

XXX Primary School in community A
4th Grade Observations

4th Grade Observations: Monday July 27, 2015 (T1)	
0715	School starts, some morning "assembly" – lines of students outside each classroom
0730	Observers sit down outside classrooms, teachers greet us Students still filing into classes Each grade has their own water container with spigot sitting on chair with bowl underneath Some children were filling the containers with water from bucket with cup, added 1 cup of something (probably bleach) Each grade also has one black bucket of water with lid and red cup on top
0740	Grade 4A teacher arrives
0747	Female delivers metal plates (~20) to outside classroom She also carries buckets and water containers back and forth to classrooms
0753	She places 1 water container outside Grade 4A's classroom
0800	Male walks past 7 th grade classrooms with bell 4 th Grade teacher walks from one classroom into other room
0806	Teacher returns to classroom Female delivers metal plates inside classroom, and takes buckets from outside
0810	Same female delivers bucket outside classroom
0824	4 th Grade teacher speaks outside rom
0828	1 child runs out of class then runs back
0840	Grade 4A teacher returns to classroom
0842	Male walks to latrine (not in 4 th grade)
0847	Male teacher walks out again Younger children (~30) all run to latrines with backpacks on
0850	Adult female delivers large bucket to one classroom Children walk back from latrine, Grade 4A teacher returns
0855	Another classroom runs to latrine
0858	Children run back to class from latrine
0902	Grade 4A teacher stands outside classroom
0931	Students walk to water containers to rinse hands (for about 10 to 15 seconds) one at a time with other students are waiting in line behind Students dump the contents of the bowl from underneath the hand rinse container into the nearby plants then replace it underneath spigot Grade 4A teacher stands outside classroom again
0939	Male drinks water from black bucket with cup 1 red cup/mug sits atop bucket lid, but male student brings different cup Some students have snacks and lunchboxes
0944	Male refills 1 hand washing jug at central spigot by (2) Jojo tanks No soap observed

	Students are eating chips and pre-packaged snacks from bright-colored packages
0947	Waiting line for hand rinse decreases in length Some students are slowly returning to classrooms Some students are walking around with the silver plates
0951	Grade 4A teacher walks out with bread and other items
0957	2 children drink from black bucket with the communal cup
1000	Screaching bells signals end of recess 6 students drink 1-2 cups each 4 th graders switch classrooms
1007	Women collect bucket with used plates from just inside the 4 th grade rooms
1010	All children are back inside classrooms
1016	Grade 4B teacher leaves classroom to fill the spigoted water container with water from the black drinking bucket, leaves empty bucket outside classroom 2 students take bucket to fill at central spigot, replace outside classroom
1021	Boys pour out hand rinse receiving bowl Teacher replaces cup on top of bucket lid All return to classroom Women wash cups at central spigot
1114	1 student enters classroom, another exits
1117	~10 other students run to latrine (not 4 th grade)
1122	Some of students at latrine return
1132	1 male student leaves classroom for latrine
1136	1 male students runs to latrine
1137	1 male returns and rinses hands at water container with spigot
1141	1 child rinses hands and drinks water with cup, 1 female drinks water with cup Teacher walks outside to barrels with personal mug
1143	1 female drinks from bucket with cup The drinking water buckets are partially covered with lid 1 female pours out water tray from drinking water 1 male drinks water with mug
1148	1 male rinses hands 1 female drinks water with mug 1 female leaves for restroom
1211	1 male rinses hands at water container with spigot Grade 4B teacher walks around outside
1222	1 female rinses hands outside classroom then drinks using communal cup
1234	4 th grade students exit classrooms and switch 1 male drinks with mug, 2 females also drink with same mug
1236	1 female drinks with same mug All students done switching classrooms
1240	1 female walked in from latrine but did not wash hands Observers leave school

4th Grade Observations: Thursday July 23, 2015 (T1)

1002	Observers arrive Children returning to classrooms after snack Line waiting to rinse hands outside classroom 1 male drinks water with communal mug
1004	Some children still returning plates to stack inside classroom 1 female puts plates stack outside door She and 1 male use communal mug to drink from bucket
1007	1 female dumps full water rinse tray into nearby bush Was almost empty
1008	All students currently in classrooms
1010	Grade 4A teacher stands outside classroom speaking to children then walks towards main office
1011	2 females collect bin with plates and half-empty box of milk cartons Grade 4A teacher returns to classroom There are mostly empty boxes of milk cartons outside most classes There are 5 red mugs lined up inside windowsill of Grade 4B
1051	1 male goes to latrine
1055	1 male returns from latrine, not sure if he rinses hands (Mulalo says he rinsed hands) 1 female goes to latrine Many students not wearing shoes
1104	2 males from 4B drink 1 cup, both use their own mugs they bring with them Grade 4B teacher returns
1109	Classrooms switch
1111	All students are back in classrooms
1135	1 female rinses hands outside 4A
1141	Grade 4A teachers leave class
1142	1 female from 4B goes to latrine
1143	Grade 4A teacher returns to class
1145	1 female from 4B rinses hands and returns to class
1155	Grade 4B teacher leaves class
1156	1 female from 4B drinks water from bucket and takes the cup to class
1204	2 males from 4A leave class to latrine 4A teacher outside class talking to principal
1205	4B teacher returns to class
1207	2 males from 4B return from latrine and want to rinse hands but the water has run out, they go to fill up the water container
1210	1 male from 4B leaves to latrine 1 male returns with a full water container and returns to class
1212	1 female goes into class to talk to the teacher (not sure if she is a teacher)
1213	1 female and 1 male from 4B rinse hands and go back to class Cups used to drink water are lined up by the window inside classroom
1219	1 female from 4A rinses hands and goes to class

1224	1 female from 4B leaves classroom to the staff room
1226	1 female from 4B returns to class 1 female from 4A rinses hands and goes to class
1237	1 female from 4A leaves class to the latrine 4B teacher leaves class
1239	1 male from 4B returns to class from latrine (not sure if he rinsed hands) 1 male from 4A leaves class to the latrine
1240	1 male from 4A goes to 4B 2 females from 4A rinse hands from latrine
1241	1 female rinses hands and goes back to 4B 1 males goes to latrine
1242	4B teacher leaves class
1243	1 male rinses hands and goes to class 1 male leaves class to latrine
1245	1 male rinses hands and goes back to class
1246	1 male leaves to the latrine
1248	2 males return from latrine and rinse hands, go to class (4B)
1257	4A teacher leaves class
1258	4A teacher returns to class
1308	4 th grade teachers to meet with Natasha and Mulalo
1310	Male student washes hands after returning from latrine using spigot
1313	2 students (M and F) go to latrine
1314	Teacher exits for meeting ~10 students exit classroom and run around back
1315	3 male students rinse hands after returning from latrine; they struggle with spigot
1317	2 male students return from latrine and rinse hands, they also struggle to operate spigot
1319	Boys fighting for water at the spigot 2 girls wash hands after returning from restroom
1320	Kids gather around spigot Kids standing in the door screaming
1321	Kids running back and forth from classroom to yard
1322	Girl washing hands
1323	A bunch of girls gathering around spigot, all washing hands – some seem like just for fun?
1325	All order has been lost in this classroom
1330	School is out
1335	1 female drinks water from bucket
1339	1 female uses rest of water to rinse hands with spigot bucket, has to tip the container all the way over, places hands on bottom of spigot
1342	Observers leave school, water buckets appear to be left outside the classrooms overnight

4th Grade Observations: Monday July 27, 2015 (T1)

	All in one class, both 4 th grade classes The learners were sent to fetch textbooks from the next class from Grade 4B One learner (girl) went out and came from back with a pencil case
1030	Bell rang/clock for changing classes. 4 th grade did not change classes
1043	Jerrycan is almost empty
1105	Drinking water buckets for Grade 4A is almost empty since 1014, no
1115	Female left class to the bathroom, came back and washed hands from spigot
1155	Female, two of them took back the textbooks to Grade 4B (3 girls) accompanied by the teacher went back to 4A with more textbooks on a different subject
1200	Bell rings
1207	Grade 1 female learner went to report something to the Grade 4A teacher then left the class
1220	Male left to go to the bathroom, came back and washed his hands
1227	Male went to the bathroom, came back and washed his hands
1233	Male bathroom, came back and washed his hands
1242	Female, bathroom came back 10 minutes later and washed hands
1254	Another teacher entered the classroom Grade 4A
1300	Bell rings
1303	Both teachers leave the classroom
1312	A female younger student went to the Grade 4A class and spoke with a Grade 4A learner who came out of the class in the teacher's absence
1313	Male x3 went to the latrine, washed hands, jerrycan practically empty
1314	A male younger learner went to fourth grade to speak to an older boy also in the absence of a teacher
1315	Male goes to the bathroom, absence of
1316	Male x3 bathroom washed hands not proper due to almost empty jerrycan Male went out until the jerrycan then turned back Male x2 bathroom didn't properly wash hands due to emp Male bathroom washed from the buckets, jerrycan empty
1320	Teacher comes back to class (one teacher)
1323	Male bathroom washed hands
1323	Female x2 took back the textbooks to grade 4B Male bathroom washed hands Female bathroom washed hands
1324	Female took books back to Grade 4B Female bathroom washed hands
1329	Both 4 th Grade learners have been in one class all day
1330	Bell goes off to end today's school day
1335	Teacher went outside to speak on the phone
1337	Female went to the bathroom, didn't wash hands
1340	Teacher back in class

	Teacher takes exercise books to the Grade 4B classroom and speaks to the guy that takes care of the garden
1343	Teacher is back in class
1345	All learners leave the class Female drinks water Male drinks water Female drinks water x2 cups Female drinks water Female drinks water x2 cups Female drinks water Male drinks water Male x4 move desks from 4A to 4B plus four more males Female x2 sweep 4B plus two males Female drinks water Female x4 sweep 4A

4th Grade Observations: Tuesday July 28, 2015 (T2)	
0800	Arrive at school
0808	2 males leave 4A classroom
0811	1 male returns to 4A from bathroom and rinses hands
0830	Group of learners leaves class (4B) 1 male returns to class Group returns to class
0850	Food was taken to each of the classes
0855	2 males return to 4A class from the bathroom and rinse hands
0910	1 female from 4B returns from bathroom and rinses hands 2 males from 4A drink water from the untreated bucket
0912	2 males from 4A drink treated water by opening bucket to scoop cup
0913	1 male from 4B drinks water (not sure which bucket) and takes cup to class 1 male from 4B drinks water from the treated water bucket using spigot
0920	1 male from 4A, 2 females from 4B drink from the MadiDrop buckets 1 female from 4B drinks from the MadiDrop bucket
0921	Soap was added in the jerrycans 1 male from 4B drinks from the MadiDrop bucket 1 male from 4A drinks from the MadiDrop bucket 1 female from 4A drinks from the untreated bucket
0925	2 males from 4B each with a different cup drinks from the MadiDrop bucket
0926	3 males from 4B drink from the MadiDrop bucket 1 male returns from bathroom, rinses hands, and goes to class
0927	3 males from 4B drink from the MadiDrop bucket
0929	2 males from 4A rinse hands and go to class
0930	1 male from 4A drinks from the MadiDrop bucket Snack time
0931	1 male from 4A drinks from MadiDrop bucket All the learners leave the class and go to wash hands, return to class

0935	A group of learners formed a line to go and drink water from the MadiDrop bucket
0936	3 females from 4A drink from the MadiDrop bucket 2 males from 4B drink from the MadiDrop bucket
0938	5 males from 4B drink from the MadiDrop
0940	1 male and 1 female from 4B drink from the MadiDrop bucket
0944	Students are coming out one by one to rinse hands after eating
0945	A few learners are drinking from the MadiDrop bucket
0953	Jerrycan is empty
0955	Jerrycan is refilled
1000	Students goes back to class, some still washing hands and after are drinking from the MadiDrops buckets
1002	3 males open bucket with MadiDrop but uses the spigot to fetch water
1005	4A bucket with MadiDrop is empty (samples collected)
1010	Female comes back from bathroom and washes her hands MadiDrop bucket was filled with water (4A)
1057	2 males from 4B drink water from the MadiDrop bucket 1 female from 4B drinks water from the MadiDrop bucket (takes cup to class)
1100	1 female from 4B returns to class 1 male from 4A leaves class to the bathroom 4A goes to 4B (4A and 4B exchange classes)
1111	1 female from 4B returns from the bathroom and rinses hands 1 female from 4B drinks water from the MadiDrop bucket and returns to class with cup
1118	1 male from 4B leaves class to the bathroom 1 male from 4B returns from bathroom and rinses hands
1137	1 males leaves class
1143	Teachers check the buckets with MadiDrops if they still have water and she sends 2 males from 4B to refill MadiDrops buckets
1220	1 male leaves 4B class and teacher leaves class
1225	Male returns from toilet and washes hands Teacher goes back to class
1240	1 male returns to from bathroom and washes hands
1246	1 female from 4A drinks from the MadiDrop bucket and takes cup to class
1308	1 female returns to class from bathroom and washes hands Jerrycan is almost empty
1314	1 male from 4A drinks water from the MadiDrop bucket
1317	Buckets with MadiDrops were emptied
1330	School out

4th Grade Observations: Wednesday July 29, 2015 (T2)

0933	Arrive Students released from 4 th graders for snack break 20+ students rinse hands at jug
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	Males drink 4A MadiDrop water
0935	1 female drinks 2 cups 4B MadiDrop water 1 girl drinks 1 cup 4B treated water
0937	1 boy drinks 4B treated water 1 cup 1 boy drinks 4A treated water 1 cup 1 girl drinks 4A treated water 1 cup 1 boy drinks 4B treated water 1 cup 1 boy drinks 4B treated water 1 cup
0939	2 girls drink 4B treated water 1 cup each 2 boys drink 4B treated water 1 cup each 1 boy brings cup inside, other cup (red) stays outside
0941	Children walk outside with silver plates 1 girls drinks 4A treated water Some children still rinsing hands 2 boys drink from 4A and 4B 1 cup each of treated water 1 boy from 4A fill cups then pours it outside classroom 1 girl drinks 4B treated water 1 cup 1 boy drinks 4B treated water 1 cup
0944	2 girls drink 4A treated water 1 cup each 1 girl looks inside untreated water bucket
0945	2 girls drink 4A treated water 1 cup each 1 boy drinks 4A treated water
0947	1 boy drinks 4B treated water 1 cup 1 boy takes water from 4A untreated to fill personal water bottle
0950	1 girl drinks 1 cup treated 4B water
0955	1 girl drinks 1 cup treated 4B water
0956	1 boy drinks 4A treated water 1 cup 1 boy drinks 4B treated water 1 cup 1 girl drinks 4B treated water 1 cup 2 boys drink 4B treated water 1 cup 1 boy sharing cheetos right next to water buckets
0958	1 boy drinks 1 cup treated 4A water
1000	Bell rings, children bring plates to bucket outside room 4B 2 girls and 1 boy drink 1 cup treated 4B water 3 boys and 1 girl drink treated 4A water, 3 more kids also come to drink 1 boy drinks 1 cup treated 4B water
1003	4 th graders switch rooms ~6 kids drinking at 4A and 4B treated buckets, too much happening at once to count how many
1041	1 girl from 4A goes to latrine
1051	Collected water samples
1118	Girl returns to 4B with cup
1159	1 boy leaves for latrine
1202	Girl returns to 4B
1230	2 boys rinse hands
1231	1 boy drinks untreated water 1 cup

	Other children drinking water but not visible from where 1 boy drinks 1 cup treated 4A water 1 boy lifts lid of 4A treated bucket to drink
1237	1 boy drinks treated 4B water 1 cup
1308	1 girl rinses hands
1312	1 boy rinses hands

4th Grade Observations: Friday July 31, 2015 (T2)	
1000	Arrived at school
1020	Teachers leaves Grade 4A to sit right outside the classroom, stands from time to time by the window to observe what happening in the classroom
1030	Bell rings
1037	Teacher goes back to class and one learner (M) fetches his chair outside
1040	Grade 4A learners move to Grade 4B and Grade 4B learners move to Grade 4A Male learner drinks water Female learner drinks water Female learner drinks water Male learner drinks water Female goes to bathroom, came back, washed hands and drink cup of water
1059	Male x4 goes to the bathroom Male drinks water then goes to bathroom One boy came back from bathroom but didn't wash hands Female goes to bathroom then goes into Grade 4B
1100	Bell rings, teachers in both 4A and 4B leave their classes
1105	One of the boys comes back to class and washes hands Male drinks water
1110	Female x3 go to the bathroom Male goes out of class to wash his hands then goes back to class
1115	Female goes to the bathroom Two of the 3 girls come back from bathroom and wash their hands and one also drinks water
1122	2 girls and 1 boy come back from bathroom and drink from 4A treated water 1 girl rinses hands
1124	1 boy drinks water 2 cups from 4A treated then returns to class 1 boy rinses hands
1130	3 boys rinse hands 1 boy drinks 4A treated water 4 cups
1133	3 boys leave 4A classroom for latrine
1135	They return and rinse hands
1148	3 boys return to 4A
1149	About 5 students switch to 4B from 4A 2 more girls switch
1153	2 boys return (1 to 4A, 1 to 4B)
1159	4 students switch to 4A

1207	Many students walking between classrooms Other students out for the day, need to clean rooms 4B teacher standing outside near buckets
1212	2 boys sitting outside 4A classroom
1214	1 girl drinks from 4B treated water, many cups 1 boy drinks from 4A treated water
1220	Teacher 4B walks outside to explain broken bucket
1225	Learners begin to clean
1227	Male drinks from the bucket without the MadiDrop while MadiDrop bucket was being filled

4 th Grade Observations: Tuesday August 4, 2015 (T3)	
0942	Arrive, kids on snack break
0943	1 boy washes hands, kids are moving in/out of classrooms
0946	4 boys drink 4A treated water, 1 cup each
0947	~5 kids rinsing hands 1 girl drinks 4A treated water 1 girl and 1 boy drink 4B treated water
0949	1 boy drinks 4B treated water, 3 cups 1 boy drinks 4B treated water, 2 cups
0950	1 girl and 1 boy drink 4A treated water
0951	5 boys and 1 girl drink 4B treated water 4 boys drink 4A treated water
0953	1 boy drinks 4B treated water Long line of 15+ students waiting to rinse hands
0954	1 girl rinses hands at bowl on stand outside 4A
0956	1 girl drinks 4A treated water 3 cups 1 girl drinks 4A treated water, 1 cup ~3 to 5 other girls drink 4A treated water 1 boy pours remainder of water in cup over hand into bowl
0959	1 girl drinks 4B treated water
1000	1 girl drinks 4A treated water, bell rings 3 girls and 3 boys drink 4A treated water 2 boys and 1 girl drink 4B treated water
1005	1 girl drinks 4A untreated water 1 boy rinses hands
1054	2 girls rinse hands 1 girl drinks 4A treated water
1120	1 boy and 1 girl drink 4A treated water 2 boys rinse hands then return to class
1130	1 boy rinses hands, returns to 4B
1155	1 girl drinks 1 cup treated 4A water
1201	1 boy rinses hands
1202	1 boy drinks 4B treated water 2 cups

1221	1 girl rinsing hands then drink 1 cup treated 4A water 1 girl rinses hands
1227	1 boy leaves 4A for latrine
1234	Boy returns and rinses hands under MD (MadiDrop) bucket
1246	1 boy drinks from MD bucket
1247	1 boy runs to latrine
1248	Boy returns and washes his hands under spigot, then drinks from MD bucket
1255	1 boy runs to latrines
1300	Leave

4th Grade Observations: Thursday August 6, 2015 (T3)	
0929	Arrive. 4B has bucket inside doorway because cold day
0931	4A tacher and class leave. 4b too.
0933	4B BUCKET NOW OUTSIDE. KIDS RINISING HANDS
0937	HAND RINSING JUG ALMOST EMPTY. BOYS TAKE IT TO REFILL AT CENTER TAP
0940	1 GIRL DRINKS 4B TREATED WATER. BOYS CARRY JUG BACK, POUR OUT BOTTOM WASTE WATER INTO PLANTS. STUDENTS RINSE HANDS.
0943	1 BOY RINSES TUPPERWARE AT WATER BOWL ON STAND
0946	LARGE CROWD GATHERS AROUND 1 WOMAN (TEACHER?)
0950	KIDS SHARING SNACKS OUTSIDE 4A. CONTINUEOUS STREAM OF KIDS RINSING HANDS
0953	1 GIRL DRINKS 1 CUP TREATED 4A WATER SHE POURS 1 CUP OVER FRIEND'S HANDS/STANDING BOWL
0954	1 BOY DRINKS 1 CUP TREATED 4A WATER
0958	~10 KIDS RINSING HANDS
0959	1 GIRL DRINKS 4A TREATED WATER 1 CUP + 1 BOY
1000	BELL RINGS. 1 GIRL DRINKS 4A TREATED WATER + 2 BOYS + 1 BOY + 1 BOY 1 BOY RINSES HANDS IN STANDING BOWL 1 BOY POURS 2 CUPS TREATE WATER OVER HANDS INTO BOWL
1002	3 BOYS DRINK MD WATER 1-3 CUPS EACH HAND RINSE JUG ALMOST EMPTY AGAIN
1004	2 BOYS COME TO DRINK MD WATER. GIRLS REFILL JUG FOR HAND RINSE.
1007	4A/4B SWITCH CLASSROOMS. NO ONE DRINKS WATER 2 GIRLS RINSE HANDS THEN RETURN TO 4B
1015	SAMPLES COLLECTED
1103	4B BOY THROWS OUT EMPTY MILK BOX
1105	4B BOY RINSES HANDS. WASTE WATER BUCKET VERY FULL
1115	1 BOY DRINKS 1 CUP 4A MD WATER, TOSSES OUT THE REST
1117	3 BOYS DRINK 1 CUP EACH MD WATER 4A
1124	1 BOY PLACES CUP ON WATER BUCKET 4A 2 BOYS DRINK 1 CUP 4A MD WATER, 1 OF THEM TAKES ALL CUPS

	INSIDE
1125	1 GIRLS TAKES 1 CUP4A MD WATER TO RINSE CUP THEN 1 CUP UNTREATED WATER TO RINSE HANDS THEN DRINK 1 CUP 4A MD WATER
1127	1 BOY DRINKS 2 CUPS 4A MD WATER, TAKES CUPS INSIDE
1129	1 BOY RINSES HANDS THEN RETURNS TO CLASS + 2 BOYS + 1 BOY
1130	1 BOY DRINKS 4A MD WATER 1 CUP 1 BOY + 1 GIRL RINSE HANDS THEN GO TO CLASS
1131	1 GIRL DRINKS 4B MD WATER 2 CUPS 1 GIRL DRINKS 4A MD WATER 1 CUP BOY AND GIRL PLAYING WITH CUP AND WATER
1135	4A TEACHER ENTERS 4B. PREVIOUSLY CLASS WAS CRAZY. NO 4B TEACHER? 4B STUDENTS ALL JOIN 4A CLASSROOM
1145	WOMEN COLLECT TRASH FROM GROUND AND PLANT BED
1202	BOY RETURNS TO CLASS
1218	BOY RINSES HANDS THEN RETURNS TO CLASS
1220	GIRL AND BOY RINSE HANDS THEN RETURN TO CLASS
1304	NO 4 TH GRADE TEACHER IN CLASSROOM
1309	BOY DRINKS 2 CUPS MD WATER
1315	4A TEACHER RETURNS TO CLASSROOM 4 TH GRADERS LEAVE
1320	SOME STUDENTS SWEEPING ROMS
1321	GIRL TAKES 1 CUP 4A MD WATER TO HER FRIEND TO DRINK SHE DRINKS 1 CUP HERSELF TOO
1327	1 GIRL 4B DRINKS 1 CUP WATER (NOT SURE WHICH TYPE) 1 GIRL DRINK 1 CUP 4B MD WATER AND 1 GIRL AND 1 GIRL 1 GIRL DRINKS 1 CUP 4A MD WATER
1330	BELL RINGS
1332	2 BOYS DRINK 4A MD WATER 1 CUP EACH AND ONE BOY AND ONE BOY DRINKS CUPS 1 BOY DRINK 1 CUP UNTREATED WATER 4A AND 1 CUP MD WATER 1 GIRL DRINKS 4B MD WATER AND 1 MORE GIRL
1334	PLACES MD BUCKET INSIDE 4A

4th Grade Observations: Friday August 7, 2015 (T3)	
915	Arrival. No teachers in both 4 th Grade classes
0925	2 boys go to the bathroom, one washes his hands and the other doesn't Female goes to the bathroom and comes back to was her hands
0926	Grade 4B teacher comes back to the class
0927	Female drinks MD water
0929	2 (M) drink water in 4A MD 2 female go to latrine and come back to wash their hands
0930	1 male goes to the bathroom and comes back to wash their hands

0932	Siren rings 1 male drinks MD water Both 4 th grade classes go out to was their hands
0935	1 female drinks MD water 1 female drinks MD water 3 male drink MD water
0940	3 female drink md water
0943	2 female drink MD water
0945	2 female wash hands 1 female drinks MD water x2 cups
0948	3 female wash hands and empty the bucket with dirty water into the tree in front of their classroom
0950	3 males wash hands
0952	4 male wash hands 3 female wash hands
0955	4 male and 3 female wash hands 1 female drinks MD water
1000	Siren rings 1 male drinks MD and 3 more drink MD water
1005	Students go back to class
1006	1 female drinks MD water 2 males drink MD water

7th Grade Observations

7 th Grade Observations: Wednesday July 22, 2015 (T1)	
0735	Filled jug by pouring from black bucket Teacher adds ½ cup of sunlight dish soap to the jug Set Up: -one black bucket, one red bucket, one jug with spigot, one metal pan for each grade -Jug is for handwashing; black bucket for drinking water
0740	7B teacher comes to greet us
0748	Woman delivers stack of metal plates on the floor outside the classrooms
0801	Student rings bell outside 7 th grade classrooms 3 students move from 7A to 7B
0804	Woman removes plates into 6 th grade classroom
0806	Teachers witch classrooms
0807	7A/B teachers move to 6 th grade classroom-many plates moved in and out
0808	Two stacks of plates dropped off in 7A and 7B

0811	Woman scoops water from the black bucket into the jug using a mug She fills the plastic jug completely Moves the black bucket to the middle of the classrooms and places mug on top
0815	New black bucket brought for 6 th grade
0821	Woman washing buckets and metal pans at center borehole spigot
0830	Bell is rung
0837	(F) returns from latrines and uses spigot to wash hands before entering 7A
0839	7B student drinks from black bucket using communal mug-gets water by dipping
0840	(M) student returns from latrines and washes hands under spigot for ~5 sec
0847	Woman drops off blue food box in room 7A
0900	Bell is rung
0910	(F) 7B student washes hands using spigot
0911	2 more (F) 7B students leave classroom to wash hands under spigot
0913	7B student drinks from communal mug
0914	(M) student leaves 7A to run for latrines
0916	Student returns and washes his hands under the spigot
0922	(M) runs for bathroom
0927	(F) leaves for restroom
0930	She returns and washes her hands under the spigot
0930	SNACK TIME Whole school lining up at heir respective spigots to wash their hands (~10 sec/person) Use waste water from washing to water the plants Most of the jug is emptied for this handwashing process *kids seem very excited to wash hands this way, and they are inexperienced with the spigots *students need to be reminded to dump out the extra water in the bushes *perhaps this is a new system?
0943	7 th grade spigot runs out of water As an alternative, the students use cups of water from the black bucket to pour onto their hands
0945	7 th grade spigot jug is refilled (I did not see refilling location)
0949	Handwashing finally ends at 7 th grade spigot
0951	(F) washes hands; touches pottom of spigot to slow flow while she closes the spigot
0952	(F) drinks water by dunking communal mug into bucket
0955	2 students drink-communal mug 5 students wash hands post-snack
0956	3 students drink-communal mug
0958	3 students drink-communal mug

	2 students wash hands-spigot groups of girls playing hand-slapping games
1000	"saw" noise signals end of snack time
1001	2 students wash hands-spigot
1030	Bell is rung
1053	(M) student drinks-communal mug
1100	Bell is rung
1101	(M) student drinks-communal mug
1130	Bell is rung
1136	(M) 7A student runs to bathroom
1141	(F) 7A student drinks water-communal mug
1142	Student returns from bathroom and rinses hands from spigot
1145	Younger student washes hands at 7 th grade spigot-touches sides and bottom of spigot when trying to open it
1153	(M) 7A student drinks-communal mug
1200	2 students come out to wash their hands bell is rung
1202	bell ringer drinks-communal mug
1204	2 students drink-communal mug
1212	2 7B (F) students come out to wash hands
1230	Bell is rung

7th Grade Observations: Thursday July 23, 2015 (T1)	
1000	Students go back into classrooms after snack break Bring back refilled jug (from where?)
1035	(M) student dumps out pan and bucket
1135	(M) runs to restroom
1139	(M) drinks-communal mug 2 (F) run to restroom
1142	(F) returns and washes hands under spigot (M) returns and washes hands under spigot
1145	Second girl returns and washes hands under spigot
1147	2 girls wash hands under spigot
1204	6 th grade water bucket refilled at central borehole
1211	(M) leaves for restroom
1216	(M) returns and washes hands under spigot (F) leaves for restroom
1219	(F) returns and washes hands under spigot
1228	(M) leaves for restroom/another room?
1302	Students switch classrooms
1303	(F) drinks with communal mug 4 times
1308	7 th grade teachers meet with Natasha and Mulalo
1330	School's out
1336	Waste water dumped into plants

7th Grade Observations: Monday July 27, 2015 (T1)

1005	Refill handwashing jug
1024	Two girls run out of 7B talking on phone
1031	(F) exits 7A
1033	(F) returns with new book
1034	7A to computer lab
1149	(M) leaves 7B for latrine
1152	(F) leaves for latrine (M) returns without washing hands (F) leaves for latrine
1154	Maid walks past classrooms Maid returns and takes black water bucket from classroom to spigot Uses spigot by central borehole
1156	David speaks with Principal and teacher/administrator Maid returns black water bucket Places water bucket outside between 7A/7B with mug on lid
1158	Teacher/admin explains that they put the buckets inside classrooms on cold days
1200	Bell is rung
1207	Principal and 4B teacher discuss outside 7A classroom Principal enters 7A
1226	(F) returns with pencil pouch
1227	(F) leaves 7A for latrine
1230	2 (F) return from latrine both drink 2-3 cups of water but do not rinse hands
1232	(F) leaves 7B for latrine
1234	(F) returns from latrine and rinses hands at jug
1251	(M) enters 7A classroom teacher looks in through 7A's window (M) leaves 7A
1252	7B class returns to room 2 (F) drink 2-4 cups of water (M) drinks 1 cup (F) drinks 1 cup they all return to 7B
1254	(M) returns to 7B (M) rinses hands then returns to 7A teacher enters 7B
1256	2 students speak with teacher outside 7B teacher remains outside 7B
1258	Adults walk in and out of 7B
1300	Bell is rung
1303	(M) exits 7A for latrine
1304	(M) enters 7A

1308	2 (F) leave 7A (M) enters 7B then walks to 7A
1311	3 (F) return to 7A, do not wash hands
1315	(M) leaves 7B, immediately returns
1316	teacher speaks with 7B teacher outside 2 teachers also stand outside 7A
1319	2 (M) making mischief outside 7B
1322	2 (M) leave 7A
1323	(M) walks to 7B from 7A students from other classrooms gradually walking into courtyard
1325	(M) walks to 7A from 7B (F) enters 7A
1327	(M) walks into 7A
1329	(M) rinses hands
1330	2 (F) leave 7B bell rings other classrooms emptying, grade 7 slightly slower (M) fills cup but does not drink
1334	Students still standing outside (F) pours full water cup onto sidewalk, then she fills and drinks a mug from the bucket
1336	(F) drinks 1 cup (M) drinks 2 cups (F) drinks 2 cups (F) drinks 1 cup, pours out remainder on the ground fight occurring outside 7A student sweeping trash from classroom into box off the steps
1340	Students take dust box behind classroom Students start to leave classroom/school premises
1344	Students close gate over doors Only 3 (M) still stand outside 7A/B
1345	All 7 th grade students are gone

7th Grade Observations: Tuesday July 28, 2015 (T2)	
800	Bell is rung Two MadiDrop buckets are out in from of the classrooms, next to usual drinking water bucket
814	Principal comes to talk to 7A teacher, 7A teacher comes outside
830	7A teacher returns to classroom 7A and 7B students switch classrooms
833	(F) drinks from communal mug/regular black bucket
834	7A teacher exits classroom
849	2 (M) students exit 7B
852	2 (M) students return to 7B
857	Food bins are delivered

900	Bell is rung (M) student returns from latrines, does not wash hands
901	Plates delivered for snacks
910	7B (F) leaves class
915	7A (F) leaves class and is turned back by the teacher 7B teacher entered (M) left class, came back with a box of books
916	7A (F) pours liquid soap in the jerrycan
917	(F) washes hands
920	One of the cooks fills up the jerrycan with water from the bucket using a cup
930	SNACK TIME! Students line up to wash their hands, call other students out of the class; some drink water from the MD bucket using the spigot
938	(M) takes big box of books back to the admin building
942	2 (F) rinse hands
950	Jerrycan is refilled with water
955	(M) empties the used water bucket (M) washes hands (F) washes hands
958	Cook takes the food serving containers back to the kitchen
1000	Bell rings, Students rush back to class
1005	Collected the water samples from MadiDrop buckets
1015	Water testing for pH/chlorine
1025	Teacher enters 7A
1030	Bell rings
1040	Principal visits 7A
1100	Bell rings
1103	(F) drinks 2 cups from the MadiDrop bucket (F) drinks from the MadiDrop bucket
1105	2 (F) go to the bathroom
1111	Teacher left to 7B and then to the admin building and comes back (F) goes to bathroom (F) goes 7A to 7B (F) goes 7B to 7A
1114	The 2 girls come back from the bathroom and wash their hands (M) drinks water from the MadiDrop bucket – 2 cups (M) drinks water from the MD bucket (M) goes to bathroom and comes back to wash his hands
1115	7B goes to 7A 5 (M) drink water (F) drinks water
1130	Bell rings, (M) drinks water from MD bucket
1200	Bell rings
1205	6 (F) drink water from MD bucket

	4 (M) drink water from MD bucket
1215	(M) drinks water from MD bucket
1218	(F) leave to go to the bathroom (barefoot), back at 1240 and washes hands 2 (F) come back to the classroom and do not wash hands 1 (F) comes back and washes hands; then drinks water
1220	(M) comes back from bathroom and does not wash hands students move from 7A to 7B 5 (F) drink water 3 (M) drink water
1225	Students move from 7B to 7A-combined again
1230	Bell rings
1300	Bell rings
1312	Buckets with MDs emptied and refilled for tomorrow
1330	School day over

7th Grade Observations: Wednesday July 29, 2015 (T2)	
932	(M) drinks from MD bucket with communal mug
934	(F) pours cup of dish soap into handwashing jug and shakes it up
936	(F) drinks-MD bucket
937	(M) drinks-MD bucket
938	~10 kids washing hands under spigot
939	(M) drinks-MD bucket
941	(M) drinks-MD bucket
942	(M) drinks-MD bucket (M) drinks-MD bucket
943	5 (M) drink-MD bucket
944	3 (F) drink-MD bucket
945	~10 kids washing hands under spigot (M) drinks-MD bucket
946	(F) drinks-MD bucket
947	(M) drinks-black bucket
950	2 (M) wash hands (F) drinks-MD bucket (M) drinks-black bucket
951	3 (F) drink-MD bucket
953	(M) drinks-MD bucket little (M) drinks-MD bucket big 7 th grade (F) steals cup from him and drinks-MD (F) drinks-MD (M) drinks-MD
954	2 (F) drink-MD
956	2 (F) drink-MD (M) drinks-MD (F) drinks-MD

958	(F) drinks-MD
959	2 (F) drink-MD
1000	(F) drinks-MD
1001	3 (F) drink-MD (F) drinks-MD (but by dipping in!) 2 (M) drink-MD bell rings
1002	(M) washes hand using spigot
1004	(F) little girl from another grade comes to steal a cup of MD water
1030	Bell rings
1035	(F) uses water from MD bucket to wash cup, then she pours it out and drink MD water
1042	(F) drinks-MD
1100	Bell rings
1102	(M) drinks-MD
1105	(F) washes hands under spigot
1130	Bell rings
1200	Bell rings
1201	2 (F) drink-MD (M) drinks-MD
1203	3(F) drink-MD (M) drinks-MD
1210	(F) enters 7B 7B teacher enters
1211	Administrator talks with 7B teacher
1212	(F) drinks-MD
1220	(M) student leaves to 6 th grade, returns soon after
1222	(M) student returns from latrine and rinses hands under spigot
1233	(F) takes a drink-MD
1238	(F) and (M) exit classroom to go to latrine
1301	Bell is rung
1305	7 th grade classes switch classrooms
1306	(F) drinks-MD
1309	(M) drinks-MD
1312	(F) drinks-MD
1314	(M) washes hands and then gets a drink-MD
1316	Teacher washes hands and returns to 7A Refill buckets for tomorrow

7th Grade Observations: Monday August 4th, 2015 (T3)

940	Arrive at school during snack break Normal buckets are removed
941	2 (F) drink MD
943	4 (F) drink MD
943	4 (M) drink MD

946	4 (M) wash hands
948	3 (F) drink MD
950	1 (M) washes hands
955	2 (M) wash hands
1000	3 (F) wash hands snack over
1030	Bell rings
1040	7A goes to computer lab
1100	Bell
1101	3 (M) and 3 (F) drink-MD using one cup
1150	2 (m) leave class
1200	7A return to class from computer room, a few wash hands and a large group drinks-MD
1201	8 (F) line up to drink from MD using one cup
1205	1 (F) drinks-MD 1 (M) drinks-MD
1206	1 (M) drinks-MD
1223	1 (F) leaves class to go fetch water from the tap with a juice bottle
1224	1 (F) drinks MD
1230	1 (M) drinks MD bell rings then 1 (M) drinks MD
1232	2 (F) drink MD
1233	1 (M) drinks MD
1235	They refill 7B bucket
1237	1 (F) goes out of the classroom, comes back at 1240
1240	1 (M) goes to the admin block
1241	2 (F) leave class to go towards the admin block and two go to the latrine side
1245	1 (M) leaves 7A to 7B, then goes back to 7A, then goes to the latrine with another boy, and finally both boys go back to class
1247	(M) from admin returns
1250	1 (m) goes to the latrine
1253	2 (F) come back from admin with lollipops
1255	2 (F) come back from latrine and wash hands
1256	1 (M) goes to latrine and does not wash hands
1259	2 (F) go to latrine and come back and do not wash their hands
1300	Bell rings

7th Grade Observations: Thursday August 6, 2015 (T3)	
932	~30 kids wash hands under spigot before returning to class for snack time **both 7th grade buckets were not filled until this morning because the kids took them along to play soccer yesterday, and did not return them in the morning**
942	(F) washes hands

943	(F) and (M) exit class
944	2 (M) wash hands 2 (F) wash hands
946	(M) washes hands
947	A bunch of students run to the yard
948	(M) washes hands
949	4 (M) and 1 (F) wash hands
951	(M) washes hands
1000	End of SNACK
1001	3 (F) and 2(M) wash hands
1004	7A teacher leaves class
1017	**I realize spigot is broken on 7A bucket and cannot be used anymore**
1022	2 girls return from latrine, only one washes hands
1030	Bell is rung
1047	(F) 7 th grade teacher walking around by main admin
1056	Boy comes out to drink but realizes there is no cup outside and goes back to class
1057	(F) leaves to latrine
1058	(F) drinks two cups from black bucket (non-madidrop) (F) drinks-black bucket (M) drinks-black bucket
1100	Bell rung (F) drinks-MD
1112	2 (M) wash cups at borehole spigot and then drink from the borehole spigot
1113	(M) drinks-borehole spigot
1115	(M) drinks-black bucket
1118	(M) returns from latrine and washes hands under the spigot
1121	(F) drinks-black bucket
1125	2 (M) return from the bathroom and do not wash hands
1126	2 (F) return from the bathroom and rinse hands
1127	(F) drinks from black bucket
1129	2 (F) wash hands 2 (F) drink from black bucket
1130	Bell rung
1134	(M) drinks-black bucket
1136	(M) drinks 2 cups-black bucket
1200	Bell is rung
1203	(M) drinks 2 cups-black bucket
1223	(F) runs to latrine
1230	Bell
1233	(F) leaves 7A
1239	(F) returns from main office
1258	(F) drinks from black bucket

1305	(M) leaves 7B for restroom
1308	(F) drinks 1 cups water (not sure which bucket)
1309	Allison switches broken bucket for a new one
1315	2 (F) go to latrine
1317	(M) drinks-MD
1320	A bunch of students sitting around outside
1323	Bucket under spigot is emptied into flowers (M) washes hands
1326	(F) drinks from black bucket
1330	End of day (M) drinks from black bucket

7th Grade Observations: Friday August 7, 2015 (T3)	
918	Began observations, only one bucket outside It appears almost all the 7 th graders are gone
929	(F) drinks-MD
930	Snacktime begins!
939	(F) drinks-MD
951	~10 kids rinsing hands
957	3 girls looking into MD water bucket
959	Bell rings (we leave early to attend luncheon at UNIVEN)