

**HDP-PR-FSS-701, Final Status Survey Plan Development**  
**APPENDIX P-6**  
**FSS FIELD LOG**

<b>Survey Area:</b> <u>LSA-05</u>	<b>Description:</b> <u>Barn and Cistern Open Land Area</u>
<b>Survey Unit:</b> <u>02</u>	<b>Description:</b> <u>Tile Barn Area</u>

**FSS Field Log:**

<b><u>Date/Time:</u></b>	<b><u>Observation or Comment:</u></b>	<b><u>Technician</u></b>
08/13/13 0630	Received our daily FSS briefing and safety briefing. M. Bresnahan Covered the instructions for FSS in LSA 05-02, including GWS, Survey And soil sampling instruction.	SDJ / NJJ
08/13/13 0740	Performed daily instrument source check for the 2221 BB and 2221 DD and 2360 I. All meters successfully passed the source check. Assembled GWS packs and proceeded to LSA 05-02 area to prepare our daily work assignments.	
08/13/13 0830	Conducted Non-soil survey of Curb, Storm Drain and Drain Pipe using Using 2360 I and smears. All readings documented on survey map. No Elevated areas were noted on the surfaces of the items surveyed. All surveys conducted in accordance with FSS Plan and Instructions for Survey area & Unit LSA 05-02. See Surveys 3063 C 130814, 3064 C 130814, 3065 C 130814, 3066 C 130814 for further information. N. Jordan performed GWS on area in 05-03 that was previously used as a load out area during excavation. One elevated area noted during walkover. Location was flagged and location stored in GPS for further investigation. Data was downloaded and sent to GIS for map processing and S. Price for data analysis. See survey 3051 C 130813 for further information.	
08/13/13 1300	Scraped and swept footer in LSA 05-02 in preparations for survey. Painted One meter grids on footer in accordance with survey instructions.	
08/13/13 1500	Preparations made for isolation & control of LSA 05-03, including installing T-Posts and safety caps, repairs of construction fence and general housekeeping of the area.	
08/13/13 1745	Performed post source check of all FSS meters. 2221 meters passed successfully. 2360 "I" failed Beta three consecutive times. All Survey data from the non-soil Survey is null and void. Will have to repeat the survey process another day.	

END SDJ / NJJ

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<b>Survey Area:</b>	<u>LSA-05</u>	<b>Description:</b>	<u>Barns and Cistern Open Land Area</u>
<b>Survey Unit:</b>	<u>02</u>	<b>Description:</b>	<u>Tile Barn Area</u>

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Rad. Eng.  
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<b>Survey Unit:</b> <u>02</u>	<b>Description:</b> <u>Tile Barn Area</u>

**FSS Field Log:**

<b><u>Date/Time:</u></b>	<b><u>Observation or Comment:</u></b>	<b><u>Technician</u></b>
08/14/13 0630	Received our daily safety briefing covering hazards associated with GWS, surveying and soil sampling.	SDJ / NJJ
08/14/13 0740	Performed daily instrument source check for the 2221 BB and 2221 DD and 2360 I. All meters successfully passed the source check and results annotated in daily source check log. Assembled GWS packs and proceeded to barn area access shack near LSA 05-02 area to prepare for our daily work assignments.	
08/14/13 0830	N. Jordan and S. Jenkins performed a repeat non-soil survey of footer area Within LSA 05-02. The survey performed on 8/13 was deemed void because the 2360 used failed post use source check. The non-soil of Curb, Storm Drain and Drain Pipe using using 2360 B and D and smears. All readings documented on survey map. No elevated areas were noted on the surfaces of the items surveyed. All surveys conducted in accordance with FSS Plan and Instructions for survey area & Unit LSA 05-02. See Surveys 3063 C 130814, 3064 C 130814, 3065 C 130814, 3066 C 130814 for further information.	
08/14/13 1300	Started GWS of LSA 05-02 using 2221 meters BB and DD.	
08/14/13 1630	GWS data was downloaded and sent to GIS for map processing and S. Price For data analysis. All GWS conducted in accordance with FSS Plan and Instructions for Survey area & Unit LSA 05-02. See survey 3060 C 130814, 3062 C 130814 for further information.	
08/14/13 1730	Performed post source check of all FSS meters. All meters passed post source check successfully.	
	END SDJ / NJJ	

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<b>Survey Unit:</b> <u>02</u>	<b>Description:</b> <u>Tile Barn Area</u>

**FSS Field Log:**

<b><u>Date/Time:</u></b>	<b><u>Observation or Comment:</u></b>	<b><u>Technician</u></b>
08/15/13 0630	Received our daily FSS briefing and safety briefing.	SDJ / NJJ
08/15/13 0645	Performed daily instrument source check for the 2221 BB and 2221 DD and 2360 I. All meters successfully passed the source check. Proceeded to LSA 05-02 area to continue GWS and start systematic soil sampling efforts.	
08/15/13 0715	Proceeded to barn area and continued GWS of LSA 05-02.	
08/15/13 0720	Dump trucks arrived at barn area to deliver clean backfill soil for LSA 05-01 FSS operations. Work in LSA 05-02 was halted to provide job coverage for dump truck delivery in 05-01. N. Jordan assigned to cover dump truck operations.	
08/15/13 0830	S. Jenkins and S. Price began investigation at localized elevated area that was found during walkover of 05-03 former soil load out area. Bounding investigation samples were taken. See survey 3081 C 130815 for sample information. Soil was hand excavated at highest reading locations and spoils were moved to 05-01 using a wheelbarrow.	
08/15/13 0845	N. Jordan began GWS of area parallel with State Highway P across the northern section of LSA 05-02. Created GPS file LSA_0502_BB_081513. See survey 3165 C 130815 for more information.	
08/15/13 1030	N. Jordan finished a portion of the GWS and began painting other portions of LSA 05-02 in preparation for further GWS.	

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<u><b>Date/Time:</b></u>	<u><b>Observation or Comment:</b></u>	<u><b>Technician</b></u>
08/15/13 1300	N. Jordan continued with GWS in LSA 05-02. S. Jenkins & S. Price began Flagging systematic soil sample locations within LSA 05-02 using GPS. The following sample locations were flagged for systematic sampling.	SDJ / NJJ

Sample ID	Easting	Northing
L050247PRS00	826664.3	8547 84.4
L050248PES00	826664.3	864784.4
L050249PRS00	826637.4	864757.5
L050250PES00	826637.4	864757.5
L050251PRS00	826674.1	864747.7
L050252PES00	826674.1	864747.7
L050253PES00	826710.8	864737.8
L050254PES00	826647.2	864720.8
L050255PES00	826683.9	864711.0
L050256PRS00	826620.4	864693.9
L050257PES00	826620.4	864693.9
L050258PES00	826657.1	864684.1
L050259PRQ00	826693.8	864674.2
L050259PRS00	826693.8	864674.2
L050260PES00	826693.8	864674.2
L050261PRS00	826593.5	864667.0
L050262PES00	826593.5	864667.0
L050263PES00	826630.2	864657.2
L050264PRS00	826666.9	864647.4
L050265PES00	826666.9	864647.4

Sample L050258PES00 had to be offset one foot south to avoid the concrete footer located in the center of LSA 05-02. The new coordinates are N- 864683.14, E-826658.29.

08/15/13 1730	N. Jordan finished portions of the GWS of LSA 05-02 and created GPS File LSA_0502_BB_081513_02. See survey 3132 C 130815 for more information.
08/15/13 1800	Performed post source check of all FSS meters. All meters passed post source check successfully.
END SDJ / NJJ	

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**Survey Area:** LSA-05      **Description:** Barn and Cistern Open Land Area  
**Survey Unit:** 02      **Description:** Tile Barn Area

**FSS Field Log:**

<b><u>Date/Time:</u></b>	<b><u>Observation or Comment:</u></b>	<b><u>Technician</u></b>
08/16/13 0630	Received our daily FSS briefing and safety briefing.	SDJ / NJJ
08/16/13 0700	Performed daily instrument source check for the 2221 BB and 2221 DD and 2360 I. All meters successfully passed the source check. Proceeded to LSA 05-02 area to continue GWS and systematic soil sampling efforts.	
08/16/13 0800	Arrived at barns area and began GWS in remaining area of LSA 05-02. Created the following GPS files: LSA_0502_081613_BB and LSA_0502_081613_DD. See surveys 3133 C 130816 and 3146 C 130816 for more information.	
08/16/13 1130	Performed biased soil sampling from 0 - 0.5' at the following locations in LSA 05-02.  L050266PUB00 N- 864671.6 E- 826587.6 L050267PUB00 N- 864678.0 E- 826591.5 L050268PUB00 N- 864686.1 E- 826593.9 See survey 3382 C 130816	
08/16/13 1230	Established soil sample processing area within exclusion zone and began Systematic soil sampling efforts within LSA 05-02 with the support of Tim Deichman and Dennis Young from the Operations department.	

The following locations were sampled to the specified depths:

Sample ID	Start	Depth	Easting	Northing	
1050247PRS00	0	4	826664.3	8547 84.4	8/16/2013
1050248PES00	4	4.5	826664.3	854784.4	8/16/2013
1050249PRS00	0	4	826637.4	864757.5	8/16/2013
1050250PES00	4	4.5	826637.4	864757.5	8/16/2013
1050255PES00	0	0.5	826683.9	864711.0	8/16/2013
1050258PES00	0	0.5	826657.1	864684.1	8/16/2013
1050259PRQ00	0	3.5	826693.8	864674.3	8/16/2013
1050259PRS00	0	3.5	826693.8	864674.3	8/16/2013
1050260PES00	3.5	4	826693.8	864674.3	8/16/2013
1050263PES00	0	0.5	826630.2	864657.2	8/16/2013
1050264PRS00	0	1	826666.9	864647.4	8/16/2013
1050265PES00	1	1.5	826666.9	864647.4	8/16/2013

See survey 3306 C 130816 for more information.

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<u><b>Date/Time:</b></u>	<u><b>Observation or Comment:</b></u>	<u><b>Technician</b></u>
08/16/13 1700	Delivered samples to the cage in 230 warehouse to secure over the weekend.	
08/16/13 1740	Performed post FSS instrument source checks. All instruments passed post Check successfully.	SDJ / NJJ
	END SDJ / NJJ	

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<b>Survey Area:</b> <u>LSA-05</u>	<b>Description:</b> <u>Barn and Cistern Open Land Area</u>
<b>Survey Unit:</b> <u>02</u>	<b>Description:</b> <u>Tile Barn Area</u>

**FSS Field Log:**

<b><u>Date/Time:</u></b>	<b><u>Observation or Comment:</u></b>	<b><u>Technician</u></b>																																													
08/19/13 0630	Received our daily FSS briefing and safety briefing.	SDJ / NJJ / JH																																													
08/19/13 0700	Performed daily instrument source check for all FSS instruments. All meters successfully passed the source check. Proceeded to LSA 05-02 area to continue GWS and systematic soil sampling efforts.																																														
08/19/13 0730	N. Jordan performed GWS around sump area of LSA 05-02. See survey 3134 C 130819 for more information. Finished systematic soil sampling in LSA 05-02. Samples taken at the following locations and depths:																																														
	<table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: left;">Sample ID</th> <th style="text-align: left;">Start</th> <th style="text-align: left;">Depth</th> <th style="text-align: left;">Easting</th> <th style="text-align: left;">Northing</th> </tr> </thead> <tbody> <tr> <td>L050251PRS00</td> <td>0.0'</td> <td>1.0'</td> <td>82667 4.1</td> <td>864747.7</td> </tr> <tr> <td>L050252PES00</td> <td>1.0'</td> <td>1.5'</td> <td>826674.1</td> <td>864747.7</td> </tr> <tr> <td>L050253PES00</td> <td>0.0'</td> <td>0.5'</td> <td>826710.8</td> <td>864737 .8</td> </tr> <tr> <td>L050254PES00</td> <td>0.0'</td> <td>0.5'</td> <td>826647 .2</td> <td>864720.8</td> </tr> <tr> <td>L050256PRS00</td> <td>0.0'</td> <td>0.5'</td> <td>826620.4</td> <td>864693.9</td> </tr> <tr> <td>L050257PES00</td> <td>0.5'</td> <td>1.0'</td> <td>826620.4</td> <td>804693.9</td> </tr> <tr> <td>L050261PRS00</td> <td>0.0'</td> <td>2.0'</td> <td>826593.5</td> <td>864667.1</td> </tr> <tr> <td>L050262PES00</td> <td>2.0'</td> <td>2.5'</td> <td>826593.5</td> <td>864667.1</td> </tr> </tbody> </table>	Sample ID	Start	Depth	Easting	Northing	L050251PRS00	0.0'	1.0'	82667 4.1	864747.7	L050252PES00	1.0'	1.5'	826674.1	864747.7	L050253PES00	0.0'	0.5'	826710.8	864737 .8	L050254PES00	0.0'	0.5'	826647 .2	864720.8	L050256PRS00	0.0'	0.5'	826620.4	864693.9	L050257PES00	0.5'	1.0'	826620.4	804693.9	L050261PRS00	0.0'	2.0'	826593.5	864667.1	L050262PES00	2.0'	2.5'	826593.5	864667.1	
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L050262PES00	2.0'	2.5'	826593.5	864667.1																																											
	See survey 3307 C 130819 for more information																																														
08/19/13 1300	Began the GWS of LSA 05-03. Installed a snow fence boundary between LSA 05-02 and 05-03.																																														
08/19/13 1600	Performed biased sampling from 0 – 0.5' at the following locations in In LSA 05-03 based on GWS data:																																														
	L050323PUB00 N-864823.34 E-826718.36																																														
	L050324PUB00 N-864891.74 E-826783.77																																														
	L050325PUB00 N-864907.21 E-826827.64																																														
	See survey 3336 C 130819 for more information.																																														
08/19/13 1800	Performed post source check of all FSS meters. All meters passed post source check successfully.																																														

END SDJ / NJJ / JH

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<b>Survey Area:</b> <u>LSA-05</u>	<b>Description:</b> <u>Barn and Cistern Open Land Area</u>
<b>Survey Unit:</b> <u>02 &amp; 03</u>	<b>Description:</b> <u>Tile Barn Area</u>

**FSS Field Log:**

<b><u>Date/Time:</u></b>	<b><u>Observation or Comment:</u></b>	<b><u>Technician</u></b>
08/20/13 0630	Received our daily FSS briefing and safety briefing.	SDJ/NJJ/JAH
08/20/13 0700	Performed daily instrument source check for all FSS instruments. All meters successfully passed the source check.	
08/20/13 0715	N. Jordan completed documentation of recent surveys. Gathered necessary equipment for field support.	
08/20/13 0730	Began job coverage at the barns area in support of ECC work in LSA 05-01, GWS and sample point flagging within LSA 05-03 and LSA 05-02 sump area GWS.	
08/20/13 1000	N. Jordan completed GWS of Sump Area within LSA 05-02. See survey 3164 C 130820 for more information.	
08/20/13 1100	S. Jenkins and N. Jordan completed survey of interior of the storm water basin located in LSA 05-02. See survey 3162 C 130820 for more information.	
08/20/13 1300	S. Jenkins pulled biased soil sample in the bottom of the Sump Area in LSA 05-02 at the following location:  L050269PUB00 N- 864673.01 E- 826687.53. See survey 3335 C 130820 for more information.	
08/20/13 1455	Performed biased sampling at the following location in LSA 05-03 sidewall:  L050326PUB00 N-864825.94 E-826699.56	

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<u><b>Date/Time:</b></u>	<u><b>Observation or Comment:</b></u>	<u><b>Technician</b></u>
08/20/13 1520	Performed systematic soil sampling of the following locations within LSA 05-03 with support from the Operations department:	SDJ/NJJ/JAH

Sample ID	Start	End	Easting	Northing
L050301PRS00	0.0'	2.0'	826747.6	864773.6
L050302PES00	2.0'	2.5'	826747.6	864773.6
L050303PRS00	0.0'	1.5'	826706.5	864784.6
L050304PEQ00	1.5'	2.0'	826706.5	864784.6
L050304PES00	1.5'	2.0'	826706.5	864784.6
L050305PRS00	0.0'	4.5'	826777.6	864803.6
L050306PES00	4.5'	5.0'	826777.6	864803.6
L050307PRS00	0.0'	3.0'	826736.6	864814.6
L050308PES00	3.0'	3.5'	826736.6	864814.6

08/20/13 1730	Completed equipment decontamination and clean-up of sample processing area.
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08/20/13 1800	Secured all samples within the sample cage. Performed post source check of all FSS meters. All meters passed post source check successfully.
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END SDJ/NJJ/JAH

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