 6-22-07
CADD	FSS 6-22-07
CHECK	FSS 6-22-07
REVIEW	MG 6-22-07

**LDA
DIVERSION DITCH
DETAILS**

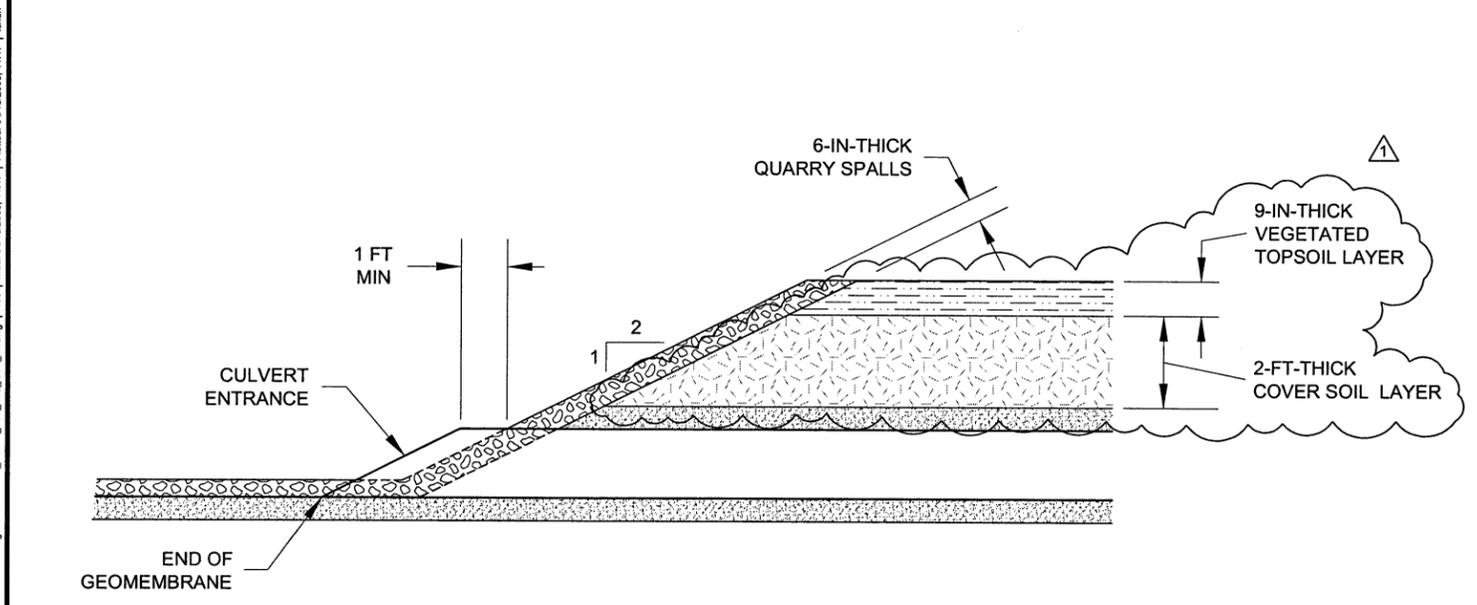
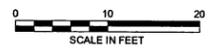
**RESERVE SILICA SITE
CKD DISPOSAL AREA
COVER DESIGN**

PROJECT No.	073-93074
FILE No.	AS SHOWN
REV. 0	SCALE AS SHOWN
DESIGN	FSS 6-22-07
CADD	FSS 6-22-07
CHECK	FSS 6-22-07
REVIEW	MG 6-22-07

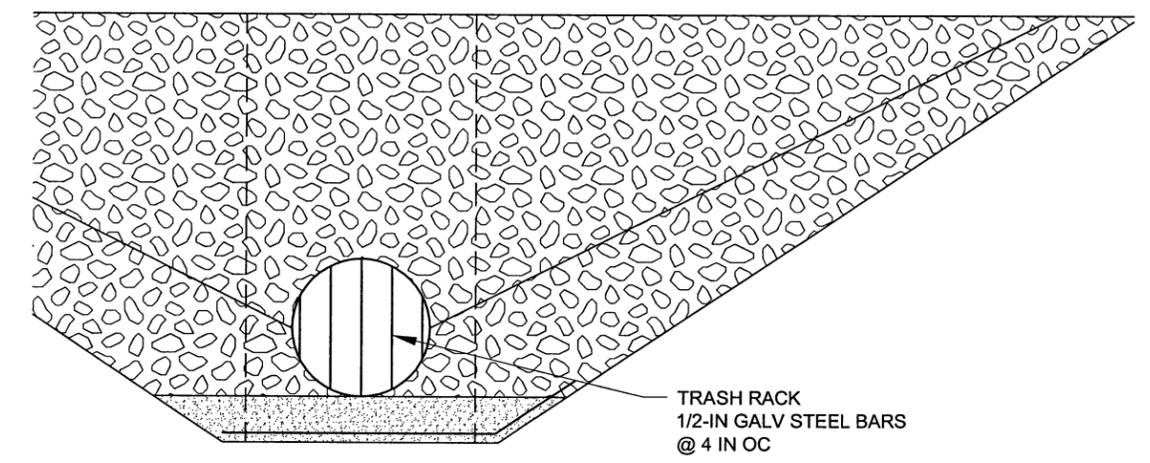
SHEET 090



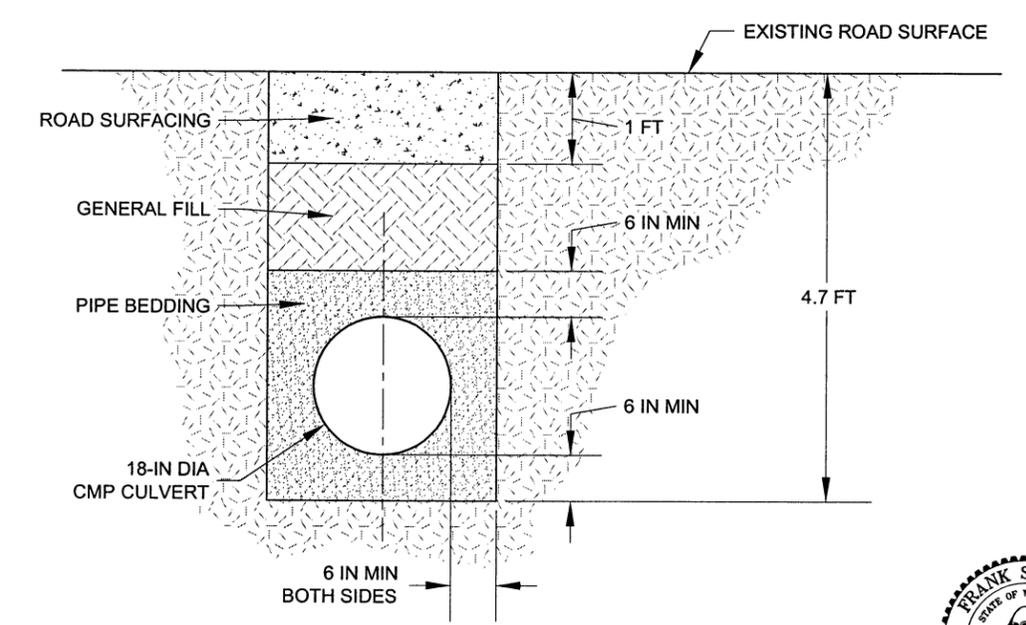
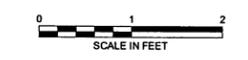
CULVERT PLAN



CULVERT ENTRANCE VERTICAL SECTION (TYP)



CULVERT ENTRANCE ELEVATION (TYP)



CULVERT INSTALLATION CROSS SECTION



NOTES
 1. SEE TECHNICAL SPECIFICATIONS FOR MATERIAL REQUIREMENTS.

Golder Associates
 GOLDER ASSOCIATES INC.
 2000 NE UNION HILL ROAD, SUITE 200
 TOLSON, WA 98561
 TEL: (425) 883-0777
 FAX: (425) 882-5488

REV	DATE	DES	CHK	R/W
3-31-08	FSS	AS-BUILT	FSS	MG
8-7-07	FSS	ISSUED FOR CONSTRUCTION	FSS	MG
		REVISION DESCRIPTION	CADD	CHK

PROJECT	TITLE
RESERVE SILICA SITE CKD DISPOSAL AREA	LDA DRAINAGE CULVERT DETAILS

PROJECT	TITLE
RESERVE SILICA SITE CKD DISPOSAL AREA COVER DESIGN	LDA DRAINAGE CULVERT DETAILS

PROJECT	TITLE
RESERVE SILICA SITE CKD DISPOSAL AREA COVER DESIGN	LDA DRAINAGE CULVERT DETAILS

SHEET 100



C:\DATA\SS0793074 Reserve Silica\Drawings\As Built\073_93074_000_002_C01_r1.dwg | 100 | Mod: 04/19/2008, 11:17 | Plotter: 04/19/2008, 11:17 | fshur

APPENDIX B

DAILY CONSTRUCTION REPORTS

**(Note: Signed original copies of Daily Construction Reports are on file in
Golder Associates Inc. Redmond, Washington, offices.)**

**DAILY CONSTRUCTION REPORT
RESERVE SILICA SITE
LOWER DISPOSAL AREA COVER UPGRADE
RAVENSDALE, WASHINGTON**

REPORT NUMBER 1

Tuesday, September 11, 2007

TO: Frank Shuri/Project File

1 WEATHER

Clear, 57° F (AM), 87° F (PM)

2 PRESENT AT SITE:

CONTRACTOR/ORGANIZATION	RESPONSIBILITY	CONTRACTOR PERSONNEL
Clearcreek Contractors	Excavation Contractor	3
Golder Construction Services	Construction Management-CQA Monitoring	1

EQUIPMENT	CONTRACTOR	NUMBER
Hitachi 200 Excavator	Clearcreek	2
Crew Truck	Clearcreek	1

3 SHIFT STARTS AND FINISHES

CONTRACTOR	START	FINISH
Clearcreek Contractors	07:30	17:00

4 CONSTRUCTION ACTIVITY SUMMARY

Mobilized 2 Hitachi 200 Excavators to the site and began clearing vegetation from the site.

5 QA ACTIVITY SUMMARY

Observed construction activities.

6 HEALTH AND SAFETY

All personnel read and signed Reserve Silica's safety sheet prior to working on site.

Clearcreek's Health and Safety Manager gave a site specific safety meeting prior to starting work activities..

7 MEETINGS AND DISCUSSIONS SUMMARY

Requested that Clearcreek submit, for informational purposes, a copy of their site specific health and safety plan for the project files. Clearcreek's Health and Safety Manager said that a copy of the plan would be emailed to GCS.

Golder Construction Services, Inc.

8 ISSUES AND RESOLUTIONS

No construction or design issues were encountered this shift.

Allan G. MacLeod
Construction Manager

September 11, 2007

AGM/agm

cc: File - Project
File -

**DAILY CONSTRUCTION REPORT
RESERVE SILICA SITE
LOWER DISPOSAL AREA COVER UPGRADE
RAVENSDALE, WASHINGTON**

REPORT NUMBER 2

Wednesday, September 12, 2007

TO: Frank Shuri/Project File

1 WEATHER

Overcast – AM, Partly Cloudy - PM, 54° F (AM), 74° F (PM)

2 PRESENT AT SITE:

CONTRACTOR/ORGANIZATION	RESPONSIBILITY	CONTRACTOR PERSONNEL
Clearcreek Contractors	Excavation Contractor	3
Golder Construction Services	Construction Management-CQA Monitoring	1

EQUIPMENT	CONTRACTOR	NUMBER
Hitachi 200 Excavator	Clearcreek	2
Cat D5M LGP Dozer	Clearcreek	1
Volvo A25C Articulating End Dump	Clearcreek	1
Crew Truck	Clearcreek	1

3 SHIFT STARTS AND FINISHES

CONTRACTOR	START	FINISH
Clearcreek Contractors	06:30	17:00

4 CONSTRUCTION ACTIVITY SUMMARY

Continued clearing vegetation from the site. Cleared vegetation was hauled to the Contractor's Lay Down and Stockpile Area as shown on the Project Drawings.

5 QA ACTIVITY SUMMARY

Observed construction activities.

6 HEALTH AND SAFETY

Clearcreek held a tailgate safety meeting prior to starting work activities.

7 MEETINGS AND DISCUSSIONS SUMMARY

No meetings or discussions were held this shift.

8 ISSUES AND RESOLUTIONS

No construction or design issues were encountered this shift.

Allan G. MacLeod
Construction Manager

September 12, 2007

AGM/agm
cc: File - Project
File -

Golder Construction Services, Inc.

**DAILY CONSTRUCTION REPORT
RESERVE SILICA SITE
LOWER DISPOSAL AREA COVER UPGRADE
RAVENSDALE, WASHINGTON**

REPORT NUMBER 3

Thursday, September 13, 2007

TO: Frank Shuri/Project File

1 WEATHER

Overcast, Fog – AM, Low Overcast - PM, 52° F (AM), 70° F (PM)

2 PRESENT AT SITE:

CONTRACTOR/ORGANIZATION	RESPONSIBILITY	CONTRACTOR PERSONNEL
Clearcreek Contractors	Excavation Contractor	3
Golder Construction Services	Construction Management-CQA Monitoring	1

EQUIPMENT	CONTRACTOR	NUMBER
Hitachi 200 Excavator	Clearcreek	2
Cat D5M LGP Dozer	Clearcreek	1
Volvo A25C Articulating End Dump	Clearcreek	1
Crew Truck	Clearcreek	1

3 SHIFT STARTS AND FINISHES

CONTRACTOR	START	FINISH
Clearcreek Contractors	06:30	17:00

4 CONSTRUCTION ACTIVITY SUMMARY

Continued clearing vegetation from the site. Cleared vegetation was hauled to the Contractor's Lay Down and Stockpile Area as shown on the Project Drawings.

5 QA ACTIVITY SUMMARY

Observed construction activities.

6 HEALTH AND SAFETY

Clearcreek held a tailgate safety meeting prior to starting work activities.

7 MEETINGS AND DISCUSSIONS SUMMARY

No meetings or discussions were held this shift.

8 ISSUES AND RESOLUTIONS

No construction or design issues were encountered this shift.

Allan G. MacLeod
Construction Manager

September 13, 2007

AGM/agm
cc: File - Project
File -

Golder Construction Services, Inc.

**DAILY CONSTRUCTION REPORT
RESERVE SILICA SITE
LOWER DISPOSAL AREA COVER UPGRADE
RAVENSDALE, WASHINGTON**

REPORT NUMBER 4

Friday, September 14, 2007

TO: Frank Shuri/Project File

1 WEATHER

Overcast, Fog – AM, Mostly Cloudy - PM, 48° F (AM), 67° F (PM)

2 PRESENT AT SITE:

CONTRACTOR/ORGANIZATION	RESPONSIBILITY	CONTRACTOR PERSONNEL
Clearcreek Contractors	Excavation Contractor	3
Golder Construction Services	Construction Management-CQA Monitoring	1

EQUIPMENT	CONTRACTOR	NUMBER
Hitachi 200 Excavator	Clearcreek r	2
Hitachi 330 Excavator	Clearcreek	1
Cat D5M LGP Dozer	Clearcreek	1
Volvo A25C Articulating End Dump	Clearcreek	1
Crew Truck	Clearcreek	1

3 SHIFT STARTS AND FINISHES

CONTRACTOR	START	FINISH
Clearcreek Contractors	06:30	15:00

4 CONSTRUCTION ACTIVITY SUMMARY

Continued clearing vegetation from the site. Cleared vegetation was hauled to the Contractor's Lay Down and Stockpile Area as shown on the Project Drawings.

Silt fence materials were delivered to the site this shift:

Silt Fence Fabric – 8 rolls @ 3 ft x 400ft

Welded Wire Mesh – 27 rolls @ 3 ft x 100 ft

Fence Posts – 300 ea.

Plastic Sheeting – 6 rolls @ 20 ft x 200 ft; 4 rolls @ 40 ft x 100 ft

5 QA ACTIVITY SUMMARY

Observed construction activities.

6 HEALTH AND SAFETY

Clearcreek held a tailgate safety meeting prior to starting work activities.

7 MEETINGS AND DISCUSSIONS SUMMARY

No meetings or discussions were held this shift.

8 ISSUES AND RESOLUTIONS

No construction or design issues were encountered this shift.

Allan G. MacLeod
Construction Manager

September 14, 2007

AGM/agm

cc: File - Project
File - Field

**DAILY CONSTRUCTION REPORT
RESERVE SILICA SITE
LOWER DISPOSAL AREA COVER UPGRADE
RAVENSDALE, WASHINGTON**

REPORT NUMBER 5

Monday, September 17, 2007

TO: Frank Shuri/Project File

1 WEATHER

Overcast, Showers – AM, Overcast, Showers - PM, 48° F (AM), 65° F (PM)

2 PRESENT AT SITE:

CONTRACTOR/ORGANIZATION	RESPONSIBILITY	CONTRACTOR PERSONNEL
Clearcreek Contractors	Excavation Contractor	3
Pacific Geomatic Services, Inc.	Surveying	2
Golder Construction Services	Construction Management- CQA Monitoring	1

EQUIPMENT	CONTRACTOR	NUMBER
Hitachi 200 Excavator	Clearcreek r	2
Hitachi 330 Excavator	Clearcreek	1
Cat D5M LGP Dozer	Clearcreek	1
Volvo A25C Articulating End Dump	Clearcreek	1
Crew Truck	Clearcreek	1

3 SHIFT STARTS AND FINISHES

CONTRACTOR	START	FINISH
Clearcreek Contractors	07:00	16:00

4 CONSTRUCTION ACTIVITY SUMMARY

Continued clearing vegetation from the site. Cleared vegetation was hauled to the Contractor's Lay Down and Stockpile Area as shown on the Project Drawings.

Pacific Geomatic Services began the initial survey to determine existing surface conditions for quantity determinations.

5 QA ACTIVITY SUMMARY

Observed construction activities.

6 HEALTH AND SAFETY

Clearcreek held a tailgate safety meeting prior to starting work activities.

7 MEETINGS AND DISCUSSIONS SUMMARY

Frank Shuri and Noel Dietrich of Golder Associates and Mark McCullough of Clearcreek were on site today to observe existing surface conditions and to discuss options for upper ditch construction.

Golder Construction Services, Inc.

8 ISSUES AND RESOLUTIONS

No construction or design issues were encountered this shift.

Allan G. MacLeod
Construction Manager

September 17, 2007

AGM/agm

cc: File - Project
File - Field

**DAILY CONSTRUCTION REPORT
RESERVE SILICA SITE
LOWER DISPOSAL AREA COVER UPGRADE
RAVENSDALE, WASHINGTON**

REPORT NUMBER 6

Tuesday, September 18, 2007

TO: Frank Shuri/Project File

1 WEATHER

Overcast– AM, Mostly Cloudy - PM, 51° F (AM), 66° F (PM)

2 PRESENT AT SITE:

CONTRACTOR/ORGANIZATION	RESPONSIBILITY	CONTRACTOR PERSONNEL
Clearcreek Contractors	Excavation Contractor	3
Pacific Geomatic Services, Inc.	Surveying	2
Golder Construction Services	Construction Management- CQA Monitoring	1

EQUIPMENT	CONTRACTOR	NUMBER
Hitachi 200 Excavator	Clearcreek r	2
Hitachi 330 Excavator	Clearcreek	1
Cat D5M LGP Dozer	Clearcreek	1
Volvo A25C Articulating End Dump	Clearcreek	1
Crew Truck	Clearcreek	1

3 SHIFT STARTS AND FINISHES

CONTRACTOR	START	FINISH
Clearcreek Contractors	07:00	16:00

4 CONSTRUCTION ACTIVITY SUMMARY

Completed clearing vegetation from the site. Cleared vegetation was hauled to the Contractor's Lay Down and Stockpile Area as shown on the Project Drawings. Began stripping topsoil in the southern area of the site.

Pacific Geomatic Services continued the initial survey to determine existing surface conditions for quantity determinations.

5 QA ACTIVITY SUMMARY

Observed construction activities. Looked at a potential source of pipe bedding sand. Material appeared to be suitable for use as bedding sand. Material will be tested for compliance with the project specifications.

6 HEALTH AND SAFETY

Clearcreek held a tailgate safety meeting prior to starting work activities.

Clearcreek Supervisor indicated that he had been bitten by a spider on Monday, September 18, 2007.

Golder Construction Services, Inc.

7 MEETINGS AND DISCUSSIONS**SUMMARY**

Spoke with Frank Shuri (Golder Associates) about the pipe bedding sand and the uncovered of CKD during the topsoil stripping operations (See Below).

8 ISSUES AND RESOLUTIONS

Issue 0918-1: During topsoil stripping operations, cement kiln dust (CKD) was encountered at a depth of approximately 6-inches. The CKD was encountered in an area which is scheduled for regrading.

Issue 0918-1 Resolution: Stripping and regrading work will continue in the area where the CKD was encountered. The CKD will be regraded as necessary and covered with a minimum of 2-feet of cover soil. The CKD will be protected from precipitation during regrading activities.

Allan G. MacLeod
Construction Manager

September 18, 2007

AGM/agm

cc: File - Project
File - Field

**DAILY CONSTRUCTION REPORT
RESERVE SILICA SITE
LOWER DISPOSAL AREA COVER UPGRADE
RAVENSDALE, WASHINGTON**

REPORT NUMBER 7

Wednesday, September 19, 2007

TO: Frank Shuri/Project File

1 WEATHER

Partly Cloudy-- AM, Mostly Clear - PM, 48° F (AM), 75° F (PM)

2 PRESENT AT SITE:

CONTRACTOR/ORGANIZATION	RESPONSIBILITY	CONTRACTOR PERSONNEL
Clearcreek Contractors	Excavation Contractor	4
Pacific Geomatic Services, Inc.	Surveying	2
Golder Construction Services	Construction Management- CQA Monitoring	1

EQUIPMENT	CONTRACTOR	NUMBER
Hitachi 200 Excavator	Clearcreek r	2
Hitachi 330 Excavator	Clearcreek	1
Cat D5M LGP Dozer	Clearcreek	1
Volvo A25C Articulating End Dump	Clearcreek	1
Crew Truck	Clearcreek	1

3 SHIFT STARTS AND FINISHES

CONTRACTOR	START	FINISH
Clearcreek Contractors	07:00	16:30

4 CONSTRUCTION ACTIVITY SUMMARY

Continued stripping topsoil in the southern area of the site.

Reserve Silica delivered 25 loads of pipe bedding sand.

Pacific Geomatic Services completed the initial survey to determine existing surface conditions for quantity determinations.

5 QA ACTIVITY SUMMARY

Observed construction activities. Looked at a potential source of pipe bedding sand. Material appeared to be suitable for use as bedding sand. Material will be tested for compliance with the project specifications.

6 HEALTH AND SAFETY

Clearcreek held a tailgate safety meeting prior to starting work activities.

The rear window of the Volvo A25C End Dump Truck broke out during loading operations. No debris came in contact with the window when the glass broke. The truck driver sustained minor cuts and scratches.

Golder Construction Services, Inc.

7 MEETINGS AND DISCUSSIONS SUMMARY

Spoke with Frank Shuri (Golder Associates) about the uncovered of CKD during the topsoil stripping operations (See Below).

8 ISSUES AND RESOLUTIONS

Issue 0919-1: During topsoil stripping operations, additional cement kiln dust (CKD) was encountered at a depth of approximately 6-inches. The CKD was encountered in an area which is scheduled for regarding.

Issue 0919-1 Resolution: Stripping and regarding work will continue in the area where the CKD was encountered. The CKD will be regraded as necessary and covered with a minimum of 2-feet of cover soil. The CKD will be protected from precipitation during regrading activities.

Allan G. MacLeod
Construction Manager

September 19, 2007

AGM/agm

cc: File - Project
File - Field

**DAILY CONSTRUCTION REPORT
RESERVE SILICA SITE
LOWER DISPOSAL AREA COVER UPGRADE
RAVENSDALE, WASHINGTON**

REPORT NUMBER 8

Thursday, September 20, 2007

TO: Frank Shuri/Project File

1 WEATHER

Overcast– AM, Partly Cloudy - PM, 48° F (AM), 65° F (PM)

2 PRESENT AT SITE:

CONTRACTOR/ORGANIZATION	RESPONSIBILITY	CONTRACTOR PERSONNEL
Clearcreek Contractors	Excavation Contractor	4
Golder Construction Services	Construction Management- CQA Monitoring	1

EQUIPMENT	CONTRACTOR	NUMBER
Hitachi 200 Excavator	Clearcreek r	2
Hitachi 330 Excavator	Clearcreek	1
Cat D5M LGP Dozer	Clearcreek	1
Volvo A25C Articulating End Dump	Clearcreek	1
Crew Truck	Clearcreek	1

3 SHIFT STARTS AND FINISHES

CONTRACTOR	START	FINISH
Clearcreek Contractors	07:00	16:30

4 CONSTRUCTION ACTIVITY SUMMARY

Continued topsoil stripping operations

5 QA ACTIVITY SUMMARY

Observed construction activities.

Directed Clearcreek to excavate 5 test pits to determine to amount of cover soil in an area where a potential drain pipe would be installed and along the main haul road under the power lines.

6 HEALTH AND SAFETY

Clearcreek held a tailgate safety meeting prior to starting work activities.

7 MEETINGS AND DISCUSSIONS SUMMARY

Spoke with Frank Shuri (Golder Associates) about the uncovered of CKD during the topsoil stripping operations (See Below).

Golder Construction Services, Inc.

8 ISSUES AND RESOLUTIONS

Issue 0920-1: During topsoil stripping operations, additional cement kiln dust (CKD) was encountered at a depth of approximately 6-inches. The CKD was encountered in an area which is scheduled for regarding.

Issue 0920-1 Resolution: Stripping and regarding work will continue in the area where the CKD was encountered. The CKD will be regraded as necessary and covered with a minimum of 2-feet of cover soil. The CKD will be protected from precipitation during regrading activities.

Allan G. MacLeod
Construction Manager

September 20, 2007

AGM/agm
cc: File - Project
File - Field

**DAILY CONSTRUCTION REPORT
RESERVE SILICA SITE
LOWER DISPOSAL AREA COVER UPGRADE
RAVENSDALE, WASHINGTON**

REPORT NUMBER 9

Friday, September 21, 2007

TO: Frank Shuri/Project File

1 WEATHER

Partly Cloudy – AM, Mostly Clear - PM, 46° F (AM), 68° F (PM)

2 PRESENT AT SITE:

CONTRACTOR/ORGANIZATION	RESPONSIBILITY	CONTRACTOR PERSONNEL
Clearcreek Contractors	Excavation Contractor	6
Golder Construction Services	Construction Management- CQA Monitoring	1

EQUIPMENT	CONTRACTOR	NUMBER
Hitachi 200 Excavator	Clearcreek r	2
Hitachi 330 Excavator	Clearcreek	1
Cat D8R Dozer	Clearcreek	1
Volvo A25C Articulating End Dump	Clearcreek	1
12 Yard Dump Truck	Clearcreek	2
Crew Truck	Clearcreek	2

3 SHIFT STARTS AND FINISHES

CONTRACTOR	START	FINISH
Clearcreek Contractors	07:00	16:30

4 CONSTRUCTION ACTIVITY SUMMARY

Continued topsoil stripping operations. Mobilized a Cat D8R dozer to the site and demobilized the Cat D5M LGP dozer from the site in the morning. Demobilized one Hitachi 200 Excavator at the end of the shift.

Hauled Contingency Fine Soil from Reserve Silica's settling ponds to stockpile area to the east of the project site.

5 QA ACTIVITY SUMMARY

Observed construction activities. Obtained a sample of "Infield Sand" for #200 wash sieve analysis.

Directed Clearcreek to begin excavation of test pits to determine to amount of cover soil in the northern portion of the site. Five test pits were excavated this shift. One and a half hours of test pit work this shift.

6 HEALTH AND SAFETY

Clearcreek held a tailgate safety meeting prior to starting work activities.

Golder Construction Services, Inc.

7 MEETINGS AND DISCUSSIONS**SUMMARY**

Spoke with Frank Shuri (Golder Associates) about the unknown conditions regarding the location of CKD within the construction area. Frank directed that Clearcreek excavate a series of test pits to determine subsurface conditions in the northern portion of the site.

8 ISSUES AND RESOLUTIONS

No issues encountered this shift.

Allan G. MacLeod
Construction Manager

September 21, 2007

AGM/agm

cc: File - Project
File - Field

**DAILY CONSTRUCTION REPORT
RESERVE SILICA SITE
LOWER DISPOSAL AREA COVER UPGRADE
RAVENSDALE, WASHINGTON**

REPORT NUMBER 10

Monday, September 24, 2007

TO: Frank Shuri/Project File

1 WEATHER

Partly Cloudy – AM, Mostly Clear - PM, 51° F (AM), 64° F (PM)

2 PRESENT AT SITE:

CONTRACTOR/ORGANIZATION	RESPONSIBILITY	CONTRACTOR PERSONNEL
Clearcreek Contractors	Excavation Contractor	4
Golder Construction Services	Construction Management- CQA Monitoring	1

EQUIPMENT	CONTRACTOR	NUMBER
Hitachi 200 Excavator	Clearcreek r	1
Hitachi 330 Excavator	Clearcreek	1
Cat D8R Dozer	Clearcreek	1
JD 550 Dozer	Clearcreek	1
Volvo A25C Articulating End Dump	Clearcreek	1
Crew Truck	Clearcreek	2

3 SHIFT STARTS AND FINISHES

CONTRACTOR	START	FINISH
Clearcreek Contractors	07:00	16:30

4 CONSTRUCTION ACTIVITY SUMMARY

Continued topsoil stripping operations. Mobilized a JD 550 dozer to the site in the morning.

PVC geomembrane delivered to the site.

5 QA ACTIVITY SUMMARY

Observed construction activities. Obtained a sample of “Infield Sand” for #200 wash sieve analysis.

Directed Clearcreek to continue excavation of test pits to determine to amount of cover soil in the northern portion of the site. Ten test pits were excavated this shift. Four hours of test pit work this shift.

Plotted test pit locations on site layout sheet and emailed the file to Frank Shuri.

6 HEALTH AND SAFETY

Clearcreek held a tailgate safety meeting prior to starting work activities.

Golder Construction Services, Inc.

7 MEETINGS AND DISCUSSIONS SUMMARY

Discussed with Frank Shuri (Golder Associates) the results of the test pits in the northern portion of the site.

8 ISSUES AND RESOLUTIONS

No issues encountered this shift.

Allan G. MacLeod
Construction Manager

September 24, 2007

AGM/agm

cc: File - Project
File - Field

**DAILY CONSTRUCTION REPORT
RESERVE SILICA SITE
LOWER DISPOSAL AREA COVER UPGRADE
RAVENSDALE, WASHINGTON**

REPORT NUMBER 11

Tuesday, September 25, 2007

TO: Frank Shuri/Project File

1 WEATHER

Overcast, Showers – AM, Mostly Cloudy - PM, 48° F (AM), 64° F (PM)

2 PRESENT AT SITE:

CONTRACTOR/ORGANIZATION	RESPONSIBILITY	CONTRACTOR PERSONNEL
Clearcreek Contractors	Excavation Contractor	5
Golder Construction Services	Construction Management-CQA Monitoring	1

EQUIPMENT	CONTRACTOR	NUMBER
Hitachi 200 Excavator	Clearcreek r	1
Hitachi 330 Excavator	Clearcreek	1
Cat D8R Dozer	Clearcreek	1
JD 550 Dozer	Clearcreek	1
Volvo A25C Articulating End Dump	Clearcreek	1
12 Yard End dump	Clearcreek	1
Crew Truck	Clearcreek	2

3 SHIFT STARTS AND FINISHES

CONTRACTOR	START	FINISH
Clearcreek Contractors	07:00	17:00

4 CONSTRUCTION ACTIVITY SUMMARY

Continued topsoil stripping operations.

5 QA ACTIVITY SUMMARY

Observed construction activities.

Performed #200 wash sieve analysis on sample potential material for cover soil. Sample had 21.7% passing the #200 sieve.

6 HEALTH AND SAFETY

Clearcreek held a tailgate safety meeting prior to starting work activities.

7 MEETINGS AND DISCUSSIONS SUMMARY

Discussed with Frank Shuri (Golder Associates) possible grading plans based on the survey provided by Clearcreek..

Golder Construction Services, Inc.

8 ISSUES AND RESOLUTIONS

No issues encountered this shift.

Allan G. MacLeod
Construction Manager

September 25, 2007

AGM/agm

cc: File - Project
File - Field

**DAILY CONSTRUCTION REPORT
RESERVE SILICA SITE
LOWER DISPOSAL AREA COVER UPGRADE
RAVENSDALE, WASHINGTON**

REPORT NUMBER 12

Wednesday, September 26, 2007

TO: Frank Shuri/Project File

1 WEATHER

Partly Cloudy – AM, Mostly Clear - PM, 51° F (AM), 66° F (PM)

2 PRESENT AT SITE:

CONTRACTOR/ORGANIZATION	RESPONSIBILITY	CONTRACTOR PERSONNEL
Clearcreek Contractors	Excavation Contractor	5
Pacific Geometric Services, Inc.	Survey	2
Golder Construction Services	Construction Management- CQA Monitoring	1

EQUIPMENT	CONTRACTOR	NUMBER
Hitachi 200 Excavator	Clearcreek r	1
Hitachi 330 Excavator	Clearcreek	1
Cat D8R Dozer	Clearcreek	1
JD 550 Dozer	Clearcreek	1
Volvo A25C Articulating End Dump	Clearcreek	1
Cat 815B Compactor	Clearcreek	1
Crew Truck	Clearcreek	2

3 SHIFT STARTS AND FINISHES

CONTRACTOR	START	FINISH
Clearcreek Contractors	07:00	17:00

4 CONSTRUCTION ACTIVITY SUMMARY

Continued topsoil stripping operations. Began site regrading. Cat 815B, Wedgefoot Compactor mobilized to the site. Tub Grinder mobilized to the site at the end of shift.

5 QA ACTIVITY SUMMARY

Observed construction activities.

6 HEALTH AND SAFETY

Clearcreek held a tailgate safety meeting prior to starting work activities.

7 MEETINGS AND DISCUSSIONS SUMMARY

Site meeting was held between Golder and Clearcreek to discuss revised site grading plan. The existing site conditions varied enough from the design drawing to require revision to the site grading. Cement Kiln Dust (CKD) has been found near surface over a large section of the southern portion of the site. This area will be

Golder Construction Services, Inc.

regraded to allow proper drainage and then covered with 2-feet of cover soil which will be borrowed from the north central portion of the site. Golder's Construction Manager and Clearcreek's site supervisor will work together to determine the site grades, staying within the parameters of the design specifications.

8 ISSUES AND RESOLUTIONS

No issues encountered this shift.

Allan G. MacLeod
Construction Manager

September 26, 2007

AGM/agm

cc: File - Project
File - Field

**DAILY CONSTRUCTION REPORT
RESERVE SILICA SITE
LOWER DISPOSAL AREA COVER UPGRADE
RAVENSDALE, WASHINGTON**

REPORT NUMBER 13

Thursday, September 27, 2007

TO: Frank Shuri/Project File

1 WEATHER

Partly Cloudy – AM, Mostly Cloudy - PM, 51° F (AM), 66° F (PM)

2 PRESENT AT SITE:

CONTRACTOR/ORGANIZATION	RESPONSIBILITY	CONTRACTOR PERSONNEL
Clearcreek Contractors	Excavation Contractor	5
Pacific Geometric Services, Inc.	Survey	2
Golder Construction Services	Construction Management- CQA Monitoring	1

EQUIPMENT	CONTRACTOR	NUMBER
Hitachi 200 Excavator	Clearcreek r	1
Hitachi 330 Excavator	Clearcreek	1
Cat D8R Dozer	Clearcreek	1
JD 550 Dozer	Clearcreek	1
Volvo A25C Articulating End Dump	Clearcreek	1
Cat 815B Compactor	Clearcreek	1
Crew Truck	Clearcreek	2

3 SHIFT STARTS AND FINISHES

CONTRACTOR	START	FINISH
Clearcreek Contractors	07:00	17:00

4 CONSTRUCTION ACTIVITY SUMMARY

Topsoil stripping substantially complete. Continued site regrading in the southern portion of the site.

Pacific Geometric Services completed survey of the site for topsoil volume determination.

5 QA ACTIVITY SUMMARY

Observed construction activities.

6 HEALTH AND SAFETY

Clearcreek held a tailgate safety meeting prior to starting work activities. Clearcreek added a section to their Site Health and Safety Plan which addresses working with Cement Kiln Dust during site regrading.

7 MEETINGS AND DISCUSSIONS SUMMARY

No meetings or discussions were held this shift.

Golder Construction Services, Inc.

8 ISSUES AND RESOLUTIONS

No issues encountered this shift.

Allan G. MacLeod
Construction Manager

September 27, 2007

AGM/agm

cc: File - Project
File - Field

**DAILY CONSTRUCTION REPORT
RESERVE SILICA SITE
LOWER DISPOSAL AREA COVER UPGRADE
RAVENSDALE, WASHINGTON**

REPORT NUMBER 14

Friday, September 28, 2007

TO: Frank Shuri/Project File

1 WEATHER

Overcast - Rain – AM, - PM, 51° F (AM), ° F (PM)

2 PRESENT AT SITE:

CONTRACTOR/ORGANIZATION	RESPONSIBILITY	CONTRACTOR PERSONNEL
Clearcreek Contractors	Excavation Contractor	3
Diamond Wood Recycling, Inc.	Wood Chipping	2
Golder Construction Services	Construction Management- CQA Monitoring	1

EQUIPMENT	CONTRACTOR	NUMBER
Hitachi 200 Excavator	Clearcreek r	1
Hitachi 330 Excavator	Clearcreek	1
Cat D8R Dozer	Clearcreek	1
JD 550 Dozer	Clearcreek	1
Volvo A25C Articulating End Dump	Clearcreek	1
Cat 815B Compactor	Clearcreek	1
Crew Truck	Clearcreek	2
Hitachi 200 Excavator	Diamond Wood Recycling	1
Toro Tub Grinder	Diamond Wood Recycling	1
Crew Truck	Diamond Wood Recycling	1

3 SHIFT STARTS AND FINISHES

CONTRACTOR	START	FINISH
Clearcreek Contractors	07:00	12:00

4 CONSTRUCTION ACTIVITY SUMMARY

No site grading work performed this shift. Work area too wet.

Diamond Wood Recycling began chipping removed vegetation.

5 QA ACTIVITY SUMMARY

Observed construction activities.

6 HEALTH AND SAFETY

Clearcreek held a tailgate safety meeting prior to starting work activities.

Golder Construction Services, Inc.

7 MEETINGS AND DISCUSSIONS

SUMMARY

No meetings or discussions were held this shift.

8 ISSUES AND RESOLUTIONS

No issues encountered this shift.

Allan G. MacLeod
Construction Manager

September 28, 2007

AGM/agm

cc: File - Project
File - Field

**DAILY CONSTRUCTION REPORT
RESERVE SILICA SITE
LOWER DISPOSAL AREA COVER UPGRADE
RAVENSDALE, WASHINGTON**

REPORT NUMBER 15

Monday, October 1, 2007

TO: Frank Shuri/Project File

1 WEATHER

Overcast -- AM, Partly Cloudy- PM, 51° F (AM), 62° F (PM)

2 PRESENT AT SITE:

CONTRACTOR/ORGANIZATION	RESPONSIBILITY	CONTRACTOR PERSONNEL
Clearcreek Contractors	Excavation Contractor	3
Diamond Wood Recycling, Inc.	Wood Chipping	1
Golder Construction Services	Construction Management- CQA Monitoring	1

EQUIPMENT	CONTRACTOR	NUMBER
Hitachi 200 Excavator	Clearcreek r	1
Hitachi 330 Excavator	Clearcreek	1
Cat D8R Dozer	Clearcreek	1
JD 550 Dozer	Clearcreek	1
Volvo A25C Articulating End Dump	Clearcreek	1
Cat 815B Compactor	Clearcreek	1
Crew Truck	Clearcreek	1
Hitachi 200 Excavator	Diamond Wood Recycling	1
Toro Tub Grinder	Diamond Wood Recycling	1
Crew Truck	Diamond Wood Recycling	1

3 SHIFT STARTS AND FINISHES

CONTRACTOR	START	FINISH
Clearcreek Contractors	07:00	16:30

4 CONSTRUCTION ACTIVITY SUMMARY

Continued site grading in the southern portion of the site. .

Diamond Wood Recycling continued chipping removed vegetation.

5 QA ACTIVITY SUMMARY

Observed construction activities.

6 HEALTH AND SAFETY

Clearcreek held a tailgate safety meeting prior to starting work activities.

Golder Construction Services, Inc.

7 MEETINGS AND DISCUSSIONS**SUMMARY**

Was informed by Frank Shuri that Clearcreek has requested using a smooth-drum, vibratory roller instead of the Cat 815 compactor. Clearcreek believes that with the wet weather, the Cat 815 compactor leaves pockets in the compacted soil that collects and holds surface water, causing the surface soil to become too wet to work.

After discussion with Frank, it was determined that a smooth-drum, vibratory roller would be acceptable, but the lift thickness would be reduced to an approximate 8-inch, compacted lift. Frank informed Clearcreek of this decision.

8 ISSUES AND RESOLUTIONS

No issues encountered this shift.

Allan G. MacLeod
Construction Manager

October 1, 2007

AGM/agm

cc: File - Project
File - Field

**DAILY CONSTRUCTION REPORT
RESERVE SILICA SITE
LOWER DISPOSAL AREA COVER UPGRADE
RAVENSDALE, WASHINGTON**

REPORT NUMBER 16

Tuesday, October 2, 2007

TO: Frank Shuri/Project File

1 WEATHER

Overcast -- AM, Partly Cloudy- PM, 51° F (AM), 62° F (PM)

2 PRESENT AT SITE:

CONTRACTOR/ORGANIZATION	RESPONSIBILITY	CONTRACTOR PERSONNEL
Clearcreek Contractors	Excavation Contractor	3
Diamond Wood Recycling, Inc.	Wood Chipping	1
Golder Construction Services	Construction Management- CQA Monitoring	1

EQUIPMENT	CONTRACTOR	NUMBER
Hitachi 200 Excavator	Clearcreek r	1
Hitachi 330 Excavator	Clearcreek	1
Cat D8R Dozer	Clearcreek	1
JD 550 Dozer	Clearcreek	1
Volvo A25C Articulating End Dump	Clearcreek	1
Cat 815B Compactor	Clearcreek	1
Crew Truck	Clearcreek	1
Hitachi 200 Excavator	Diamond Wood Recycling	1
Toro Tub Grinder	Diamond Wood Recycling	1
Crew Truck	Diamond Wood Recycling	1

3 SHIFT STARTS AND FINISHES

CONTRACTOR	START	FINISH
Clearcreek Contractors	07:00	12:00

4 CONSTRUCTION ACTIVITY SUMMARY

No grading or fill work performed this shift due to wet soil conditions. Mobilized a Cat CS 563D smooth-drum compactor to the site and demobilized a Hitachi 200 Excavator.

Diamond Wood Recycling continued chipping removed vegetation.

5 QA ACTIVITY SUMMARY

Observed construction activities.

6 HEALTH AND SAFETY

Clearcreek held a tailgate safety meeting prior to starting work activities.

Golder Construction Services, Inc.

7 MEETINGS AND DISCUSSIONS SUMMARY

No meetings or discussions were held this shift

8 ISSUES AND RESOLUTIONS

No issues encountered this shift.

Allan G. MacLeod
Construction Manager

October 2, 2007

AGM/agm

cc: File - Project
File - Field

**DAILY CONSTRUCTION REPORT
RESERVE SILICA SITE
LOWER DISPOSAL AREA COVER UPGRADE
RAVENSDALE, WASHINGTON**

REPORT NUMBER 17

Wednesday, October 3, 2007

TO: Frank Shuri/Project File

1 WEATHER

Overcast -- AM, Partly Cloudy- PM, 51° F (AM), 62° F (PM)

2 PRESENT AT SITE:

CONTRACTOR/ORGANIZATION	RESPONSIBILITY	CONTRACTOR PERSONNEL
Clearcreek Contractors	Excavation Contractor	3
Diamond Wood Recycling, Inc.	Wood Chipping	1
Golder Construction Services	Construction Management- CQA Monitoring	1

EQUIPMENT	CONTRACTOR	NUMBER
Hitachi 330 Excavator	Clearcreek	1
Cat D8R Dozer	Clearcreek	1
JD 550 Dozer	Clearcreek	1
Volvo A25C Articulating End Dump	Clearcreek	1
Cat CS 563D Compactor	Clearcreek	1
Crew Truck	Clearcreek	1
Hitachi 200 Excavator	Diamond Wood Recycling	1
Toro Tub Grinder	Diamond Wood Recycling	1
Crew Truck	Diamond Wood Recycling	1

3 SHIFT STARTS AND FINISHES

CONTRACTOR	START	FINISH
Clearcreek Contractors	07:00	16:00

4 CONSTRUCTION ACTIVITY SUMMARY

Performed site grading in the center of the site along the main haul road. Demobilized the Cat 815B compactor.

Diamond Wood Recycling completed chipping removed vegetation.

5 QA ACTIVITY SUMMARY

Observed construction activities.

6 HEALTH AND SAFETY

Clearcreek held a tailgate safety meeting prior to starting work activities.

Golder Construction Services, Inc.

7 MEETINGS AND DISCUSSIONS

SUMMARY

No meetings or discussions were held this shift

8 ISSUES AND RESOLUTIONS

No issues encountered this shift.

Allan G. MacLeod
Construction Manager

October 3, 2007

AGM/agm

cc: File - Project
File - Field

**DAILY CONSTRUCTION REPORT
RESERVE SILICA SITE
LOWER DISPOSAL AREA COVER UPGRADE
RAVENSDALE, WASHINGTON**

REPORT NUMBER 18

Thursday, October 4, 2007

TO: Frank Shuri/Project File

1 WEATHER

Overcast, Showers -- AM, - PM, 43° F (AM), ° F (PM)

2 PRESENT AT SITE:

CONTRACTOR/ORGANIZATION	RESPONSIBILITY	CONTRACTOR PERSONNEL
Clearcreek Contractors	Excavation Contractor	3
Diamond Wood Recycling, Inc.	Wood Chipping	1
Golder Construction Services	Construction Management- CQA Monitoring	1

EQUIPMENT	CONTRACTOR	NUMBER
Hitachi 330 Excavator	Clearcreek	1
Cat D8R Dozer	Clearcreek	1
JD 550 Dozer	Clearcreek	1
Volvo A25C Articulating End Dump	Clearcreek	1
Cat CS 563D Compactor	Clearcreek	1
Crew Truck	Clearcreek	1
Hitachi 200 Excavator	Diamond Wood Recycling	1
Toro Tub Grinder	Diamond Wood Recycling	1

3 SHIFT STARTS AND FINISHES

CONTRACTOR	START	FINISH
Clearcreek Contractors	07:00	12:00

4 CONSTRUCTION ACTIVITY SUMMARY

Attempted to begin hauling cover soil from the borrow area, but could not get a safe temporary haul road constructed due to precipitation. Set grade stakes in the southern portion of the site.

5 QA ACTIVITY SUMMARY

Observed construction activities.

6 HEALTH AND SAFETY

Clearcreek held a tailgate safety meeting prior to starting work activities.

7 MEETINGS AND DISCUSSIONS SUMMARY

No meetings or discussions were held this shift

Golder Construction Services, Inc.

8 ISSUES AND RESOLUTIONS

No issues encountered this shift.

Allan G. MacLeod
Construction Manager

October 4, 2007

AGM/agm

cc: File - Project
File - Field

**DAILY CONSTRUCTION REPORT
RESERVE SILICA SITE
LOWER DISPOSAL AREA COVER UPGRADE
RAVENSDALE, WASHINGTON**

REPORT NUMBER 19

Friday, October 5, 2007

TO: Frank Shuri/Project File

1 WEATHER

Overcast - AM, Partly Cloudy - PM, 43° F (AM), 56° F (PM)

2 PRESENT AT SITE:

CONTRACTOR/ORGANIZATION	RESPONSIBILITY	CONTRACTOR PERSONNEL
Clearcreek Contractors	Excavation Contractor	4
Golder Construction Services	Construction Management-CQA Monitoring	1

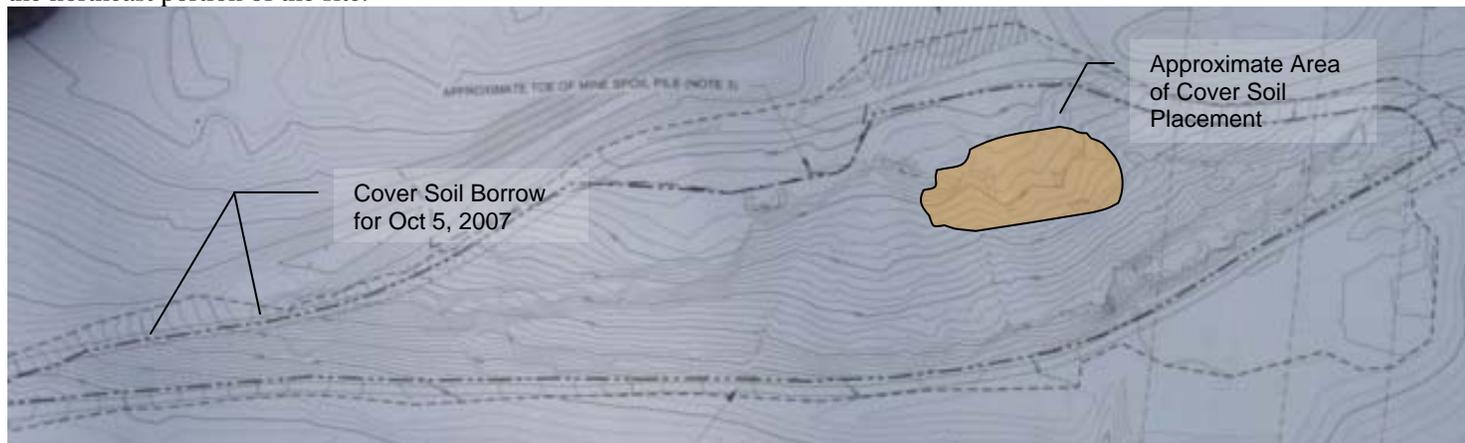
EQUIPMENT	CONTRACTOR	NUMBER
Hitachi 330 Excavator	Clearcreek	1
Cat D8R Dozer	Clearcreek	1
JD 550 Dozer	Clearcreek	1
Volvo A25C Articulating End Dump	Clearcreek	1
Cat CS 563D Compactor	Clearcreek	1
Crew Truck	Clearcreek	1

3 SHIFT STARTS AND FINISHES

CONTRACTOR	START	FINISH
Clearcreek Contractors	07:00	17:00

4 CONSTRUCTION ACTIVITY SUMMARY

Began placement of cover soil, starting in the south-central portion of the site. Cover soil was excavated from the northeast portion of the site.



5 QA ACTIVITY SUMMARY

Observed construction activities. Checked lift thickness. Obtained 2 samples of the cover soil for wash sieve analysis.

6 HEALTH AND SAFETY

Clearcreek held a tailgate safety meeting prior to starting work activities.

7 MEETINGS AND DISCUSSIONS SUMMARY

No meetings or discussions were held this shift

8 ISSUES AND RESOLUTIONS

No issues encountered this shift.

Allan G. MacLeod
Construction Manager

October 5, 2007

AGM/agm

cc: File - Project
File - Field

**DAILY CONSTRUCTION REPORT
RESERVE SILICA SITE
LOWER DISPOSAL AREA COVER UPGRADE
RAVENSDALE, WASHINGTON**

REPORT NUMBER 20

Saturday, October 6, 2007

TO: Frank Shuri/Project File

1 WEATHER

Overcast, Rain Showers- AM, - PM, 45° F (AM), ° F (PM)

2 PRESENT AT SITE:

CONTRACTOR/ORGANIZATION	RESPONSIBILITY	CONTRACTOR PERSONNEL
Clearcreek Contractors	Excavation Contractor	3
Golder Construction Services	Construction Management-CQA Monitoring	1

EQUIPMENT	CONTRACTOR	NUMBER
Hitachi 330 Excavator	Clearcreek	1
Cat D8R Dozer	Clearcreek	1
JD 550 Dozer	Clearcreek	1
Volvo A25C Articulating End Dump	Clearcreek	1
Cat CS 563D Compactor	Clearcreek	1
Crew Truck	Clearcreek	1

3 SHIFT STARTS AND FINISHES

CONTRACTOR	START	FINISH
Clearcreek Contractors	07:00	10:30

4 CONSTRUCTION ACTIVITY SUMMARY

No cover soil placement this shift due to wet soil conditions. Performed some minor grading along the main haul road.

5 QA ACTIVITY SUMMARY

Performed wash sieve analysis on cover soil samples collected on October 5, 2007.

CS-01 – 26.4% Passing the # 200 Sieve

CS-02 – 27.1% Passing the # 200 Sieve

6 HEALTH AND SAFETY

Clearcreek held a tailgate safety meeting prior to starting work activities.

7 MEETINGS AND DISCUSSIONS SUMMARY

No meetings or discussions were held this shift

Golder Construction Services, Inc.

8 ISSUES AND RESOLUTIONS

No issues encountered this shift.

Allan G. MacLeod
Construction Manager

October 6, 2007

AGM/agm

cc: File - Project
File - Field

**DAILY CONSTRUCTION REPORT
RESERVE SILICA SITE
LOWER DISPOSAL AREA COVER UPGRADE
RAVENSDALE, WASHINGTON**

REPORT NUMBER 21

Monday, October 8, 2007

TO: Frank Shuri/Project File

1 WEATHER

Overcast - AM, Partly Cloudy - PM, 47° F (AM), 62° F (PM)

2 PRESENT AT SITE:

CONTRACTOR/ORGANIZATION	RESPONSIBILITY	CONTRACTOR PERSONNEL
Clearcreek Contractors	Excavation Contractor	3
Golder Construction Services	Construction Management-CQA Monitoring	1

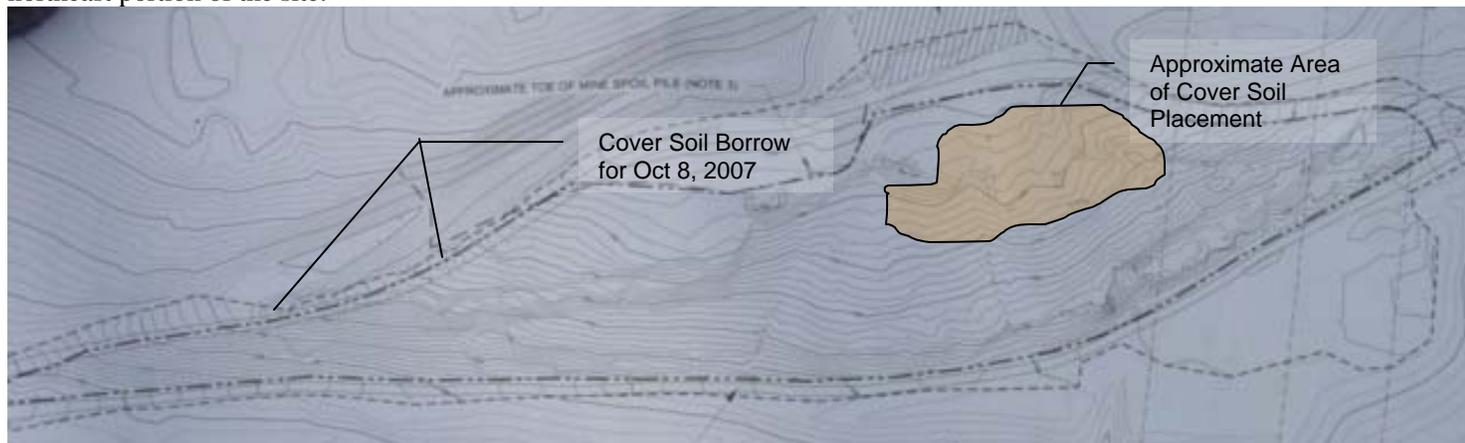
EQUIPMENT	CONTRACTOR	NUMBER
Hitachi 330 Excavator	Clearcreek	1
Cat D8R Dozer	Clearcreek	1
JD 550 Dozer	Clearcreek	1
Volvo A25C Articulating End Dump	Clearcreek	1
Cat CS 563D Compactor	Clearcreek	1
Crew Truck	Clearcreek	1

3 SHIFT STARTS AND FINISHES

CONTRACTOR	START	FINISH
Clearcreek Contractors	07:00	17:00

4 CONSTRUCTION ACTIVITY SUMMARY

Continued placement of cover soil in the south-central portion of the site. Cover soil was excavated from the northeast portion of the site.



5 QA ACTIVITY SUMMARY

Observed construction activities. Checked lift thickness. Obtained 2 samples of the cover soil for wash sieve analysis.

6 HEALTH AND SAFETY

Clearcreek held a tailgate safety meeting prior to starting work activities.

7 MEETINGS AND DISCUSSIONS SUMMARY

Mark McCullough was on site to discuss what could be done to continue working during the wet weather that has been encountered lately at the site.

8 ISSUES AND RESOLUTIONS

No issues encountered this shift.

Allan G. MacLeod
Construction Manager

October 8, 2007

AGM/agn

cc: File - Project
File - Field

**DAILY CONSTRUCTION REPORT
RESERVE SILICA SITE
LOWER DISPOSAL AREA COVER UPGRADE
RAVENSDALE, WASHINGTON**

REPORT NUMBER 22

Tuesday, October 9, 2007

TO: Frank Shuri/Project File

1 WEATHER

Overcast- AM, - PM, 52° F (AM), ° F (PM)

2 PRESENT AT SITE:

CONTRACTOR/ORGANIZATION	RESPONSIBILITY	CONTRACTOR PERSONNEL
Clearcreek Contractors	Excavation Contractor	
Golder Construction Services	Construction Management- CQA Monitoring	1

EQUIPMENT	CONTRACTOR	NUMBER
Hitachi 330 Excavator	Clearcreek	1
Cat D8R Dozer	Clearcreek	1
Volvo A25C Articulating End Dump	Clearcreek	1

3 SHIFT STARTS AND FINISHES

CONTRACTOR	START	FINISH
Clearcreek Contractors	07:00	07:00

4 CONSTRUCTION ACTIVITY SUMMARY

Clearcreek did not show up on site this shift. Demobilized JD 550 Dozer and Cat CS 563D compactor.

5 QA ACTIVITY SUMMARY

Began wash sieve analysis on cover soil samples collected on October 8, 2007.

6 HEALTH AND SAFETY

No health and safety issues were encountered this shift.

7 MEETINGS AND DISCUSSIONS SUMMARY

No meetings or discussions were held this shift

8 ISSUES AND RESOLUTIONS

No issues encountered this shift.

Allan G. MacLeod
Construction Manager

October 8, 2007

AGM/agm

cc: File - Project
File - Field

Golder Construction Services, Inc.

**DAILY CONSTRUCTION REPORT
RESERVE SILICA SITE
LOWER DISPOSAL AREA COVER UPGRADE
RAVENSDALE, WASHINGTON**

REPORT NUMBER 23

Wednesday, October 10, 2007

TO: Frank Shuri/Project File

1 WEATHER

Overcast, Showers - AM, - PM, 53° F (AM), ° F (PM)

2 PRESENT AT SITE:

CONTRACTOR/ORGANIZATION	RESPONSIBILITY	CONTRACTOR PERSONNEL
Clearcreek Contractors	Excavation Contractor	3
Golder Construction Services	Construction Management-CQA Monitoring	1

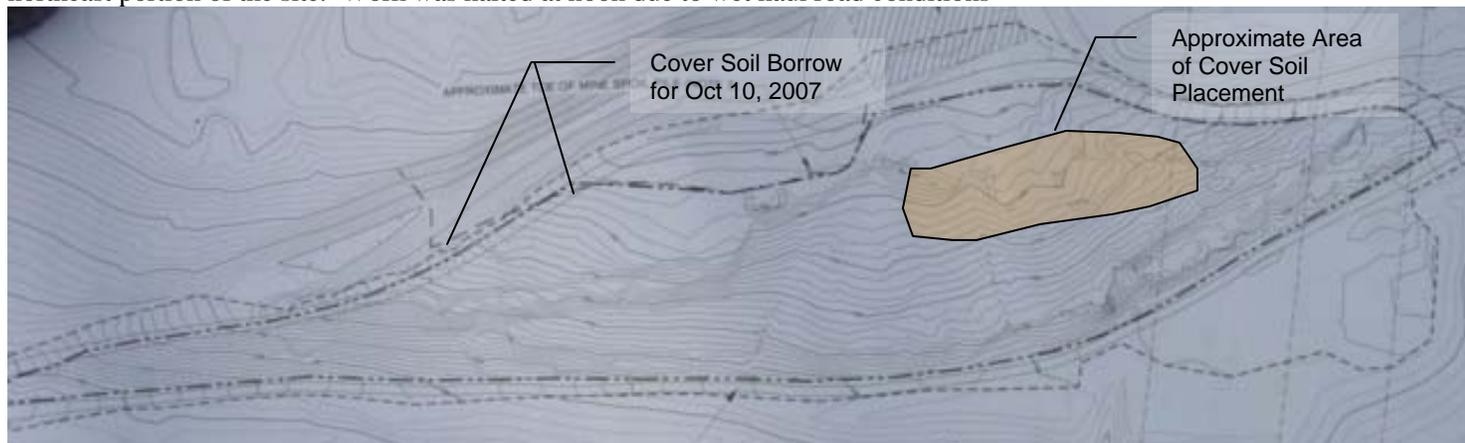
EQUIPMENT	CONTRACTOR	NUMBER
Hitachi 330 Excavator	Clearcreek	1
Cat D8R Dozer	Clearcreek	1
Komatsu 37PX Dozer	Clearcreek	1
Volvo A25C Articulating End Dump	Clearcreek	1
IR SD-70D Compactor	Clearcreek	1
Crew Truck	Clearcreek	1

3 SHIFT STARTS AND FINISHES

CONTRACTOR	START	FINISH
Clearcreek Contractors	07:00	13:00

4 CONSTRUCTION ACTIVITY SUMMARY

Continued placement of cover soil in the south-central portion of the site. Cover soil was excavated from the northeast portion of the site. Work was halted at noon due to wet haul road conditions



5 QA ACTIVITY SUMMARY

Observed construction activities. Checked lift thickness. Obtained 1 sample of the cover soil for wash sieve analysis. Performed wash sieve analysis on 2 samples of cover soil.

CS-03 – 30.1% passing the # 200 sieve

CS-04 – 30.0% passing the # 200 sieve

6 HEALTH AND SAFETY

Clearcreek held a tailgate safety meeting prior to starting work activities.

7 MEETINGS AND DISCUSSIONS SUMMARY

No meetings were held this shift.

8 ISSUES AND RESOLUTIONS

No issues encountered this shift.

Allan G. MacLeod
Construction Manager

October 10, 2007

AGM/agm

cc: File - Project
File - Field

**DAILY CONSTRUCTION REPORT
RESERVE SILICA SITE
LOWER DISPOSAL AREA COVER UPGRADE
RAVENSDALE, WASHINGTON**

REPORT NUMBER 24

Thursday, October 11, 2007

TO: Frank Shuri/Project File

1 WEATHER

Overcast, Showers - AM, - PM, 53° F (AM), ° F (PM)

2 PRESENT AT SITE:

CONTRACTOR/ORGANIZATION	RESPONSIBILITY	CONTRACTOR PERSONNEL
Clearcreek Contractors	Excavation Contractor	4
Golder Construction Services	Construction Management-CQA Monitoring	1

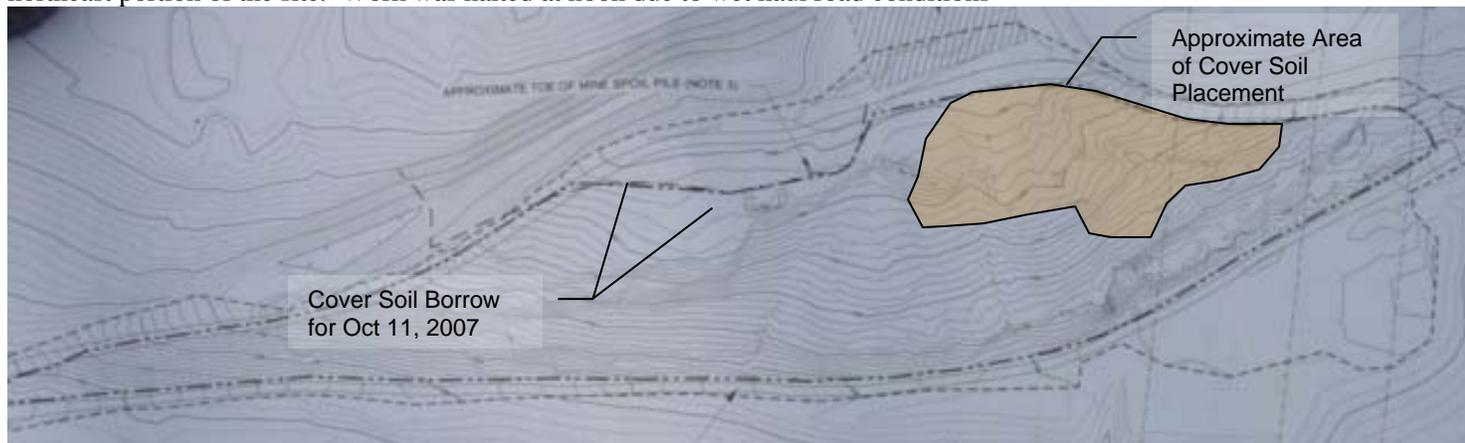
EQUIPMENT	CONTRACTOR	NUMBER
Hitachi 330 Excavator	Clearcreek	1
Cat D8R Dozer	Clearcreek	1
Komatsu 37PX Dozer	Clearcreek	1
Volvo A25C Articulating End Dump	Clearcreek	1
Volvo A30D Articulating End Dump	Clearcreek	1
IR SD-70D Compactor	Clearcreek	1
Crew Truck	Clearcreek	1

3 SHIFT STARTS AND FINISHES

CONTRACTOR	START	FINISH
Clearcreek Contractors	07:00	13:00

4 CONSTRUCTION ACTIVITY SUMMARY

Continued placement of cover soil in the south-central portion of the site. Cover soil was excavated from the northeast portion of the site. Work was halted at noon due to wet haul road conditions



5 QA ACTIVITY SUMMARY

Observed construction activities. Checked lift thickness. Obtained 4 sample of the cover soil for wash sieve analysis. Performed wash sieve analysis on 1 sample of cover soil.

CS-05 – 30.9% passing the # 200 sieve

6 HEALTH AND SAFETY

Clearcreek held a tailgate safety meeting prior to starting work activities.

7 MEETINGS AND DISCUSSIONS SUMMARY

No meetings were held this shift.

8 ISSUES AND RESOLUTIONS

No issues encountered this shift.

Allan G. MacLeod
Construction Manager

October 11, 2007

AGM/agm

cc: File - Project
File - Field

**DAILY CONSTRUCTION REPORT
RESERVE SILICA SITE
LOWER DISPOSAL AREA COVER UPGRADE
RAVENSDALE, WASHINGTON**

REPORT NUMBER 25

Friday, October 12, 2007

TO: Frank Shuri/Project File

1 WEATHER

Partly Cloudy - AM, Partly Cloudy- PM, 43° F (AM), 64° F (PM)

2 PRESENT AT SITE:

CONTRACTOR/ORGANIZATION	RESPONSIBILITY	CONTRACTOR PERSONNEL
Clearcreek Contractors	Excavation Contractor	5
Golder Construction Services	Construction Management- CQA Monitoring	1

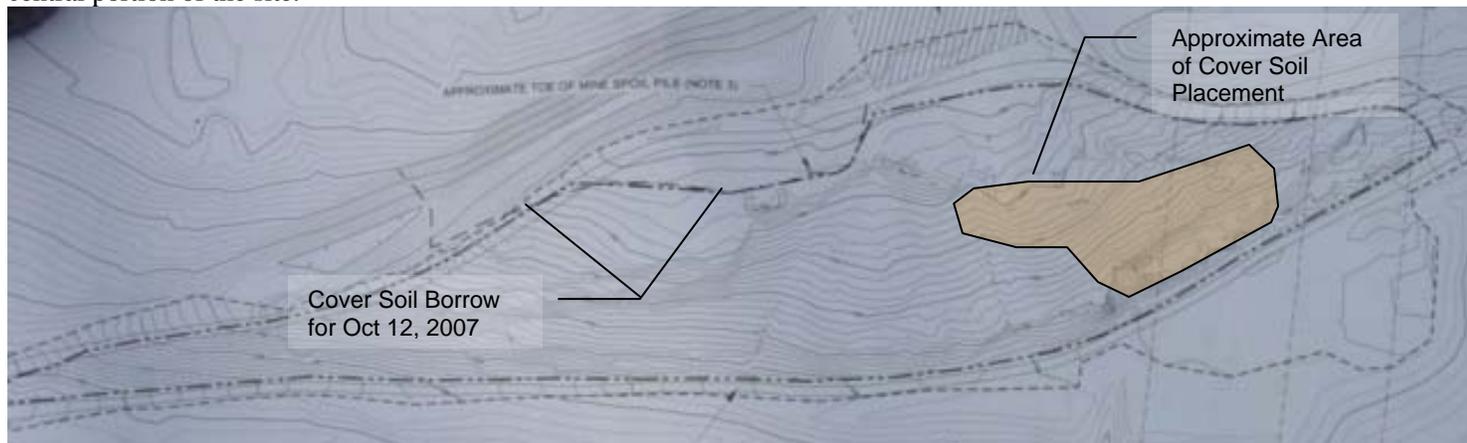
EQUIPMENT	CONTRACTOR	NUMBER
Hitachi 330 Excavator	Clearcreek	1
Cat D8R Dozer	Clearcreek	1
Komatsu 37PX Dozer	Clearcreek	1
Volvo A25C Articulating End Dump	Clearcreek	1
Volvo A30D Articulating End Dump	Clearcreek	1
IR SD-70D Compactor	Clearcreek	1
Crew Truck	Clearcreek	1

3 SHIFT STARTS AND FINISHES

CONTRACTOR	START	FINISH
Clearcreek Contractors	07:00	17:00

4 CONSTRUCTION ACTIVITY SUMMARY

Continued placement of cover soil in the south portion of the site. Cover soil was excavated from the northeast central portion of the site.



5 QA ACTIVITY SUMMARY

Observed construction activities. Checked lift thickness. Obtained 3 sample of the cover soil for wash sieve analysis. Performed wash sieve analysis on 4 samples of cover soil.

CS-06 – 32.7% passing the # 200 sieve

CS-07 – 38.4% passing the # 200 sieve

CS-08 – 37.7% passing the # 200 sieve

CS-09 – 35.5% passing the # 200 sieve

6 HEALTH AND SAFETY

Clearcreek held a tailgate safety meeting prior to starting work activities.

7 MEETINGS AND DISCUSSIONS SUMMARY

No meetings were held this shift.

8 ISSUES AND RESOLUTIONS

No issues encountered this shift.

Allan G. MacLeod
Construction Manager

October 12, 2007

AGM/agm

cc: File - Project
File - Field

**DAILY CONSTRUCTION REPORT
RESERVE SILICA SITE
LOWER DISPOSAL AREA COVER UPGRADE
RAVENSDALE, WASHINGTON**

REPORT NUMBER 26

Saturday, October 13, 2007

TO: Frank Shuri/Project File

1 WEATHER

Mostly Clear - AM, Mostly Clear- PM, 43° F (AM), 66° F (PM)

2 PRESENT AT SITE:

CONTRACTOR/ORGANIZATION	RESPONSIBILITY	CONTRACTOR PERSONNEL
Clearcreek Contractors	Excavation Contractor	5
Golder Construction Services	Construction Management- CQA Monitoring	1

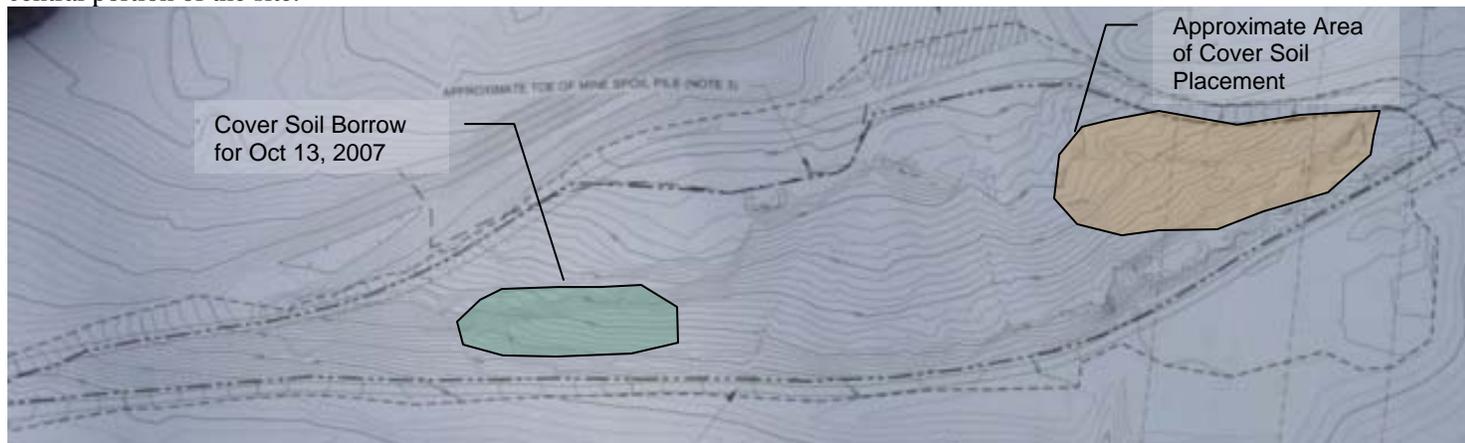
EQUIPMENT	CONTRACTOR	NUMBER
Hitachi 330 Excavator	Clearcreek	1
Cat D8R Dozer	Clearcreek	1
Komatsu 37PX Dozer	Clearcreek	1
Volvo A25C Articulating End Dump	Clearcreek	1
Volvo A30D Articulating End Dump	Clearcreek	1
IR SD-70D Compactor	Clearcreek	1
Crew Truck	Clearcreek	1

3 SHIFT STARTS AND FINISHES

CONTRACTOR	START	FINISH
Clearcreek Contractors	07:00	17:00

4 CONSTRUCTION ACTIVITY SUMMARY

Continued placement of cover soil in the south portion of the site. Cover soil was excavated from the north central portion of the site.



Golder Construction Services, Inc.

5 QA ACTIVITY SUMMARY

Observed construction activities. Checked lift thickness. Obtained 4 sample of the cover soil for wash sieve analysis. Performed wash sieve analysis on 3 samples of cover soil.

CS-10 – 30.6% passing the # 200 sieve

CS-11 – 39.5% passing the # 200 sieve

CS-12 – 29.7% passing the # 200 sieve

6 HEALTH AND SAFETY

Clearcreek held a tailgate safety meeting prior to starting work activities.

7 MEETINGS AND DISCUSSIONS SUMMARY

No meetings were held this shift.

8 ISSUES AND RESOLUTIONS

No issues encountered this shift.

Allan G. MacLeod
Construction Manager

October 13, 2007

AGM/agm

cc: File - Project
File - Field

**DAILY CONSTRUCTION REPORT
RESERVE SILICA SITE
LOWER DISPOSAL AREA COVER UPGRADE
RAVENSDALE, WASHINGTON**

REPORT NUMBER 27

Sunday, October 14, 2007

TO: Frank Shuri/Project File

1 WEATHER

Mostly Clear - AM, Partly Cloudy- PM, 41° F (AM), 62° F (PM)

2 PRESENT AT SITE:

CONTRACTOR/ORGANIZATION	RESPONSIBILITY	CONTRACTOR PERSONNEL
Clearcreek Contractors	Excavation Contractor	5
Golder Construction Services	Construction Management- CQA Monitoring	1

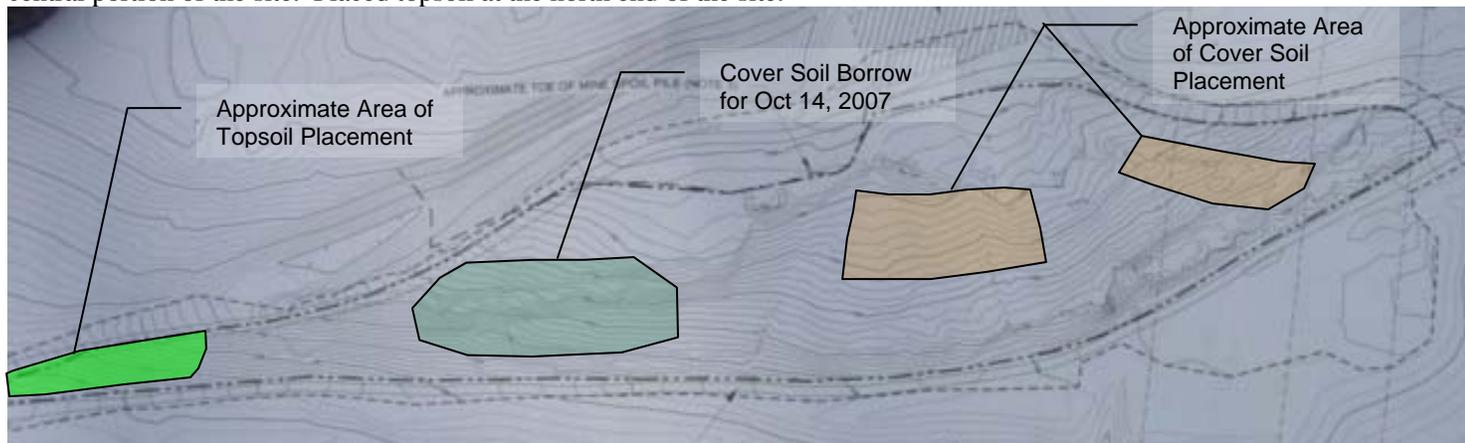
EQUIPMENT	CONTRACTOR	NUMBER
Hitachi 330 Excavator	Clearcreek	1
Cat D8R Dozer	Clearcreek	1
Komatsu 37PX Dozer	Clearcreek	1
Volvo A25C Articulating End Dump	Clearcreek	1
Volvo A30D Articulating End Dump	Clearcreek	1
IR SD-70D Compactor	Clearcreek	1
Crew Truck	Clearcreek	1

3 SHIFT STARTS AND FINISHES

CONTRACTOR	START	FINISH
Clearcreek Contractors	07:00	16:00

4 CONSTRUCTION ACTIVITY SUMMARY

Continued placement of cover soil in the south portion of the site. Cover soil was excavated from the north central portion of the site. Placed topsoil at the north end of the site.



5 QA ACTIVITY SUMMARY

Observed construction activities. Checked lift thickness. Obtained 3 sample of the cover soil for wash sieve analysis. Performed wash sieve analysis on 4 samples of cover soil.

CS-13 – 29.0% passing the # 200 sieve
CS-14 – 42.3% passing the # 200 sieve
CS-15 – 40.9% passing the # 200 sieve
CS-16 – 37.4% passing the # 200 sieve

6 HEALTH AND SAFETY

Clearcreek held a tailgate safety meeting prior to starting work activities.

7 MEETINGS AND DISCUSSIONS SUMMARY

No meetings were held this shift.

8 ISSUES AND RESOLUTIONS

No issues encountered this shift.

Allan G. MacLeod
Construction Manager

October 14, 2007

AGM/agm
cc: File - Project
File - Field

**DAILY CONSTRUCTION REPORT
RESERVE SILICA SITE
LOWER DISPOSAL AREA COVER UPGRADE
RAVENSDALE, WASHINGTON**

REPORT NUMBER 28

Monday, October 15, 2007

TO: Frank Shuri/Project File

1 WEATHER

Overcast - AM, Overcast, Showers- PM, 48° F (AM), 57° F (PM)

2 PRESENT AT SITE:

CONTRACTOR/ORGANIZATION	RESPONSIBILITY	CONTRACTOR PERSONNEL
Clearcreek Contractors	Excavation Contractor	5
Golder Construction Services	Construction Management- CQA Monitoring	1

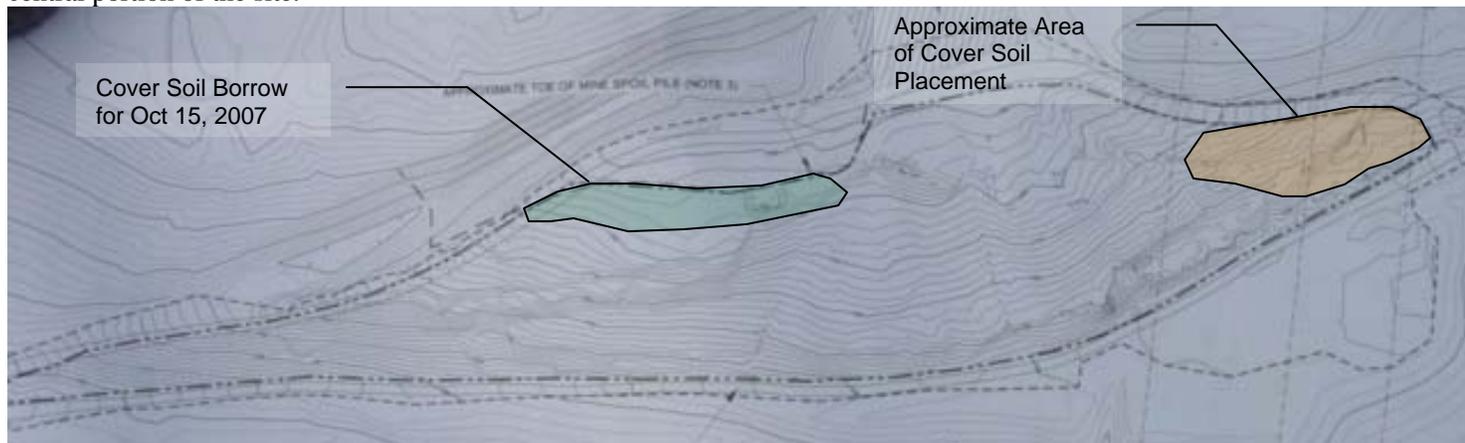
EQUIPMENT	CONTRACTOR	NUMBER
Hitachi 330 Excavator	Clearcreek	1
Cat D8R Dozer	Clearcreek	1
Komatsu 37PX Dozer	Clearcreek	1
Volvo A25C Articulating End Dump	Clearcreek	1
Volvo A30D Articulating End Dump	Clearcreek	1
IR SD-70D Compactor	Clearcreek	1
Crew Truck	Clearcreek	1

3 SHIFT STARTS AND FINISHES

CONTRACTOR	START	FINISH
Clearcreek Contractors	07:00	16:00

4 CONSTRUCTION ACTIVITY SUMMARY

Continued placement of cover soil in the south portion of the site. Cover soil was excavated from the north central portion of the site.



Golder Construction Services, Inc.

5 QA ACTIVITY SUMMARY

Observed construction activities. Checked lift thickness. Obtained 3 sample of the cover soil for wash sieve analysis. Performed wash sieve analysis on 3 samples of cover soil.

CS-17 – 37.7% passing the # 200 sieve

CS-18 – 38.9% passing the # 200 sieve

CS-19 – 31.1% passing the # 200 sieve

6 HEALTH AND SAFETY

Clearcreek held a tailgate safety meeting prior to starting work activities.

7 MEETINGS AND DISCUSSIONS SUMMARY

No meetings were held this shift.

8 ISSUES AND RESOLUTIONS

No issues encountered this shift.

Allan G. MacLeod
Construction Manager

October 15, 2007

AGM/agm

cc: File - Project
File - Field

**DAILY CONSTRUCTION REPORT
RESERVE SILICA SITE
LOWER DISPOSAL AREA COVER UPGRADE
RAVENSDALE, WASHINGTON**

REPORT NUMBER 29

Tuesday, October 16, 2007

TO: Frank Shuri/Project File

1 WEATHER

Overcast - AM, Overcast, Showers- PM, 51° F (AM), 59° F (PM)

2 PRESENT AT SITE:

CONTRACTOR/ORGANIZATION	RESPONSIBILITY	CONTRACTOR PERSONNEL
Clearcreek Contractors	Excavation Contractor	5
Golder Construction Services	Construction Management- CQA Monitoring	1

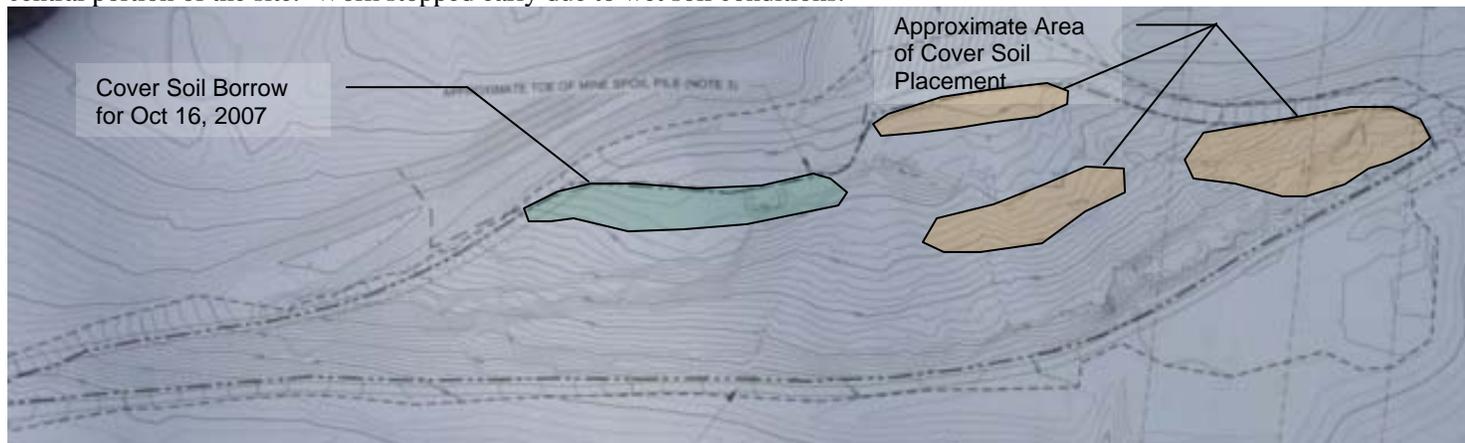
EQUIPMENT	CONTRACTOR	NUMBER
Hitachi 330 Excavator	Clearcreek	1
Cat D8R Dozer	Clearcreek	1
Komatsu 37PX Dozer	Clearcreek	1
Volvo A25C Articulating End Dump	Clearcreek	1
Volvo A30D Articulating End Dump	Clearcreek	1
IR SD-70D Compactor	Clearcreek	1
Crew Truck	Clearcreek	1

3 SHIFT STARTS AND FINISHES

CONTRACTOR	START	FINISH
Clearcreek Contractors	07:00	14:00

4 CONSTRUCTION ACTIVITY SUMMARY

Continued placement of cover soil in the south portion of the site. Cover soil was excavated from the north central portion of the site. Work stopped early due to wet soil conditions.



5 QA ACTIVITY SUMMARY

Observed construction activities. Checked lift thickness. Obtained 1 sample of the cover soil for wash sieve analysis. Performed wash sieve analysis on 3 samples of cover soil.

CS-20 – 35.7% passing the # 200 sieve

CS-21 – 27.9% passing the # 200 sieve

CS-22 – 39.5% passing the # 200 sieve

6 HEALTH AND SAFETY

Clearcreek held a tailgate safety meeting prior to starting work activities.

7 MEETINGS AND DISCUSSIONS SUMMARY

Meg Garakani of Holcim was on site today to observe construction progress.

8 ISSUES AND RESOLUTIONS

No issues encountered this shift.

Allan G. MacLeod
Construction Manager

October 16, 2007

AGM/agm

cc: File - Project
File - Field

**DAILY CONSTRUCTION REPORT
RESERVE SILICA SITE
LOWER DISPOSAL AREA COVER UPGRADE
RAVENSDALE, WASHINGTON**

REPORT NUMBER 30

Wednesday, October 17, 2007

TO: Frank Shuri/Project File

1 WEATHER

Overcast - AM, Overcast, Showers- PM, 46° F (AM), 59° F (PM)

2 PRESENT AT SITE:

CONTRACTOR/ORGANIZATION	RESPONSIBILITY	CONTRACTOR PERSONNEL
Clearcreek Contractors	Excavation Contractor	5
Golder Construction Services	Construction Management- CQA Monitoring	1

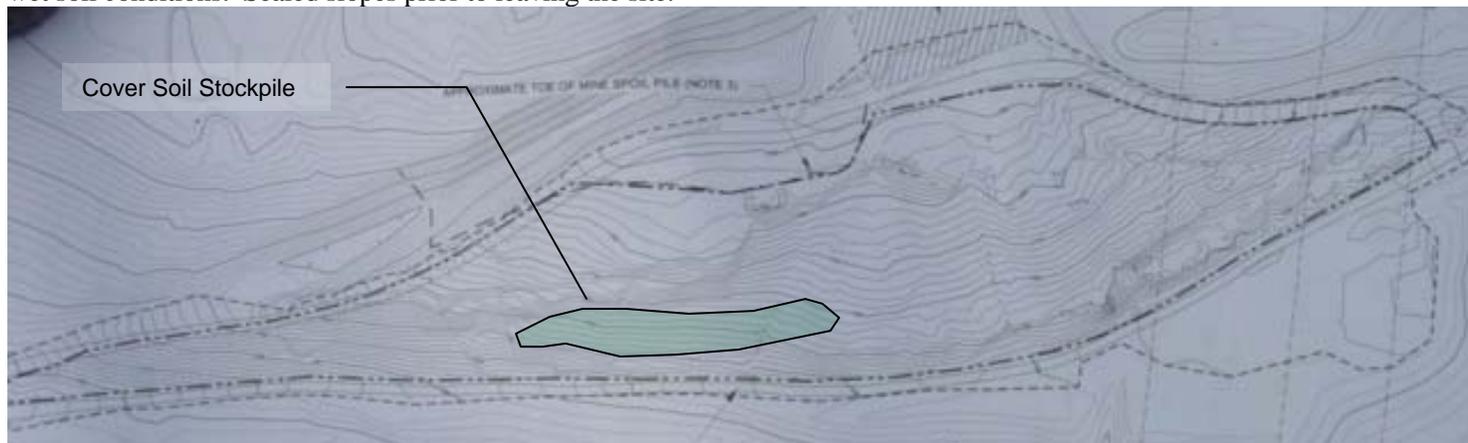
EQUIPMENT	CONTRACTOR	NUMBER
Hitachi 330 Excavator	Clearcreek	1
Cat D8R Dozer	Clearcreek	1
Komatsu 37PX Dozer	Clearcreek	1
Volvo A25C Articulating End Dump	Clearcreek	1
Volvo A30D Articulating End Dump	Clearcreek	1
IR SD-70D Compactor	Clearcreek	1
Crew Truck	Clearcreek	1

3 SHIFT STARTS AND FINISHES

CONTRACTOR	START	FINISH
Clearcreek Contractors	07:00	15:00

4 CONSTRUCTION ACTIVITY SUMMARY

Stockpiled cover soil for placement in the area of the topsoil stockpile. Stopped work shortly after noon due to wet soil conditions. Sealed slopes prior to leaving the site.



Golder Construction Services, Inc.

5 QA ACTIVITY SUMMARY

Observed construction activities. Performed wash sieve analysis on 1 sample of cover soil.

CS-23 – 32.8% passing the # 200 sieve

6 HEALTH AND SAFETY

Clearcreek held a tailgate safety meeting prior to starting work activities.

7 MEETINGS AND DISCUSSIONS SUMMARY

No meetings or discussions were held this shift.

8 ISSUES AND RESOLUTIONS

No issues encountered this shift.

Allan G. MacLeod
Construction Manager

October 17, 2007

AGM/agm

cc: File - Project
File - Field

**DAILY CONSTRUCTION REPORT
RESERVE SILICA SITE
LOWER DISPOSAL AREA COVER UPGRADE
RAVENSDALE, WASHINGTON**

REPORT NUMBER 31

Thursday, October 18, 2007

TO: Frank Shuri/Project File

1 WEATHER

Overcast, Rain - AM, - PM, 49° F (AM), ° F (PM)

2 PRESENT AT SITE:

CONTRACTOR/ORGANIZATION	RESPONSIBILITY	CONTRACTOR PERSONNEL
Clearcreek Contractors	Excavation Contractor	5
Golder Construction Services	Construction Management-CQA Monitoring	1

EQUIPMENT	CONTRACTOR	NUMBER
Hitachi 330 Excavator	Clearcreek	1
Cat D6R Dozer	Clearcreek	1
Komatsu 37PX Dozer	Clearcreek	1
Volvo A25C Articulating End Dump	Clearcreek	1
Volvo A30D Articulating End Dump	Clearcreek	1
IR SD-70D Compactor	Clearcreek	1
Crew Truck	Clearcreek	1

3 SHIFT STARTS AND FINISHES

CONTRACTOR	START	FINISH
Clearcreek Contractors	07:00	10:00

4 CONSTRUCTION ACTIVITY SUMMARY

No work this shift due to wet soil conditions. Demobilized the Cat D8R dozer and mobilized a Cat D6R Wide-Tracked Dozer.



Golder Construction Services, Inc.

5 QA ACTIVITY SUMMARY

Observed construction activities.

6 HEALTH AND SAFETY

Clearcreek held a tailgate safety meeting prior to starting work activities.

7 MEETINGS AND DISCUSSIONS SUMMARY

No meetings or discussions were held this shift.

8 ISSUES AND RESOLUTIONS

No issues encountered this shift.

Allan G. MacLeod
Construction Manager

October 18, 2007

AGM/agm

cc: File - Project
File - Field

**DAILY CONSTRUCTION REPORT
RESERVE SILICA SITE
LOWER DISPOSAL AREA COVER UPGRADE
RAVENSDALE, WASHINGTON**

REPORT NUMBER 32

Saturday, October 20, 2007

TO: Frank Shuri/Project File

1 WEATHER

Overcast, Rain Showers- AM, - PM, 49° F (AM), ° F (PM)

2 PRESENT AT SITE:

CONTRACTOR/ORGANIZATION	RESPONSIBILITY	CONTRACTOR PERSONNEL
Clearcreek Contractors	Excavation Contractor	5
Golder Construction Services	Construction Management- CQA Monitoring	1

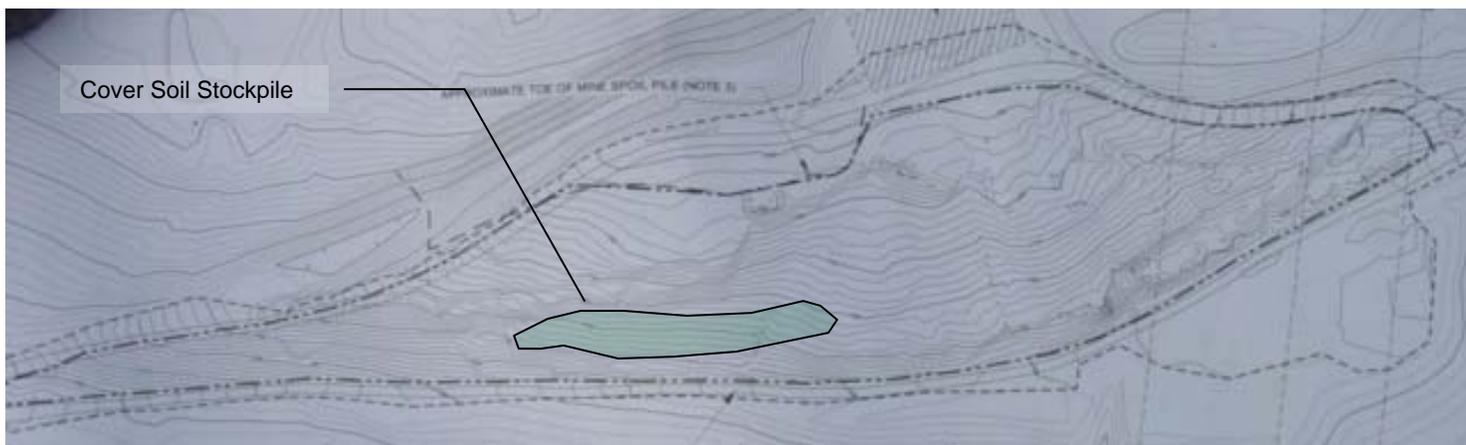
EQUIPMENT	CONTRACTOR	NUMBER
Hitachi 330 Excavator	Clearcreek	1
Cat D6R Dozer	Clearcreek	1
Komatsu 37PX Dozer	Clearcreek	1
Volvo A25C Articulating End Dump	Clearcreek	1
Volvo A30D Articulating End Dump	Clearcreek	1
IR SD-70D Compactor	Clearcreek	1
Crew Truck	Clearcreek	1

3 SHIFT STARTS AND FINISHES

CONTRACTOR	START	FINISH
Clearcreek Contractors	07:00	09:00

4 CONSTRUCTION ACTIVITY SUMMARY

No work this shift due to wet soil conditions.



Golder Construction Services, Inc.

5 QA ACTIVITY SUMMARY

Observed construction activities.

6 HEALTH AND SAFETY

Clearcreek held a tailgate safety meeting prior to starting work activities.

7 MEETINGS AND DISCUSSIONS SUMMARY

No meetings or discussions were held this shift.

8 ISSUES AND RESOLUTIONS

No issues encountered this shift.

Allan G. MacLeod
Construction Manager

October 20, 2007

AGM/agm

cc: File - Project
File - Field

**DAILY CONSTRUCTION REPORT
RESERVE SILICA SITE
LOWER DISPOSAL AREA COVER UPGRADE
RAVENSDALE, WASHINGTON**

REPORT NUMBER 33

Sunday, October 21, 2007

TO: Frank Shuri/Project File

1 WEATHER

Overcast - AM, Overcast - PM, 49° F (AM), 56° F (PM)

2 PRESENT AT SITE:

CONTRACTOR/ORGANIZATION	RESPONSIBILITY	CONTRACTOR PERSONNEL
Clearcreek Contractors	Excavation Contractor	5
Golder Construction Services	Construction Management-CQA Monitoring	1

EQUIPMENT	CONTRACTOR	NUMBER
Hitachi 330 Excavator	Clearcreek	1
Cat D6R Dozer	Clearcreek	1
Komatsu 37PX Dozer	Clearcreek	1
Volvo A25C Articulating End Dump	Clearcreek	1
Volvo A30D Articulating End Dump	Clearcreek	1
IR SD-70D Compactor	Clearcreek	1
Crew Truck	Clearcreek	1

3 SHIFT STARTS AND FINISHES

CONTRACTOR	START	FINISH
Clearcreek Contractors	07:00	15:00

4 CONSTRUCTION ACTIVITY SUMMARY

Placed Topsoil on the norht end tof the site.



Golder Construction Services, Inc.

5 QA ACTIVITY SUMMARY

Observed construction activities.

6 HEALTH AND SAFETY

Clearcreek held a tailgate safety meeting prior to starting work activities.

7 MEETINGS AND DISCUSSIONS SUMMARY

No meetings or discussions were held this shift.

8 ISSUES AND RESOLUTIONS

No issues encountered this shift.

Allan G. MacLeod
Construction Manager

October 21, 2007

AGM/agm

cc: File - Project
File - Field

**DAILY CONSTRUCTION REPORT
RESERVE SILICA SITE
LOWER DISPOSAL AREA COVER UPGRADE
RAVENSDALE, WASHINGTON**

REPORT NUMBER 34

Monday, October 22, 2007

TO: Frank Shuri/Project File

1 WEATHER

Partly Cloudy - AM, Partly Cloudy - PM, 49° F (AM), 61° F (PM)

2 PRESENT AT SITE:

CONTRACTOR/ORGANIZATION	RESPONSIBILITY	CONTRACTOR PERSONNEL
Clearcreek Contractors	Excavation Contractor	5
Pacific Geomatic Services, Inc.	Surveying	2
Golder Construction Services	Construction Management- CQA Monitoring	1

EQUIPMENT	CONTRACTOR	NUMBER
Hitachi 330 Excavator	Clearcreek	1
Cat D6R Dozer	Clearcreek	1
Komatsu 37PX Dozer	Clearcreek	1
Volvo A25C Articulating End Dump	Clearcreek	1
Volvo A30D Articulating End Dump	Clearcreek	1
IR SD-70D Compactor	Clearcreek	1
Crew Truck	Clearcreek	1

3 SHIFT STARTS AND FINISHES

CONTRACTOR	START	FINISH
Clearcreek Contractors	07:00	17:00

4 CONSTRUCTION ACTIVITY SUMMARY

Placed Topsoil on the north end of the site. Final graded the southern portion of the site and worked on stockpiling cover soil for placement in the area of the topsoil stockpile.

Pacific Geomatic Services were on site this shift to perform the final survey on the area where topsoil has been placed and graded.



5 QA ACTIVITY SUMMARY

Observed construction activities. Obtained 5 samples of cover soil for #200 wash sieve analysis.

6 HEALTH AND SAFETY

Clearcreek held a tailgate safety meeting prior to starting work activities.

Tom Doe of Golder Associates will be performing a Safety Audit in accordance with Golder Associates' Corporate Safety Policies. The Safety Audit is scheduled to occur on Friday, October 26, 2006.

7 MEETINGS AND DISCUSSIONS SUMMARY

No meetings or discussions were held this shift.

8 ISSUES AND RESOLUTIONS

No issues encountered this shift.

Allan G. MacLeod
Construction Manager

October 22, 2007

AGM/agm

cc: File - Project
File - Field

**DAILY CONSTRUCTION REPORT
RESERVE SILICA SITE
LOWER DISPOSAL AREA COVER UPGRADE
RAVENSDALE, WASHINGTON**

REPORT NUMBER 35

Tuesday, October 23, 2007

TO: Frank Shuri/Project File

1 WEATHER

Mostly Clear - AM, Mostly Clear - PM, 52° F (AM), 71° F (PM)

2 PRESENT AT SITE:

CONTRACTOR/ORGANIZATION	RESPONSIBILITY	CONTRACTOR PERSONNEL
Clearcreek Contractors	Excavation Contractor	5
Golder Construction Services	Construction Management-CQA Monitoring	1

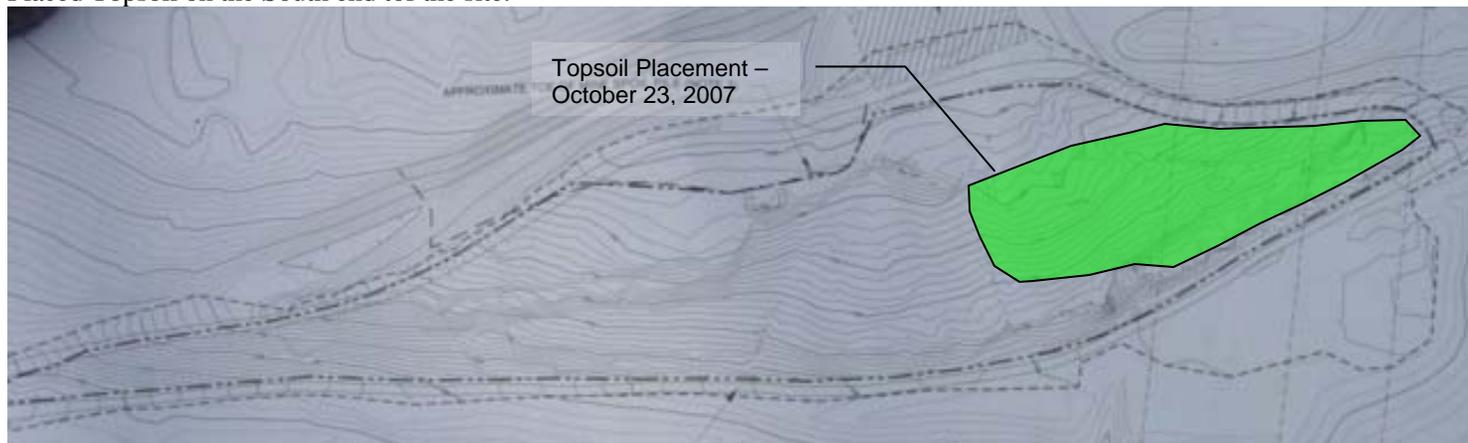
EQUIPMENT	CONTRACTOR	NUMBER
Hitachi 330 Excavator	Clearcreek	1
Hitachi 135 Excavator	Clearcreek	1
Cat D6R Dozer	Clearcreek	1
Komatsu 37PX Dozer	Clearcreek	1
Volvo A25C Articulating End Dump	Clearcreek	1
Volvo A30D Articulating End Dump	Clearcreek	1
IR SD-70D Compactor	Clearcreek	1
Crew Truck	Clearcreek	1

3 SHIFT STARTS AND FINISHES

CONTRACTOR	START	FINISH
Clearcreek Contractors	07:00	17:00

4 CONSTRUCTION ACTIVITY SUMMARY

Placed Topsoil on the South end of the site.



5 QA ACTIVITY SUMMARY

Observed construction activities. Obtained 5 samples of cover soil for #200 wash sieve analysis.

Performed #200 wash sieve analysis on 5 samples of cover soil.

CS-24 – 34.8% Passing the #200 Sieve

CS-25 – 37.4% Passing the #200 Sieve

CS-26 – 40.0% Passing the #200 Sieve

CS-27 – 39.7% Passing the #200 Sieve

CS-28 – 36.2% Passing the #200 Sieve

6 HEALTH AND SAFET

Clearcreek held a tailgate safety meeting prior to starting work activities.

7 MEETINGS AND DISCUSSIONS SUMMARY

No meetings or discussions were held this shift.

8 ISSUES AND RESOLUTIONS

No issues encountered this shift.

Allan G. MacLeod
Construction Manager

October 23, 2007

AGM/agm

cc: File - Project
File - Field

**DAILY CONSTRUCTION REPORT
RESERVE SILICA SITE
LOWER DISPOSAL AREA COVER UPGRADE
RAVENSDALE, WASHINGTON**

REPORT NUMBER 36

Wednesday, October 24, 2007

TO: Frank Shuri/Project File

1 WEATHER

Overcast-Rain - AM, Overcast-Rain - PM, 48° F (AM), 55° F (PM)

2 PRESENT AT SITE:

CONTRACTOR/ORGANIZATION	RESPONSIBILITY	CONTRACTOR PERSONNEL
Clearcreek Contractors	Excavation Contractor	4
Golder Construction Services	Construction Management-CQA Monitoring	1

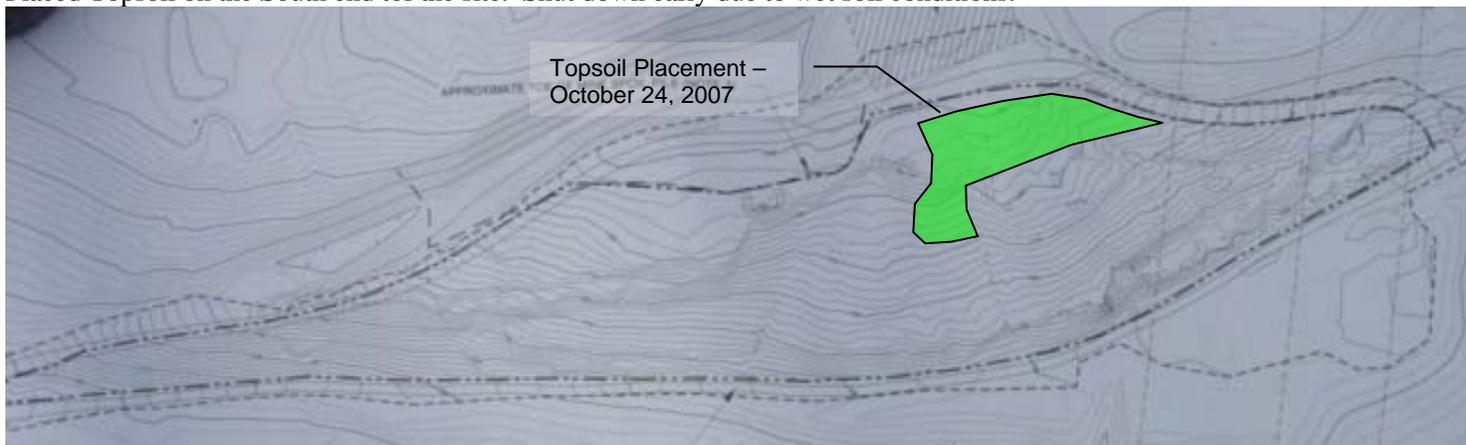
EQUIPMENT	CONTRACTOR	NUMBER
Hitachi 330 Excavator	Clearcreek	1
Hitachi 135 Excavator	Clearcreek	1
Cat D6R Dozer	Clearcreek	1
Komatsu 37PX Dozer	Clearcreek	1
Volvo A25C Articulating End Dump	Clearcreek	1
Volvo A30D Articulating End Dump	Clearcreek	1
IR SD-70D Compactor	Clearcreek	1
Crew Truck	Clearcreek	1

3 SHIFT STARTS AND FINISHES

CONTRACTOR	START	FINISH
Clearcreek Contractors	07:00	14:00

4 CONSTRUCTION ACTIVITY SUMMARY

Placed Topsoil on the South end of the site. Shut down early due to wet soil conditions.



5 QA ACTIVITY SUMMARY

Observed construction activities.

Performed #200 wash sieve analysis on 5 samples of cover soil.

CS-29 – 37.9% Passing the #200 Sieve

CS-30 – 44.5% Passing the #200 Sieve

CS-31 – 40.2% Passing the #200 Sieve

CS-32 – 43.0% Passing the #200 Sieve

CS-33 – 29.3% Passing the #200 Sieve

6 HEALTH AND SAFET

Clearcreek held a tailgate safety meeting prior to starting work activities.

7 MEETINGS AND DISCUSSIONS SUMMARY

No meetings or discussions were held this shift.

8 ISSUES AND RESOLUTIONS

No issues encountered this shift.

Allan G. MacLeod
Construction Manager

October 24, 2007

AGM/agm

cc: File - Project
File - Field

**DAILY CONSTRUCTION REPORT
RESERVE SILICA SITE
LOWER DISPOSAL AREA COVER UPGRADE
RAVENSDALE, WASHINGTON**

REPORT NUMBER 37

Thursday, October 25, 2007

TO: Frank Shuri/Project File

1 WEATHER

Partly Cloudy - AM, Partly Cloudy - PM, 42° F (AM), 56° F (PM)

2 PRESENT AT SITE:

CONTRACTOR/ORGANIZATION	RESPONSIBILITY	CONTRACTOR PERSONNEL
Clearcreek Contractors	Excavation Contractor	4
Golder Construction Services	Construction Management- CQA Monitoring	1

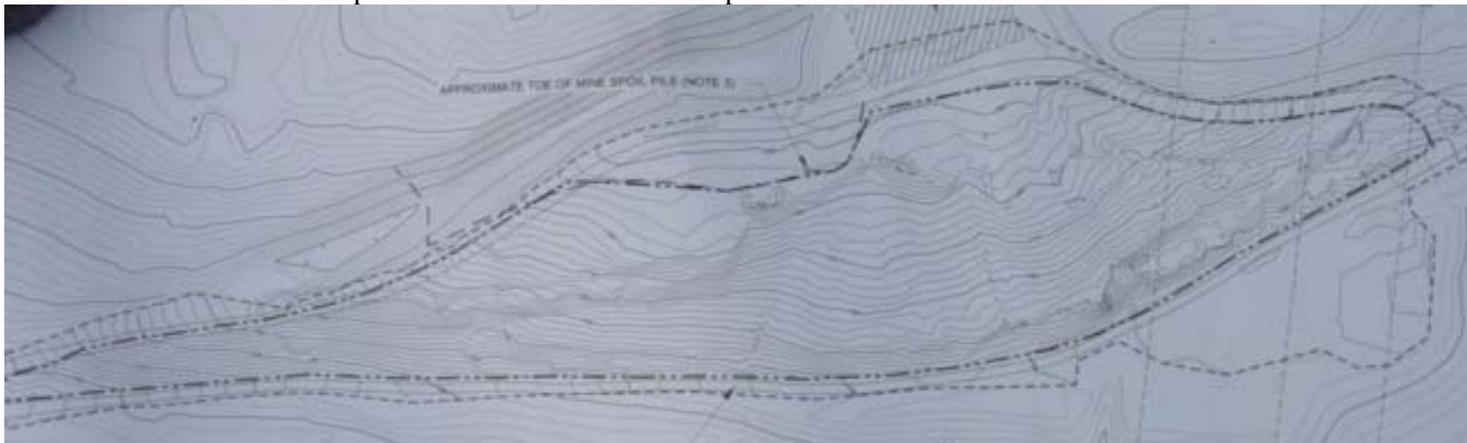
EQUIPMENT	CONTRACTOR	NUMBER
Hitachi 330 Excavator	Clearcreek	1
Hitachi 135 Excavator	Clearcreek	1
Cat D6R Dozer	Clearcreek	1
Komatsu 37PX Dozer	Clearcreek	1
Volvo A25C Articulating End Dump	Clearcreek	1
Volvo A30D Articulating End Dump	Clearcreek	1
IR SD-70D Compactor	Clearcreek	1
Crew Truck	Clearcreek	1

3 SHIFT STARTS AND FINISHES

CONTRACTOR	START	FINISH
Clearcreek Contractors	07:00	14:00

4 CONSTRUCTION ACTIVITY SUMMARY

Contractor worked around the perrimeter of the site. Wet soils prevented work within the site.



Golder Construction Services, Inc.

5 QA ACTIVITY SUMMARY

Observed construction activities.

6 HEALTH AND SAFETY

Clearcreek held a tailgate safety meeting prior to starting work activities.

7 MEETINGS AND DISCUSSIONS SUMMARY

Spoke with Frank Shuri (Golder Associates) about installing a french drain along the center east edge of the site to intercept subsurface water that has been observed in the subgrade soils during construction. Frank had questions regarding the details of this drain and requested that Clearcreek submit a cost estimate to install the drain. Clearcreek said that they would prepare the estimate and submit it to Golder.

8 ISSUES AND RESOLUTIONS

No issues encountered this shift.

Allan G. MacLeod
Construction Manager

October 25, 2007

AGM/agm

cc: File - Project
File - Field

**DAILY CONSTRUCTION REPORT
RESERVE SILICA SITE
LOWER DISPOSAL AREA COVER UPGRADE
RAVENSDALE, WASHINGTON**

REPORT NUMBER 38

Friday, October 26, 2007

TO: Frank Shuri/Project File

1 WEATHER

Mostly Clear - AM, Clear - PM, 30° F (AM), 56° F (PM)

2 PRESENT AT SITE:

CONTRACTOR/ORGANIZATION	RESPONSIBILITY	CONTRACTOR PERSONNEL
Clearcreek Contractors	Excavation Contractor	3
Golder Construction Services	Construction Management-CQA Monitoring	1

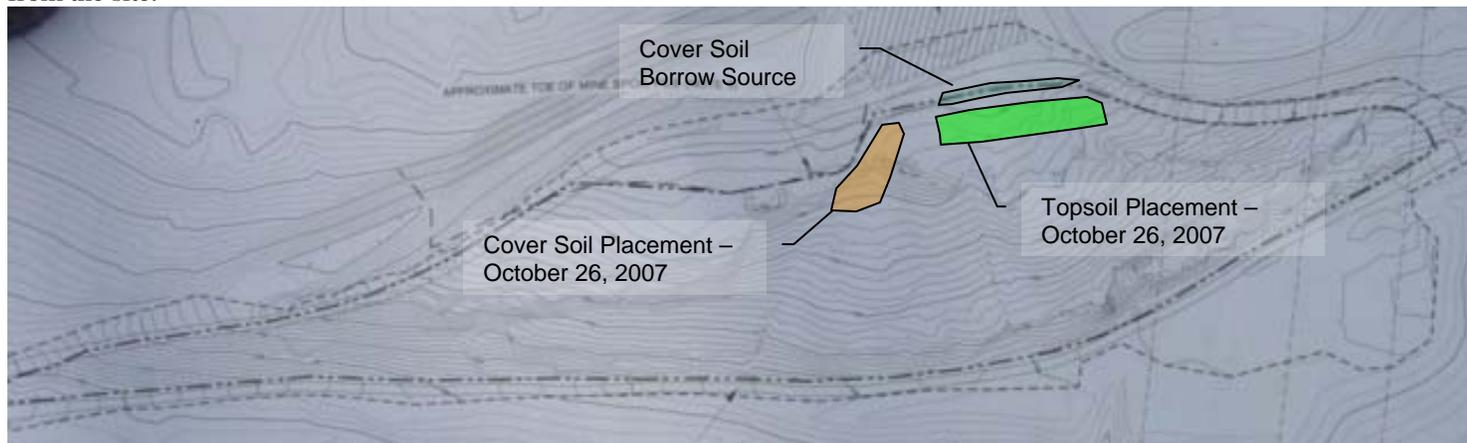
EQUIPMENT	CONTRACTOR	NUMBER
Hitachi 330 Excavator	Clearcreek	1
Hitachi 135 Excavator	Clearcreek	1
Cat D6R Dozer	Clearcreek	1
Komatsu 37PX Dozer	Clearcreek	1
Volvo A25C Articulating End Dump	Clearcreek	1
IR SD-70D Compactor	Clearcreek	1
Crew Truck	Clearcreek	1

3 SHIFT STARTS AND FINISHES

CONTRACTOR	START	FINISH
Clearcreek Contractors	07:00	17:00

4 CONSTRUCTION ACTIVITY SUMMARY

Placed topsoil and cover soil in the center east portion of the site. Demobilized the Volvo A30D end dump from the site.



5 QA ACTIVITY SUMMARY

Observed construction activities. Obtained 2 samples of cover soil for #200 wash sieve analysis.

6 HEALTH AND SAFETY

Clearcreek held a tailgate safety meeting prior to starting work activities.

Tom Doe of Golder Associates was on site to perform a site safety audit in accordance with Golder's corporate safety policies.

7 MEETINGS AND DISCUSSIONS SUMMARY

No meetings or discussions were held this shift.

8 ISSUES AND RESOLUTIONS

No issues encountered this shift.

Allan G. MacLeod
Construction Manager

October 26, 2007

AGM/agm

cc: File - Project
File - Field

**DAILY CONSTRUCTION REPORT
RESERVE SILICA SITE
LOWER DISPOSAL AREA COVER UPGRADE
RAVENSDALE, WASHINGTON**

REPORT NUMBER 39

Saturday, October 27, 2007

TO: Frank Shuri/Project File

1 WEATHER

Mostly Clear - AM, Clear - PM, 30° F (AM), 62° F (PM)

2 PRESENT AT SITE:

CONTRACTOR/ORGANIZATION	RESPONSIBILITY	CONTRACTOR PERSONNEL
Clearcreek Contractors	Excavation Contractor	4
Golder Construction Services	Construction Management- CQA Monitoring	1

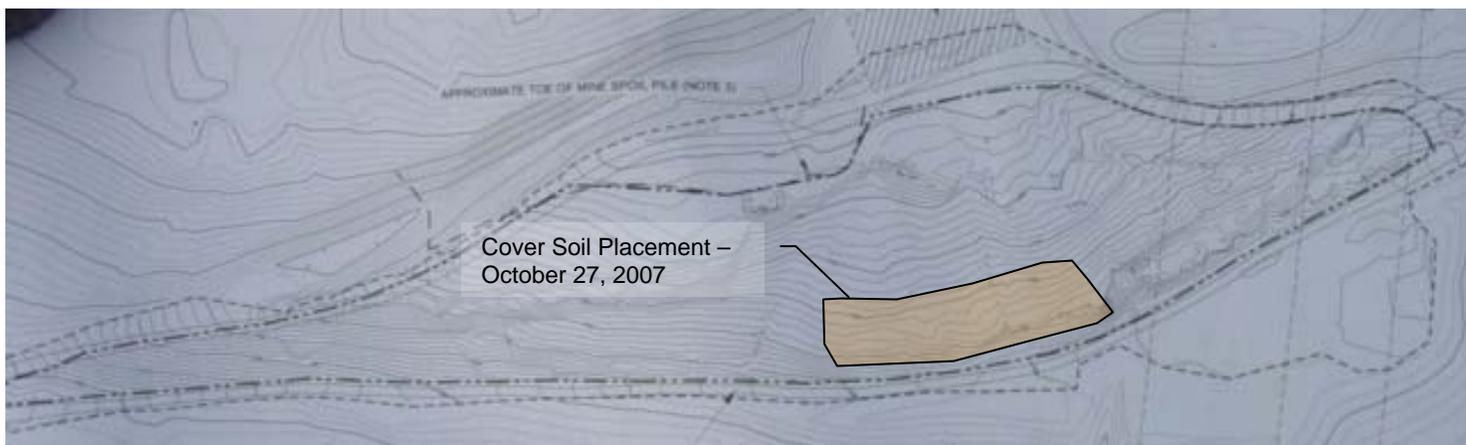
EQUIPMENT	CONTRACTOR	NUMBER
Hitachi 330 Excavator	Clearcreek	1
Hitachi 135 Excavator	Clearcreek	1
Cat D6R Dozer	Clearcreek	1
Komatsu 37PX Dozer	Clearcreek	1
Volvo A25C Articulating End Dump	Clearcreek	1
IR SD-70D Compactor	Clearcreek	1
Crew Truck	Clearcreek	1

3 SHIFT STARTS AND FINISHES

CONTRACTOR	START	FINISH
Clearcreek Contractors	07:00	17:00

4 CONSTRUCTION ACTIVITY SUMMARY

Placed cover soil in the center west portion of the site.



Golder Construction Services, Inc.

5 QA ACTIVITY SUMMARY

Observed construction activities. Performed #200 wash sieve analysis on 2 samples of cover soil.

CS-34 – 26.2% passing the #200 sieve

CS-35 – 27.5% passing the #200 sieve

6 HEALTH AND SAFETY

Clearcreek held a tailgate safety meeting prior to starting work activities.

7 MEETINGS AND DISCUSSIONS SUMMARY

No meetings or discussions were held this shift.

8 ISSUES AND RESOLUTIONS

No issues encountered this shift.

Allan G. MacLeod
Construction Manager

October 27, 2007

AGM/agm

cc: File - Project
File - Field

**DAILY CONSTRUCTION REPORT
RESERVE SILICA SITE
LOWER DISPOSAL AREA COVER UPGRADE
RAVENSDALE, WASHINGTON**

REPORT NUMBER 40

Sunday, October 28, 2007

TO: Frank Shuri/Project File

1 WEATHER

Mostly Clear - AM, Clear - PM, 30° F (AM), 62° F (PM)

2 PRESENT AT SITE:

CONTRACTOR/ORGANIZATION	RESPONSIBILITY	CONTRACTOR PERSONNEL
Clearcreek Contractors	Excavation Contractor	
Golder Construction Services	Construction Management-CQA Monitoring	1

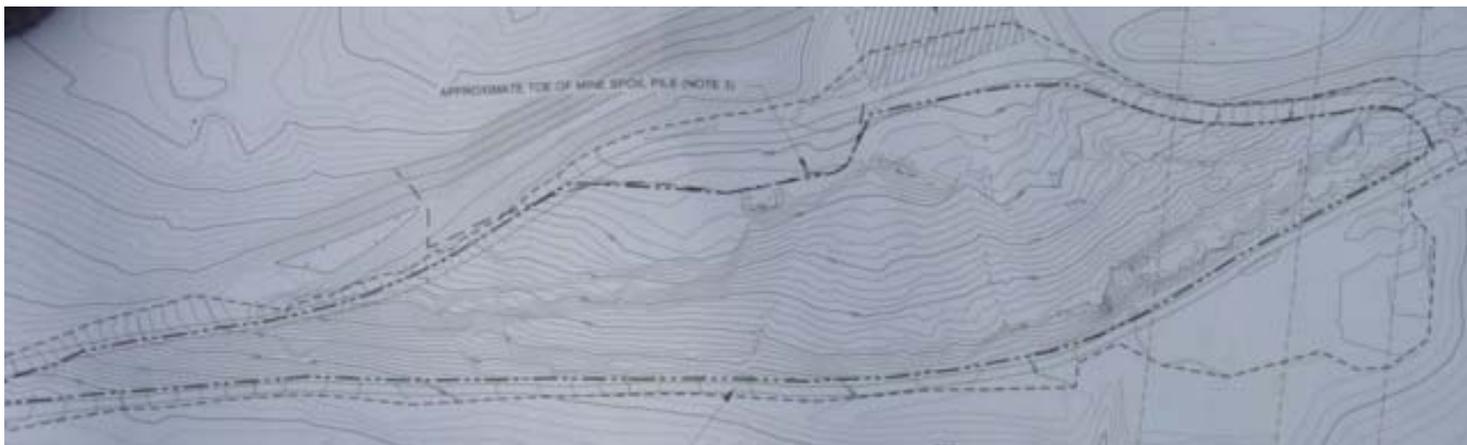
EQUIPMENT	CONTRACTOR	NUMBER
Hitachi 330 Excavator	Clearcreek	1
Hitachi 135 Excavator	Clearcreek	1
Cat D6R Dozer	Clearcreek	1
Komatsu 37PX Dozer	Clearcreek	1
Volvo A25C Articulating End Dump	Clearcreek	1
IR SD-70D Compactor	Clearcreek	1
Crew Truck	Clearcreek	1

3 SHIFT STARTS AND FINISHES

CONTRACTOR	START	FINISH
Clearcreek Contractors	08:00	08:00

4 CONSTRUCTION ACTIVITY SUMMARY

No work this shift. Contractor time differences



Golder Construction Services, Inc.

5 QA ACTIVITY SUMMARY

No work this shift.

6 HEALTH AND SAFETY

No health and safety issues encountered this shift

7 MEETINGS AND DISCUSSIONS SUMMARY

Contractor called after Golder was on site stating that they were not going to work this shift due to confusion of the contractor's employees over daylight savings time clock change. Some employees set their clocks and others did not.

8 ISSUES AND RESOLUTIONS

No issues encountered this shift.

Allan G. MacLeod
Construction Manager

October 28, 2007

AGM/agm

cc: File - Project
File - Field

**DAILY CONSTRUCTION REPORT
RESERVE SILICA SITE
LOWER DISPOSAL AREA COVER UPGRADE
RAVENSDALE, WASHINGTON**

REPORT NUMBER 41

Monday, October 29, 2007

TO: Frank Shuri/Project File

1 WEATHER

Mostly Cloudy - AM, Overcast, Showers - PM, 44° F (AM), 57° F (PM)

2 PRESENT AT SITE:

CONTRACTOR/ORGANIZATION	RESPONSIBILITY	CONTRACTOR PERSONNEL
Clearcreek Contractors	Excavation Contractor	3
Golder Construction Services	Construction Management-CQA Monitoring	1

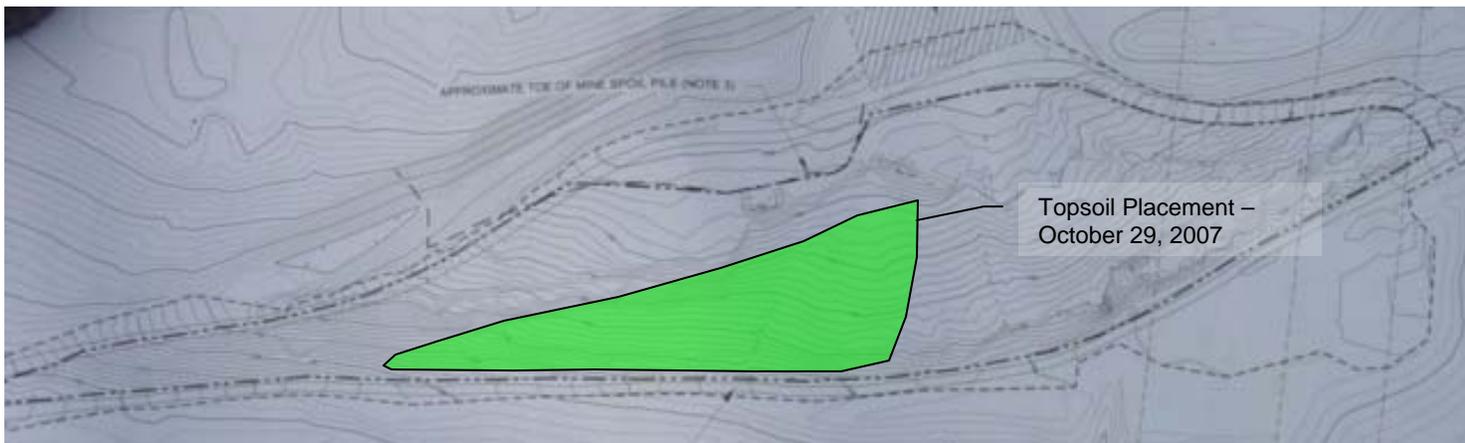
EQUIPMENT	CONTRACTOR	NUMBER
Hitachi 330 Excavator	Clearcreek	1
Hitachi 135 Excavator	Clearcreek	1
Cat D6R Dozer	Clearcreek	1
Komatsu 37PX Dozer	Clearcreek	1
Volvo A25C Articulating End Dump	Clearcreek	1
IR SD-70D Compactor	Clearcreek	1
Crew Truck	Clearcreek	1

3 SHIFT STARTS AND FINISHES

CONTRACTOR	START	FINISH
Clearcreek Contractors	07:00	15:00

4 CONSTRUCTION ACTIVITY SUMMARY

Placed topsoil in the center portion of the site.



Golder Construction Services, Inc.

5 QA ACTIVITY SUMMARY

Observed construction activities.

6 HEALTH AND SAFETY

Clearcreek held a tailgate safety meeting prior to starting work activities.

7 MEETINGS AND DISCUSSIONS SUMMARY

Frank Shuri of Golder Associates was on site to observe construction progress.

8 ISSUES AND RESOLUTIONS

No issues encountered this shift.

Allan G. MacLeod
Construction Manager

October 29, 2007

AGM/agm

cc: File - Project
File - Field

**DAILY CONSTRUCTION REPORT
RESERVE SILICA SITE
LOWER DISPOSAL AREA COVER UPGRADE
RAVENSDALE, WASHINGTON**

REPORT NUMBER 42

Tuesday, October 30, 2007

TO: Frank Shuri/Project File

1 WEATHER

Mostly Clear - AM, Mostly Clear - PM, 38° F (AM), 54° F (PM)

2 PRESENT AT SITE:

CONTRACTOR/ORGANIZATION	RESPONSIBILITY	CONTRACTOR PERSONNEL
Clearcreek Contractors	Excavation Contractor	4
Pacific Geomatic Services, Inc.	Surveying	2
Golder Construction Services	Construction Management- CQA Monitoring	1

EQUIPMENT	CONTRACTOR	NUMBER
Hitachi 330 Excavator	Clearcreek	1
Hitachi 135 Excavator	Clearcreek	1
Cat D6R Dozer	Clearcreek	1
Komatsu 37PX Dozer	Clearcreek	1
Volvo A25C Articulating End Dump	Clearcreek	1
IR SD-70D Compactor	Clearcreek	1
Crew Truck	Clearcreek	1

3 SHIFT STARTS AND FINISHES

CONTRACTOR	START	FINISH
Clearcreek Contractors	07:00	15:00

4 CONSTRUCTION ACTIVITY SUMMARY

Completed placement of cover soil and topsoil. Two hundred eighty, 50-lb boxes of Flexterra erosion control fiber were delivered to the site.

Pacific Geometric Services completed the final surficial survey of the site.



5 QA ACTIVITY SUMMARY

Observed construction activities. Obtained 2 samples of bedding sand for #200 wash sieve analysis.

6 HEALTH AND SAFETY

Clearcreek held a tailgate safety meeting prior to starting work activities.

7 MEETINGS AND DISCUSSIONS SUMMARY

No meetings or discussions were held this shift..

8 ISSUES AND RESOLUTIONS

Completion of the cover soil placement resolves all issues relating to the CKD exposure encountered during site regrading. All areas of exposed CKD have been covered with a minimum of 2-feet of cover soil in accordance with the project plans and specifications.

Allan G. MacLeod
Construction Manager

October 30, 2007

AGM/agm

cc: File - Project
File - Field

**DAILY CONSTRUCTION REPORT
RESERVE SILICA SITE
LOWER DISPOSAL AREA COVER UPGRADE
RAVENSDALE, WASHINGTON**

REPORT NUMBER 43

Wednesday, October 31, 2007

TO: Frank Shuri/Project File

1 WEATHER

Partly Cloudy - AM, Partly Cloudy - PM, 31° F (AM), 57° F (PM)

2 PRESENT AT SITE:

CONTRACTOR/ORGANIZATION	RESPONSIBILITY	CONTRACTOR PERSONNEL
Clearcreek Contractors	Excavation Contractor	4
The Hydroseeder	Hydroseeding	2
Golder Construction Services	Construction Management- CQA Monitoring	1

EQUIPMENT	CONTRACTOR	NUMBER
Hitachi 330 Excavator	Clearcreek	1
Hitachi 135 Excavator	Clearcreek	1
Cat D6R Dozer	Clearcreek	1
Komatsu 37PX Dozer	Clearcreek	1
Volvo A25C Articulating End Dump	Clearcreek	1
IR SD-70D Compactor	Clearcreek	1
Crew Truck	Clearcreek	1

3 SHIFT STARTS AND FINISHES

CONTRACTOR	START	FINISH
Clearcreek Contractors	07:00	15:00

4 CONSTRUCTION ACTIVITY SUMMARY

Performed final grooming of topsoil. Began construction of the drainage ditch along the eastern edge of the LDA. Began hydroseeding of the site.

5 QA ACTIVITY SUMMARY

Observed construction activities. Performed wash sieve analysis on 2 samples of bedding sand.

BS-01 – 14.6% Passing the #200 sieve

BS-02 – 14.8% Passing the #200 sieve

Marked out the steeper slope areas that require the placement of Flexterra erosion control fiber.

6 HEALTH AND SAFETY

Clearcreek held a tailgate safety meeting prior to starting work activities.

Golder Construction Services, Inc.

7 MEETINGS AND DISCUSSIONS**SUMMARY**

Spoke with Clearcreek and the hydroseeder about what areas required Flexterra erosion control fiber. Once those areas had been properly covered with the erosion control fiber, and remaining fiber was to be placed on the LDA at the discretion of the hydroseeder.

8 ISSUES AND RESOLUTIONS

Issue 10312007-1: Wash sieve analysis of samples of the bedding sand did not meet the project specifications of less than 10% passing the #200 sieve. The samples tested had 14.6% and 14.8% passing the #200 sieve.

Issue 10312007-1 Resolution: The project designer said that the bedding sand had no requirement for permeability and that the bedding sand was to protect the geomembrane liner from damage by the overlying quarry spalls in the drainage ditch. The project designer said that the bedding sand material tested met the intent of the specifications and would be acceptable for use on this project.

Allan G. MacLeod
Construction Manager

October 31, 2007

AGM/agm

cc: File - Project
File - Field

**DAILY CONSTRUCTION REPORT
RESERVE SILICA SITE
LOWER DISPOSAL AREA COVER UPGRADE
RAVENSDALE, WASHINGTON**

REPORT NUMBER 44

Thursday, November 1, 2007

TO: Frank Shuri/Project File

1 WEATHER

Partly Cloudy - AM, Partly Cloudy - PM, 31° F (AM), ° F (PM)

2 PRESENT AT SITE:

CONTRACTOR/ORGANIZATION	RESPONSIBILITY	CONTRACTOR PERSONNEL
Clearcreek Contractors	Excavation Contractor	2
The Hydroseeder	Hydroseeding	2
Golder Construction Services	Construction Management- CQA Monitoring	1

EQUIPMENT	CONTRACTOR	NUMBER
Hitachi 330 Excavator	Clearcreek	1
Hitachi 135 Excavator	Clearcreek	1
Cat D6R Dozer	Clearcreek	1
Komatsu 37PX Dozer	Clearcreek	1
Volvo A25C Articulating End Dump	Clearcreek	1
IR SD-70D Compactor	Clearcreek	1
Crew Truck	Clearcreek	1

3 SHIFT STARTS AND FINISHES

CONTRACTOR	START	FINISH
Clearcreek Contractors	07:00	15:00

4 CONSTRUCTION ACTIVITY SUMMARY

Continued construction of the drainage ditch along the eastern edge of the LDA. Completed hydroseeding of the site.

Located the outlet of 2 pipes that had been observed under the access road lon the east side of the LDA.

Clearcreek stopped work early due to a leaky hydraulic line on the Volvo A25C dump truck and illness of one of their employees.

5 QA ACTIVITY SUMMARY

Observed construction activities.

6 HEALTH AND SAFETY

Clearcreek held a tailgate safety meeting prior to starting work activities.

7 MEETINGS AND DISCUSSIONS SUMMARY

No meetings or discussions were held this shift.

8 ISSUES AND RESOLUTIONS

No construction issues were encountered this shift.

Allan G. MacLeod
Construction Manager

November 1, 2007

AGM/agm

cc: File - Project
File - Field

**DAILY CONSTRUCTION REPORT
RESERVE SILICA SITE
LOWER DISPOSAL AREA COVER UPGRADE
RAVENSDALE, WASHINGTON**

REPORT NUMBER 45

Friday, November 2, 2007

TO: Frank Shuri/Project File

1 WEATHER

Partly Cloudy - AM, - PM, 42° F (AM), ° F (PM)

2 PRESENT AT SITE:

CONTRACTOR/ORGANIZATION	RESPONSIBILITY	CONTRACTOR PERSONNEL
Clearcreek Contractors	Excavation Contractor	1
Golder Construction Services	Construction Management- CQA Monitoring	1

EQUIPMENT	CONTRACTOR	NUMBER
Hitachi 330 Excavator	Clearcreek	1
Hitachi 135 Excavator	Clearcreek	1
Cat D6R Dozer	Clearcreek	1
Komatsu 37PX Dozer	Clearcreek	1
Volvo A25C Articulating End Dump	Clearcreek	1
IR SD-70D Compactor	Clearcreek	1
Crew Truck	Clearcreek	1

3 SHIFT STARTS AND FINISHES

CONTRACTOR	START	FINISH
Clearcreek Contractors	07:00	10:00

4 CONSTRUCTION ACTIVITY SUMMARY

Unloaded culvert pipe and pipe for the "french" drain to be installed along the east center edge of the LDA.

No other work was performed this due to several contractor employees illness.

5 QA ACTIVITY SUMMARY

Observed construction activities.

6 HEALTH AND SAFETY

Clearcreek held a tailgate safety meeting prior to starting work activities.

7 MEETINGS AND DISCUSSIONS SUMMARY

No meetings or discussions were held this shift.

Golder Construction Services, Inc.

8 ISSUES AND RESOLUTIONS

No construction issues were encountered this shift.

Allan G. MacLeod
Construction Manager

November 2, 2007

AGM/agm

cc: File - Project
File - Field

**DAILY CONSTRUCTION REPORT
RESERVE SILICA SITE
LOWER DISPOSAL AREA COVER UPGRADE
RAVENSDALE, WASHINGTON**

REPORT NUMBER 46

Saturday, November 3, 2007

TO: Frank Shuri/Project File

1 WEATHER

Mostly Cloudy - AM, - PM, 46° F (AM), ° F (PM)

2 PRESENT AT SITE:

CONTRACTOR/ORGANIZATION	RESPONSIBILITY	CONTRACTOR PERSONNEL
Clearcreek Contractors	Excavation Contractor	2
Golder Construction Services	Construction Management-CQA Monitoring	1

EQUIPMENT	CONTRACTOR	NUMBER
Hitachi 330 Excavator	Clearcreek	1
Hitachi 135 Excavator	Clearcreek	1
Cat D6R Dozer	Clearcreek	1
Komatsu 37PX Dozer	Clearcreek	1
Volvo A25C Articulating End Dump	Clearcreek	1
IR SD-70D Compactor	Clearcreek	1
Crew Truck	Clearcreek	1

3 SHIFT STARTS AND FINISHES

CONTRACTOR	START	FINISH
Clearcreek Contractors	07:00	13:00

4 CONSTRUCTION ACTIVITY SUMMARY

Installed 18-inch diameter corrugated metal pipe (CMP)culvert under the main access road.

5 QA ACTIVITY SUMMARY

Observed construction activities.

6 HEALTH AND SAFETY

Clearcreek held a tailgate safety meeting prior to starting work activities.

7 MEETINGS AND DISCUSSIONS SUMMARY

No meetings or discussions were held this shift.

Golder Construction Services, Inc.

8 ISSUES AND RESOLUTIONS

No construction issues were encountered this shift.

Allan G. MacLeod
Construction Manager

November 3, 2007

AGM/agm

cc: File - Project
File - Field

**DAILY CONSTRUCTION REPORT
RESERVE SILICA SITE
LOWER DISPOSAL AREA COVER UPGRADE
RAVENSDALE, WASHINGTON**

REPORT NUMBER 47

Monday, November 5, 2007

TO: Frank Shuri/Project File

1 WEATHER

Low Clouds-Fog - AM, Partly Cloudy- PM, 41° F (AM), 56° F (PM)

2 PRESENT AT SITE:

CONTRACTOR/ORGANIZATION	RESPONSIBILITY	CONTRACTOR PERSONNEL
Clearcreek Contractors	Excavation Contractor	4
Golder Construction Services	Construction Management- CQA Monitoring	1

EQUIPMENT	CONTRACTOR	NUMBER
Hitachi 330 Excavator	Clearcreek	1
Hitachi 135 Excavator	Clearcreek	1
Cat D6R Dozer	Clearcreek	1
Komatsu 37PX Dozer	Clearcreek	1
Volvo A25C Articulating End Dump	Clearcreek	1
IR SD-70D Compactor	Clearcreek	1
Crew Truck	Clearcreek	1

3 SHIFT STARTS AND FINISHES

CONTRACTOR	START	FINISH
Clearcreek Contractors	07:00	17:00

4 CONSTRUCTION ACTIVITY SUMMARY

Completed installation of 18-inch diameter, corrugated metal culvert, installed catch basin in the drainage ditch at the southwest corner of the LDA, and installed 18-inch diameter, corrugated exterior, smooth interior culvert from the east LDA ditch to the catch basin.

5 QA ACTIVITY SUMMARY

Observed construction activities. Picked up a pH meter from the Golder Annex and measured the pH of water located in the drainage ditches along the west side of the LDA.

6 HEALTH AND SAFETY

Clearcreek held a tailgate safety meeting prior to starting work activities.

7 MEETINGS AND DISCUSSIONS**SUMMARY**

Spoke with Frank Shuri of Golder Associates about the under drain encountered and the pH measurements along the west side of the LDA. Frank prepared a memo and sent it to Holcim.

8 ISSUES AND RESOLUTIONS

Issue 11052007-1: During the installation of the catch basin at the southwest corner of the LDA, an under drain was encountered in the ditch line. This under drain consisted of a 6-inch diameter, perforated corrugated ADS pipe bedded in pea gravel. Water from around this pipe had a measured pH of 12.87.

Issue 11052007-1 Resolution: Nothing is to be done with this under drain at this time. The pipe was covered and left in place until further review of the situation.

Allan G. MacLeod
Construction Manager

November 5, 2007

AGM/agm

cc: File - Project
File - Field

**DAILY CONSTRUCTION REPORT
RESERVE SILICA SITE
LOWER DISPOSAL AREA COVER UPGRADE
RAVENSDALE, WASHINGTON**

REPORT NUMBER 48

Tuesday, November 6, 2007

TO: Frank Shuri/Project File

1 WEATHER

Low Clouds-Fog - AM, Partly Cloudy- PM, 46° F (AM), 56° F (PM)

2 PRESENT AT SITE:

CONTRACTOR/ORGANIZATION	RESPONSIBILITY	CONTRACTOR PERSONNEL
Clearcreek Contractors	Excavation Contractor	4
Golder Construction Services	Construction Management- CQA Monitoring	1

EQUIPMENT	CONTRACTOR	NUMBER
Hitachi 330 Excavator	Clearcreek	1
Hitachi 135 Excavator	Clearcreek	1
Cat D6R Dozer	Clearcreek	1
Komatsu 37PX Dozer	Clearcreek	1
Volvo A25C Articulating End Dump	Clearcreek	1
IR SD-70D Compactor	Clearcreek	1
Crew Truck	Clearcreek	1

3 SHIFT STARTS AND FINISHES

CONTRACTOR	START	FINISH
Clearcreek Contractors	07:00	17:00

4 CONSTRUCTION ACTIVITY SUMMARY

Completed installation of the catch basin at the southwest corner of the LDA. Constructed a drainage swale for surface water collection from the east inlet of the new culvert around the south end of the LDA to other catch basin at the southwest corner of the LDA..

5 QA ACTIVITY SUMMARY

Observed construction activities. Measured the pH of standing water located along the east side of the LDA.

6 HEALTH AND SAFETY

Clearcreek held a tailgate safety meeting prior to starting work activities.

7 MEETINGS AND DISCUSSIONS SUMMARY

No meetings or discussions were held this shift.

Golder Construction Services, Inc.

8 ISSUES AND RESOLUTIONS

No issues were encountered this shift

Allan G. MacLeod
Construction Manager

November 6, 2007

AGM/agm

cc: File - Project
File - Field

**DAILY CONSTRUCTION REPORT
RESERVE SILICA SITE
LOWER DISPOSAL AREA COVER UPGRADE
RAVENSDALE, WASHINGTON**

REPORT NUMBER 49

Wednesday, November 7, 2007

TO: Frank Shuri/Project File

1 WEATHER

Overcast - AM, Mostly Cloudy- PM, 51° F (AM), 58° F (PM)

2 PRESENT AT SITE:

CONTRACTOR/ORGANIZATION	RESPONSIBILITY	CONTRACTOR PERSONNEL
Clearcreek Contractors	Excavation Contractor	4
Golder Construction Services	Construction Management- CQA Monitoring	1

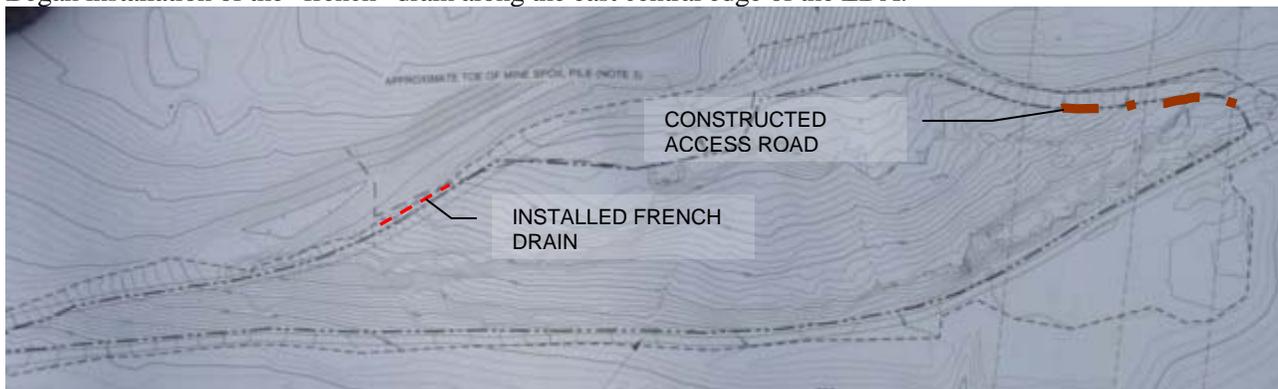
EQUIPMENT	CONTRACTOR	NUMBER
Hitachi 200 Excavator	Clearcreek	1
Hitachi 135 Excavator	Clearcreek	1
Cat D6R Dozer	Clearcreek	1
Komatsu 37PX Dozer	Clearcreek	1
Volvo A25C Articulating End Dump	Clearcreek	1
IR SD-70D Compactor	Clearcreek	1
Crew Truck	Clearcreek	1

3 SHIFT STARTS AND FINISHES

CONTRACTOR	START	FINISH
Clearcreek Contractors	07:00	17:00

4 CONSTRUCTION ACTIVITY SUMMARY

Began construction of the access road along the east side of the LDA, starting from the south end of the LDA.
Began installation of the “french” drain along the east central edge of the LDA.



5 QA ACTIVITY SUMMARY

Observed construction activities.

6 HEALTH AND SAFETY

Clearcreek held a tailgate safety meeting prior to starting work activities.

7 MEETINGS AND DISCUSSIONS SUMMARY

No meetings or discussions were held this shift.

8 ISSUES AND RESOLUTIONS

No issues were encountered this shift

Allan G. MacLeod
Construction Manager

November 7, 2007

AGM/agm

cc: File - Project
File - Field

**DAILY CONSTRUCTION REPORT
RESERVE SILICA SITE
LOWER DISPOSAL AREA COVER UPGRADE
RAVENSDALE, WASHINGTON**

REPORT NUMBER 50

Thursday, November 8, 2007

TO: Frank Shuri/Project File

1 WEATHER

Overcast - AM, Partly Cloudy- PM, 51° F (AM), 58° F (PM)

2 PRESENT AT SITE:

CONTRACTOR/ORGANIZATION	RESPONSIBILITY	CONTRACTOR PERSONNEL
Clearcreek Contractors	Excavation Contractor	4
Golder Construction Services	Construction Management- CQA Monitoring	1

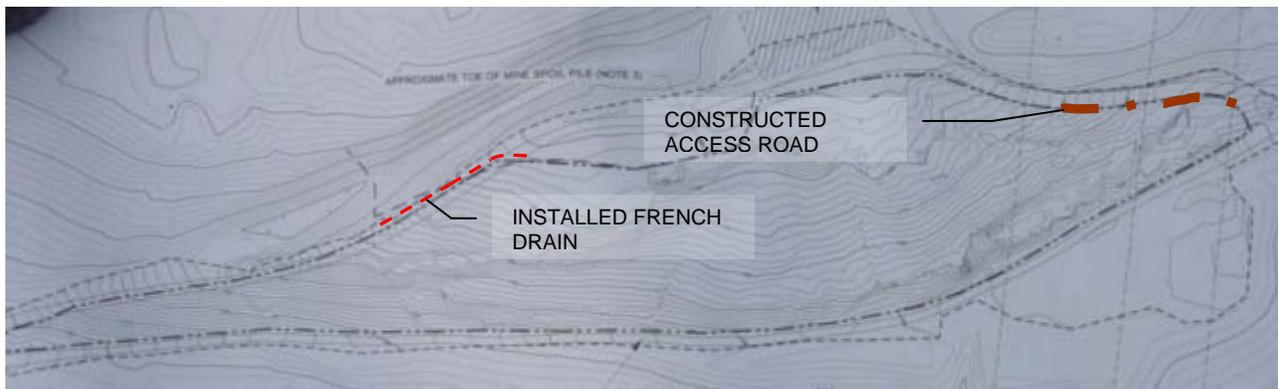
EQUIPMENT	CONTRACTOR	NUMBER
Hitachi 200 Excavator	Clearcreek	1
Hitachi 135 Excavator	Clearcreek	1
Komatsu 37PX Dozer	Clearcreek	1
Volvo A25C Articulating End Dump	Clearcreek	1
IR SD-70D Compactor	Clearcreek	1
Crew Truck	Clearcreek	1

3 SHIFT STARTS AND FINISHES

CONTRACTOR	START	FINISH
Clearcreek Contractors	07:00	17:00

4 CONSTRUCTION ACTIVITY SUMMARY

Continued installation of the “french” drain along the east central edge of the LDA.



5 QA ACTIVITY SUMMARY

Golder Construction Services, Inc.

Observed construction activities.

6 HEALTH AND SAFETY

Clearcreek held a tailgate safety meeting prior to starting work activities.

7 MEETINGS AND DISCUSSIONS SUMMARY

No meetings or discussions were held this shift.

8 ISSUES AND RESOLUTIONS

No issues were encountered this shift

Allan G. MacLeod
Construction Manager

November 8, 2007

AGM/agm
cc: File - Project
File - Field

**DAILY CONSTRUCTION REPORT
RESERVE SILICA SITE
LOWER DISPOSAL AREA COVER UPGRADE
RAVENSDALE, WASHINGTON**

REPORT NUMBER 51

Friday, November 9, 2007

TO: Frank Shuri/Project File

1 WEATHER

Overcast - AM, Partly Cloudy- PM, 52° F (AM), 58° F (PM)

2 PRESENT AT SITE:

CONTRACTOR/ORGANIZATION	RESPONSIBILITY	CONTRACTOR PERSONNEL
Clearcreek Contractors	Excavation Contractor	4
Golder Construction Services	Construction Management- CQA Monitoring	1

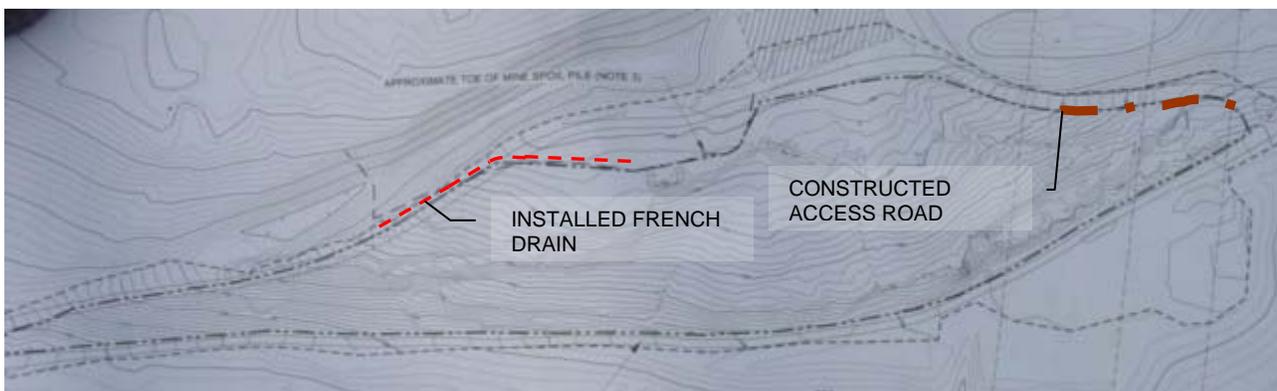
EQUIPMENT	CONTRACTOR	NUMBER
Hitachi 200 Excavator	Clearcreek	1
Hitachi 135 Excavator	Clearcreek	1
Komatsu 37PX Dozer	Clearcreek	1
Volvo A25C Articulating End Dump	Clearcreek	1
IR SD-70D Compactor	Clearcreek	1
Crew Truck	Clearcreek	1

3 SHIFT STARTS AND FINISHES

CONTRACTOR	START	FINISH
Clearcreek Contractors	07:00	16:00

4 CONSTRUCTION ACTIVITY SUMMARY

Continued installation of the “french” drain along the east central edge of the LDA.



5 QA ACTIVITY SUMMARY

Golder Construction Services, Inc.

Observed construction activities.

6 HEALTH AND SAFETY

Clearcreek held a tailgate safety meeting prior to starting work activities.

7 MEETINGS AND DISCUSSIONS SUMMARY

No meetings or discussions were held this shift.

8 ISSUES AND RESOLUTIONS

No issues were encountered this shift

Allan G. MacLeod
Construction Manager

November 9, 2007

AGM/agm
cc: File - Project
File - Field

**DAILY CONSTRUCTION REPORT
RESERVE SILICA SITE
LOWER DISPOSAL AREA COVER UPGRADE
RAVENSDALE, WASHINGTON**

REPORT NUMBER 52

Monday, November 12, 2007

TO: Frank Shuri/Project File

1 WEATHER

Overcast, Rain - AM, Overcast, Rain- PM, 44° F (AM), 53° F (PM)

2 PRESENT AT SITE:

CONTRACTOR/ORGANIZATION	RESPONSIBILITY	CONTRACTOR PERSONNEL
Clearcreek Contractors	Excavation Contractor	4
Golder Construction Services	Construction Management- CQA Monitoring	1

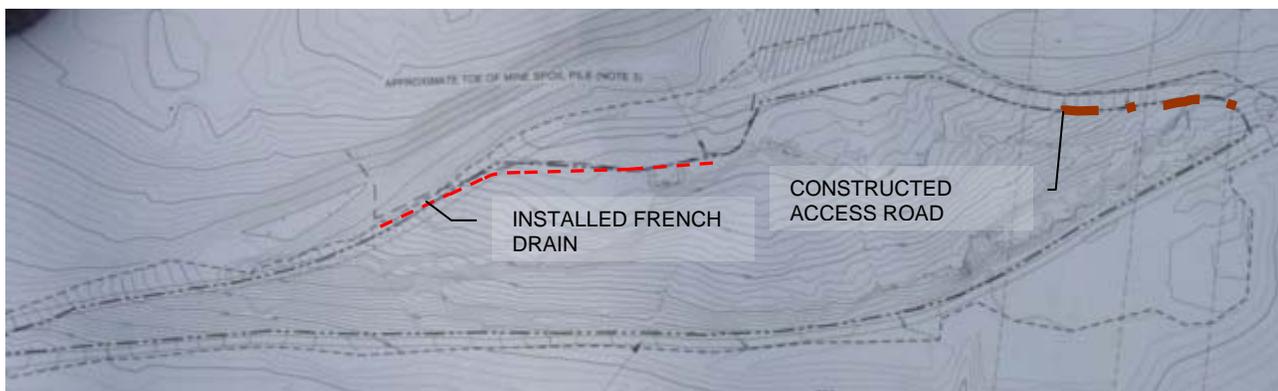
EQUIPMENT	CONTRACTOR	NUMBER
Hitachi 200 Excavator	Clearcreek	1
Hitachi 135 Excavator	Clearcreek	1
Komatsu 37PX Dozer	Clearcreek	1
Volvo A25C Articulating End Dump	Clearcreek	1
IR SD-70D Compactor	Clearcreek	1
Crew Truck	Clearcreek	1

3 SHIFT STARTS AND FINISHES

CONTRACTOR	START	FINISH
Clearcreek Contractors	07:00	16:30

4 CONSTRUCTION ACTIVITY SUMMARY

Completed installation of the “french” drain along the east central edge of the LDA.



5 QA ACTIVITY SUMMARY

Golder Construction Services, Inc.

Observed construction activities.

6 HEALTH AND SAFETY

Clearcreek held a tailgate safety meeting prior to starting work activities.

7 MEETINGS AND DISCUSSIONS SUMMARY

No meetings or discussions were held this shift.

8 ISSUES AND RESOLUTIONS

No issues were encountered this shift

Allan G. MacLeod
Construction Manager

November 12, 2007

AGM/agm
cc: File - Project
File - Field

**DAILY CONSTRUCTION REPORT
RESERVE SILICA SITE
LOWER DISPOSAL AREA COVER UPGRADE
RAVENSDALE, WASHINGTON**

REPORT NUMBER 53

Tuesday, November 13, 2007

TO: Frank Shuri/Project File

1 WEATHER

Overcast- AM, Overcast - PM, 44° F (AM), 53° F (PM)

2 PRESENT AT SITE:

CONTRACTOR/ORGANIZATION	RESPONSIBILITY	CONTRACTOR PERSONNEL
Clearcreek Contractors	Excavation Contractor	4
Golder Construction Services	Construction Management- CQA Monitoring	1

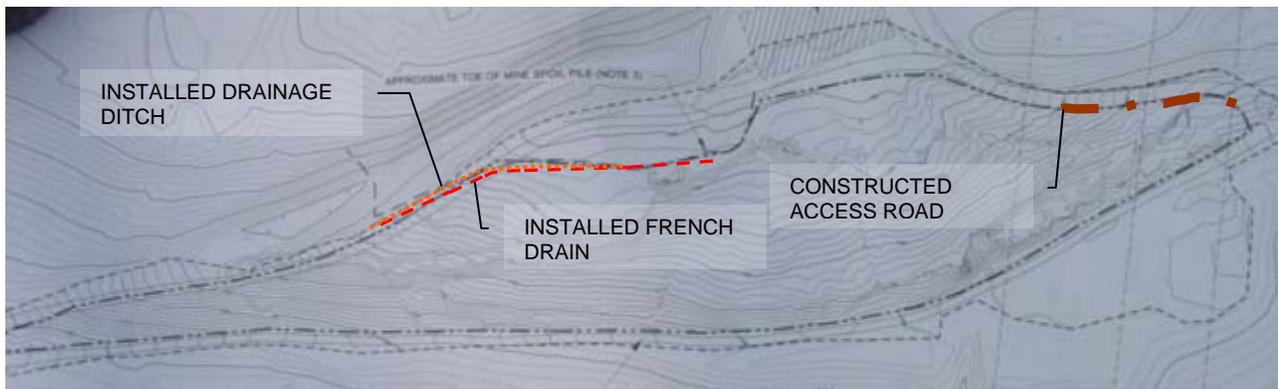
EQUIPMENT	CONTRACTOR	NUMBER
Hitachi 200 Excavator	Clearcreek	1
Hitachi 135 Excavator	Clearcreek	1
Komatsu 37PX Dozer	Clearcreek	1
Volvo A25C Articulating End Dump	Clearcreek	1
IR SD-70D Compactor	Clearcreek	1
Crew Truck	Clearcreek	1

3 SHIFT STARTS AND FINISHES

CONTRACTOR	START	FINISH
Clearcreek Contractors	07:00	16:30

4 CONSTRUCTION ACTIVITY SUMMARY

Continued construction of the drainage ditch along the east side of the LDA.



5 QA ACTIVITY SUMMARY

Golder Construction Services, Inc.

Observed construction activities.

6 HEALTH AND SAFETY

Clearcreek held a tailgate safety meeting prior to starting work activities.

7 MEETINGS AND DISCUSSIONS SUMMARY

No meetings or discussions were held this shift.

8 ISSUES AND RESOLUTIONS

No issues were encountered this shift

Allan G. MacLeod
Construction Manager

November 13, 2007

AGM/agm
cc: File - Project
File - Field

**DAILY CONSTRUCTION REPORT
RESERVE SILICA SITE
LOWER DISPOSAL AREA COVER UPGRADE
RAVENSDALE, WASHINGTON**

REPORT NUMBER 54

Wednesday, November 14, 2007

TO: Frank Shuri/Project File

1 WEATHER

Overcast- AM, Overcast - PM, 31° F (AM), 53° F (PM)

2 PRESENT AT SITE:

CONTRACTOR/ORGANIZATION	RESPONSIBILITY	CONTRACTOR PERSONNEL
Clearcreek Contractors	Excavation Contractor	4
Golder Construction Services	Construction Management- CQA Monitoring	1

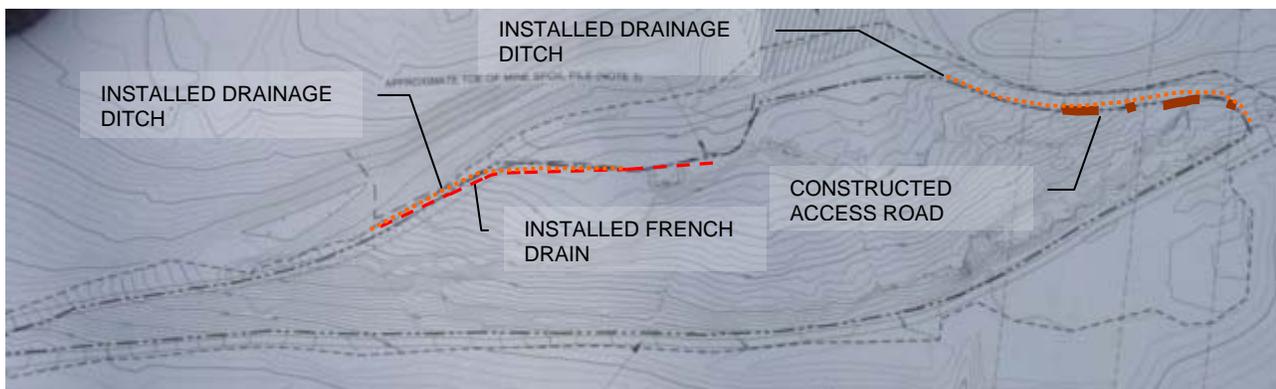
EQUIPMENT	CONTRACTOR	NUMBER
Hitachi 200 Excavator	Clearcreek	1
Hitachi 135 Excavator	Clearcreek	1
Komatsu 37PX Dozer	Clearcreek	1
Volvo A25C Articulating End Dump	Clearcreek	1
IR SD-70D Compactor	Clearcreek	1
Crew Truck	Clearcreek	1

3 SHIFT STARTS AND FINISHES

CONTRACTOR	START	FINISH
Clearcreek Contractors	07:00	16:30

4 CONSTRUCTION ACTIVITY SUMMARY

Continued construction of the drainage ditch along the east side of the LDA.



5 QA ACTIVITY SUMMARY

Golder Construction Services, Inc.

Observed construction activities.

6 HEALTH AND SAFETY

Clearcreek held a tailgate safety meeting prior to starting work activities.

7 MEETINGS AND DISCUSSIONS SUMMARY

No meetings or discussions were held this shift.

8 ISSUES AND RESOLUTIONS

No issues were encountered this shift

Allan G. MacLeod
Construction Manager

November 14, 2007

AGM/agm
cc: File - Project
File - Field

**DAILY CONSTRUCTION REPORT
RESERVE SILICA SITE
LOWER DISPOSAL AREA COVER UPGRADE
RAVENSDALE, WASHINGTON**

REPORT NUMBER 55

Thursday, November 15, 2007

TO: Frank Shuri/Project File

1 WEATHER

Overcast- AM, Overcast - PM, 31° F (AM), 53° F (PM)

2 PRESENT AT SITE:

CONTRACTOR/ORGANIZATION	RESPONSIBILITY	CONTRACTOR PERSONNEL
Clearcreek Contractors	Excavation Contractor	3
Golder Construction Services	Construction Management- CQA Monitoring	1

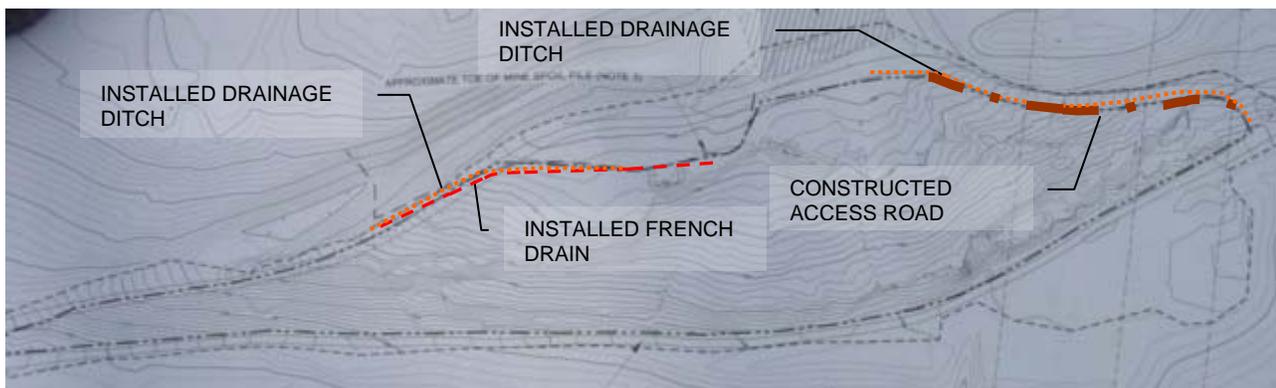
EQUIPMENT	CONTRACTOR	NUMBER
Hitachi 200 Excavator	Clearcreek	1
Hitachi 135 Excavator	Clearcreek	1
Komatsu 37PX Dozer	Clearcreek	1
Volvo A25C Articulating End Dump	Clearcreek	1
IR SD-70D Compactor	Clearcreek	1
Crew Truck	Clearcreek	1

3 SHIFT STARTS AND FINISHES

CONTRACTOR	START	FINISH
Clearcreek Contractors	07:00	16:00

4 CONSTRUCTION ACTIVITY SUMMARY

Continued construction of the drainage ditch along the east side of the LDA. Continued construction of the access road along the east side of the LDA.



5 QA ACTIVITY SUMMARY

Observed construction activities.

6 HEALTH AND SAFETY

Clearcreek held a tailgate safety meeting prior to starting work activities.

7 MEETINGS AND DISCUSSIONS SUMMARY

No meetings or discussions were held this shift.

8 ISSUES AND RESOLUTIONS

No issues were encountered this shift

Allan G. MacLeod
Construction Manager

November 15, 2007

AGM/agm

cc: File - Project
File - Field

**DAILY CONSTRUCTION REPORT
RESERVE SILICA SITE
LOWER DISPOSAL AREA COVER UPGRADE
RAVENSDALE, WASHINGTON**

REPORT NUMBER 56

Friday, November 16, 2007

TO: Frank Shuri/Project File

1 WEATHER

Overcast, Rain - AM, Overcast, Showers - PM, 48° F (AM), 53° F (PM)

2 PRESENT AT SITE:

CONTRACTOR/ORGANIZATION	RESPONSIBILITY	CONTRACTOR PERSONNEL
Clearcreek Contractors	Excavation Contractor	3
Golder Construction Services	Construction Management-CQA Monitoring	1

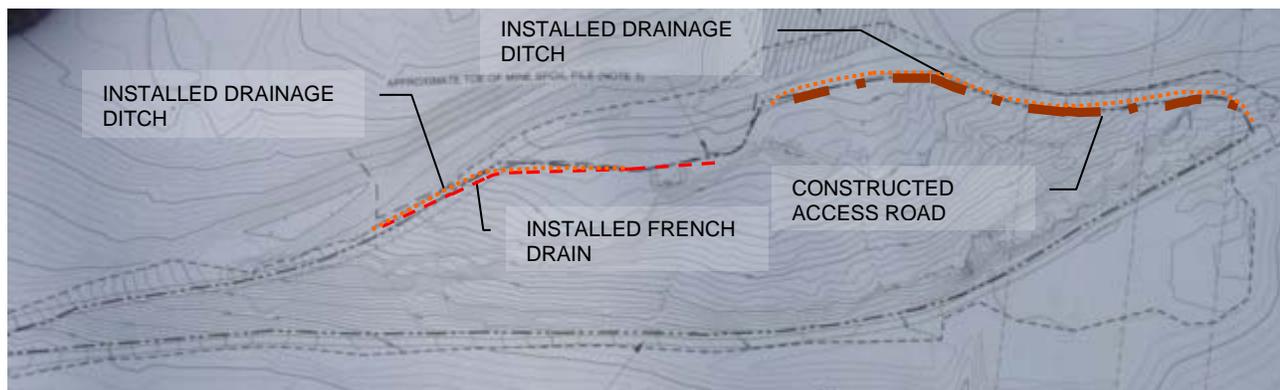
EQUIPMENT	CONTRACTOR	NUMBER
Hitachi 200 Excavator	Clearcreek	1
Hitachi 135 Excavator	Clearcreek	1
Komatsu 37PX Dozer	Clearcreek	1
Volvo A25C Articulating End Dump	Clearcreek	1
IR SD-70D Compactor	Clearcreek	1
Crew Truck	Clearcreek	1

3 SHIFT STARTS AND FINISHES

CONTRACTOR	START	FINISH
Clearcreek Contractors	07:00	16:00

4 CONSTRUCTION ACTIVITY SUMMARY

Continued construction of the drainage ditch along the east side of the LDA. Continued construction of the access road along the east side of the LDA.



5 QA ACTIVITY SUMMARY

Observed construction activities.

6 HEALTH AND SAFETY

Clearcreek held a tailgate safety meeting prior to starting work activities.

7 MEETINGS AND DISCUSSIONS SUMMARY

No meetings or discussions were held this shift.

8 ISSUES AND RESOLUTIONS

No issues were encountered this shift

Allan G. MacLeod
Construction Manager

November 16, 2007

AGM/agm

cc: File - Project
File - Field

**DAILY CONSTRUCTION REPORT
RESERVE SILICA SITE
LOWER DISPOSAL AREA COVER UPGRADE
RAVENSDALE, WASHINGTON**

REPORT NUMBER 57

Monday, November 19, 2007

TO: Frank Shuri/Project File

1 WEATHER

Overcast, Rain - AM, Overcast, Showers - PM, 41° F (AM), 46° F (PM)

2 PRESENT AT SITE:

CONTRACTOR/ORGANIZATION	RESPONSIBILITY	CONTRACTOR PERSONNEL
Clearcreek Contractors	Excavation Contractor	3
Golder Construction Services	Construction Management-CQA Monitoring	1

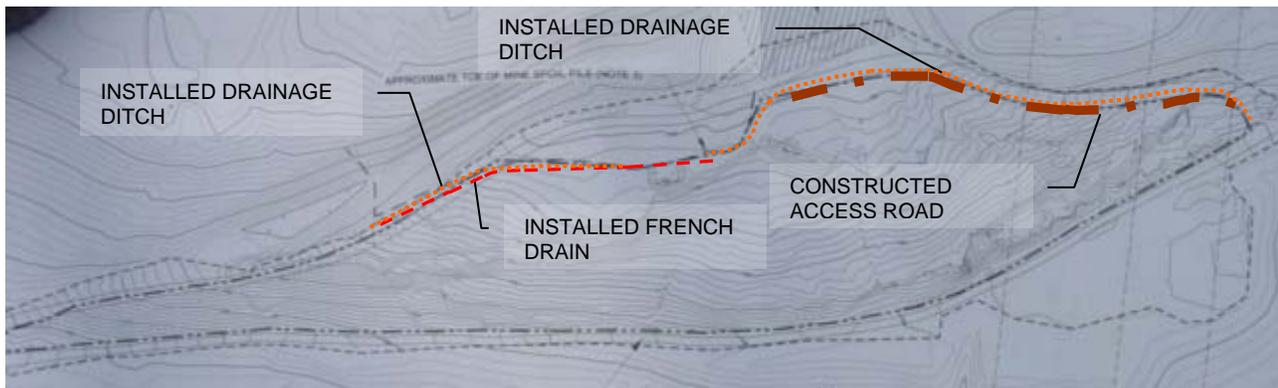
EQUIPMENT	CONTRACTOR	NUMBER
Hitachi 200 Excavator	Clearcreek	1
Hitachi 135 Excavator	Clearcreek	1
Komatsu 37PX Dozer	Clearcreek	1
Volvo A25C Articulating End Dump	Clearcreek	1
IR SD-70D Compactor	Clearcreek	1
Crew Truck	Clearcreek	1

3 SHIFT STARTS AND FINISHES

CONTRACTOR	START	FINISH
Clearcreek Contractors	07:00	16:00

4 CONSTRUCTION ACTIVITY SUMMARY

Continued construction of the drainage ditch along the east side of the LDA. Continued construction of the access road along the east side of the LDA.



5 QA ACTIVITY SUMMARY

Observed construction activities.

6 HEALTH AND SAFETY

Clearcreek held a tailgate safety meeting prior to starting work activities.

7 MEETINGS AND DISCUSSIONS SUMMARY

No meetings or discussions were held this shift.

8 ISSUES AND RESOLUTIONS

No issues were encountered this shift

Allan G. MacLeod
Construction Manager

November 19, 2007

AGM/agm

cc: File - Project
File - Field

**DAILY CONSTRUCTION REPORT
RESERVE SILICA SITE
LOWER DISPOSAL AREA COVER UPGRADE
RAVENSDALE, WASHINGTON**

REPORT NUMBER 58

Tuesday, November 20, 2007

TO: Frank Shuri/Project File

1 WEATHER

Partly Cloudy - AM, Mostly Clear - PM, 30° F (AM), 46° F (PM)

2 PRESENT AT SITE:

CONTRACTOR/ORGANIZATION	RESPONSIBILITY	CONTRACTOR PERSONNEL
Clearcreek Contractors	Excavation Contractor	2
Golder Construction Services	Construction Management-CQA Monitoring	1

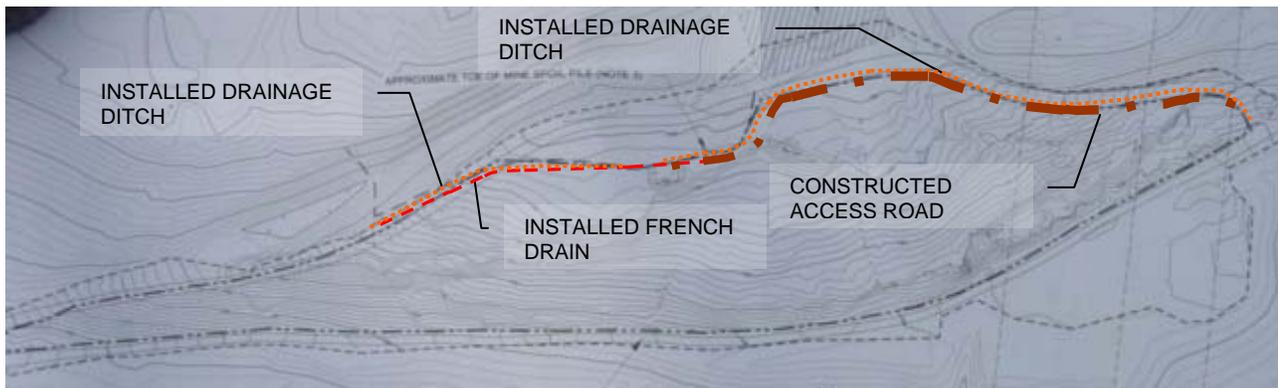
EQUIPMENT	CONTRACTOR	NUMBER
Hitachi 200 Excavator	Clearcreek	1
Hitachi 135 Excavator	Clearcreek	1
Komatsu 37PX Dozer	Clearcreek	1
Volvo A25C Articulating End Dump	Clearcreek	1
IR SD-70D Compactor	Clearcreek	1
Crew Truck	Clearcreek	1

3 SHIFT STARTS AND FINISHES

CONTRACTOR	START	FINISH
Clearcreek Contractors	07:00	16:00

4 CONSTRUCTION ACTIVITY SUMMARY

Continued construction of the drainage ditch along the east side of the LDA. Continued construction of the access road along the east side of the LDA.



5 QA ACTIVITY SUMMARY

Observed construction activities.

6 HEALTH AND SAFETY

Clearcreek held a tailgate safety meeting prior to starting work activities.

7 MEETINGS AND DISCUSSIONS SUMMARY

No meetings or discussions were held this shift.

8 ISSUES AND RESOLUTIONS

No issues were encountered this shift

Allan G. MacLeod
Construction Manager

November 20, 2007

AGM/agm

cc: File - Project
File - Field

**DAILY CONSTRUCTION REPORT
RESERVE SILICA SITE
LOWER DISPOSAL AREA COVER UPGRADE
RAVENSDALE, WASHINGTON**

REPORT NUMBER 59

Wednesday, November 21, 2007

TO: Frank Shuri/Project File

1 WEATHER

Partly Cloudy - AM, Mostly Clear - PM, 28° F (AM), 46° F (PM)

2 PRESENT AT SITE:

CONTRACTOR/ORGANIZATION	RESPONSIBILITY	CONTRACTOR PERSONNEL
Clearcreek Contractors	Excavation Contractor	3
Golder Construction Services	Construction Management-CQA Monitoring	1

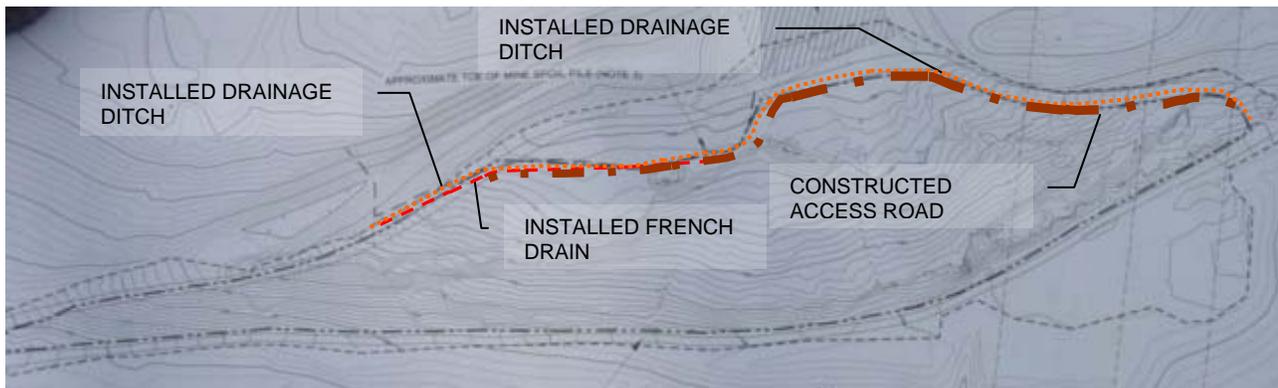
EQUIPMENT	CONTRACTOR	NUMBER
Hitachi 200 Excavator	Clearcreek	1
Hitachi 135 Excavator	Clearcreek	1
Komatsu 37PX Dozer	Clearcreek	1
Volvo A25C Articulating End Dump	Clearcreek	1
IR SD-70D Compactor	Clearcreek	1
Crew Truck	Clearcreek	1

3 SHIFT STARTS AND FINISHES

CONTRACTOR	START	FINISH
Clearcreek Contractors	07:00	16:00

4 CONSTRUCTION ACTIVITY SUMMARY

Continued construction of the drainage ditch along the east side of the LDA. Continued construction of the access road along the east side of the LDA.



5 QA ACTIVITY SUMMARY

Observed construction activities.

6 HEALTH AND SAFETY

Clearcreek held a tailgate safety meeting prior to starting work activities.

7 MEETINGS AND DISCUSSIONS SUMMARY

No meetings or discussions were held this shift.

8 ISSUES AND RESOLUTIONS

No issues were encountered this shift

Allan G. MacLeod
Construction Manager

November 21, 2007

AGM/agm

cc: File - Project
File - Field

**DAILY CONSTRUCTION REPORT
RESERVE SILICA SITE
LOWER DISPOSAL AREA COVER UPGRADE
RAVENSDALE, WASHINGTON**

REPORT NUMBER 60

Monday, November 26, 2007

TO: Frank Shuri/Project File

1 WEATHER

Partly Cloudy - AM, Mostly Clear - PM, 28° F (AM), 46° F (PM)

2 PRESENT AT SITE:

CONTRACTOR/ORGANIZATION	RESPONSIBILITY	CONTRACTOR PERSONNEL
Clearcreek Contractors	Excavation Contractor	1
Golder Construction Services	Construction Management-CQA Monitoring	1

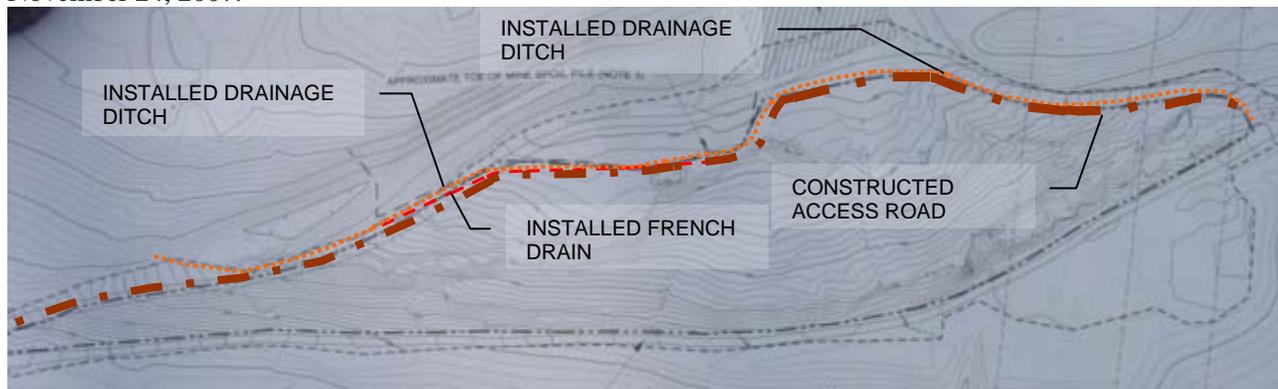
EQUIPMENT	CONTRACTOR	NUMBER
Komatsu 37PX Dozer	Clearcreek	1
IR SD-70D Compactor	Clearcreek	1
Crew Truck	Clearcreek	1

3 SHIFT STARTS AND FINISHES

CONTRACTOR	START	FINISH
Clearcreek Contractors	07:00	10:00

4 CONSTRUCTION ACTIVITY SUMMARY

Clearcreek had completed the eastern LDA drainage ditch and access road on Friday, November 23, 2007. Clearcreek also completed drainage ditch cleaning along the west side of the LDA and had placed quarry spalls on some erosion features on the southwest side of the LDA. Demobilized most equipment on Saturday, November 24, 2007.



5 QA ACTIVITY SUMMARY

Golder Construction Services, Inc.

Performed a final walk through with Contractor's representative. LDA Cover is substantially complete.

6 HEALTH AND SAFETY

Clearcreek held a tailgate safety meeting prior to starting work activities.

7 MEETINGS AND DISCUSSIONS SUMMARY

No meetings or discussions were held this shift.

8 ISSUES AND RESOLUTIONS

No issues were encountered this shift

Allan G. MacLeod
Construction Manager

November 26, 2007

AGM/agn

cc: File - Project
File - Field

APPENDIX C

CONSTRUCTION PHOTOS

**RESERVE SILICA SITE
LOWER DISPOSAL AREA COVER UPDATE
PHOTOGRAPH LOG**

PHOTO No.	DATE	DESCRIPTION
1	September 11, 2007	Mobilizing Equipment to the Site
2	September 12, 2007	Start of Clearing and Grubbing
3	September 12, 2007	Start of Clearing and Grubbing
4	September 12, 2007	Clearing and Grubbing
5	September 12, 2007	Clearing and Grubbing
6	September 14, 2007	Removing Vegetation from LDA
7	September 14, 2007	Removed Vegetation Stockpile
8	September 17, 2007	Center East Side of LDA During Clearing and Grubbing
9	September 17, 2007	Existing Topography of Northern Portion of the LDA
10	September 17, 2007	Existing Topography of Northern Portion of the LDA
11	September 17, 2007	Existing Topography of Northern Portion of the LDA
12	September 17, 2007	Existing Topography of Northern Portion of the LDA
13	September 17, 2007	Existing Topography of Northern Portion of the LDA
14	September 17, 2007	Existing Topography of Northern Portion of the LDA
15	September 17, 2007	Northern End of North Pit
16	September 17, 2007	North End of LDA
17	September 17, 2007	North Central Portion of the LDA Cleared of Vegetation
18	September 17, 2007	North Central Portion of the LDA Cleared of Vegetation
19	September 17, 2007	Northern Two-thirds Cleared of Vegetation
20	September 17, 2007	Northern Two-thirds Cleared of Vegetation/Southern Third Uncleared
21	September 17, 2007	Existing Conditions of South End of LDA
22	September 17, 2007	Existing Conditions of South End of LDA
23	September 17, 2007	Existing Conditions of South End of LDA
24	September 17, 2007	Existing Conditions of South End of LDA
25	September 18, 2007	Cement Kiln dust Exposed During Topsoil Stripping Operations
26	September 19, 2007	Topsoil Stripping Operations - Southern Half of LDA
27	September 19, 2007	Cement Kiln dust Exposed During Topsoil Stripping Operations
28	September 19, 2007	Cement Kiln dust Exposed During Topsoil Stripping Operations
29	September 19, 2007	Cement Kiln dust Exposed During Topsoil Stripping Operations-Center of LDA

PHOTOGRAPH LOG (cont)

PHOTO No.	DATE	DESCRIPTION
30	September 19, 2007	Cement Kiln dust Exposed During Topsoil Stripping Operations-West Center Side of LDA
31	September 19, 2007	Cement Kiln dust Exposed During Topsoil Stripping Operations-West Side of LDA, Under Power Lines
32	September 19, 2007	Cement Kiln dust Exposed During Topsoil Stripping Operations-Southeast Corner of LDA
33	September 20, 2007	Topsoil Stripping Operations - Southern Half of LDA
34	September 20, 2007	Topsoil Stripping Operations - Southern Half of LDA
35	September 21, 2007	Cement Kiln Dust Exposed During Topsoil Stripping Operations-Center of LDA
36	September 21, 2007	Topsoil Stripping Operations - Center of LDA
37	September 21, 2007	Cement Kiln dust Exposed During Topsoil Stripping Operations-Center of LDA
38	September 21, 2007	Cement Kiln dust Exposed During Topsoil Stripping Operations-Center of LDA
39	September 21, 2007	Cement Kiln dust Exposed During Topsoil Stripping Operations-Center of LDA
40	September 21, 2007	Cement Kiln dust Exposed During Topsoil Stripping Operations-Center of LDA
41	September 21, 2007	Cement Kiln dust Exposed During Topsoil Stripping Operations-Center of LDA
42	September 26, 2007	Cement Kiln dust Exposed During Topsoil Stripping Operations-Southeast Corner of LDA
43	September 26, 2007	Topsoil Stripping Operations Along West Side of LDA
44	September 26, 2007	North End of LDA Cleared of Topsoil
45	September 26, 2007	Start of Regrading of Southern Portion of the LDA
46	October 1, 2007	Regrading the Southern Portion of the LDA
47	October 1, 2007	Regrading the Southern Portion of the LDA
48	October 1, 2007	Regrading the Southern Portion of the LDA
49	October 1, 2007	Regrading the Southern Portion of the LDA
50	October 1, 2007	Chipping Removed Vegetation with Tub Grinder
51	October 1, 2007	Chipping Removed Vegetation with Tub Grinder
52	October 1, 2007	Chipping Removed Vegetation with Tub Grinder
53	October 1, 2007	Regrading the Southern Portion of the LDA
54	October 8, 2007	Center East Portion of LDA Ready for Cover Soil
55	October 8, 2007	Temporary Drainage Along Center East Side of LDA
56	October 8, 2007	Cover Soil Borrow Area at North End of LDA
57	October 8, 2007	Center North Portion of LDA after Topsoil Removal
58	October 13, 2007	Cover Soil Borrow Area at North End of LDA
59	October 13, 2007	Placing Cover Soil on Southern Third of LDA
60	October 13, 2007	Placing Cover Soil on Southern Third of LDA
61	October 13, 2007	Placing Cover Soil on Southern Third of LDA

PHOTOGRAPH LOG (cont)

PHOTO No.	DATE	DESCRIPTION
62	October 13, 2007	Cover Soil Borrow Operations Along West Center Side of LDA
63	October 13, 2007	Final Grading of North End of LDA
64	October 13, 2007	Cover Soil Borrow Area at North Central Portion of LDA
65	October 21, 2007	Topsoil Placement Operations-North End of LDA
66	October 21, 2007	Topsoil Placement Operations-North End of LDA
67	October 21, 2007	Topsoil Placement Operations-North End of LDA
68	October 21, 2007	Topsoil Placement Operations
69	October 21, 2007	Completed Cover Soil on South End of LDA
70	October 21, 2007	Completed Cover Soil on East Center of LDA
71	October 25, 2007	Completed Cover Soil on East Center of LDA
72	October 25, 2007	Completed Cover Soil on Center of LDA
73	October 25, 2007	Final Grading of Central Portion of LDA
74	October 25, 2007	Final Grading of Central Portion of LDA
75	October 25, 2007	Water Seeps Central East Side of LDA
76	October 25, 2007	Water Seeps Central East Side of LDA
77	October 26, 2007	Loading Topsoil
78	October 27, 2007	Moving Topsoil Stockpile
79	October 30, 2007	Moving Topsoil Stockpile
80	October 30, 2007	Topsoil Placement on Southern Portion of the LDA
81	October 30, 2007	Spreading Topsoil
82	October 30, 2007	West Center Side of LDA Ready for Cover Soil
83	October 31, 2007	Topsoil Spread over the Northern Third of the LDA
84	October 31, 2007	Topsoil Spread over the Northern Third of the LDA
85	October 31, 2007	Topsoil Spread over the Northern Third of the LDA
86	October 31, 2007	Start of Construction of Interceptor Ditch along East Side of the LDA
87	October 31, 2007	Hydroseed/Flexterra Placement
88	October 31, 2007	Hydroseed/Flexterra Placement
89	November 1, 2007	Exposed Drain Pipes from Low Area to the East of the LDA
90	November 1, 2007	Hydroseed/Flexterra Placement
91	November 1, 2007	Hydroseed/Flexterra Placement
92	November 1, 2007	Exposed Drain Pipes from Low Area to the East of the LDA
93	November 1, 2007	Exposed Drain Pipes from Low Area to the East of the LDA
94	November 3, 2007	Hydroseed/Flexterra Placement
95	November 3, 2007	Installation of Culvert Across Main Haul Road at South End of the LDA
96	November 3, 2007	Installation of Culvert Across Main Haul Road at South End of the LDA

PHOTOGRAPH LOG (cont)

PHOTO No.	DATE	DESCRIPTION
97	November 5, 2007	Installation of Culvert Across Main Haul Road at South End of the LDA
98	November 5, 2007	Installation of Culvert Across Main Haul Road at South End of the LDA
99	November 5, 2007	Under Drain System Exposed During Catch Basin Installation
100	November 5, 2007	Catch Basin Installed at South End of LDA
101	November 5, 2007	Catch Basin Installed at South End of LDA
102	November 5, 2007	Under Drain System Exposed During Catch Basin Installation
103	November 5, 2007	Culvert Installation from Catch Basin to East Interceptor Ditch
104	November 5, 2007	Backfilling Around Catch Basin At Southern End of LDA
105	November 6, 2007	Culver Inlet at East Interceptor Ditch
106	November 6, 2007	Southern End of LDA Nearing Completion
107	November 8, 2007	East Interceptor Ditch and Access Road
108	November 12, 2007	South End of French Drain - Center East Side of LDA
109	November 12, 2007	South End of French Drain - Center East Side of LDA
110	November 13, 2007	Interceptor Ditch Construction
111	November 13, 2007	Interceptor Ditch Construction
112	November 13, 2007	Interceptor Ditch Construction
113	November 14, 2007	Interceptor Ditch Construction
114	November 15, 2007	South End of LDA Nearing Completed
115	November 15, 2007	Culvert Trash Rack Installed at Northwest Corner of the LDA
116	November 15, 2007	Culvert Trash Rack Installed in East Interceptor Ditch
117	November 15, 2007	Interceptor Ditch Construction-Outlet of Drain Pipes from Low Area to the East of the LDA
118	November 16, 2007	Water in Ditch along West Side of LDA
119	November 16, 2007	Wet Area to the West of the LDA
120	November 19, 2007	Minor Erosion in Center of LDA
121	November 19, 2007	"Blow Outs" along West Side of the LDA
122	November 19, 2007	"Blow Outs" along West Side of the LDA
123	November 19, 2007	"Blow Outs" along West Side of the LDA
124	November 20, 2007	Outlet of Drain Pipes from Low Area to the East of the LDA
125	November 20, 2007	North End of LDA
126	November 20, 2007	North Central Portion of the LDA
127	November 20, 2007	Interceptor Ditch
128	November 20, 2007	Completed Access Road and Interceptor Ditch-East Center of LDA
129	November 20, 2007	Sprouted Grass Seed
130	November 21, 2007	Mount Rainer

PHOTOGRAPH LOG (cont)

PHOTO No.	DATE	DESCRIPTION
131	November 21, 2007	Completed LDA Cover-Center East, Looking South
132	November 21, 2007	Construction of Access Road
133	November 21, 2007	Completed LDA Cover-Center East, Looking South
134	November 26, 2007	Completed LDA Cover-Center West, Looking South
135	November 26, 2007	Repaired "Blow Out"
136	November 26, 2007	Wet Area to the West of the LDA
137	November 26, 2007	Repaired "Blow Outs"
138	November 26, 2007	Completed LDA Cover-South End, Looking North
139	November 26, 2007	Access Road to Laydown Areas
140	November 26, 2007	Stockpiled Chipped Vegetation
141	November 26, 2007	Completed LDA Cover
142	November 26, 2007	Completed LDA Cover
143	November 26, 2007	Completed LDA Cover
144	November 26, 2007	Completed LDA Cover
145	November 26, 2007	Completed LDA Cover
146	November 26, 2007	Completed LDA Cover
147	December 3, 2007	Minor Slump
148	December 3, 2007	Minor Erosion in Center of LDA
149	December 3, 2007	Completed LDA Cover-South End
150	December 3, 2007	Interceptor Ditch
151	December 3, 2007	Interceptor Ditch
152	December 3, 2007	French Drain Outlet
153	December 3, 2007	Interceptor Ditch
154	December 3, 2007	Completed LDA Cover-North End Looking South
155	December 3, 2007	Completed LDA Cover-North End Looking South
156	December 3, 2007	Wet Area on the West Side of the LDA
157	December 3, 2007	Ditch Along West Side of LDA
158	December 3, 2007	Ditch Along West Side of LDA
159	December 3, 2007	New Culvert Outlet
160	December 3, 2007	Culvert Inlet at East Interceptor Ditch
161	December 3, 2007	Outlet of Drain Pipes from Low Area to the East of the LDA
162	January 3, 2008	General Site Conditions after Several Winter Storms
163	January 3, 2008	General Site Conditions after Several Winter Storms
164	January 3, 2008	General Site Conditions after Several Winter Storms

APPENDIX D

LABORATORY TESTING DATA

WATER CONTENT DETERMINATION

PROJECT NO: 073-93074.005 PROJECT TITLE: Reserve Silica / LDA Cover Upgrade
 OWNER: Holcim (US)
 LOCATION: Ravensdale, Washington
 CONTRACTOR: Clearcreek Contractors

Sample No.	Sand	CS-01	CS-02	CS-03	CS-04	CS-05	CS-06	CS-07	CS-08
Moisture Tin		D-100	D-20	D-20	D-100	D-20	D-17	D-18	D-20
Wet Weight Soil + Tare	1418.3	1221.4	1020.0	1160.0	1174.6	1460.4	897.2	1073.9	1096.1
Dry Weight Soil + Tare	1306.4	1097.8	911.8	1019.2	1030.3	1260.6	774.4	954.6	920.3
Weight Water	111.9	123.6	108.2	140.8	144.3	199.8	122.8	119.3	175.8
Tare	241.2	90.4	73.1	73.1	90.4	73.1	69.5	77.9	73.1
Weight Dry Soil	1065.2	1007.4	838.7	946.1	939.9	1187.5	704.9	876.7	847.2
Percent Moisture	10.5%	12.3%	12.9%	14.9%	15.4%	16.8%	17.4%	13.6%	20.8%
Sample No.	Sand	CS-01	CS-02	CS-03	CS-04	CS-05	CS-06	CS-07	CS-08
Moisture Tin		D-100	D-20	D-20	D-100	D-20	D-17	D-18	D-20
Pre-Wash Soil + Tare	1306.4	1097.8	911.8	1019.2	1030.3	1260.6	774.4	954.6	920.3
Post-Wash Soil + Tare	1000.8	831.7	684.6	734.7	748.1	894.0	544.2	618.0	600.5
Weight Fines	305.6	266.1	227.2	284.5	282.2	366.6	230.2	336.6	319.8
Tare	241.4	90.4	73.1	73.1	90.4	73.1	69.5	77.9	73.1
Weight Dry Soil	1065.0	741.3	611.5	661.6	657.7	820.9	474.7	540.1	527.4
Percent Passing # 200	28.7%	26.4%	27.1%	30.1%	30.0%	30.9%	32.7%	38.4%	37.7%
Sample No.	CS-09	CS-10	CS-11	CS-12	CS-13	CS-14	CS-15	CS-16	CS-17
Moisture Tin	D-100	D-17	D-18	D-20	D-1	D-2	D-3	D-4	D-1
Wet Weight Soil + Tare	1021.8	920.9	1002.6	975.7	762.4	795.0	996.7	1021.6	941.0
Dry Weight Soil + Tare	891.6	806.1	877.7	860.4	676.6	682.4	886.9	861.8	813.0
Weight Water	130.2	114.8	124.9	115.3	85.8	112.6	109.8	159.8	128.0
Tare	90.4	69.5	77.9	73.1	90.6	73.6	91.3	91.7	90.8
Weight Dry Soil	801.2	736.6	799.8	787.3	586.0	608.8	795.6	770.1	722.2
Percent Moisture	16.3%	15.6%	15.6%	14.6%	14.6%	18.5%	13.8%	20.8%	17.7%
Sample No.	CS-09	CS-10	CS-11	CS-12	CW-13	CS-14	CS-15	CS-16	CS-17
Moisture Tin	D-100	D-17	D-18	D-20	D-1	D-2	D-3	D-4	D-1
Pre-Wash Soil + Tare	891.6	806.1	877.7	860.4	676.6	682.4	886.9	861.8	813.0
Post-Wash Soil + Tare	607.1	580.2	561.7	626.2	506.4	425.1	561.3	573.5	541.0
Weight Fines	284.5	225.9	316.0	234.2	170.2	257.3	325.6	288.3	272.0
Tare	90.4	69.5	77.9	73.1	90.6	73.6	91.3	91.7	90.8
Weight Dry Soil	801.2	736.6	799.8	787.3	586.0	608.8	795.6	770.1	722.2
Percent Passing # 200	35.5%	30.7%	39.5%	29.7%	29.0%	42.3%	40.9%	37.4%	37.7%