WEEKLY DOCUMENTATION SHEET
BUILDING 2
SYSTEM COMPONENTS

DATE	6-2-14	6-10-14	6-16-14	6-23-14	6/26/14	6-30-14	7-7-14	7-14-14	7-21-14
TIME	1:45Am	10:15 Am	8:00Am	8:40Am	1400	10:29Am	9:22Am	7:49Am	10:05Am
OBSERVER'S INITIALS	KA/DE	RK	RK	RK	NP	RK	RK	RK	RK

SYSTEM LEAKS, EXCESSIVE OR UNFAMILAR NOISE, MOISTURE, ETC.

Comments and Notes	Cloudy 84°F	CLOUDY 74°F	CLEAR 74°F	CLOUDY 76°F	SUNNY 80°	80°F	SUNNY HUMID 84°F	CLOUDY 74°F	CLEAR 82°F

SOIL VAPOR EXTRACTION (SVE) BLOWER B-801

Pre-Filter Vacuum (-wc)	60	62	58	61	60	60	60	61	60
Post-Filter Vacuum (-wc)	50	62	64	66	60	65	65	65	65
Inlet Magnehelic* (in H_2O)	.3	.3	.3	.3	.35	.3	0.3	0.3	0.3
Inlet Vacuum (-wc)	BROKEN	BROKEN →		→	64	84	90	110	110+

SOIL VAPOR EXTRACTION (SVE) HEAT EXCHANGER (H-XCH)

Inlet Pressure (wc)	46	48	46	47	46	46	46	48	47
Inlet Temperature (°F)	130	125	125	125	130	125	126	125	116
Outlet Pressure (wc)	2	2	2	2	2	0	0	0	0
Outlet Temperature (°F)	106	92	94	94	110	100	102	92	101
Water Level Sight Glass (in)	18"	12"	24"	14"	14"	20"	13"	2 FT	6"

AIR SPARGE (SPRG) COMPRESSOR C-2301

Upper Oil Sight Glass (half pt.)	OK	OK	OK	OK	OK	OK	OK	OK	OK
Lower Oil Sight Glass (half pt.)	OK	OK	OK	OK	OK	OK	OK	OK	OK

AIR SPARGE (SPRG) HEAT EXCHANGER (H-XCH)

Inlet Pressure (psi)	16	23	17	17	17	17	18.5	17.5	19
Inlet Temperature (°F)	275	205	210	224	210	210	225	210	214
Outlet Pressure (psi)	15	19	16.5	16.5	16.5	16.5	18.0	16.5	18.5
Outlet Temperature (°F)	124	115	126	119	120	122	122	126	120

* Keep plastic pinch valves on tubing to magnehelic gauge closed except when taking a reading.

WEEKLY DOCUMENTATION SHEET
BUILDING 2
SYSTEM COMPONENTS

DATE	2-3-14	2-11-14	2-17-14	3-3-14	3-10-14	3/14/4	5-15-14	5-19-14	5-27-14
TIME	8:32AM	1:31Am	8:06Am	10:15AM	10:00Am	0850	1115	10:52AM	10:34Am
OBSERVER'S INITIALS	RL	TRL	TRL	TRL	TRL	NHP	A.H.	TRL	TRL
SYSTEM LEAKS, EXCESSIVE OR UNFAMILAR NOISE, MOISTURE, ETC.									
Comments and Notes	CLEAR 70°F	CLEAR 72°F	SNOW 76°F	CLEAR 76°F	CLEAR 79°F	CLEAR 79°	cloudy. 60°	RAIN 66°F	CLEAR 80°F
SOIL VAPOR EXTRACTION (SVE) BLOWER B-801									
Pre-Filter Vacuum (-wc)	60	41	43	42	36	40	58	58	55
Post-Filter Vacuum (-wc)	65	45	46	46	40	40	62	62	60
Inlet Magnehelic* (in H_2O)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3
Inlet Vacuum (-wc)	115	115	115	115	115	115	115	BROKEN	BROKEN
SOIL VAPOR EXTRACTION (SVE) HEAT EXCHANGER (H-XCH)									
Inlet Pressure (wc)	56	60	58	60+	58	57	49	49	47
Inlet Temperature (°F)	75	75	75	75	101	100	110	112	126
Outlet Pressure (wc)	1	1	1	2	2	2	2	2	2
Outlet Temperature (°F)	54	62	64	62	80	84	80	84	100
Water Level Sight Glass (in)	2 FEET	0	Ø	Ø	Ø	Ø	4"	10"	8"
AIR SPARGE (SPRG) COMPRESSOR C-2301									
Upper Oil Sight Glass (half pt.)	OK	OK	OK	OK	OK	OK	OK	OK	OK
Lower Oil Sight Glass (half pt.)	OK	OK	OK	OK	OK	OK	OK	OK	OK
AIR SPARGE (SPRG) HEAT EXCHANGER (H-XCH)									
Inlet Pressure (psi)	18.5	16.5	15.5	18.5	15.5	15.5	18.5	18	17.5
Inlet Temperature (°F)	180	190	190	190	205	200	195	200	224
Outlet Pressure (psi)	17	16.5	15.5	17.5	15.5	14	17	18.5	16.5
Outlet Temperature (°F)	125	109	108	114	118	117	90	104	120

* › plastic pinch valves on tubing to magnehelic gauge closed except v aking a reading.

WEEKLY DOCUMENTATION SHEET
BUILDING 2
SYSTEM COMPONENTS

DATE	10-7-13	10-14-13	10-21-13	10-28-13	11-4-13	11-13-13	11-18-13	1-15-14	1-27-14
TIME	1:39 Pm	10:15 AM	12:40 Pm	10:34 Am	9:57 AM	10:14 Am	8:59 AM	1340	10:28 Am
OBSERVER'S INITIALS	RK	RK	RK	RK	RK	RK	RK	HJP	RK
SYSTEM LEAKS, EXCESSIVE OR UNFAMILAR NOISE, MOISTURE, ETC.									
Comments and Notes	76°F CLEAR	CLEAR 64°F	CLEAR 58°F	CLOUDY 58°F	CLOUDY 60°F	CLEAR 44°F	CLEAR 46°F	CLEAR 20°	CLEAR 71°F
SOIL VAPOR EXTRACTION (SVE) BLOWER B-801									
Pre-Filter Vacuum (-wc)	62	62	60	50	50	50	45	45	85
Post-Filter Vacuum (-wc)	68	68	65	54	55	55	55	50	88
Inlet Magnehelic* (in H_2O)	0.4	0.4	0.4	0.2.5	0.2	0.2	0.2	0.3	0.1
Inlet Vacuum (-wc)	120	120	120	120	120	120	120	120	120
SOIL VAPOR EXTRACTION (SVE) HEAT EXCHANGER (H-XCH)									
Inlet Pressure (wc)	46	47	48	53	52	55	55	56	48
Inlet Temperature (°F)	126	124	120	110	110	98	99	75	80
Outlet Pressure (wc)	1	Ø	Ø	Ø	Ø	1	1	1	82
Outlet Temperature (°F)	98	88	80	78	80	64	63	50	1
Water Level Sight Glass (in)	1½ FT	1½ FT	Ø	6"	2 FT	1½ FT	1 FT	0	1 FT
AIR SPARGE (SPRG) COMPRESSOR C-2301									
Upper Oil Sight Glass (half pt.)	OK	OK	OK	OK	OK	OK	OK	OK	OK
Lower Oil Sight Glass (half pt.)	OK	OK	OK	OK	OK	OK	OK	OK	OK
AIR SPARGE (SPRG) HEAT EXCHANGER (H-XCH)									
Inlet Pressure (psi)	16.5	17	18	18	18	19	20	20	19
Inlet Temperature (°F)	215	202	190	195	200	176	175	160	176
Outlet Pressure (psi)	16	17	17.5	18	17.5	19	19.5	20	19
Outlet Temperature (°F)	116	102	98	98	98	82	88	70	119

* Keep plastic pinch valves on tubing to magnehelic gauge closed except when taking a reading.

Stantec

WEEKLY DOCUMENTATION SHEET
BUILDING 2
SYSTEM COMPONENTS

~~Ph: (630) 792-1680~~
~~Fx: (630) 792-1691~~

DATE	6-10-13	6-24-13	7-1-13	7-8-13	7-15-13	7-9-13	9-16-13	9-23-13	9-30-13
TIME	12:51 Pm	8:22 Am	1035	10:32 Am	7:38 Am	1340	12:52 Pm	10:15 Am	1:17 Pm
OBSERVER'S INITIALS	RK	RK	A.H.	RK	RK	A.H.	RK	RK	RK
SYSTEM LEAKS, EXCESSIVE OR UNFAMILAR NOISE, MOISTURE, ETC.									
Comments and Notes	84°F Rain (clear)	Rain 76°F	Sunny.	Rain 70°F	Clear 82°F	Sunny 80-90°F	Sunny 72°F	Sunny 68°F	Sunny 80°F
SOIL VAPOR EXTRACTION (SVE) BLOWER B-801									
Pre-Filter Vacuum (-wc)	60	65	67	66	66	60	62	62	62
Post-Filter Vacuum (-wc)	66	70	70	71	71	105	66	68	66
Inlet Magnehelic* (in H_2O)	0.3.5	.3.5	0.35	0.35	.4	0.4	0.4	0.4	0.4
Inlet Vacuum (-wc)	120	120	120	110	110	120	120	120	121
SOIL VAPOR EXTRACTION (SVE) HEAT EXCHANGER (H-XCH)									
Inlet Pressure (wc)	45	45	45	45	45	45	47	47	46
Inlet Temperature (°F)	126	125	135	130	130	150	126	125	126
Outlet Pressure (wc)	2	1	1	1	1	1	1	1	1
Outlet Temperature (°F)	102	98	100	100	99	116	98	90	99
Water Level Sight Glass (in)	1FT 6"	1FT	1ft	2FT	2FT	Ø	2FT	8"	1½FT
AIR SPARGE (SPRG) COMPRESSOR C-2301									
Upper Oil Sight Glass (half pt.)	OK	OK	OK	OK	OK	OK	OK	OK	OK
Lower Oil Sight Glass (half pt.)	OK	OK	OK	OK	OK	OK.	OK	OK	OK
AIR SPARGE (SPRG) HEAT EXCHANGER (H-XCH)									
Inlet Pressure (psi)	15.5	19	15.5	15.5	18	17	18	19.5	16.5
Inlet Temperature (°F)	224	226	225	210	220	230	210	205	215
Outlet Pressure (psi)	14.5	18.5	14.0	16	17.5	16	16.5	18.5	16
Outlet Temperature (°F)	120	118	120	118	118	130	110	104	117

* plastic pinch valves on tubing to magnehelic gauge closed except taking a reading.

Stantec

WEEKLY DOCUMENTATION SHEET
BUILDING 2
SYSTEM COMPONENTS

Ph: (630) 792-1680
Fx: (630) 792-1691

DATE	3-11-13	3-18-13	3-25-13	4-2-13	5-10-13	5-13-13	5-20-13	5-29-13	6-3-13
TIME	1:16 Pm	11:09 Am	1:11 Pm	12:45 Pm	1245	12:40 Pm	10:27 Am	12:39 Pm	2:40 PM
OBSERVER'S INITIALS	RK	RK	RK	RK	PH	RK	RK	RK	KK

SYSTEM LEAKS, EXCESSIVE OR UNFAMILAR NOISE, MOISTURE, ETC.

Comments and Notes	+38°F	LEAKING WATER OUT OF KNOCK OUT PLUG	46°F NA	52°F	60°F	68°F Room Temp.	82°F Room Temp	80°F Room Temp CLOUDY	70 SUNNY

SOIL VAPOR EXTRACTION (SVE) BLOWER B-801

Pre-Filter Vacuum (-wc)	60	62	60	62	70	65	61	60	60
Post-Filter Vacuum (-wc)	70	68	65	67	65	68	66	65	65
Inlet Magnehelic* (in H_2O)	.3	.3	.3	.3.5	0.35	0.35	0.3.5	.3.5	3.5
Inlet Vacuum (-wc)	110	110	110	110	120	130	120	115	120

SOIL VAPOR EXTRACTION (SVE) HEAT EXCHANGER (H-XCH)

Inlet Pressure (wc)	50	48	47	48	46	46	45	45	45
Inlet Temperature (°F)	70	96	100	105	115	175	130	125	125
Outlet Pressure (wc)	2	2	2	2	2	2	2	2	2
Outlet Temperature (°F)	70	72	64	72	80	90	100	100	100
Water Level Sight Glass (in)	8"	2 FEET	6"	8"	7"	6"	6"	1 FT 4 INCH	18"

AIR SPARGE (SPRG) COMPRESSOR C-2301

Upper Oil Sight Glass (half pt.)	OK	OK	OK	OK	OK	OK	OK	OK	OK
Lower Oil Sight Glass (half pt.)	OK	OK	OK	OK	OK	OK	OK	OK	OK

AIR SPARGE (SPRG) HEAT EXCHANGER (H-XCH)

Inlet Pressure (psi)	15.5	13.5	14.5	15	10.5	14.5	14	16	14
Inlet Temperature (°F)	102	190	168	171	190	200	224	220	220
Outlet Pressure (psi)	15	14.5	14.0	14	14.5	13.5	13.5	15	13.5
Outlet Temperature (°F)	62	108	82	88	100	104	120	120	112

* Keep plastic pinch valves on tubing to magnehelic gauge closed except when taking a reading.

MONTHLY DOCUMENTATION SHEET
BUILDING 1
SVE MANIFOLD

DATE	5-15-14	6/26/14	7/23/14							
TIME	1130	1350	0900							
INITIALS	A.H.	NP	NP							

MAGNEHELIC GAUGE*

SVE-15 (in H_2O)	0.0	0.0	0.0							
SVE-14 (in H_2O)	0.0	0.0	0.0							
SVE-13 (in H_2O)	0.0	0.0	0.48							
SVE-11 (in H_2O)	0.5	0.45	0.45							
SVE-9 (in H_2O)	0.8	0.7	0.65							

VACUUM GAUGE

SVE-15 (-wc)	65	60	60							
SVE-14 (-wc)	65	60	60							
SVE-13 (-wc)	70	60	60							
SVE-11 (-wc)	26	26	28							
SVE-9 (-wc)	63	58	58							

eep plastic pinch valves on tubing to magnehelic gauge closed excep n taking a reading.

MONTHLY DOCUMENTATION SHEET
BUILDING 1 UPPER CELL
AIR SPARGE MANIFOLD

DATE	3/14/14	5-15-14	6/26/14	7/23/14						
TIME	0900	1130	1355	0900						
INITIALS	MP	A.H.	MP	MP						

ROTOMETER

UPPER CELL	AS-47 (scfm)	0	12	0	0						
	AS-38 (scfm)	10.5	12	11.5	11						
	AS-37 (scfm)	15.5	15	16	16						
	AS-23 (scfm)	16	16.5	17	17						
	AS-24 (scfm)	14.5	15	15	15						
	AS-39 (scfm)	17	17	17	17						
	AS-48 (scfm)	18.5	19	19	19						
	AS-52 (scfm)	16	16	16	16						
	AS-56 (scfm)	15	15	15	15						
	AS-54 (scfm)	16	17	16	16						
	AS-58 (scfm)	13	13	13	13						

PRESSURE GAUGE

UPPER CELL	AS-47 (psi)	0	13	27	27.5						
	AS-38 (psi)	15	14	17	15						
	AS-37 (psi)	9	7.5	8	8						
	AS-23 (psi)	13	11	12	12.5						
	AS-24 (psi)	13.5	12	12.5	12.5						
	AS-39 (psi)	12.5	11	11.5	11						
	AS-48 (psi)	12	10.5	11	11						
	AS-52 (psi)	11.5	10	11	11						
	AS-56 (psi)	11	10	11	11						
	AS-54 (psi)	14	11.5	13	17.5						
	AS-58 (psi)	11	11.5	11.5	11.5						

MONTHLY DOCUMENTATION SHEET
BUILDING 1 LOWER CELL
AIR SPARGE MANIFOLD

DATE		3/14/14	5-15-14	6/26/14	7/23/14						
TIME		0900	1130	1355	0900						
INITIALS		NJP	D.H.	NP	NP						
				ROTOMETER							
LOWER CELL	AS-49 (scfm)	14.5	13.5	14	14						
	AS-44 (scfm)	12	11.5	11	11						
	AS-31 (scfm)	11	10	10	10						
	AS-32 (scfm)	23	21.5	21	22						
	AS-45 (scfm)	16.5	15.5	15	15						
	AS-51 (scfm)	16.5	15.5	16	15						
	AS-55 (scfm)	20	18.5	19	19.						
	AS-53 (scfm)	17	17	17	17						
	AS-59 (scfm)	16	15	15	15						
	AS-57 (scfm)	19	16	15	20						
	AS-50 (scfm)	26	AH ~~18~~ 23	23	22						
				PRESSURE GAUGE							
LOWER CELL	AS-49 (psi)	10	11	11.5	10						
	AS-44 (psi)	10.5	11.5	12	11.5						
	AS-31 (psi)	10	10.5	11	10						
	AS-32 (psi)	10	11.5	11	10.5						
	AS-45 (psi)	11.5	12.5	12.5	11.5						
	AS-51 (psi)	10.5	11	11.5	10.5						
	AS-55 (psi)	10.5	11	11.5	10.5						
	AS-53 (psi)	10	12	12.5	11						
	AS-59 (psi)	10.5	11.5	11.5	10.5						
	AS-57 (psi)	12.5	13.5	14	12.5						
	AS-50 (psi)	11.5	12.5	13	11.5						

MONTHLY DOCUMENTATION SHEET
BUILDING 1
PID MEASUREMENTS

DATE	9-9-13	10-24-13	11-18-13	1-15-14	2-19-14	3/14/14	5-15-14	6/26/14	7/23/14			
TIME	1415	1300	1230	1409 340	0900	0940	1130	1505	0900			
INITIALS	A.H.	A.H.	P.H	NP	A.H.	NP	A.H.	NP	NP			

SVE Effluent	1.5	52.1	3.6 ~~moisture~~	4.7	0.4	0.3	1.2 ~~0.0~~ A.H	0.9	0.6			
SVE - 15	2.5	moisture	moisture	MOISTURE	1.6	MOISTURE	moisture	MOISTURE	MOISTURE			
SVE - 14	2.5				moisture			0.0	0.4			
SVE - 13	5.3				moisture			1.1	2.1			
SVE - 11	2.0				Moisture.			2.8	1.0			
SVE - 9	1.8				moisture.			0.4	0.5			
Exhaust	1.9	~~1818~~ A.H. 52.1	1.36	4.7	0.4	0.3	1.2 ~~0.0~~ A.H.	0.9	0.6			

MONTHLY DOCUMENTATION SHEET
BUILDING 2
SVE MANIFOLD

DATE	5-15-14	6/26/14	7/23/14							
TIME	1115	1405	0945							
INITIALS	A.H.	NP	NP							

MAGNEHELIC GAUGE*

SVE-10 (in H_2O)	0.20	0.20	0.20							
SVE-12 (in H_2O)	0.55	0.55	0.35							
SVE-8 (in H_2O)	0.70	0.60	0.60							
SVE-7 (in H_2O)	0.35	0.35	0.40							

VACUUM GAUGE

SVE-10 (-wc)	55	60	60							
SVE-12 (-wc)	52	58	60							
SVE-8 (-wc)	56	60	60							
SVE-7 (-wc)	80	70	70							

ELECTRICAL USAGE

Kilowatts (kwh)	504953.0	599206.10	661995.20							

ep plastic pinch valves on tubing to magnehelic gauge closed except ı taking a reading.

MONTHLY DOCUMENTATION SHEET
BUILDING 2 UPPER CELL
AIR SPARGE MANIFOLD

DATE		3/14/14	5-15-14	6/26/14	7/23/14						
TIME		0855	1115	1400	0945						
INITIALS		NJP	A.H.	NP	NP						
				ROTOMETER							
UPPER CELL	AS-20 (scfm)	14	14	~~0~~ 15	15.5						
	AS-26 (scfm)	0	9	11	9						
	AS-16 (scfm)	14	14	16	14						
	AS-18 (scfm)	13	13.5	0	0						
	AS-22 (scfm)	13	12	16	12						
	AS-28 (scfm)	16	16	~~0~~ 16	15						
	AS-30 (scfm)	19	19	24	19						
	AS-36 (scfm)	15.5	15.5	20	14						
	AS-42 (scfm)	15	15.0	19	15.5						
	AS-40 (scfm)	16	16	20	16						
	AS-34 (scfm)	17	17	21	17						
				PRESSURE GAUGE							
UPPER CELL	AS-20 (psi)	10	10	~~0~~ 11	10						
	AS-26 (psi)	0	10.5	11	10.5						
	AS-16 (psi)	10	9.5	10	10						
	AS-18 (psi)	16.5	12	15	14						
	AS-22 (psi)	10	10	10.5	10.5						
	AS-28 (psi)	11	11	~~0~~ 12	11						
	AS-30 (psi)	11	11	11	11						
	AS-36 (psi)	12.5	12	12.5	12						
	AS-42 (psi)	11.6	11	11.	11						
	AS-40 (psi)	11	11	11.5	11						
	AS-34 (psi)	11	11	11.5	11						

MONTHLY DOCUMENTATION SHEET
BUILDING 2 LOWER CELL
AIR SPARGE MANIFOLD

DATE	3/14/14	5-15-14	6/26/14	7/23/14						
TIME	0845	1115	1400	0945						
INITIALS	NJP	A.H.	NP	MP						
ROTOMETER										
LOWER CELL										
AS-27 (scfm)	15	17	16	15						
AS-25 (scfm)	13	14	13	17						
AS-17 (scfm)	11.5	13.5	15	15						
AS-19 (scfm)	15	15	15.5	16						
AS-21 (scfm)	24	23	19	17						
AS-29 (scfm)	27	15	17	14						
AS-43 (scfm)	12.5	13	12	12						
AS-46 (scfm)	10	10	14	13						
AS-41 (scfm)	16	17.5	16	14						
AS-33 (scfm)	13.5	13.5	20	19						
AS-35 (scfm)	12.5	15	15	15						
PRESSURE GAUGE										
LOWER CELL										
AS-27 (psi)	11	A.H. ~~17~~ 11.5	11.5	14						
AS-25 (psi)	10	A.H. ~~14~~ 10.5	10	9						
AS-17 (psi)	10	A.H. ~~13.5~~ 10.5	10.5	11.5						
AS-19 (psi)	12	A.H. ~~15~~ 12.5	12	14						
AS-21 (psi)	11	A.H. ~~23~~ 12	11	12.5						
AS-29 (psi)	12	A.H. ~~15~~ 14.5	14	14.5						
AS-43 (psi)	10	A.H. ~~13~~ 11	10.5	11						
AS-46 (psi)	10	A.H. ~~10~~ 10.5	10.5	11.5						
AS-41 (psi)	10	A.H. ~~17.5~~ 10.5	10.5	10.5						
AS-33 (psi)	10	A.H. ~~13.5~~ 11	11	12						
AS-35 (psi)	9.5	9.5	11	11.5						

MONTHLY DOCUMENTATION SHEET
BUILDING 2
PID MEASUREMENTS

DATE	9-9-13	10-24-13	11-18-13	1-15-14	2-19-14	3/14/14	5-15-14	6/26/14	7/23/14			
TIME	1360	1320	1330	1340	0945	0855	1115	1520	0945			
INITIALS	A.H	A.H.	A.H.	NJP	A.H	NJP	A.H.	NP	NP			

SVE Effluent	1.1	0.0	47	0.1	0.3	0.2	0.0	1.0	0.5			
SVE - 10	moisture	moisture	moisture	MOISTURE	moisture	MOISTURE	moisture	0.0	0.4			
SVE - 12	↓	↓	↓	↓	↓	↓	↓	0.0	0.0			
SVE - 8	↓	↓	↓	↓	↓	↓	↓	MOISTURE	MOISTURE			
SVE - 7	↓	↓	↓	↓	↓	↓	↓	0.0	0.7			
Exhaust	1.9	0.0	47	0.1	0.3	0.2	0.0	1.0	0.5			

D

Appendix D

Second Quarter 2014 Groundwater Sampling Data Sheets

AECOM

Well ID:	GMZ-01

Ground Water Sample Collection Record

Client:	UTAS Plants 1/2 Facility	Date: 5/6/2014	Time:	Start	0830 (24hr)
Project No:	60312350-4213			Finish	0930
Site Location:	Rockford, Illinois				
Weather:	MOSTLY SUNNY - 50's	Collector(s): N. PINS			

1. **WELL and WATER LEVEL DATA: (measured from Top of Casing)**

Total well length (ft): 47.79 Screen interval(ft): 15 Approx. depth of pump intake(ft): 40
Water table depth (ft): 33.64 Casing type/diameter: 2" PVC Minimum purge volume: 6.9 (gals)
Water column length (ft): 14.15 (calculations on reverse)

2. **WELL PURGE DATA**

Purge/Sample Method: Proactive SS Monsoon Pump

Well is stable when readings stabilize to +/- 10% over three (3) consecutive readings collected at 5-minute intervals.
If three (3) well volumes have been removed, and the readings have not stabilized, a sample shall be collected.

Field Testing Equipment Used:	Make	Model	Serial Number(s)
	YSI	556 MPS	11F53
	Lamotte	2020	28862
	Lamotte	Smart 2 Colorimeter	26632
Begin purge at 0835			

Time (24hr)	Purge Vol. (ml)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
0840	–	12.73	7.14	1507	158.1	9.58	49.3	400	33.66	CLOUDY
0845	2000	12.31	7.11	1497	142.0	5.62	53.1	400	33.66	↓
0850	4000	12.31	7.10	1499	143.1	5.19	40.6	400	33.66	↓
0855	6000	12.28	7.10	1499	146.0	5.66	24.6	400	33.66	↓
0900	8000	12.21	7.10	1492	147.9	5.64	17.7	400	33.66	CLEAR
0905	10000	12.24	7.10	1485	148.3	5.67	18.1	400	33.66	↓
0910	12000	12.28	7.10	1490	149.8	5.69	17.5	400	33.66	↓
0915	14000	12.31	7.10	1495	152.9	5.70	18.4	400	33.66	↓

(continued on back)

Sample Collector(s): N. PINS Date: 5/6/2014

SAMPLE COLLECTION DATA

Well ID: **GMZ-01**

Sample ID	Parameters	Bottles/Preservatives	Time (24 hr)	Flow Rate (ml/min)	Comments
HSSER-GMZ01- 050614	VOC's	3 - 40mL Clear Vials	0915	400	
	Ferrous Iron	3.22 mg/L			

VOCs - Volatile organic compounds

G - Glass
HCl - Hydrchloric acid

AECOM

Well ID:	GMZ-02

Ground Water Sample Collection Record

Client:	UTAS Plants 1/2 Facility	Date: 5/7/2014	Time:	Start	0950 (24hr)
Project No:	60312350-4213			Finish	1055
Site Location:	Rockford, Illinois				
Weather:	Cloudy - 50's	Collector(s):	N. Pins		

1. **WELL and WATER LEVEL DATA: (measured from Top of Casing)**

Total well length (ft): 44.83 Screen interval(ft): 15 Approx. depth of pump intake(ft): 37

Water table depth (ft): 31.18 Casing type/diameter: 2" PVC Minimum purge volume: 6.7 (gals)

Water column length (ft): 13.65 (calculations on reverse)

2. **WELL PURGE DATA**

Purge/Sample Method: Proactive SS Monsoon Pump

Well is stable when readings stabilize to +/- 10% over three (3) consecutive readings collected at 5-minute intervals.
If three (3) well volumes have been removed, and the readings have not stabilized, a sample shall be collected.

Field Testing Equipment Used:	Make	Model	Serial Number(s)
	YSI	556 MPS	11F53
	Lamotte	2020	62862
	Lamotte	Smart 2 Colorimeter	26632
Begin purge at 1000			

Time (24hr)	Purge Vol. (ml)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
1005	-	14.07	7.52	1061	71.3	8.73	18.7	400	31.20	CLEAR
1010	2000	13.91	7.52	1057	73.5	7.84	9.87	400	31.20	↓
1015	4000	14.04	7.55	1046	73.8	8.02	4.28	400	31.20	↓
1020	6000	14.15	7.57	1039	75.9	7.72	1.87	400	31.20	↓
1025	8000	14.27	7.57	1036	80.0	7.61	1.15	400	31.20	↓
1030	10000	14.17	7.57	1037	83.4	7.71	1.10	400	31.20	↓
1035	12000	14.18	7.58	1033	84.1	7.66	1.07	400	31.20	↓

(continued on back)

Sample Collector(s): N. Pins Date: 5/7/2014

SAMPLE COLLECTION DATA

Well ID: **GMZ-02**

Sample ID	Parameters	Bottles/Preservatives	Time (24 hr)	Flow Rate (ml/min)	Comments
HSSER-GMZ02- 050714	VOC's	3 - 40mL Clear Vials	1035	400	
HSSER_MS01- 050714	VOC's	3 - 40mL Clear Vials	1035	400	
HSSER-MSD01- 050714	VOC's	3 - 40mL Clear Vials	1035	400	
	Ferrous Iron	0.12 mg/L			

VOCs - Volatile organic compounds

G - Glass
HCl - Hydrchloric acid

AECOM

Well ID:	GMZ-03

Ground Water Sample Collection Record

Client:	UTAS Plants 1/2 Facility	Date: 5-7-14	Time:	Start	1200 (24hr)
Project No:	60312350-4213			Finish	1305
Site Location:	Rockford, Illinois				
Weather:	overcast 55-65°F	Collector(s):	A. Hollatz		

1. WELL and WATER LEVEL DATA: (measured from Top of Casing)

Total well length (ft): 44.65 Screen interval(ft): 15 Approx. depth of pump intake(ft): 37

Water table depth (ft): 30.20 Casing type/diameter: 2" PVC Minimum purge volume: 7.1 (gals)

Water column length (ft): 14.45 (calculations on reverse)

2. WELL PURGE DATA

Purge/Sample Method: Proactive SS Monsoon Pump

Well is stable when readings stabilize to +/- 10% over three (3) consecutive readings collected at 5-minute intervals.
If three (3) well volumes have been removed, and the readings have not stabilized, a sample shall be collected.

Field Testing Equipment Used:	Make	Model	Serial Number(s)
	YSI	556 MPS	08C0001072
	Lamotte	2020	2476-3312
	Lamotte	Smart 2 Colorimeter	1039-0612

Begin purge at 1205

Time (24hr)	Purge Vol. (ml)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
1215	5000	15.36	7.82	960	204.4	9.08	54.3	500	30.62	cloudy/none
1220	7500	15.67	7.81	954	218.4	7.95	25.5	500	30.62	clear/none
1225	10,000	15.72	7.81	949	223.8	7.68	11.9	500	30.62	
1230	12,500	15.85	7.81	946	225.4	7.44	10.09	500	30.62	
1235	15,000	15.81	7.81	947	227.1	7.40	4.86	500	30.62	
1240	17,500	15.74	7.81	945	233.7	7.33	4.05	500	30.62	
1245	20,000	15.81	7.81	947	216.4	7.44	790	500	30.62	
1250	22,500	16.18	7.73	943	185.4	7.27	396	500	30.62	
1255	25,000	16.09	7.76	940	171.2	7.26	46.6	500	30.62	
1300	27,500	15.98	7.77	940	184.0	7.41	16.6	500	30.62	

* Parameters not stable, removed 3 well volumes, sample collected.

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Sample Collector(s): [signature] Date: 5-7-14

1245 Pump turned off, took couple of minutes to restart. Turbidity High.

SAMPLE COLLECTION DATA

Well ID: **GMZ-03**

Sample ID	Parameters	Bottles/Preservatives	Time (24 hr)	Flow Rate (ml/min)	Comments
HSSER-GMZ03-050714	VOC's	3 - 40mL Clear Vials	1300	500	
HSSER-Dup01-050714	VOC's	3 - 40mL Clear Vials	0000	500	
	Ferrous Iron	mg/L	2.3		

VOCs - Volatile organic compounds

G - Glass
HCl - Hydrchloric acid

AECOM

Well ID:	GMZ-04

Ground Water Sample Collection Record

Client:	UTAS Plants 1/2 Facility	Date: 5-7-14	Time:	Start	0850 (24hr)
Project No:	60312350-4213			Finish	0945
Site Location:	Rockford, Illinois				
Weather:	overcast 40-50°F	Collector(s):	A. Holtz		

1. WELL and WATER LEVEL DATA: (measured from Top of Casing)

Total well length (ft): 45.33 Screen interval(ft): 15 Approx. depth of pump intake(ft): 38

Water table depth (ft): 28.91 Casing type/diameter: 2" PVC Minimum purge volume: 8.1 (gals)

Water column length (ft): 16.42 (calculations on reverse)

2. WELL PURGE DATA

Purge/Sample Method: Proactive SS Monsoon Pump

Well is stable when readings stabilize to +/- 10% over three (3) consecutive readings collected at 5-minute intervals.
If three (3) well volumes have been removed, and the readings have not stabilized, a sample shall be collected.

Field Testing Equipment Used:	Make	Model	Serial Number(s)
	YSI	556 MPS	08C401072
	Lamotte	2020	2476-3312
	Lamotte	Smart 2 Colorimeter	1039-0612
Begin purge at 0855			

Time (24hr)	Purge Vol. (ml)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
0905	5000	13.85	8.06	1459	181.5	7.76	57.2	500	28.91	cloudy/none
0910	7500	13.85	8.07	1444	178.6	7.55	23.3	500	28.94	clear/none
0915	10,000	13.86	8.08	1437	176.6	7.46	13.7	500	28.94	↓
0920	12,500	13.84	8.08	1434	172.7	7.30	6.20	500	28.94	↓
0925	15,000	13.91	8.08	1435	171.5	7.23	3.77	500	28.94	↓
0930	17,500	13.95	8.09	1436	168.5	7.36	3.74	500	28.94	↓
0935	20,000	14.03	8.09	1436	166.5	7.28	3.64	500	28.94	↓

(continued on back)

Sample Collector(s): [signature] Date: 5-7-14

SAMPLE COLLECTION DATA

Well ID: **GMZ-04**

Sample ID	Parameters	Bottles/Preservatives	Time (24 hr)	Flow Rate (ml/min)	Comments
HSSER-GMZ04-050714	VOC's	3 - 40mL Clear Vials	0935	500	
	Ferrous Iron	mg/L	0.2		

VOCs - Volatile organic compounds

G - Glass
HCl - Hydrchloric acid

AECOM

Well ID:	MW07FGA

Ground Water Sample Collection Record

Client:	UTAS Plants 1/2 Facility	Date: 5/6/2014	Time:	Start	1150 (24hr)
Project No:	60312350-4213			Finish	1255
Site Location:	Rockford, Illinois				
Weather:	SUNNY - 50°s	Collector(s):	N. PINS		

1. WELL and WATER LEVEL DATA: (measured from Top of Casing)

Total well length (ft):	46.75	Screen interval(ft):	15	Approx. depth of pump intake(ft):	39
Water table depth (ft):	28.96	Casing type/diameter:	4 ⅛" SS	Minimum purge volume:	30.0 (gals)
Water column length (ft):	17.79				(calculations on reverse)

2. WELL PURGE DATA

Purge/Sample Method: Proactive SS Monsoon Pump

Well is stable when readings stabilize to +/- 10% over three (3) consecutive readings collected at 5-minute intervals.
If three (3) well volumes have been removed, and the readings have not stabilized, a sample shall be collected.

Field Testing Equipment Used:	Make	Model	Serial Number(s)
	YSI	556 MPS	11F53
	Lamotte	2020	26862
	Lamotte	Smart 2 Colorimeter	26632
Begin purge at 1215			

Time (24hr)	Purge Vol. (ml)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
1220	–	15.93	7.20	1309	202.3	9.72	42.8	400	28.96	CLOUDY
1225	2000	16.38	7.17	1305	165.5	6.74	43.2	400	28.96	↓
1230	4000	16.78	7.17	1312	162.1	5.89	42.4	400	28.96	↓
1235	6000	16.80	7.17	1317	159.7	5.82	40.6	400	28.96	↓
1240	8000	16.84	7.17	1320	157.8	5.78	41.7	400	28.96	↓

(continued on back)

Sample Collector(s): N. PINS Date: 5/6/2014

SAMPLE COLLECTION DATA

Well ID: **MW-07FGA**

Sample ID	Parameters	Bottles/Preservatives	Time (24 hr)	Flow Rate (ml/min)	Comments
HSSER-MW07FGA- 050614	VOC's	3 - 40mL Clear Vials	1240	400	
	Ferrous Iron	3.42 mg/L			

VOCs - Volatile organic compounds

G - Glass
HCl - Hydrchloric acid

AECOM

Well ID:	MW-203

Ground Water Sample Collection Record

Client: UTAS Plants 1/2 Facility Date: 5/6/2014 Time: Start 1255 (24hr)
Project No: 60312350-4213 Finish 1400
Site Location: Rockford, Illinois
Weather: SUNNY - 50°F Collector(s): N. PINS

1. **WELL and WATER LEVEL DATA: (measured from Top of Casing)**

Total well length (ft): 48.93 Screen interval(ft): 15 Approx. depth of pump intake(ft): 40
Water table depth (ft): 29.75 Casing type/diameter: 2" SS Minimum purge volume: 9.4 (gals)
Water column length (ft): 19.18 (calculations on reverse)

2. **WELL PURGE DATA**

Purge/Sample Method: Proactive SS Monsoon Pump

Well is stable when readings stabilize to +/- 10% over three (3) consecutive readings collected at 5-minute intervals.
If three (3) well volumes have been removed, and the readings have not stabilized, a sample shall be collected.

Field Testing Equipment Used:	Make	Model	Serial Number(s)
	YSI	556 MPS	11F53
	Lamotte	2020	26862
	Lamotte	Smart 2 Colorimeter	26632

Begin purge at 1310

Time (24hr)	Purge Vol. (ml)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
1315	–	15.38	7.13	1174	167.6	4.95	19.6	400	29.77	CLEAR
1320	2000	15.83	7.12	1178	144.0	1.62	17.8	400	29.77	↓
1325	4000	15.78	7.10	1194	129.2	0.95	11.18	400	29.77	↓
1330	8000	15.64	7.09	1197	108.1	0.74	8.08	400	29.77	↓
1335	10000	15.66	7.08	1200	109.6	0.72	7.77	400	29.77	↓
1340	12000	15.57	7.08	1202	112.4	0.72	7.57	400	29.77	↓

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Sample Collector(s): N. PINS Date: 5/6/2014

SAMPLE COLLECTION DATA

Well ID: **MW-203**

Sample ID	Parameters	Bottles/Preservatives	Time (24 hr)	Flow Rate (ml/min)	Comments
HSSER-MW203- 050614	VOC's	3 - 40mL Clear Vials	1340	400	
	Ferrous Iron	0.90 mg/L			

VOCs - Volatile organic compounds

G - Glass

HCl - Hydrchloric acid

AECOM

Well ID:	PMW-01

Ground Water Sample Collection Record

Client: UTAS Plants 1/2 Facility Date: 5/7/2014 Time: Start 0840 (24hr)
Project No: 60312350-4213 Finish 0950
Site Location: Rockford, Illinois
Weather: CLOUDY - 40's Collector(s): N. PINS

1. **WELL and WATER LEVEL DATA: (measured from Top of Casing)**

Total well length (ft): 44.73 Screen interval(ft): 25 Approx. depth of pump intake(ft): 37
Water table depth (ft): 31.32 Casing type/diameter: 2" PVC Minimum purge volume: 6.6 (gals)
Water column length (ft): 13.41 (calculations on reverse)

2. **WELL PURGE DATA**

Purge/Sample Method: Proactive SS Monsoon Pump

Well is stable when readings stabilize to +/- 10% over three (3) consecutive readings collected at 5-minute intervals.
If three (3) well volumes have been removed, and the readings have not stabilized, a sample shall be collected.

Field Testing Equipment Used:	Make	Model	Serial Number(s)
	YSI	556 MPS	11F53
	Lamotte	2020	62862
	Lamotte	Smart 2 Colorimeter	26632
Begin purge at 0850			

Time (24hr)	Purge Vol. (ml)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
0855	–	13.92	7.17	1287	27.7	6.67	146	400	31.34	CLOUDY
0900	2000	13.77	7.10	1226	33.8	4.94	121	400	31.34	↓
0905	4000	13.92	7.09	1201	44.1	4.80	41.7	400	31.34	↓
0910	6000	13.99	7.08	1189	48.7	4.78	19.5	400	31.34	CLEAR
0915	8000	13.99	7.08	1182	49.2	4.76	14.3	400	31.34	↓
0920	10000	14.02	7.08	1173	52.1	4.80	11.9	400	31.34	↓
0925	12000	14.13	7.08	1163	59.6	4.84	9.54	400	31.34	↓
0930	14000	14.11	7.08	1159	62.6	4.88	9.15	400	31.34	↓
0935	16000	14.14	7.08	1155	64.0	4.90	8.72	400	31.34	↓

(continued on back)

Sample Collector(s): N. PINS Date: 5/7/2014

SAMPLE COLLECTION DATA

Well ID: **PMW-01**

Sample ID	Parameters	Bottles/Preservatives	Time (24 hr)	Flow Rate (ml/min)	Comments
HSSER-PMW01-050714	VOC's	3 - 40mL Clear Vials	0935	400	
	Ferrous Iron	0.94 mg/L			

VOCs - Volatile organic compounds

G - Glass
HCl - Hydrchloric acid

AECOM

Well ID:	PMW-02

Ground Water Sample Collection Record

Client:	UTAS Plants 1/2 Facility	Date:	5/7/2014	Time: Start	0740 (24hr)
Project No:	60312350-4213			Finish	0840
Site Location:	Rockford, Illinois				
Weather:	CLOUDY - 40°s	Collector(s):	N. Pins		

1. WELL and WATER LEVEL DATA: (measured from Top of Casing)

Total well length (ft):	45.02	Screen interval(ft):	25	Approx. depth of pump intake(ft):	37
Water table depth (ft):	31.29	Casing type/diameter:	2" PVC	Minimum purge volume:	6.7 (gals)
Water column length (ft):	13.73				(calculations on reverse)

2. WELL PURGE DATA

Purge/Sample Method: Proactive SS Monsoon Pump

Well is stable when readings stabilize to +/- 10% over three (3) consecutive readings collected at 5-minute intervals.
If three (3) well volumes have been removed, and the readings have not stabilized, a sample shall be collected.

Field Testing Equipment Used:	Make	Model	Serial Number(s)
	YSI	556 MPS	11F53
	Lamotte	2020	26862
	Lamotte	Smart 2 Colorimeter	26632
Begin purge at 0745			

Time (24hr)	Purge Vol. (ml)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
0750	-	13.00	6.93	1962	104.8	5.80	103.7	400	31.31	CLOUDY
0755	2000	12.97	6.92	1840	72.3	4.24	62.8	400	31.31	↓
0800	4000	13.48	6.91	1802	76.3	3.29	38.9	400	31.31	↓
0805	6000	13.26	6.92	1800	68.5	2.58	9.12	400	31.31	CLEAR
0810	8000	13.31	6.92	1793	68.8	2.56	8.94	400	31.31	↓
0815	10000	13.37	6.93	1789	68.4	2.49	6.45	400	31.31	↓
0820	12000	13.38	6.93	1784	69.1	2.46	6.12	400	31.31	↓
0825	14000	13.42	6.93	1783	70.4	2.41	5.98	400	31.31	↓

(continued on back)

Sample Collector(s): N. Pins Date: 5/7/2014

SAMPLE COLLECTION DATA

Well ID: PMW-02

Sample ID	Parameters	Bottles/Preservatives	Time (24 hr)	Flow Rate (ml/min)	Comments
HSSER-PMW02- 050714	VOC's	3 - 40mL Clear Vials	0825	400	
HSSER-EBLK01- 050714	VOC's	3 - 40mL Clear Vials	0735	–	
	Ferrous Iron	0.21 mg/L			

VOCs - Volatile organic compounds

G - Glass
HCl - Hydrchloric acid

AECOM

Well ID:	SMW-01

Ground Water Sample Collection Record

Client:	UTAS Plants 1/2 Facility	Date: 5/6/2014	Time:	Start	0930 (24hr)
Project No:	60312350-4213			Finish	1035
Site Location:	Rockford, Illinois				
Weather:	MOSTLY SUNNY - 50°s	Collector(s):	N. PINS		

1. **WELL and WATER LEVEL DATA: (measured from Top of Casing)**

Total well length (ft): 39.31 Screen interval(ft): 15 Approx. depth of pump intake(ft): 32
Water table depth (ft): 31.69 Casing type/diameter: 2" PVC Minimum purge volume: 3.7 (gals)
Water column length (ft): 7.62 (calculations on reverse)

2. **WELL PURGE DATA**

Purge/Sample Method: Proactive SS Monsoon Pump

Well is stable when readings stabilize to +/- 10% over three (3) consecutive readings collected at 5-minute intervals.
If three (3) well volumes have been removed, and the readings have not stabilized, a sample shall be collected.

Field Testing Equipment Used:	Make	Model	Serial Number(s)
	YSI	556 MPS	11F53
	Lamotte	2020	26862
	Lamotte	Smart 2 Colorimeter	26632

Begin purge at 0945

Time (24hr)	Purge Vol. (ml)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
0950	–	13.24	7.26	1128	151.4	9.67	73.4	400	31.71	CLOUDY
0955	2000	13.69	7.26	1072	157.7	9.12	19.1	400	31.71	CLEAR
1000	4000	13.81	7.25	1075	155.7	8.72	8.33	400	31.71	↓
1005	6000	14.10	7.25	1086	148.6	8.80	2.32	400	31.71	↓
1010	8000	14.25	7.25	1096	151.7	8.89	1.82	400	31.71	↓
1015	10000	14.32	7.25	1100	154.6	8.85	1.72	400	31.71	↓
1020	12000	14.35	7.25	1106	157.2	8.83	1.70	400	31.71	↓

(continued on back)

Sample Collector(s): N. PINS Date: 5/6/2014

SAMPLE COLLECTION DATA

Well ID: **SMW-01**

Sample ID	Parameters	Bottles/Preservatives	Time (24 hr)	Flow Rate (ml/min)	Comments
HSSER-SMW01-050604	VOC's	3 - 40mL Clear Vials	1020	400	
	Ferrous Iron	1.87 mg/L			

VOCs - Volatile organic compounds

G - Glass
HCl - Hydrchloric acid

AECOM

Well ID:	SMW-02

Ground Water Sample Collection Record

Client:	UTAS Plants 1/2 Facility	Date:	5/6/2014	Time: Start	1035 (24hr)
Project No:	60312350-4213			Finish	1135
Site Location:	Rockford, Illinois				
Weather:	MOSTLY SUNNY - 50's	Collector(s):	N. PINS		

1. **WELL and WATER LEVEL DATA: (measured from Top of Casing)**

Total well length (ft):	39.91	Screen interval(ft):	15	Approx. depth of pump intake(ft):	32
Water table depth (ft):	28.26	Casing type/diameter:	2" PVC	Minimum purge volume:	5.7 (gals)
Water column length (ft):	11.65				(calculations on reverse)

2. **WELL PURGE DATA**

Purge/Sample Method: Proactive SS Monsoon Pump

Well is stable when readings stabilize to +/- 10% over three (3) consecutive readings collected at 5-minute intervals.
If three (3) well volumes have been removed, and the readings have not stabilized, a sample shall be collected.

Field Testing Equipment Used:	Make	Model	Serial Number(s)
	YSI	556 MPS	11F53
	Lamotte	2020	26862
	Lamotte	Smart 2 Colorimeter	26632
Begin purge at 1040			

Time (24hr)	Purge Vol. (ml)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
1045	-	14.08	7.13	1140	159.2	9.14	89.9	400	28.27	CLOUDY
1050	2000	14.49	7.15	1130	160.9	8.50	48.8	400	28.27	↓
1055	4000	14.41	7.15	1138	169.4	9.62	12.5	400	28.27	CLEAR
1100	6000	14.33	7.16	1148	173.0	9.64	5.46	400	28.27	
1105	8000	14.43	7.16	1152	177.0	9.64	3.44	400	28.27	
1110	10000	14.54	7.16	1156	180.4	9.62	2.90	400	28.27	
1115	12000	14.60	7.16	1155	183.2	9.65	2.87	400	28.27	
1120	14000	14.62	7.16	1158	186.2	9.65	2.82	400	28.27	↓

(continued on back)

Sample Collector(s): N. PINS Date: 5/6/2014

SAMPLE COLLECTION DATA

Well ID: **SMW-02**

Sample ID	Parameters	Bottles/Preservatives	Time (24 hr)	Flow Rate (ml/min)	Comments
HSSER-SMW02- 050614	VOC's	3 - 40mL Clear Vials	1120	400	
	Ferrous Iron	0.39 mg/L			

VOCs - Volatile organic compounds

G - Glass
HCl - Hydrchloric acid

AECOM

Well ID:	SMW-04

Ground Water Sample Collection Record

Client:	UTAS Plants 1/2 Facility	Date:	5/6/2014	Time: Start	1435 (24hr)
Project No:	60312350-4213			Finish	1545
Site Location:	Rockford, Illinois				
Weather:	SUNNY - 50°s	Collector(s):	N. PINS		

1. **WELL and WATER LEVEL DATA: (measured from Top of Casing)**

Total well length (ft):	42.35	Screen interval(ft):	15	Approx. depth of pump intake(ft):	35
Water table depth (ft):	30.90	Casing type/diameter:	2" PVC	Minimum purge volume:	5.6 (gals)
Water column length (ft):	11.45				(calculations on reverse)

2. **WELL PURGE DATA**

Purge/Sample Method: Proactive SS Monsoon Pump

Well is stable when readings stabilize to +/- 10% over three (3) consecutive readings collected at 5-minute intervals.
If three (3) well volumes have been removed, and the readings have not stabilized, a sample shall be collected.

Field Testing Equipment Used:	Make	Model	Serial Number(s)
	YSI	556 MPS	11F53
	Lamotte	2020	26862
	Lamotte	Smart 2 Colorimeter	26632
Begin purge at 1450			

Time (24hr)	Purge Vol. (ml)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
1455	–	14.09	7.19	1167	94.5	6.42	53.6	400	30.92	CLOUDY
1500	2000	14.58	7.15	1203	80.4	3.61	23.0	400	30.92	↓
1505	4000	14.65	7.15	1235	77.5	1.90	7.27	400	30.92	CLEAR
1510	6000	14.61	7.15	1263	81.1	0.76	3.75	400	30.92	
1515	8000	14.70	7.15	1277	76.5	0.38	2.62	400	30.92	
1520	10000	14.76	7.15	1305	83.0	0.36	2.43	400	30.92	
1525	12000	14.82	7.15	1317	85.2	0.39	2.40	400	30.92	
1530	14000	14.85	7.15	1328	86.6	0.36	2.31	400	30.92	

(continued on back)

Sample Collector(s): N. PINS Date: 5/6/2014

SAMPLE COLLECTION DATA

Well ID: SMW-04

Sample ID	Parameters	Bottles/Preservatives	Time (24 hr)	Flow Rate (ml/min)	Comments
HSSER-SMW04- 050614	VOC's	3 - 40mL Clear Vials	1530	400	
	Ferrous Iron	0.49 mg/L			

VOCs - Volatile organic compounds

G - Glass
HCl - Hydrchloric acid

AECOM

Well ID:	SMW-08

Ground Water Sample Collection Record

Client: UTAS Plants 1/2 Facility Date: 5/6/2014 Time: Start 0705 (24hr)
Project No: 60312350-4213 Finish 0830
Site Location: Rockford, Illinois
Weather: Mostly Sunny 50's Collector(s): N. Pins

1. **WELL and WATER LEVEL DATA: (measured from Top of Casing)**

Total well length (ft): 41.89 Screen interval(ft): 15 Approx. depth of pump intake(ft): 34
Water table depth (ft): 31.06 Casing type/diameter: 2" PVC Minimum purge volume: 5.3 (gals)
Water column length (ft): 10.83 (calculations on reverse)

2. **WELL PURGE DATA**

Purge/Sample Method: Proactive SS Monsoon Pump

Well is stable when readings stabilize to +/- 10% over three (3) consecutive readings collected at 5-minute intervals.
If three (3) well volumes have been removed, and the readings have not stabilized, a sample shall be collected.

Field Testing Equipment Used:	Make	Model	Serial Number(s)
	YSI	556 MPS	11F53
	Lamotte	2020	26862
	Lamotte	Smart 2 Colorimeter	26632

Begin purge at 0735

Time (24hr)	Purge Vol. (ml)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
0740	—	12.01	7.01	1598	119.8	2.98	119	400	31.09	CLOUDY
0745	2000	12.38	6.99	1603	122.4	1.86	59.1	400	31.09	↓
0750	4000	12.34	7.00	1614	133.9	2.04	13.0	400	31.09	CLEAR
0755	6000	12.01	7.01	1614	137.4	2.10	7.79	400	31.09	↓
0800	8000	12.07	7.02	1607	139.2	2.11	3.94	400	31.09	↓
0805	10000	12.10	7.02	1604	141.2	2.13	3.80	400	31.09	↓
0810	12000	12.13	7.01	1606	144.5	2.13	3.77	400	31.09	↓

(continued on back)

Sample Collector(s): N. Pins Date: 5/6/2014

SAMPLE COLLECTION DATA

Well ID: SMW-08

Sample ID	Parameters	Bottles/Preservatives	Time (24 hr)	Flow Rate (ml/min)	Comments
HSSER-SMW08- 050614	VOC's	3 - 40mL Clear Vials	0810	400	
HSSER-FBLK01- 050614	VOC's	3 - 40mL Clear Vials	0705	—	
	Ferrous Iron	1.26 mg/L			

VOCs - Volatile organic compounds

G - Glass
HCl - Hydrchloric acid

AECOM

Well ID:	SMW-19

Ground Water Sample Collection Record

Client:	UTAS Plants 1/2 Facility	Date:	5/7/2014	Time: Start	1055 (24hr)
Project No:	60312350-4213			Finish	1200
Site Location:	Rockford, Illinois				
Weather:	Cloudy- 50's	Collector(s):	N. Pins		

1. WELL and WATER LEVEL DATA: (measured from Top of Casing)

Total well length (ft):	41.23	Screen interval(ft):	15	Approx. depth of pump intake(ft):	35
Water table depth (ft):	29.97	Casing type/diameter:	2" SS	Minimum purge volume:	5.5 (gals)
Water column length (ft):	11.26				(calculations on reverse)

2. WELL PURGE DATA

Purge/Sample Method: Proactive SS Monsoon Pump

Well is stable when readings stabilize to +/- 10% over three (3) consecutive readings collected at 5-minute intervals.
If three (3) well volumes have been removed, and the readings have not stabilized, a sample shall be collected.

Field Testing Equipment Used:	Make	Model	Serial Number(s)
	YSI	556 MPS	11F53
	Lamotte	2020	62862
	Lamotte	Smart 2 Colorimeter	26632
Begin purge at 1105			

Time (24hr)	Purge Vol. (ml)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
1110	-	14.51	6.99	1340	86.5	5.43	90.7	400	30.00	Cloudy
1115	2000	15.05	6.91	1321	73.9	3.95	51.7	400	30.00	↓
1120	4000	15.22	6.91	1324	75.4	3.60	22.7	400	30.00	↓
1125	6000	15.22	6.91	1333	81.4	3.41	9.64	400	30.00	Clear
1130	8000	15.18	6.90	1338	84.7	3.33	4.06	400	30.00	↓
1135	10000	15.22	6.90	1344	86.7	3.29	2.27	400	30.00	↓
1140	12000	15.28	6.91	1350	87.2	3.29	2.18	400	30.00	↓
1145	14000	15.31	6.91	1352	86.8	3.22	2.25	400	30.00	↓

(continued on back)

Sample Collector(s): N. Pins Date: 5/7/2014

SAMPLE COLLECTION DATA

Well ID: **SMW-19**

Sample ID	Parameters	Bottles/Preservatives	Time (24 hr)	Flow Rate (ml/min)	Comments
HSSER-SMW19- 050714	VOC's	3 - 40mL Clear Vials	1145	400	
	Ferrous Iron	0.38 mg/L			

VOCs - Volatile organic compounds

G - Glass
HCl - Hydrchloric acid

AECOM

Well ID:	SMW-20

Ground Water Sample Collection Record

Client:	UTAS Plants 1/2 Facility	Date: 5-7-14	Time:	Start	1100 (24hr)
Project No:	60312350-4213			Finish	1155
Site Location:	Rockford, Illinois				
Weather:	Overcast 50-60°F	Collector(s):	A. Hellatz		

1. WELL and WATER LEVEL DATA: (measured from Top of Casing)

Total well length (ft): 40.13 Screen interval(ft): 15 Approx. depth of pump intake(ft): 33

Water table depth (ft): 29.96 Casing type/diameter: 2" PVC Minimum purge volume: 5.0 (gals)

Water column length (ft): 10.17 (calculations on reverse)

2. WELL PURGE DATA

Purge/Sample Method: Proactive SS Monsoon Pump

Well is stable when readings stabilize to +/- 10% over three (3) consecutive readings collected at 5-minute intervals.
If three (3) well volumes have been removed, and the readings have not stabilized, a sample shall be collected.

Field Testing Equipment Used:	Make	Model	Serial Number(s)
	YSI	556 MPS	08C101072
	Lamotte	2020	2476-3312
	Lamotte	Smart 2 Colorimeter	1039-0612

Begin purge at 1105

Time (24hr)	Purge Vol. (ml)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
1110	2500	15.72	7.90	872	164.2	7.49	16.8	500	29.96	clear/none
1115	5000	15.82	7.89	900	159.3	7.21	9.42	500	30.00	↓
1120	7500	15.90	7.84	943	154.0	7.15	4.97	500	30.00	↓
1125	10,000	15.82	7.88	974	150.0	7.19	2.74	500	30.00	↓
1130	12,500	15.80	7.88	991	147.0	7.13	1.93	500	30.00	↓
1135	15,000	15.87	7.88	1004	143.0	7.09	1.89	500	30.00	↓
1140	17,500	15.89	7.88	1020	136.2	7.09	1.97	500	30.00	↓

(continued on back)

Sample Collector(s): [signature] Date: 5-7-14

SAMPLE COLLECTION DATA

Well ID: **SMW-20**

Sample ID	Parameters	Bottles/Preservatives	Time (24 hr)	Flow Rate (ml/min)	Comments
HSSER-SMW20- 050714	VOC's	3 - 40mL Clear Vials	1140	500	
	Ferrous Iron	mg/L	0.2		

VOCs - Volatile organic compounds

G - Glass
HCl - Hydrchloric acid

AECOM

Well ID:	SMW-21

Ground Water Sample Collection Record

Client:	UTAS Plants 1/2 Facility	Date: 5-7-14	Time:	Start	0950 (24hr)
Project No:	60312350-4213			Finish	1050
Site Location:	Rockford, Illinois				
Weather:	overcast 45-55°F	Collector(s):	A. Hellatz		

1. WELL and WATER LEVEL DATA: (measured from Top of Casing)

Total well length (ft): 41.45 Screen interval(ft): 15 Approx. depth of pump intake(ft): 34

Water table depth (ft): 29.49 Casing type/diameter: 2" PVC Minimum purge volume: 5.9 (gals)

Water column length (ft): 11.96 (calculations on reverse)

2. WELL PURGE DATA

Purge/Sample Method: Proactive SS Monsoon Pump

Well is stable when readings stabilize to +/- 10% over three (3) consecutive readings collected at 5-minute intervals.
If three (3) well volumes have been removed, and the readings have not stabilized, a sample shall be collected.

Field Testing Equipment Used:	Make	Model	Serial Number(s)
	YSI	556 MPS	08C101072
	Lamotte	2020	2476-3312
	Lamotte	Smart 2 Colorimeter	1039-0612
Begin purge at 0955			

Time (24hr)	Purge Vol. (ml)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
1005	5000	13.59	7.98	1233	167.3	8.58	92.7	500	29.49	cloudy/none
1010	7500	13.80	7.93	1256	171.6	8.12	32.8	500	29.49	↓
1015	10,000	13.87	7.90	1275	173.4	7.88	14.8	500	29.49	clear/none
1020	12,500	13.92	7.90	1281	173.6	7.79	7.68	500	29.49	↓
1025	15,000	13.82	7.89	1277	173.5	7.85	4.32	500	29.49	
1030	17,500	13.93	7.89	1273	173.6	7.79	2.79	500	29.49	
1035	20,000	13.96	7.89	1277	173.2	7.91	1.26	500	29.49	
1040	22,500	14.00	7.89	1277	172.4	7.86	0.74	500	29.49	
	All Parameters	not	stable,	3 well	volumes	removed,	sample	collected.		

(continued on back)

Sample Collector(s): [signature] Date: 5-7-14

SAMPLE COLLECTION DATA

Well ID: **SMW-21**

Sample ID	Parameters	Bottles/Preservatives	Time (24 hr)	Flow Rate (ml/min)	Comments
HSSER-SMW21-050714	VOC's	3 - 40mL Clear Vials	1040	500	
	Ferrous Iron	mg/L	0.2		

VOCs - Volatile organic compounds

G - Glass
HCl - Hydrchloric acid

Project Name: UTC PLANT 1

Project Number: 60312350.4213

Date: 5/6/2014

N. PINS

Calibration Form

Parameter	Instrument Manf/Model	Instrument Serial No.	Standard Manf/Model	Standard SN/Exp. Date	Standard Value @ C	Ambient Temp. C	Initial Value	Adjusted Value	Initials & Time	Comments
pH 4.00	556 MPS	11F53	B44130805 NC LABS	8/2015	4.00 @ 25C	18.01	4.02	4.00	0651	
								---		Post Cal
pH 7.00			B47130903 NC LABS	9/2015	7.00 @ 25C		7.10	7.00	0648	
						18.10		---		Post Cal
pH 10.00			B50130429 NC LABS	4/2015	10.00 @ 25C		9.83	9.97	0654	
								---		Post Cal
Specific Cond.			13J100278 YSI 3167	3/2015	1,000 uS/cm @ 25C	18.06	969	1000	0645	
								---		Post Cal
Specific Cond. (Check Only)					___ uS/cm @ 25C			---		
								---		Post Cal
Specific Cond. (Check Only)					___ uS/cm @ 25C			---		
								---		Post Cal
ORP			13L 100163	11/2015	244 mV @ 20. C	18.72	238.1	244.0	0658	
								---		Post Cal
DO			H2O Saturated Air	N/A	100% H20 Sat. Air	16.42	96.2	99.7	0640	BP =
								---		Post Cal, BP =
Turbidity	2020 WE	26862	N/A	N/A	0 NTU	NA	0.11	0.00	0647	
						NA		---		Post Cal
					10 NTU	NA	10.07	10.00	0655	
						NA		---		Post Cal

BP = Barometric Pressure (mmHg)

Project Name: UTAS Plant 1/2 Facility

Project Number: 60312350-4213

Date: 5-6-14

Calibration Form

Parameter	Instrument Manf/Model	Instrument Serial No.	Standard Manf/Model	Standard SN/Exp. Date	Standard Value @ __C	Ambient Temp. C	Initial Value	Adjusted Value	Initials & Time	Comments
pH 4.00	YSI 556MPS	08C101072	B4H130805 NC Labs	8-15	4.00 @ 25C	19.23	4.03	4.00	AH 0650	
								---		Post Cal
pH 7.00			13H130903 NC Labs	9-15	7.00 @ 25C	19.56	7.08	7.00	AH0654	
								---		Post Cal
pH 10.00			B5013041 29 NC Labs	4-15	10.00 @ 25C	19.36	10.06	10.01	AH 0658	
								---		Post Cal
Specific Cond.			13510027 8 YSI 3167	3-15	1,000 uS/cm @ 25C	19.21	1024	1000	AH 0652	
								---		Post Cal
Specific Cond. (Check Only)					___ uS/cm @ 25C			---		
								---		Post Cal
Specific Cond. (Check Only)					___ uS/cm @ 25C			---		
								---		Post Cal
ORP			13L100163 Zobell	11-15	244 mV @ 15 C	19.63	238.7	244.0	AH0700	
								---		Post Cal
DO			H2O Saturated Air	—	100% H20 Sat. Air	18.53	98.2	96.9	AH0650	BP =
								---		Post Cal, BP =
Turbidity	LaMotte 2020	2476-3312	—	—	0 NTU	NA	0.01	0.00	0700 AH	
						NA		---		Post Cal
					10 NTU	NA	10.04	10.01	0700 A.H.	
						NA		---		Post Cal

BP = Barometric Pressure (mmHg)

Project Name: UTC PLANT 1

Project Number: 60312350.4213

Date: 5/7/2014

N. Pins

Calibration Form

Parameter	Instrument Manf/Model	Instrument Serial No.	Standard Manf/Model	Standard SN/Exp. Date	Standard Value @ __C	Ambient Temp. C	Initial Value	Adjusted Value	Initials & Time	Comments
pH 4.00	SS6 MPS	11F53	B44130805 NC LABS	8/2015	4.00 @ 25C	18.40	4.02	4.00	0723	
								———		Post Cal
pH 7.00			B47130903 NC LABS	9/2015	7.00 @ 25C	18.85	7.08	7.00	0721	
								———		Post Cal
pH 10.00			B50130429 NC LABS	4/2015	10.00 @ 25C	18.57	10.04	10.01	0725	
								———		Post Cal
Specific Cond.			13J100278 YSI 3167	3/2015	1,000 uS/cm @ 25C	18.23	1006	1000	0719	
								———		Post Cal
Specific Cond. (Check Only)					___uS/cm @ 25C			———		
								———		Post Cal
Specific Cond. (Check Only)					___uS/cm @ 25C			———		
								———		Post Cal
ORP			13L 100163	11/2015	244 mV @ 15 C	18.72	281.1	244.0		
								———		Post Cal
DO			H2O Saturated Air	N/A	100% H20 Sat. Air	18.93	132.0	99.2	0716	BP =
								———		Post Cal, BP =
Turbidity	2020 WE	26862	N/A	N/A	0 NTU	NA				
						NA		———		Post Cal
					10 NTU	NA				
						NA		———		Post Cal

BP = Barometric Pressure (mmHg)

Project Name: UTAI Plant 1/2 Facility

Project Number: 60312350-4213

Date: 5-7-14

Calibration Form

Parameter	Instrument Manf/Model	Instrument Serial No.	Standard Manf/Model	Standard SN/Exp. Date	Standard Value @ C	Ambient Temp. C	Initial Value	Adjusted Value	Initials & Time	Comments
pH 4.00	YSI 556MPS	08C101072	B4H130805 NC Labs	8-15	4.00 @ 25C	19.13	4.00	4.00	A.H 0721	
								-------		Post Cal
pH 7.00			B4H130903 NC Labs	9-15	7.00 @ 25C	19.65	7.18	7.00	A.H 0720	
								-------		Post Cal
pH 10.00			B5013 04129 NC Labs	4-15	10.00 @ 25C	19.29	10.04	10.01	A.H 0723	
								-------		Post Cal
Specific Cond.			13J100228 YSI 3167	3-15	1,000 uS/cm @ 25C	19.02	1011	1000	A.H 0718	
								-------		Post Cal
Specific Cond. (Check Only)					___ uS/cm @ 25C			-------		
								-------		Post Cal
Specific Cond. (Check Only)					___ uS/cm @ 25C			-------		
								-------		Post Cal
ORP			13L100163 Zobell	13L100163 11/15	244 mV @ 15 C	19.51	239.6	244	A.H 0724	
								-------		Post Cal
DO			H2O Saturated Air	—	100% H20 Sat. Air	19.36	123.9	96.9	A.H 0715	BP =
								-------		Post Cal, BP =
Turbidity	LaMotte 2020	2476-3312	—	—	0 NTU	NA	0.02	0.00	A.H 0725	
						NA		-------		Post Cal
					10 NTU	NA	10.10	10.00	A.H 0725	
						NA		-------		Post Cal

BP = Barometric Pressure (mmHg)

ACCUTEST LABORATORIES

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FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job #

Client / Reporting Information

Company Name: AECOM
Street Address: 27755 DIEHL RD SUITE 100
City / State / Zip: WARRENVILLE IL 60555
Project Contact / E-mail: PETER HOLLATZ / peter.hollatz@aecom.com
Phone # / Fax #: 630.839.5386 / 630.836.1711
Sampler(s) Name(s) / Phone #: N. PINS / A. HOLLATZ

Project Information

Project Name: UTAS PLANTS 1/2 FACILITY
Street:
City / State: ROCKFORD, IL
Project #: 60312350
Client Purchase Order #:
Project Manager: PETER HOLLATZ

Billing Information (if different from Report to)

Company Name:
Street Address:
City / State / Zip:
Attention:

Requested Analysis (see TEST CODE sheet): * 8260B VOCs

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	* 8260B VOCs	LAB USE ONLY
	HSSER-FBLK01-050614		5/6/14	0705	NP	GW	3	3								X	
	HSSER-SMW08-050614		↓	0810	NP	GW	3	3								X	
	HSSER-GMZ01-050614		↓	0915	NP	GW	3	3								X	
	HSSER-SMW01-050614		↓	1020	NP	GW	3	3								X	
	HSSER-SMW02-050614		↓	1120	NP	GW	3	3								X	
	HSSER-MW07FGA-050614		↓	1240	NP	GW	3	3								X	
	HSSER-MW203-050614		↓	1340	NP	GW	3	3								X	
	HSSER-SMW04-050614		↓	1530	NP	GW	3	3								X	
	HSSER-TRIP02-050614		↓	—	—	GW	3	3								X	
	HSSER-EBLK01-050714		5/7/14	0735	NP	GW	3	3								X	
	HSSER-PMW02-050714		↓	0825	NP	GW	3	3								X	
	HSSER-PMW01-050714		↓	0935	NP	GW	3	3								X	

Turnaround Time (Business days)

- [x] Std. 10 Business Days
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] other _____

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format _____
- [ ] Other _____

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

* LIST OF 13 VOCs
LEVEL IV DATA

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 NL T- (AECOM)	5/7/14 1800	1	2		2
3		3	4		4
5		5			

Custody Seal # ☐ Intact ☐ Not intact — Preserved where applicable ☐ — On ice ☐ — Cooler Temp.

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking #: | Bottle Order Control #:
Accutest Quote #: | Accutest Job #:

Client / Reporting Information

Company Name: AECOM
Street Address: 2755 Diehl Rd Suite #100
City: Warrenville State: IL Zip: 60555
Project Contact: Peter Hollatz E-mail: peter.hollatz@aecom.com
Phone #: 630.839.5386 Fax #: 630.836.1700
Sampler(s) Name(s): N. Pins / A. Hollatz Phone #:

Project Information

Project Name: UTAS PLANTS 1/2 FACILITY
Street:
City: Rockford State: IL
Project #: 60312350
Client Purchase Order #:
Project Manager: PETER HOLLATZ

Billing Information (if different from Report to)

Company Name:
Street Address:
City State Zip:
Attention:

Requested Analysis (see TEST CODE sheet): VOCs 8260 B *

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	VOCs 8260 B *	LAB USE ONLY
	HSSER-GMZ04-050714		5/7/14	0935	AH	GW	3	3								X	
	HSSER-GMZ02-050714			1035	NP	GW	3	3								X	
	HSSER-MS01-050714			1035	NP	GW	3	3								X	
	HSSER-MSD01-050714			1035	NP	GW	3	3								X	
	HSSER-SMW21-050714			1040	AH	GW	3	3								X	
	HSSER-SMW20-050714			1140	AH	GW	3	3								X	
	HSSER-SMW-19-050714			1145	NP	GW	3	3								X	
	HSSER-GMZ03-050714			1300	AH	GW	3	3								X	
	HSSER-DUP01-050714			0000	AH	GW	3	3								X	

Turnaround Time (Business days)

- [x] Std. 10 Business Days
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] other

Approved By (Accutest PM): / Date:

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler: 1 Nick T - (AECOM	Date Time: 5/7/14 1800	Received By: 1	Relinquished By: 2	Date Time:	Received By: 2
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal #	[ ] Intact [ ] Not intact	Preserved where applicable [ ] On Ice [ ] Cooler Temp.

AECOM

Well ID:	RAMW-01

Ground Water Sample Collection Record

Client: UTAS Plants 1/2 Facility Date: 5-7-14 Time: Start 0740 (24hr)
Project No: 60312350-4213 Finish 0845
Site Location: Rockford, Illinois
Weather: Overcast 40-50°F Collector(s): A. Hollatz

1. WELL and WATER LEVEL DATA: (measured from Top of Casing)

Total well length (ft): 46.03 Screen interval(ft): 15 Approx. depth of pump intake(ft): 38
Water table depth (ft): 31.24 Casing type/diameter: 2" PVC Minimum purge volume: 7.3 (gals)
Water column length (ft): 14.79 (calculations on reverse)

2. WELL PURGE DATA

Purge/Sample Method: Proactive SS Monsoon Pump

Well is stable when readings stabilize to +/- 10% over three (3) consecutive readings collected at 5-minute intervals.
If three (3) well volumes have been removed, and the readings have not stabilized, a sample shall be collected.

Field Testing Equipment Used:	Make	Model	Serial Number(s)
	YSI	556 MPS	08C01072
	Lamotte	2020	2476-3312
	Lamotte	Smart 2 Colorimeter	1039-0612
Begin purge at 0750			

Time (24hr)	Purge Vol. (ml)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
0755	2500	14.73	7.02	1123	236.7	4.33	16.2	500	31.24	clear/none
0800	5000	15.14	7.03	1125	232.7	3.71	12.42	500	31.24	↓
0805	7500	15.21	7.03	1143	222.2	3.50	5.95	500	31.24	↓
0810	10,000	15.21	7.03	1158	216.2	3.46	4.10	500	31.24	↓
0815	12,500	15.18	7.03	1161	212.1	3.33	2.37	500	31.24	↓
0820	15,000	15.26	7.03	1167	208.3	3.34	1.81	500	31.24	↓
0825	17,500	15.28	7.04	1172	205.0	3.33	1.77	500	31.24	↓
0830	20,000	15.31	7.04	1175	202.7	3.28	1.75	500	31.24	↓

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Sample Collector(s): [signature] Date: 5-7-14

SAMPLE COLLECTION DATA

Well ID: **RAMW-01**

Sample ID	Parameters	Bottles/Preservatives	Time (24 hr)	Flow Rate (ml/min)	Comments
HSSER-RAMW01-050714	VOC's	3 - 40mL Clear Vials	0830	300	
HSSER-FBLK02-050714	VOC's	3 - 40mL Clear Vials	0745	—	
	Ferrous Iron	mg/L	0.1		

VOCs - Volatile organic compounds

G - Glass
HCl - Hydrchloric acid

AECOM

Well ID:	RAMW-02

Ground Water Sample Collection Record

Client:	UTAS Plants 1/2 Facility	Date: 5-6-14	Time:	Start	1505 (24hr)
Project No:	60312350-4213			Finish	1610
Site Location:	Rockford, Illinois				
Weather:	Sunny 55-65°F	Collector(s):	A. Hellatz		

1. WELL and WATER LEVEL DATA: (measured from Top of Casing)

Total well length (ft):	44.85	Screen interval(ft):	15	Approx. depth of pump intake(ft):	37
Water table depth (ft):	31.09	Casing type/diameter:	2" PVC	Minimum purge volume:	6.8 (gals)
Water column length (ft):	13.76				(calculations on reverse)

2. WELL PURGE DATA

Purge/Sample Method: Proactive SS Monsoon Pump

Well is stable when readings stabilize to +/- 10% over three (3) consecutive readings collected at 5-minute intervals.
If three (3) well volumes have been removed, and the readings have not stabilized, a sample shall be collected.

Field Testing Equipment Used:	Make	Model	Serial Number(s)
	YSI	556 MPS	08L101072
	Lamotte	2020	2476-3312
	Lamotte	Smart 2 Colorimeter	1039-0612
Begin purge at 1510			

Time (24hr)	Purge Vol. (ml)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
1515	2500	15.87	7.30	1511	-14.2	3.88	44.9	500	31.09	cloudy/none
1520	5000	16.11	7.28	1533	4.7	2.97	25.2	500	31.14	clear/none
1525	7500	16.24	7.28	1560	35.6	3.03	12.87	500	31.14	
1530	10,000	16.25	7.28	1584	55.5	2.63	5.65	500	31.14	
1535	12,500	16.27	7.28	1596	71.9	3.59	2.70	500	31.14	
1540	15,000	16.37	7.27	1601	80.6	3.25	1.47	500	31.14	
1545	17,500	16.26	7.28	1611	85.6	2.46	1.11	500	31.14	
1550	20,000	16.31	7.27	1613	90.7	2.44	1.12	500	31.14	
1555	22,500	16.25	7.28	1620	92.5	2.66	1.09	500	31.14	

(continued on back)

Sample Collector(s): [signature] Date: 5-6-14

SAMPLE COLLECTION DATA

Well ID: **RAMW-02**

Sample ID	Parameters	Bottles/Preservatives	Time (24 hr)	Flow Rate (ml/min)	Comments
HSSER-RAMW02-050614	VOC's	3 - 40mL Clear Vials	1555	500	
HSSER-MS02- 050614	VOC's	3 - 40mL Clear Vials	1555	500	
HESSER-MSD02- 050614	VOC's	3 - 40mL Clear Vials	1555	500	
	Ferrous Iron	mg/L	0.2		

VOCs - Volatile organic compounds

G - Glass
HCl - Hydrchloric acid

AECOM

Well ID:	RAMW-03

Ground Water Sample Collection Record

Client:	UTAS Plants 1/2 Facility	Date: 5-6-14	Time:	Start	1355 (24hr)
Project No:	60312350-4213			Finish	1500
Site Location:	Rockford, Illinois				
Weather:	Sunny 55-65°F	Collector(s):	A. Hellatz		

1. WELL and WATER LEVEL DATA: (measured from Top of Casing)

Total well length (ft): 45.34 Screen interval(ft): 15 Approx. depth of pump intake(ft): 38

Water table depth (ft): 30.92 Casing type/diameter: 2" PVC Minimum purge volume: 7.1 (gals)

Water column length (ft): 14.42 (calculations on reverse)

2. WELL PURGE DATA

Purge/Sample Method: Proactive SS Monsoon Pump

Well is stable when readings stabilize to +/- 10% over three (3) consecutive readings collected at 5-minute intervals. If three (3) well volumes have been removed, and the readings have not stabilized, a sample shall be collected.

Field Testing Equipment Used:	Make	Model	Serial Number(s)
	YSI	556 MPS	08C101072
	Lamotte	2020	2476-3312
	Lamotte	Smart 2 Colorimeter	1038-0612
Begin purge at 1405			

Time (24hr)	Purge Vol. (ml)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
1415	5000	18.44	7.28	1056	103.4	5.58	11.71	500	30.92	clear/none
1420	7500	18.59	7.26	1110	95.4	4.12	7.91	500	30.92	↓
1425	10,000	18.78	7.26	1135	89.3	4.47	4.46	500	30.92	↓
1430	12,500	18.83	7.26	1156	85.4	3.18	4.10	500	30.92	↓
1435	15,000	18.81	7.26	1171	84.5	3.07	2.97	500	30.92	↓
1440	17,500	18.85	7.26	1180	83.5	3.02	3.04	500	30.92	↓
1445	20,000	18.77	7.26	1186	81.7	3.01	2.95	500	30.92	↓

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Sample Collector(s): [signature] Date: 5-6-14

SAMPLE COLLECTION DATA

Well ID: **RAMW-03**

Sample ID	Parameters	Bottles/Preservatives	Time (24 hr)	Flow Rate (ml/min)	Comments
HSSER-RAMW03-050614	VOC's	3 - 40mL Clear Vials	1445	500	
HSSER-Dup02- 050614	VOC's	3 - 40mL Clear Vials	1445	500	
	Ferrous Iron	mg/L	0.1		

VOCs - Volatile organic compounds

G - Glass
HCl - Hydrchloric acid

AECOM

Well ID:	RAMW-04

Ground Water Sample Collection Record

Client:	UTAS Plants 1/2 Facility	Date: 5-6-14	Time:	Start	1125 (24hr)
Project No:	60312350-4213			Finish	1345
Site Location:	Rockford, Illinois				
Weather:	Sunny 60-70°F	Collector(s):	A. Hollatz		

1. WELL and WATER LEVEL DATA: (measured from Top of Casing)

Total well length (ft):	44.98	Screen interval(ft):	15	Approx. depth of pump intake(ft):	41
Water table depth (ft):	30.77	Casing type/diameter:	2" PVC	Minimum purge volume:	7.0 (gals)
Water column length (ft):	14.21				(calculations on reverse)

2. WELL PURGE DATA

Purge/Sample Method: Proactive SS Monsoon Pump

Well is stable when readings stabilize to +/- 10% over three (3) consecutive readings collected at 5-minute intervals.
If three (3) well volumes have been removed, and the readings have not stabilized, a sample shall be collected.

Field Testing Equipment Used:	Make	Model	Serial Number(s)
	YSI	556 MPS	06C101072
	Lamotte	2020	2476-3312
	Lamotte	Smart 2 Colorimeter	1039-0612
Begin purge at 1235			

Time (24hr)	Purge Vol. (ml)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
1240	2500	16.92	7.53	928	75.0	2.04	16.6	500	30.77	clear/none
1245	5000	17.95	7.54	927	72.1	2.07	9.91	500	30.80	
1250	7500	17.44	7.52	928	65.2	0.94	4.39	500	30.80	
1255	10,000	17.49	7.53	933	62.8	1.50	1.91	500	30.80	
1300	12,500	17.47	7.53	935	59.7	1.35	2.62	500	30.80	
1305	15,000	17.55	7.53	935	57.8	1.07	1.15	500	30.80	
1310	17,500	17.53	7.52	934	54.0	1.36	0.86	500	30.80	
1315	20,000	17.64	7.52	933	52.0	1.48	1.00	500	30.80	
1320	22,500	17.70	7.52	930	50.6	1.11	0.77	500	30.80	
1325	25,000	17.78	7.52	928	51.8	0.83	1.83	500	30.80	
1330	27,500	17.61	7.52	927	51.0	0.87	0.43	500	30.80	
	* Parameters not stable, 3 well volumes removed, Sample collected									

(continued on back)

Sample Collector(s): [signature] Date: 5-6-14

SAMPLE COLLECTION DATA

Well ID: **RAMW-04**

Sample ID	Parameters	Bottles/Preservatives	Time (24 hr)	Flow Rate (ml/min)	Comments
HSSER-RAMW04-050614	VOC's	3 - 40mL Clear Vials	1330	500	
HSSER-EBLK02- 050614	VOC's	3 - 40mL Clear Vials	1230	—	
	Ferrous Iron	mg/L	0.0		

VOCs - Volatile organic compounds

G - Glass
HCl - Hydrchloric acid

AECOM

Well ID:	RAMW-05

Ground Water Sample Collection Record

Client:	UTAS Plants 1/2 Facility	Date: 5-6-14	Time:	Start	1113 (24hr)
Project No:	60312350-4213			Finish	1220
Site Location:	Rockford, Illinois				
Weather:	Sunny 55-65°F	Collector(s):	B. Hellatz		

1. **WELL and WATER LEVEL DATA: (measured from Top of Casing)**

Total well length (ft): 43.79 Screen interval(ft): 15 Approx. depth of pump intake(ft): 36
Water table depth (ft): 29.66 Casing type/diameter: 2" PVC Minimum purge volume: 7.0 (gals)
Water column length (ft): 14.13 (calculations on reverse)

2. **WELL PURGE DATA**

Purge/Sample Method: Proactive SS Monsoon Pump

Well is stable when readings stabilize to +/- 10% over three (3) consecutive readings collected at 5-minute intervals.
If three (3) well volumes have been removed, and the readings have not stabilized, a sample shall be collected.

Field Testing Equipment Used:	Make	Model	Serial Number(s)
	YSI	556 MPS	08G101072
	Lamotte	2020	2476-3317
	Lamotte	Smart 2 Colorimeter	1039-0612

Begin purge at 1115

Time (24hr)	Purge Vol. (ml)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
1125	5000	15.53	8.01	1011	83.4	9.46	40.7	500	29.66	cloudy/none
1130	7500	15.58	8.01	1001	83.2	9.14	21.5	500	29.68	clear/none
1135	10,000	15.82	8.01	1000	79.3	8.93	10.29	500	29.68	
1140	12,500	15.84	8.01	992	79.5	8.87	5.39	500	29.68	
1145	15,000	15.95	8.01	991	79.6	8.77	3.18	500	29.68	
1150	17,500	15.97	8.01	989	78.3	8.80	2.31	500	29.68	
1155	20,000	16.00	8.01	989	77.9	8.81	0.92	500	29.68	
1200	22,500	16.05	8.01	990	76.3	8.89	0.47	500	29.68	
1205	25,000	16.13	8.01	987	80.8	8.49	0.45	500	29.68	
1210	27,500	16.18	8.01	986	80.9	8.84	0.51	500	29.68	
	* Turbidity not stable. 3 well volumes removed, Sample collected.									

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Sample Collector(s): [signature] Date: 5-6-14

SAMPLE COLLECTION DATA

Well ID: **RAMW-05**

Sample ID	Parameters	Bottles/Preservatives	Time (24 hr)	Flow Rate (ml/min)	Comments
HSSER-RAMW05-050614	VOC's	3 - 40mL Clear Vials	1210	500	
	Ferrous Iron	mg/L	0.2		

VOCs - Volatile organic compounds

G - Glass
HCl - Hydrchloric acid

AECOM

Well ID:	RAMW-06

Ground Water Sample Collection Record

Client:	UTAS Plants 1/2 Facility	Date: 5-6-14	Time:	Start	1000 (24hr)
Project No:	60312350-4213			Finish	1100
Site Location:	Rockford, Illinois				
Weather:	Sunny 50-60°F	Collector(s):	A. Holtz		

1. WELL and WATER LEVEL DATA: (measured from Top of Casing)

Total well length (ft):	44.30	Screen interval(ft):	15	Approx. depth of pump intake(ft):	37
Water table depth (ft):	29.68	Casing type/diameter:	2" PVC	Minimum purge volume:	7.2 (gals)
Water column length (ft):	14.62				(calculations on reverse)

2. WELL PURGE DATA

Purge/Sample Method: Proactive SS Monsoon Pump

Well is stable when readings stabilize to +/- 10% over three (3) consecutive readings collected at 5-minute intervals.
If three (3) well volumes have been removed, and the readings have not stabilized, a sample shall be collected.

Field Testing Equipment Used:	Make	Model	Serial Number(s)
	YSI	556 MPS	08C101073
	Lamotte	2020	24776-3312
	Lamotte	Smart 2 Colorimeter	1039-0612
Begin purge at 1005			

Time (24hr)	Purge Vol. (ml)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
1015	5000	15.60	8.06	1012	101.3	9.36	0.75	500	29.68	clear/none
1020	7500	15.75	8.09	962	62.4	9.08	0.19	500	29.70	
1025	10000	15.63	8.10	940	105.1	8.92	0.79	500	29.70	
1030	12,500	15.92	8.10	929	64.9	9.06	0.76	500	29.70	
1035	15,000	16.07	8.11	907	74.9	9.18	0.78	500	29.70	
1040	17,500	16.05	8.11	906	79.5	9.09	0.81	500	29.70	
1045	20,000	15.89	8.11	907	76.4	8.77	0.80	500	29.70	

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Sample Collector(s): [signature] Date: 5-6-14

SAMPLE COLLECTION DATA

Well ID: **RAMW-06**

Sample ID	Parameters	Bottles/Preservatives	Time (24 hr)	Flow Rate (ml/min)	Comments
HSSER-RAMW06-050614	VOC's	3 - 40mL Clear Vials	1045	500	
	Ferrous Iron	mg/L	0.2		

VOCs - Volatile organic compounds

G - Glass
HCl - Hydrchloric acid

AECOM

Well ID:	RAMW-07

Ground Water Sample Collection Record

Client: UTAS Plants 1/2 Facility Date: 5-6-14 Time: Start 0855 (24hr)
Project No: 60312350-4213 Finish 0950
Site Location: Rockford, Illinois
Weather: Sunny 50-55°F Collector(s): A. Hellatz

1. WELL and WATER LEVEL DATA: (measured from Top of Casing)

Total well length (ft): 48.66 Screen interval(ft): 15 Approx. depth of pump intake(ft): 41
Water table depth (ft): 34.18 Casing type/diameter: 2" PVC Minimum purge volume: 7.1 (gals)
Water column length (ft): 14.47 (calculations on reverse)

2. WELL PURGE DATA

Purge/Sample Method: Proactive SS Monsoon Pump

Well is stable when readings stabilize to +/- 10% over three (3) consecutive readings collected at 5-minute intervals.
If three (3) well volumes have been removed, and the readings have not stabilized, a sample shall be collected.

Field Testing Equipment Used:	Make	Model	Serial Number(s)
	YSI	556 MPS	06C101072
	Lamotte	2020	2476-3312
	Lamotte	Smart 2 Colorimeter	1039-0612

Begin purge at 0900

Time (24hr)	Purge Vol. (ml)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
0905	2500	16.23	7.03	1875	24.5	2.91	2.00	500	34.18	Clear/none
0910	5000	16.67	7.03	1878	33.2	1.88	1.46	500	34.18	
0915	7500	16.30	7.03	1878	39.1	1.81	0.46	500	34.18	
0920	10,000	16.46	7.02	1872	41.3	1.51	0.29	500	34.18	
0925	12,500	16.56	7.03	1871	45.6	1.51	0.21	500	34.18	
0930	15,000	16.65	7.03	1871	49.1	1.39	0.20	500	34.18	
0935	17,500	16.97	7.02	1865	50.6	1.46	0.21	500	34.18	
0940	20,000	17.05	7.03	1873	53.3	1.40	0.21	500	34.18	

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Sample Collector(s): [signature] Date: 5-6-14

SAMPLE COLLECTION DATA

Well ID: **RAMW-07**

Sample ID	Parameters	Bottles/Preservatives	Time (24 hr)	Flow Rate (ml/min)	Comments
HSSER-RAMW07-056614	VOC's	3 - 40mL Clear Vials	0940	500	
	Ferrous Iron	mg/L	0.2		

VOCs - Volatile organic compounds

G - Glass
HCl - Hydrchloric acid

AECOM

Well ID:	RAMW-08

Ground Water Sample Collection Record

Client:	UTAS Plants 1/2 Facility	Date: 5-6-14	Time:	Start	0730 (24hr)
Project No:	60312350-4213			Finish	0845
Site Location:	Rockford, Illinois				
Weather:	Clear 45-50°F	Collector(s):	A. Hollatz		

1. WELL and WATER LEVEL DATA: (measured from Top of Casing)

Total well length (ft):	44.33	Screen interval(ft):	15	Approx. depth of pump intake(ft):	37
Water table depth (ft):	30.31	Casing type/diameter:	2" PVC	Minimum purge volume:	7.0 (gals)
Water column length (ft):	14.02				(calculations on reverse)

2. WELL PURGE DATA

Purge/Sample Method: Proactive SS Monsoon Pump

Well is stable when readings stabilize to +/- 10% over three (3) consecutive readings collected at 5-minute intervals.
If three (3) well volumes have been removed, and the readings have not stabilized, a sample shall be collected.

Field Testing Equipment Used:	Make	Model	Serial Number(s)
	YSI	556 MPS	08C10107.2
	Lamotte	2020	2476-3312
	Lamotte	Smart 2 Colorimeter	1039-06-12
Begin purge at 0735			

Time (24hr)	Purge Vol. (ml)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
0745	5000	15.78	7.07	1772	-163.2	1.73	130	500	30.31	Black/none
0750	7500	16.02	7.07	1778	-133.2	1.06	131	500	30.39	↓
0755	10000	17.61	7.06	1857	-170.4	0.78	21.7	500	30.40	↓
0800	12500	16.48	7.06	1887	-205.1	0.77	21.1	500	30.41	↓
0805	15000	18.36	7.07	1973	-184.8	0.78	16.40	500	30.82	clear/none
0810	17500	17.63	7.08	1825	-164.4	0.73	12.9	500	30.68	↓
0815	20,000	17.54	7.08	1848	-149.5	0.77	10.41	500	30.70	↓
0820	22,500	17.23	7.09	1831	-138.3	0.74	8.38	500	30.49	↓
0825	25,000	17.36	7.07	2025	-121.1	0.82	6.92	500	30.55	↓
0830	27,500	17.40	7.07	2069	-108.1	1.01	6.08	500	30.56	↓
	* Parameters not stable, 3 well volumes removed, Sample collected.									

(continued on back)

Sample Collector(s): [signature] Date: 5-6-14

SAMPLE COLLECTION DATA

Well ID: **RAMW-08**

Sample ID	Parameters	Bottles/Preservatives	Time (24 hr)	Flow Rate (ml/min)	Comments
HSSER-RAMW08-0506.14	VOC's	3 - 40mL Clear Vials	0830	500	
	Ferrous Iron	mg/L	6.1		

VOCs - Volatile organic compounds

G - Glass
HCl - Hydrchloric acid

Project Name: UTC PLANT 1

Project Number: 60312350.4213

Date: 5/6/2014

N. PINS

Calibration Form

Parameter	Instrument Manf/Model	Instrument Serial No.	Standard Manf/Model	Standard SN/Exp. Date	Standard Value @ __C	Ambient Temp. C	Initial Value	Adjusted Value	Initials & Time	Comments
pH 4.00	556 MPS	11F53	B44130805 NC LABS	8/2015	4.00 @ 25C	18.01	4.02	4.00	0651	
								--------		Post Cal
pH 7.00			B47130903 NC LABS	9/2015	7.00 @ 25C		7.10	7.00	0648	
						18.10		--------		Post Cal
pH 10.00			B50130429 NC LABS	4/2015	10.00 @ 25C		9.83	9.97	0654	
								--------		Post Cal
Specific Cond.			13J100278 YSI 3167	3/2015	1,000 uS/cm @ 25C	18.06	969	1000	0645	
								--------		Post Cal
Specific Cond. (Check Only)					___uS/cm @ 25C			--------		
								--------		Post Cal
Specific Cond. (Check Only)					___uS/cm @ 25C			--------		
								--------		Post Cal
ORP			13L 100163	11/2015	244 mV @ 20. C	18.72	238.1	244.0	0658	
								--------		Post Cal
DO			H2O Saturated Air	N/A	100% H20 Sat. Air	16.42	96.2	99.7	0640	BP =
								--------		Post Cal, BP =
Turbidity	2020 WE	26862	N/A	N/A	0 NTU	NA	0.11	0.00	0647	
						NA		--------		Post Cal
					10 NTU	NA	10.07	10.00	0655	
						NA		--------		Post Cal

BP = Barometric Pressure (mmHg)

Project Name: UTAS. Plant 1/2 Facility

Project Number: 60312350-4213

Date: 5-6-14

Calibration Form

Parameter	Instrument Manf/Model	Instrument Serial No.	Standard Manf/Model	Standard SN/Exp. Date	Standard Value @ C	Ambient Temp. C	Initial Value	Adjusted Value	Initials & Time	Comments
pH 4.00	YSI 556MPS	08C101072	B4L130805 NC Labs	8-15	4.00 @ 25C	19.23	4.03	4.00	A.H. 0650	
								---		Post Cal
pH 7.00			B4T130903 NC Labs	9-15	7.00 @ 25C	19.56	7.08	7.00	A.H. 0654	
								---		Post Cal
pH 10.00			B5O130429 NC Labs	4-15	10.00 @ 25C	19.36	10.06	10.01	A.H. 0658	
								---		Post Cal
Specific Cond.			13S100278 YSI 3167	3-15	1,000 uS/cm @ 25C	19.21	1024	1000	A.H. 0652	
								---		Post Cal
Specific Cond. (Check Only)					___ uS/cm @ 25C			---		
								---		Post Cal
Specific Cond. (Check Only)					___ uS/cm @ 25C			---		
								---		Post Cal
ORP			13L100163 Zobell	11-15	244 mV @ 15 C	19.63	238.7	244.0	A.H. 0700	
								---		Post Cal
DO			H2O Saturated Air	—	100% H20 Sat. Air	18.53	98.2	96.9	A.H. 0650	BP =
								---		Post Cal, BP =
Turbidity	LaMotte 2020	2476-3312	—	—	0 NTU	NA	0.01	0.00	0700 A.H.	
						NA		---		Post Cal
					10 NTU	NA	10.04	10.01	0700 A.H.	
						NA		---		Post Cal

BP = Barometric Pressure (mmHg)

Project Name: UTC PLANT 1

Project Number: 60312350.4213

Date: 5/7/2014

N. Pins

Calibration Form

Parameter	Instrument Manf/Model	Instrument Serial No.	Standard Manf/Model	Standard SN/Exp. Date	Standard Value @ __C	Ambient Temp. C	Initial Value	Adjusted Value	Initials & Time	Comments
pH 4.00	556 MPS	11F53	B44130805 NC LABS	8/2015	4.00 @ 25C	18.40	4.02	4.00	0723	
								---		Post Cal
pH 7.00			B47130903 NC LABS	9/2015	7.00 @ 25C	18.85	7.08	7.00	0721	
								---		Post Cal
pH 10.00			B50130429 NC LABS	4/2015	10.00 @ 25C	18.57	10.04	10.01	0725	
								---		Post Cal
Specific Cond.			13J100278 Ysi 3167	3/2015	1,000 uS/cm @ 25C	18.23	1006	1000	0719	
								---		Post Cal
Specific Cond. (Check Only)					___uS/cm @ 25C			---		
								---		Post Cal
Specific Cond. (Check Only)					___uS/cm @ 25C			---		
								---		Post Cal
ORP			13L 100163	11/2015	244 mV @ 15 C	18.72	281.1	244.0		
								---		Post Cal
DO			H2O Saturated Air	N/A	100% H20 Sat. Air	18.93	132.0	99.2	0716	BP =
								---		Post Cal, BP =
Turbidity	2020 WE	26862	N/A	N/A	0 NTU	NA				
						NA		---		Post Cal
					10 NTU	NA				
						NA		---		Post Cal

BP = Barometric Pressure (mmHg)

Project Name: UTAH Plant V2 Facility

Project Number: 60312350-4213

Date: 5-7-14

Calibration Form

Parameter	Instrument Manf/Model	Instrument Serial No.	Standard Manf/Model	Standard SN/Exp. Date	Standard Value @ C	Ambient Temp. C	Initial Value	Adjusted Value	Initials & Time	Comments
pH 4.00	YSI 556MPS	09C101072	B4C1130805 NC Labs	8-15	4.00 @ 25C	19.13	4.00	4.00	A.H. 0721	
								—		Post Cal
pH 7.00			B4J130903 NC Labs	9-15	7.00 @ 25C	19.65	7.18	7.00	A.H. 0720	
								—		Post Cal
pH 10.00			B5C13 04129 NC Labs	4-15	10.00 @ 25C	19.29	10.04	10.01	A.H. 0723	
								—		Post Cal
Specific Cond.			13J100278 YSI 3167	3-15	1,000 uS/cm @ 25C	19.02	1011	1000	A.H. 0718	
								—		Post Cal
Specific Cond. (Check Only)					___ uS/cm @ 25C			—		
								—		Post Cal
Specific Cond. (Check Only)					___ uS/cm @ 25C			—		
								—		Post Cal
ORP			13L100163 Zobell	13L100163 11/15	244 mV @ 15 C	19.51	239.6	244	A.H. 0724	
								—		Post Cal
DO			H2O Saturated Air	—	100% H20 Sat. Air	19.36	123.9	96.9	A.H. 0715	BP =
								—		Post Cal, BP =
Turbidity	LaMotte 2020	2476-3312	—	—	0 NTU	NA	0.02	0.00	A.H. 0725	
						NA		—		Post Cal
					10 NTU	NA	10.10	10.00	A.H. 0725	
						NA		—		Post Cal

BP = Barometric Pressure (mmHg)

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking #: | Bottle Order Control #:
Accutest Quote #: | Accutest Job #:

Client / Reporting Information

Company Name: AECOM
Street Address: 27755 DIEHL RD SUITE # 100
City / State / Zip: WARRENVILLE IL 60555
Project Contact / E-mail: PETER HOLLATZ / peter.hollatz@aecom.com
Phone # / Fax #: 630.839.5386 / 630.836.1711
Sampler(s) Name(s) / Phone #: N. PINS / A. HOLLATZ

Project Information

Project Name: UTAS PLANTS 1/2 FACILITY
Street:
City / State: ROCKFORD, IL
Project #: 60312350
Client Purchase Order #:
Project Manager: PETER HOLLATZ

Billing Information (if different from Report to)
Company Name:
Street Address:
City / State / Zip:
Attention:

Requested Analysis (see TEST CODE sheet): * VOCs 8260 B

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	* VOCs 8260 B	LAB USE ONLY
	HSSER-RAMW08-050614		5/6/14	0830	AH	GW	3	3								X	
	HSSER-RAMW07-050614			0940	AH	GW	3	3								X	
	HSSER-RAMW06-050614			1045	AH	GW	3	3								X	
	HSSER-RAMW05-050614			1210	AH	GW	3	3								X	
	HSSER-EBLK02-050614			1230	AH	GW	3	3								X	
	HSSER-RAMW04-050614			1330	AH	GW	3	3								X	
	HSSER-RAMW03-050614			1445	AH	GW	3	3								X	
	HSSER-RAMW02-050614			1555	AH	GW	3	3								X	
	HSSER-MS02-050614			1555	AH	GW	3	3								X	
	HSSER-MSD02-050614			1555	AH	GW	3	3								X	
	HSSER-DUP02-050614			0000	AH	GW	3	3								X	
	HSSER-TRIP01-050614			-	-	GW	3	3								X	

Turnaround Time (Business days)

- [x] Std. 10 Business Days
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] other _____

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format _____
- [ ] Other _____

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

* LIST OF 13 VOCs
LEVEL IV DATA

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	Nick P. (AECOM)	5/7/14 1800	1	2		2
3			3	4		4
5	Relinquished by:		Received By: 5	Custody Seal # ☐ Intact ☐ Not intact	Preserved where applicable ☐	On Ice ☐ Cooler Temp.

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking #: | Bottle Order Control #:
Accutest Quote #: | Accutest Job #:

Client / Reporting Information

Company Name: AECOM
Street Address: 27755 DIEHL RD SUITE #100
City / State / Zip: WARRENVILLE IL 60555
Project Contact / E-mail: PETER HOLLATZ / peter.holbrte@aecom.com
Phone # / Fax #: 630.839.5386 / 630.836.1711
Sampler(s) Name(s) / Phone #:

Project Information

Project Name: UTAS PLANTS 1/2 FACILITY
Street:
City / State: ROCKFORD IL
Project #: 60312350
Client Purchase Order #:
Project Manager: PETER HOLLATZ

Billing Information (if different from Report to)

Company Name:
Street Address:
City / State / Zip:
Attention:

Requested Analysis (see TEST CODE sheet)

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	VOCs 8260B *										LAB USE ONLY
	HSSER-FBLK02-050714		05/7/14	0745	AH	GW	3	3								X										
	HSSER-RAMW01-050714		5/7/14	0830	AH	GW	3	3								X										

Turnaround Time (Business days)

- [x] Std. 10 Business Days
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] other _____

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format _____
- [ ] Other _____

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

* LIST OF 13 VOCs
LEVEL IV DATA

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	Nick P - (AECOM)	5/7/14 1800	1	2		2
3			3	4		4
5			5			

Custody Seal #: [ ] Intact [ ] Not intact | Preserved where applicable [ ] | On Ice [ ] | Cooler Temp.

E

E

Appendix E

Third Quarter 2014 Progress Report

AECOM

Submitted to:
UTC Aerospace Systems
Rockford, IL

Submitted by:
AECOM
Warrenville, IL
60312350
September 2014

QUARTERLY PROGRESS REPORT – Third Quarter 2014 (June 2014 – August 2014)

UTC Aerospace Systems Plants 1/2 Facility
Southeast Rockford Groundwater Contamination
Superfund Site
2421 11th Street
Rockford, Illinois 61104
ILD981000417, ILD010219665
AECOM Project No. 60312350

This Quarterly Progress Report has been prepared on behalf of UTC Aerospace Systems (UTAS, fka Hamilton Sundstrand or HS) by AECOM Technical Services Inc. (AECOM). This report summarizes activities that occurred during the months of June, July, and August of the Third Quarter of 2014 at the above-referenced facility.

Progress Report- Reporting Quarters			
Q1	December	January	February
Q2	March	April	May
Q3	June	July	August
Q4	September	October	November

This report is the twenty-fourth in the series of Quarterly Progress Reports and consistent with United States Environmental Protection Agency (USEPA) approval of combining project reporting documents from a letter dated April 15, 2011. Quarterly Progress Reports are included as attachments to the Groundwater Management Zone (GMZ) Monitoring and System Performances Reports.

This Quarterly Progress Report follows the requirements outlined in Section X of the Consent Decree (CD) and includes the following:

Actions taken during the prior quarter to maintain compliance with the CD:

- Summaries of sampling results and tests;
- An identification of work plans and other deliverables completed in accordance with the CD;
- Actions scheduled for the next quarter;
- Information on the progress, percentage of completion, delays, and efforts to mitigate delays;
- Modifications to Work Plans and/or schedules; and
- Activities undertaken in support of the Community Relations Plan.

Each of these sections is described in more detail below.

Actions Taken During the Third Quarter to Achieve Compliance with the Consent Decree

The following actions were taken during June, July and August of the Third Quarter of 2014:

- On June 10, 2014, AECOM submitted to the USEPA the First Quarter GMZ Monitoring and System Performance Report;
- Phase 1 and Phase 2 AS/SVE system air sampling of the SVE system effluent prior to the system being deactivated (switched to the pulse-off mode). SVE process air effluent sampling was conducted on July 23, 2014;
- On July 8, 2014, AECOM provide response to comments to USEPA comments (May 7, 2014) on the 2013 Annual GMZ Monitoring and System Performance Report;

- AECOM completed GMZ and performance well quarterly monitoring (3rd quarter 2014) well network sampling between August 4 and August 6, 2014. The following wells were sampled for volatile organic compounds (VOCs): GMZ wells (which include the Phase 1 AS/SVE performance monitoring network) SMW01, SMW02, SMW04, SMW08, SMW19, SMW20, SMW21, MW07FG, MW203, GMZ01, GMZ02, GMZ03, GMZ04, PMW01 and PMW02; and performance monitoring wells RAMW01 RAMW02, RAMW03, RAMW04, RAMW05, RAMW06, RAMW07, and RAMW08.

Summary of Sampling and Tests

- Three process air samples were collected from the Phase 1 AS/SVE system effluent during the July 23, 2014 sampling event; and
- Two process air samples were collected from the Phase 2 AS/SVE system effluent during the July 23, 2014 sampling event.
- The 3rd quarter 2014 GMZ and performance well quarterly monitoring event was completed between August 4 and August 6, 2014.

Work Plans and Other Deliverables Completed In Accordance With the CD

- The *First Quarter GMZ Monitoring and System Performance Report, Area 9/10 Remedial Action* (June 2014) was submitted in accordance with Section X, paragraph 30 of the CD and consistent with Section V of the Statement of Work (SOW).

Actions Scheduled for Next Quarter

The following actions are scheduled for the next quarter:

- Operation of the Phase 1 and Phase 2 AS/SVE systems will be in pulse-off mode (system not in operation) to approximately September 22, 2014;
- Operation of the Phase 1 and Phase 2 AS/SVE systems will be in pulse-on mode (system in run mode) from approximately September 22, 2014 and approximately November 21, 2014; and
- Completion of the Fourth Quarter 2014 Groundwater Monitoring event in December 2014. The monitoring event will include the GMZ monitoring well network (which includes the Phase 1 AS/SVE performance monitoring network) and the Phase 2 AS/SVE performance monitoring network.

Percentage of Completion/Anticipated Delays

There are 39 specific deliverables or activities required to be completed as part of the CD. Some of these are ongoing activities and others, such as submittal of documents, require approval by the USEPA/Illinois Environmental Protection Agency to fulfill the requirements of the CD. To date, UTAS has completed their current obligations for 28 of the 39 items or 69%. There are currently no anticipated delays to the schedule.

Modifications to Work Plans/Schedules Proposed

None

Activities Undertaken In Support of Community Relations Plan

No activities are required with regard to the Community Relations Plan at this time.