



Kennedy Jenks

2882 Prospect Park Drive, Suite 240
Rancho Cordova, California 95670
(916) 858-2700

CASA – Wipes Collection Study

26 March 2024

APPENDICES

Prepared for

California Association of Sanitation Agencies

925 L Street, Suite 200
Sacramento, California 95814

KJ Project No. 23680008*00

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Appendix A

Data Collection Log

Appendix A-1

Data Collection Log




Inland Empire Utilities Agency

October 11, 2023 – Morning Collection

Appendix A

AB818 Wipes Collection Event Record Log

Agency Name	INLAND EMPIRE
Sampling Facility	RP-4
Sampling Location	
Date	11th October 2023
Flow	12 MGD (Start 8am)
Collection Start Time	8am
Collection End Time	2pm

Recorded Data Approval		
	Print Name	Sign
Agency	MICHAEL DIAS	
INDA	Wes Fisher	
CASA	Spencer Saks	

Articles highlighted reassigned from
SKD to Paper. D.P. 10.12.2023

Articles highlight reassigned from Other to UFO

D. Pombo 10/12/2023

SS 10/12/23

Attendance		
Name	Affiliation (CASA, INDA, Agency)	Role
DAVID POWLINZ	INDA	SORT + COUNT
Rob Heaglin	INDA	" - "
Matt Kuele	INDA	" - "
Mike Paschka	INDA	" - "
Wes Fisher	INDA	" - "
MIKE DIAS	IEVA	AGENCY
SCOTT Lanning	IEVA	" "
Ryan Love	IEVA	" "
Spencer Siks	CASA	

Date: 10/11/23

Appendix A

Date: 11th October 2023 AM

Collection Event (circle one):
Day 1 AM, Day 1 PM, Day 2 AM

Wipes Category

Collection #1

Notes

	BD	SCD	HND	MUF	PCBOD	PCFEM	PCHEM	MTT	OTHER	PT	AHP	PMW	FM	BMC	UFO
1	/										/				
2											/				
3					/										
4	/														
5					/										
6											/				
7											/				
8											/				
9											/				
10											/				
11											/				
12											/				
13											/				
14	/														
15					/										
16		/													
17		X									/				
18		X									/				
19											/				
20											/				
21		/													
22		/													
23										/					
24										/					
25										/					

Cloud pattern

Recorder Initials: DP



Kennedy Jenks

Appendix A

Date: 11th October 2023

Collection Event (circle one):
Day 1 AM, Day 1 PM, Day 2 AM

Collector # 1

Wipes Category

Notes

	BD	SCD	HND	MUF	PCBOD	PCFEM	PCHEM	MTT	OTHER	PT	AHP	PMW	FM	BMC	UFO
26									/						
27												/			
28		DP								/					
29		DP								/					
30							/								
31	/														
32									/						
33	OP	+								/					
34	OP	+								/					
35	/														
36	/														
37									/						
38										2/					
39											/				
40									/						
41	/														
42										/					
43	/														
44										/					
45										/					
46										/					
47	/														
48	AM								x						/
49										/					
50									/						

Color Pattern Print - Paper

Pattern

1 - 1

Floors

Hand

metal box, part of other

Recorder Initials: brp

Appendix A

Date: 11th October 2013

Collection Event (circle one):
Day 1 AM, Day 1 PM, Day 2 AM

Wipes Category

Collector # 1

	BD	SCD	HND	MUF	PCBOD	PCFEM	PCHEM	MIT	OTHER	PT	AHP	PMW	FM	BMC	UFO
51														/	
52									/						
53	/														
DP 54		X							/						
DP 55									X						/
56									/						
DP 57		X							/						
58									/						
DP 59		X							/						
DP 60		X							/						
DP 61		X							/						
62									/						
DP 63		X							/						
64									/						
65									/						
66									/						
67									/						
68									/						
69	/														
70	/														
71	/														
72									/						
73									/						
74									/						
75									/						

Notes

Disposable Glen

London

Huggies 'H'

no large fibres

'Blown' ?

body square pattern common. SL-5 PT?

" - " Synthetic

Paper

Paper ?

Recorder Initials: AP



Kennedy Jenks

D.P

Oct 11th 2023

Inland Empire
Collection #1

(A)

(B)

- 401 PT
- 402 PT
- 403 PMW
- 404 PT
- 405 PT
- 406 PT
- 407 PT
- 408 PT
- 409 PT
- 410 ~~PMW~~ PT
- DP 411 Other. UFO
- 412 BD
- 413 PT
- 414 PT
- 415 Other
- 416 PT
- DP 417 Other UFO
- 418 BD
- 419 PT
- 420 PT
- 421 Other Dryer Sheet
- 422 SCD
- 423 SCD
- 424 SCD
- 425 PT
- 426 SCD
- 427 PCBOD Inco
- 428 SCD

- 429 SCD
- 430 SCD
- 431 MUF
- 432 BD
- 433 MUF
- 434 PCBOD
- 435 MUF
- 436 MUF
- 437 PCBOD
- 438 BD
- 439 SCD
- 440 SCD
- 441 BD
- 442 SCD
- DP 443 Other UFO
- 444 PCBOD (Inco?)
- 445 SCD
- 446 MUF
- 447 SCD
- 448 Other
- 449 SCD
- 450 BD
- 451 PCBOD
- 452 PCBOD (Inco?)
- 453 SCD
- 454 SCD
- 455 BD
- 456 MUF
- 457 BD
- 458 HNB
- 459 PCBOD
- 460 MUF

PT 15 Other 4 SCBS
PMW 1 BD 2 PCBOD 1

(28)

SCD 10 BD 6 Other 2
MUF 6 PCBOD 6 HNB 1

Appendix A

Date: 11th October 2023

Collection Event (circle one):
Day 1 AM, Day 1 PM, Day 2 AM

(4)

Collection # 1

12 total
500 → PT
me 76

Wipes Category

	BD	SCD	HND	MUF	PCBOD	PCFEM	PCEM	MIT	OTHER	PT	AHP	PMW	FM	BMC	UFO
76	/														
77										/					
78	/														
79										/					
80										/					
81										/					
82											/				
83												/			
84								/							
85												/			
86	/														
87										/					
88											/				
89								/							
90												/			
91										/					
92										/					
93											/				
94											/				
95												/			
96	/														
97										/					
98										/					
99								/							
100								m			/				

Notes

Stretched

Servation

emptying

Q-top

four wrapper.

Q-top

Recorder Initials: D.P.



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DP

Inland Empire
11th October
Collection II

- 461 UFO
- 462 MUF
- 463 MUF
- 464 BD
- 465 BD
- 466 BD
- 467 PCBOD
- 468 other
- 469 SCD
- 470 SCD
- 471 PCBOD
- 472 PCFEM
- 473 MUF
- 474 MUF
- 475 PCBOD
- 476 PCBOD (xfolded)
- 477 SCD
- 478 BD
- 479 PCBOD
- 480 SCD
- 481 SCD
- 482 PCFEM
- 483 PCFEM
- 484 UFO
- 485 MUF
- 486 PCBOD
- 487 BD

UFO 2

BD 45

OTW 1

SCD 5

MUF 5

PCBOD 6 PCFEM 3

27

Appendix A

Date: 11th October 2023

Collection Event (circle one):
Day 1 AM, Day 1 PM, Day 2 AM

Collection #1

Wipes Category

	BD	SCD	HND	PMUF	PCBOD	PCFEM	PCHEM	MTT	OTHER	PT	AHP	PMW	FM	BMC	UFO
101										/					
102	/														
103	/														
104												/			
105											/				
106										/					
107										/					
108	/														
109										/					
110										/					
111										/					
112	/														
113										/					
114	/														
115										/					
116										/					
117	/														
118											/				
119										/					
120										/					
121										/					
122	/														
123	/														
124	/														
125	/														

Notes

Recorder Initials: D.P

Appendix A

Date: 11th October 2023

6

Collection Event (circle one):
Day 1 AM, Day 1 PM, Day 2 AM

Collector # 1

Wipes Category

	BD	SCD	HND	MUF	PCBOD	PCFEM	PCHEM	MITT	OTHER	PT	AHP	PMW	FM	BMC	UFO
126	/														
127										/					
128										/					
129										/					
130										/					
131	/														
132										/					
133	/														
134	/														
135										/					
136										/					
137										/					
138	/														
139										/					
140										/					
141		/													
142										/					
143										/					
144										/					
145										/					
146										/					
147	/														
148										/					
149										/					
150										/					

Notes

Notes

moon

Star.

Recorder Initials: D.P.

Appendix A

Date: 11th October 2023

Collection Event (circle one):
Day 1 AM, Day 1 PM, Day 2 AM

②

Collector # 1

Wipes Category

	BD	SCD	HND	MUF	PCBOD	PCFEM	PCHEM	MTT	OTHER	PT	AHP	PMW	FM	BMC	UFO
151											/				
152	/														
153										/					
154										/					
155	/														
156										/					
157										/					
158										/					
159										/					
160										/					
161										/					
162	/									/					
163										/					
164										/					
165										/					
166										/					
167										/					
168										/					
169										/					
170										/					
171									/						
172									/						
173										/					
174										/					
175										/					

Notes

Paid

Recorder Initials: D.P



Appendix A

Date: 11th October 2023

Collection Event (circle one):
Day 1 AM, Day 1 PM, Day 2 AM

Collection # 1

Wipes Category

	BD	SCD	HND	MUF	PCBOD	PCFEM	PCHEM	MITT	OTHER	PT	AHP	PMW	FM	BMC	UFO	Notes
176										/						
177										/						
178										/						
179										/						
180										/						
181										/						
182										/						
183										/						
184										/						
185										/						
186										/						
187										/						
188										/						
189	/															
190										/						
191										/						
192										/						
193										/						
194										/						
195										/						
196	/															
197										/						
198										/						
199										/						
200										/						

Recorder Initials: B.P

Appendix A

Date: 11th October 2023

Collection Event (circle one):
Day 1 AM, Day 1 PM, Day 2 AM

Collector #1

Wipes Category

	BD	SCD	HND	MUF	PCBOD	PCFEM	PCHEM	MTT	OTHER	PT	AHP	PMW	FM	BMC	UFO
201															
202										/					
203										/					
204										/					
205															/
206										/					
207	/														
208	/														
209	/														
210										/					
211										/					
212	/														
213	.									/					
214	/														
215											/				
216										/					
217										/					
218										/					
219									/						
220										/					
221	/														
222										/					
223										/					
224										/					
225										/					

Notes

How network. Is strong?

Name.

Q+ty

Recorder Initials:

D.P



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Appendix A

Date: 11th October 2013

Collection Event (circle one):
Day 1 AM, Day 1 PM, Day 2 AM

Collector # 1

Wipes Category

	BD	SCD	HND	MUF	PCBOD	PCFEM	PCHEM	MTT	OTHER	PT	AHP	PMW	FM	BMC	UFO
226										/					
227										/					
228										/					
229										/					
230	/														
231									/						
232										/					
233										/					
234										/					
235										/					
236										/					
237										/					
238										/					
239										/					
240										/					
241	/														
242										/					
243										/					
244										/					
245										/					
246										/					
247	/									/					
248										/					
249									X						/
250	/														

Notes

Dental pick

Been through a pump - elongated

Recorder Initials:

DP



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Appendix A

Date: 11th October 2023

Collection Event (circle one):
 Day 1 AM, Day 1 PM, Day 2 AM

(11)

Wipes Category

Collector #1

	BD	SCD	HND	MUF	PCBOD	PCFEM	PCHEM	MTT	OTHER	PT	AHP	PMW	FM	BMC	UFO
251	/														
252										/					
253										/					
254										/					
255										/					
256										/					
257										/					
258										/					
259										/					
260										/					
261										/					
262										/					
263										/					
264	/														
265										/					
266										/					
267										/					
268										/					
269										/					
270										/					
271										/					
272										/					
273										/					
274										/					
275										/					

Notes

Perfect. 2 sheets. Centre pmw?

Color print

Recorder Initials: AP

Appendix A

Date: 11th October 2023

Collection Event (circle one):
Day 1 AM, Day 1 PM, Day 2 AM

Collection #1

Wipes Category

	BD	SCD	HND	MUF	PCBOD	PCFEM	PCHEM	MTT	OTHER	PT	AHP	PMW	FM	BMC	UFO
276										/					
277										/					
278										/					
279									/						
280									/						
281												/			
282											/				
283											/				
284											/				
285	/														
286											/				
287									/						
288	/														
289	/														
290										/					
291	/														
292											/				
293											/				
294											/				
295											/				
296											/				
297										/					
298										/					
299										/					
300											/				

Notes

Banana

2 top

2 top

Pitman shows 290 on band

Recorder Initials:

P.P



Kennedy Jenks

Appendix A

Date: 11th Oct 2023

Collection Event (circle one):
Day 1 AM, Day 1 PM, Day 2 AM

Collector # 1
Inland Empire

Wipes Category

	BD	SCD	HND	MUF	PCBOD	PCFEM	PCHEM	MITT	OTHER	PT	AHP	PMW	FM	BMC	UFO
301											/				
302										/					
303										/					
304										/					
305										/					
306	/														
307		/													
308										/					
309										/					
310										/					
311										/					
312										/					
313											/				
AP 314								X							/
315	/														
316	/														
317	/														
318	/														
319										/					
320	/														
321											/				
322											/				
323										/					
324										/					
325									/						

Notes

dots

matchstick

Recorder Initials: D.P.C.



Kennedy Jenks

Date: Oct 11 2023

142

Collection Event (circle one):
Day 1 AM, Day 1 PM, Day 2 AM

Wipes Category

Inland Empire

Collection #1

	BD	SCD	HND	MUF	PCBOD	PCFEM	PCHEM	MTT	OTHER	PT	AHP	PMW	FM	BMC	UFO
326										1					
327											1				
328											1				
329	1														
330	1									WSP					
331										1					
332	1														
333										1					
334										1					
335											1				
336										1					
337											1				
338	1														
339	1														
340											1				
341	1														
342		1													
343										1					
344										1					
345										1					
346												1			
347										1					
348	1														
349										1					
350	1														

Notes

2 perfect wipes

Recorder Initials: D.P.

Appendix A

Date: Oct 11th 2023

(15)

Collection Event (circle one):
Day 1 AM, Day 1 PM, Day 2 AM

Inland Empire
Collection #1

Wipes Category

	BD	SCD	HND	MUF	PCBOD	PCFEM	PCHEM	MITT	OTHER	PT	AHP	PMW	FM	BMC	UFO
351										/					
352										/					
353										/					
354										/					
355					/										
356	/														
357										/					
AP 358	3	/													
AP 359	M														
360											/				
361										/					
362										/					
363										/					
364										/					
365								OP OP OP							/
366	/														
367										/					
368										/					
369										/					
370										/					
371											/				
372	/														
373											/				
374										/					
375										/					

Notes

Stretched spindles

Recorder Initials: DP



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Appendix A

Date: Oct 11th 2023

(16)

Collection Event (circle one):
Day 1 AM, Day 1 PM, Day 2 AM

Wipes Category

Inland Empire
Collector #1

Go to
revers
on sheets

	BD	SCD	HND	MUF	PCBOD	PCFEM	PCHEM	MITT	OTHER	PT	AHP	PMW	FM	BMC	UFO
376	/														
377										/					
378										/					
379	/														
380	/														
381	/														
382	/														
383										/					
384								/							
385										/					
386										/					
387										/					
388	/														
389	/														
390	/														
391										/					
392	/														
393										/					
394										/					
395										/					
396										/					
397										/					
398										/					
399										/					
400										/					

Notes

(3) + (4)
for samples
491 → 467

@ top

Perm + color.

Recorder Initials: D.P

Appendix A-2

Data Collection Log




Inland Empire Utilities Agency

October 12, 2023 – Morning Collection

Appendix A

AB818 Wipes Collection Event Record Log

Agency Name	Inland Empire
Sampling Facility	RP-4
Sampling Location	6th Street
Date	October 12th 2023
Flow	11.7 MGD
Collection Start Time	8am
Collection End Time	12:10

Recorded Data Approval		
	Print Name	Sign
Agency	MICHAEL DIAS	
INDA	Wes Fisher	
CASA	Spencer Saks	

Attendance		
Name	Affiliation (CASA, INDA, Agency)	Role
David Poulug (kc)	INDA	Sort + Count
MICHAEL DIAS	IEVA	AGENCY
Spencer S-KS	CASA	
Rob Healin	INDA	Sort & Count
Wes Fisher	INDA	Sort + Count
MATT O'SICKY	INDA	Sort & Count
Math Keele	INDA	Cleaning Wipes
Rob Lara Wyss	RFA	Photographer
Mike Paschke	INDA	Sort & Count

Date: *AKA* 10/12/2023

Appendix A

Date: 10/12/23

Collection Event (circle one):
Day 1 AM, Day 1 PM, Day 2 AM

Wipes Category

Collection #2
IEUA RPL4

	BD	SCD	HND	MUF	PCBOD	PCFEM	PCHEM	MTT	OTHER	PT	AHP	PMW	FM	BMC	UFO
1									/						
2									/						
3										/					
4										/					
5											/				
6										/	<i>2</i>				
7										/					
8										/					
9										/					
10										/					
11										/					
12										/					
13	/														
14	/														
15	/														
16										/					
17										/					
18										/					
19	/														
20	/														
21	/														
22	/														
23	/														
24	/														
25										/					

Notes

Toy

Head wrap

Paper

Recorder Initials: *D.P*

Inland Empire Collection 2
10/12/2023
Continuation Sheet

401 BD
402 PT
403 PT.
404 BD
405 PT
406 PT
407 PT
408 PT
409 PT
410 UFO Melthorn
411 BD
412 PT
413 PT
414 PT
415 SCD
416 PT
417 PT
418 SCD
419 PT
420 PT
421 PT
422 PT
423 PT
424 PT
425 PT
426 PT
427 PC FEM
428 PT
429 PT

430 PT
431 other (fence)
432 PT
433 PT
434 PT
435 PT
436 PT
437 MUF
438 PT
439 PT

DP
10/12/2023



Wipes Category

Collection # 2

1EUA RP-4

Notes

	BD	SCD	HND	MUF	PCBOD	PCFEM	PCHEM	MTT	OTHER	PT	AHP	PMW	FM	BMC	UFO
26	/														
27										/					
28										/					
29										/					
30										/					
31										/					
32										/					
33										/					
34	/														
35	/														
36										/					
37										/					
38										/					
39											/				
40											/				
41									/						
42										/					
43										/					
44	/														
45	/														
46										/					
47										/					
48											/				
49										/					
50										/					

Fmi paper. FP?

dryer sheet?

Recorder Initials: D.P

Wipes Category

Collection #2

IEUA RP-4

Notes

	BD	SCD	HND	MUF	PCBOD	PCFEM	PCHEM	MTT	OTHER	PT	AHP	PMW	FM	BMC	UFO
51	/														
52										/					
53										/					
54											/				
55										/					
56										/					
57										/					
58										/					
59										/					
60															/
61	/														
62										/					
63		/													
64	/														
65										/					
66											/				
67	/														
68	/														
69										/					
70										/					
71	/														
72										/					
73										/					
74	/														
75										/					

No perf. Thi. Fini

Wave pattern

Recorder Initials: S.P

Appendix A

Date: 10/12/23

Collection Event (circle one):
Day 1 AM, Day 1 PM, Day 2 AM

Wipes Category

Collector #2
IEVA RP4

	BD	SCD	HND	MUF	PCBOD	PCFEM	PCHEM	MITT	OTHER	PT	AHP	PMW	FM	BMC	UFO
76	/														
77										/					
78										/					
79										/					
80										/					
81										/					
82										/					
83	/														
84										/					
85	/														
86										/					
87										/					
88										/					
89	/														
90	/														
91										/					
92										/					
93										/					
94											/				
95										/					
96										/					
97										/					
98										/					
99										/					
100										/					

Notes

None.

Recorder Initials: D.P

Appendix A

Date: 10/12/23

Collection Event (circle one):
Day 1 AM, Day 1 PM, Day 2 AM

Collector # 2

IEUA RP-4

Wipes Category

	BD	SCD	HND	MUF	PCBOD	PCFEM	PCHEM	MTT	OTHER	PT	AHP	PMW	FM	BMC	UFO
101										/					
102										/					
103										/					
104					/										
105						/									
106						/									
107															/
108								/							
109												/			
110										/					
111										/					
112										/					
113										/					
114										/					
115									/						
116										/					
117										/					
118										/					
119										/					
120	/														
121										/					
122										/					
123										/					
124	/														
125	/														

Notes

Purified Towel

6x10 Inco

Round

Round.

Paad dry?

Elastoplast

Recorder Initials: D.P.

Appendix A

Date: 10/12/2023

Collection Event (circle one):
Day 1 AM, Day 1 PM, Day 2 AM

*Collection HZ
IEVA RP-4*

Wipes Category

	BD	SCD	HND	MUF	PCBOD	PCFEM	PCHEM	MTT	OTHER	PT	AHP	PMW	FM	BMC	UFO
126										/					
127															
128	/														
129	/														
130	/														
131															
132		/													
133	/														
134															
135															
136	/														
137															
138	/														
139		/													
140										/					
DP 141	X									/					
142															
143										/					
144															
145										/					
146															
147										/					
148										/					
149										/					
150										/					

Notes

Recorder Initials: DP

Wipes Category

Collector 2
IEDA RP-4

	BD	SCD	HND	MUF	PCBOD	PCFEM	PCHEM	MITT	OTHER	PT	AHP	PMW	FM	BMC	UFO
151										/					
152															/
153										/					
154										/					
155										/					
156										/					
157										/					
158										/					
159										/					
160								/							
161										/					
162									/						
163			/												
164											/				
165											/				
166										/					
167	/														
168		/													
169											/				
170					/										
171		/													
172											/				
173			/												
174		/													
175	/														

Notes

Very fine, thin, have fibers. Wipe 547

Soft, cheese holes,

Cross fold

Palmer

Appendix A

Date: 10/12/23

Collection Event (circle one):
Day 1 AM, Day 1 PM, Day 2 AM

*Collection 2
IEVA RPY*

Wipes Category

	BD	SCD	HND	MUF	PCBOD	PCFEM	PCHEM	MITT	OTHER	PT	AHP	PMW	FM	BMC	UFO
201	/														
202	/														
203	/														
204										/					
205		/													
206															/
207		/													
208										/					
209			/												
210															/
211										/					
212				/											
213										/					
214										/					
215				/											
216										/					
217										/					
218	/														
219	/														
220										/					
221										/					
222										/					
223			/												
224										/					
225										/					

Notes

Perfend.

Matth lower layer of bugger sheet

By size.

Recorder Initials: D.P

Appendix A

Date: 10/12/23

Collection Event (circle one):
Day 1 AM, Day 1 PM, Day 2 AM

Collection 2
IEVA RP4

Wipes Category

	BD	SCD	HND	MUF	PCBOD	PCFEM	PCHEM	MTT	OTHER	PT	AHP	PMW	FM	BMC	UFO
226	/														
227										/					
228										/					
229										/					
230										/					
231						/									
232										/					
233										/					
234					/										
235										/					
236										/					
237					/										
238										/					
239							/								
240								/							
241							/								
242											/				
243											/				
244											/				
245	/														
246				/											
247	/														
248	/														
249		/													
250										/					

Notes

Round pen
Toilet brush scrubber.
by size

Old towels and wares

Recorder Initials: D.P

Appendix A

Date: 10/12/23

Collection Event (circle one):
Day 1 AM, Day 1 PM, Day 2 AM

1 EDA RPL4
Cokebin 2

Wipes Category

	BD	SCD	HND	MUF	PCBOD	PCFEM	PCHEM	MITT	OTHER	PT	AHP	PMW	FM	BMC	UFO
301	/														
302						/									
303										/					
304										/					
305						/									
306										/					
307		/													
308	/														
309										/					
310	/														
311										/					
312										/					
313	/														
314			/												
315	/														
316										/					
317										/					
318	/														
319											/				
320										/					
321										/					
322										/					
323											/				
324										/					
325	/														

Notes

Recorder Initials: DP

Appendix A

Date: 10/12/2023

Collection Event (circle one):
Day 1 AM, Day 1 PM, Day 2 AM

Collection 2
IEUA RPL4

Wipes Category

	BD	SCD	HND	MUF	PCBOD	PCFEM	PCHEM	MTT	OTHER	PT	AHP	PMW	FM	BMC	UFO
326		/													
327				/											
328										/					
329			/												
330										/					
331		/													
332										/					
333															/
334		/													
335															/
336										/					
337										/					
338										/					
339										/					
340												/			
341												/			
342										/					
343										/					
344									/						
345											/				
346										/					
347					/										
348															/
349	/														
350					/										

Notes

met with team

Recorder Initials: DP

Appendix A-3

Data Collection Log

Central Contra Costa Sanitary District



October 18, 2023 – Morning Collection

1

Appendix A

AB818 Wipes Collection Event Record Log

Agency Name	CCCCSD
Sampling Facility	5919 Imhoff Place
Sampling Location	Leadworks. From bar screens 1+2 of 4 "1/4"
Date	10/17/2023
Flow	
Collection Start Time	11:45 am.
Collection End Time	12:05 pm

Recorded Data Approval		
	Print Name	Sign
Agency	ALAN WEER	
INDA	Matt O'Sickey	Matthew O'Sickey
CASA	Alyssa Downs	

Wipes Category

CCCSD
Collection # 1

	BD	SCD	HND	MUF	PCBOD	PCFEM	PCHEM	MTT	OTHER	PT	AHP	PMW	FM	BMC	UFO
1									/						
2										/					
3													/		
4										/					
5										/					
6										/					
7										/					
8										/					
9										/					
10										/					
11	/														
12	/														
13	/														
14										/					
15										/					
16	/														
17					/										
18										/					
19	/														
20	/														
21										/					
22	/														
23										/					
24										/					
25										/					

Notes

Dental pick / cleaner.
Heavy emboss
Sock
tear off
emboss
needle punch. Wash cloth
cloud.

Recorder Initials: D.P

Appendix A

Date: 10/17/23

Collection Event (circle one):
Day 1 AM, Day 1 PM, Day 2 AM

Collection #1
CCCSA

Wipes Category

	BD	SCD	HND	MUF	PCBOD	PCFEM	PCHEM	MITT	OTHER	PT	AHP	PMW	FM	BMC	UFO
51	/														
52	/														
53	/														
54										/					
55															/
56										/					
57										/					
58										/					
59										/					
60										/					
61										/					
62										/					
63										/					
64										/					
65										/					
66										/					
67										/					
68										/					
69										/					
70										/					
71										/					
72							/								
73										/					
74										/					
75							/								

Notes

Wave

2ply

Weak, soft, longer fiber

Recorder Initials: bp

Appendix A

Date: 10/17/23

Collection Event (circle one):
Day 1 AM, Day 1 PM, Day 2 AM

Collection #1
CCCCO

Wipes Category

	BD	SCD	HND	MUF	PCBOD	PCFEM	PCHEM	MTT	OTHER	PT	AHP	PMW	FM	BMC	UFO
101	/														
102		/													
103										/					
104										/					
105										/					
106										/					
107											/				
108										/					
109	/														
110	/														
111										/					
112										/					
113	/														
114										/					
115	/														
116	/														
117										/					
118										/					
119											/				
120				/											
121										/					
122										/					
123										/					
124										/					
125										/					

Notes

6x12 Body

Perfed paper, fiber bag wipe?

Recorder Initials: DP

Appendix A

Date: 10/17/2023

Collection Event (circle one):
Day 1 AM, Day 1 PM, Day 2 AM

Collection # 1
CCCB

Wipes Category

	BD	SCD	HND	MUF	PCBOD	PCFEM	PCHEM	MITT	OTHER	PT	AHP	PMW	FM	BMC	UFO
126										/					
127										/					
128										/					
129										/					
130						OP	/			/					
131										/					
132						/									
133	/														
134	OP														/
135										/					OP
136															/
137											/				
138										/					
139										/					
140										/					
141										/					
142										/					
143											/				
144								/							
145	/										OP				
146								X	/						
147								X	/	OP					
148								X	/	OP					
149								X	/	OP					
150						/									

Notes

Round stretched^{OP}

UFO

OP

Paper - entry in wrong column

Paper - " " "

Paper - " " "

Paper - " " "

Round. HER

Recorder Initials: AP

Appendix A

Date: 10/17/2023

Collection Event (circle one):
Day 1 AM, Day 1 PM, Day 2 AM

Collection #1
CCSD

Wipes Category

	BD	SCD	HND	MUF	PCBOD	PCFEM	PCHEM	MITT	OTHER	PT	AHP	PMW	FM	BMC	UFO
151										/					
152												/			
153										/					
154										/					
155										/					
156										/					
157										/					
158										/					
159										/					
160						/				3 ^{DP}					
161										/					
162										/					
163										/					
164	/														
165	/														
166	/														
167	/														
168		/													
169		/													
170		/													
171															
172											/				
173											/				
174											/				
175	/														

Notes

Round Hen

Recorder Initials: D.P

Appendix A

Date: 10/17/23
 Collection #1
 CCCSD

Collection Event (circle one):
 Day 1 AM, Day 1 PM, Day 2 AM

Wipes Category

	BD	SCD	HND	MUF	PCBOD	PCFEM	PCHEM	MITT	OTHER	PT	AHP	PMW	FM	BMC	UFO
176	/														
177	/														
178	/														
179	/														
180	/														
181	/														
182										/					
183										/					
184										/					
185	/														
186	/														
187	/														
188						/									
189										/					
190										/					
191										/					
192										/					
193										/					
194										/					
195	/														
196	/														
197										/					
198										/					
199										/					
200											/				

Notes

None

Separated.

Recorder Initials: DP

Appendix A

Date: 10/17/23

Collection Event (circle one):
Day 1 AM, Day 1 PM, Day 2 AM

Collector #1
CCCSO

Wipes Category

	BD	SCD	HND	MUF	PCBOD	PCFEM	PCHEM	MTT	OTHER	PT	AHP	PMW	FM	BMC	UFO
201	/														
202										/					
203										/					
204										/					
205										/					
206	/														
207	/														
208										/					
209										/					
210										/					
211										/					
212										f					
213	/														
214										/					
215										/					
216										/					
217										/					
218								/							
219										/					
220										/					
221					/										
222											/				
223										/					
224											/				
225											/				

Notes

Perfect.

Perfect center pin?

Computer / perf.

cloud

Broken, soft.

6x12

Recorder Initials: D.P

Appendix A

Date: 10/17/23

Collection Event (circle one):
Day 1 AM, Day 1 PM, Day 2 AM

Collection #1
CCCSO

Wipes Category

	BD	SCD	HND	MUF	PCBOD	PCFEM	PCHEM	MITT	OTHER	PT	AHP	PMW	FM	BMC	UFO
226											/				
227											/				
228								/							
229	/														
230		/													
231	/														
232	/														
233		/													
234		/													
235		/													
236		/													
237									/						
238	/														
239									/						
240									/						
241	/														
242					/										
243									/						
244	/														
245									/						
246	/														
247	/														
248									/						
249					/										
250									/						

Notes

Cloud

8x12 dry wipe

Flat,

Recorder Initials: D.P

Appendix A

Date: 10/17/2023

Collection Event (circle one):
Day 1 AM, Day 1 PM, Day 2 AM

Collection #1
CCCSO

Wipes Category

	BD	SCD	HND	MUF	PCBOD	PCFEM	PCHEM	MTT	OTHER	PT	AHP	PMW	FM	BMC	UFO
301								/							
302										/					
303										/					
304	/														
305	/														
306	/														
307	/														
308	/														
309	/														
310	/														
311		/													
312		/													
313		/													
314		/													
315		/													
316		/													
317		/													
318		/													
319		/													
320								/							
321								/							
322										/					
323	/														
324										/					
325										/					

Notes

Tongue

Both phen

Naive

Big dot

Large dot

Large dot

Small dot

n - 1

n - 1

n - 1

n - 1

n - 1

n - 1

n - 1

Rubber band

Worm

Recorder Initials: h. p

Appendix A

Date: 10/17/23

Collection Event (circle one):
Day 1 AM, Day 1 PM, Day 2 AM

Collection #1
CCCB0

Wipes Category

	BD	SCD	HND	MUF	PCBOD	PCFEM	PCHEM	MTT	OTHER	PT	AHP	PMW	FM	BMC	UFO
351										/					
352															/
353	/														
354		/													
355		/													
356	/														
357				/											
358											/				
359										/					
360										/					
361										/					
362										/					
363										/					
364	/														
365	/														
366										/					
367										/					
368										/					
369	/														
370										/					
371										/					
372										/					
373										/					
374										/					
375										/					

Notes

Lounge d.et

Cloud

Recorder Initials: D.P

Appendix A

Date: 10/17/23

Collection Event (circle one):
Day 1 AM, Day 1 PM, Day 2 AM

Collection #1
CCCSB

Wipes Category

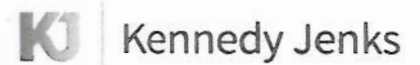
	BD	SCD	HND	MUF	PCBOD	PCFEM	PCHEM	MTT	OTHER	PT	AHP	PMW	FM	BMC	UFO
376										/					
377										/					
378										/					
379										/					
380										/					
381										/					
382														/	
383										/					
384	/														
385										/					
386											/				
387										/	STOP				
388										/					
389										/					
390										/					
391										/					
392										/					
393										/					
394	/														
395										/					
396	STOP									STOP					
397	STOP														
398														/	
399		/													
400		/													

Notes

Scott.

Tree root

Recorder Initials: D.P.



402 PCFEM 403 BD 404 PCBOD 405 PT

Appendix A-4

Data Collection Log

Central Contra Costa Sanitary District

October 18, 2023 – Nighttime Collection

Continuation Sheet

401	PT
402	UFO
403	BD
404	BD
405	BD
406	PT
407	SCD
408	BD
409	BR
410	PT
411	BPT
412	PT
413	PT
414	PT
415	PCBOT
416	SCB

Appendix A

Date: 10/18/2023

Collection Event (circle one):
 Day 1 AM, Day 1 PM, Day 2 AM

CLLSD
#2

Wipes Category

Notes

	BD	SCD	HND	MUF	PCBOD	PCFEM	PCHEM	MITT	OTHER	PT	AHP	PMW	FM	BMC	UFO
1											/				
2											/				
3										/					
4										/					
5										/					
6	/														
7				/											
8										/					
9										/					
10										/					
11										/					
12									/						
13										/					
14										/					
15										/					
16															/
17	/														
18	/														
19	/														
20	/														
21										/					
22										/					
23										/					
24										/					
25										/					

Pad.
Pad.

Recorder Initials: OP

Wipes Category

CCCSD
#2

	BD	SCD	HND	MUF	PCBOD	PCFEM	PCEM	MITT	OTHER	PT	AHP	PMW	FM	BMC	UFO
26										/					
27										/					
28										/					
29									/						
30										/					
31										/					
32										/					
33										/					
34										/					
35										/					
36	/														
37			3							/					
38			1												
39										/					
40	/														
41	/														
42										/					
43										/					
44										/					
45										/					
46												/			
47										/					
48										/					
49	/														
50	/														

Notes

Printed

plami.

printed

multipanel x fold.

reorder in cabinet.

Recorder Initials: OP

Wipes Category

#2
 CCCSB

Notes

	BD	SCD	HND	MUF	PCBOD	PCFEM	PCHEM	MTT	OTHER	PT	AHP	PMW	FM	BMC	UFO
51										/					
52	/														
53	/														
54	/														
55									/						
56									/						
57										/					
58											/				
59										/					
60										/					
61										/					
62	/														
63										/					
64										/					
65										/					
66	XOP									/					
67	/														
68										/					
69										/					
70										/					
71										/					
72										/					
73										/					
74										/					
75										/					

Large change

over sheet?

Q tip

intake larger

None

Recorder Initials: D.P

Appendix A

Date: 10/18/2023

Collection Event (circle one):
 Day 1 AM, Day 1 PM, Day 2 AM

#2
 CCCSD

Wipes Category

	BD	SCD	HND	MUF	PCBOD	PCFEM	PCHEM	MTT	OTHER	PT	AHP	PMW	FM	BMC	UFO
76							/								
77										/					
78										/					
79	/														
80				/											
81	/														
82										/					
83	/														
84	/														
85	/														
86										/					
87							/								
88							/								
89							/								
90										/					
91										/					
92										/					
93										/					
94										/					
95										/					
96										/					
97										/					
98														/	
99										/					
100										/					

Notes

Round:

Weaker than paper

Weaker than paper.

Recorder Initials: D.P

Appendix A

Date: 10/18/23

Collection Event (circle one):
 Day 1 AM, Day 1 PM, Day 2 AM

*CCCSO
 #2*

Wipes Category

	BD	SCD	HND	MUF	PCBOD	PCFEM	PCHEM	MTT	OTHER	PT	AHP	PMW	FM	BMC	UFO
101										/					
102					/										
103	/														
104	/														
105										/					
106											/				
107										/					
108										/					
109										/					
110	/														
111										/					
112										/					
113										/					
114	/														
115										/					
116	/														
117										/					
118										/					
119	/														
120										/					
121										/					
122										/					
123										/					
124										/					
125	/														

Notes

2 wipes attached

Recorder Initials: *D.P*

Wipes Category

CCSD
#2

	BD	SCD	HND	MUF	PCBOD	PCFEM	PCHEM	MTT	OTHER	PT	AHP	PMW	FM	BMC	UFO
151										/					
152								/							
153										/					
154															/
155										/					
156										/					
157										/					
158										/					
159										/					
160										/					
161									/						
162										/					
163					/										
164	/														
165	/														
166		/													
167	/														
168		/													
169		/													
170								/							
171								/							
172										/					
173										/					
174											/				
175											/				

Notes

Soft,

7x12

Wave

Cloud (flew it)

Recorder Initials: DP

Wipes Category

#2 CCLSD

	BD	SCD	HND	MUF	PCBOD	PCFEM	PCHEM	MTT	OTHER	PT	AHP	PMW	FM	BMC	UFO	Notes
176											/					
177											/					
178										/						
179										/						
180										/						
181										/						
182										/						
183										/						
184										/						
185										/						
186										/						
187										/						
188	/															
189										/						
190										/						
191											/					
192	/															
193										/						
194										/						
195										/						
196										/						
197										/						
198										/						
199										/						
200										/						

Recorder Initials: D-P

CCCSO
#2

Wipes Category

	BD	SCD	HND	MUF	PCBOD	PCFEM	PCHEM	MTT	OTHER	PT	AHP	PMW	FM	BMC	UFO
201	/														
202										/					
203										/					
204										/					
205										/					
206										/					
207										/					
208										/					
209										/					
210										/					
211										/					
212										/					
213										/					
214										/					
215										/					
216										/					
217										/					
218										/					
219								/							
220								/	DP		/				
221								/			/				
222											/				
223	/														
224										/					
225										/					

Notes

Print

(Kem wrapper) ^{DP} Condor ^{DP}
 wrapper Condor

Recorder Initials: DP

Wipes Category

CCCCD #2

	BD	SCD	HND	MUF	PCBOD	PCFEM	PCHEM	MITT	OTHER	PT	AHP	PMW	FM	BMC	UFO
226										/					
227										/					
228										/					
229										/					
230										/					
231										/					
232						/									
233										/					
234	/														
235										/					
236	/														
237	/														
238	/														
239										/					
240										/					
241	/														
242										/					
243	/														
244										/					
245										/					
246										/					
247											/				
248	/														
249										/					
250										/					

Notes

Perf

Cloud

Wave

Recorder Initials: DP

Wipes Category

CCCSB
#2

	BD	SCD	HND	MUF	PCBOD	PCFEM	PCHEM	MTT	OTHER	PT	AHP	PMW	FM	BMC	UFO
251											/				
252										/					
253					/										
254										/					
255										/					
256											/				
257										/					
258											/				
259											/				
260										/					
261										/					
262										/					
263										/					
264										/					
265										/					
266										/					
267										/					
268										/					
269	/														
270											/				
271										/					
272	/														
273										/					
274							/								
275										/					

Notes

old mouse.

6.5 x 12.5

Recorder Initials: DP

Appendix A

Date: 10/18/23

Collection Event (circle one):
 Day 1 AM, Day 1 PM, Day 2 AM

CCCSO
#2

Wipes Category

	BD	SCD	HND	MUF	PCBOD	PCFEM	PCHEM	MTT	OTHER	PT	AHP	PMW	FM	BMC	UFO
276										/					
277											/				
278										/					
279										/					
280										/					
281										/					
282		/													
283		/													
284					/										
285		/													
286										/					
287										/					
288					/										
289										/					
290		/													
291		/													
292	/														
293	/														
294	/														
295										/					
296										/					
297										/					
298										/					
299										/					
300										/					

Notes

Scott PHT
Large, Square sliver

Recorder Initials: D.P

Appendix A

Date: 10/18/23

Collection Event (circle one):
 Day 1 AM, Day 1 PM, Day 2 AM

Collection #2
 CCCCSD

	Wipes Category													Notes		
	BD	SCD	HND	MUF	PCBOD	PCFEM	PCHEM	MTT	OTHER	PT	AHP	PMW	FM		BMC	UFO
326	/															
327									/							
328										/						
329	/															
330	/															
331	/															
332									/							
333	/															
334	/															
335	/															
336						/				DP						
337	/									DP						
338									/							
339	/															
340										/						
341						/										
342									/							
343	/															
344									/							
345	/															
346									/							
347	/															
348									/							
349									/							
350										/						

Revised
 Mean

Recorder Initials: DP

Appendix A

Date: 10/18/2023

Collection Event (circle one):
 Day 1 AM, Day 1 PM, Day 2 AM

*Collect #2
 C.C.S.D.*

Wipes Category

	BD	SCD	HND	MUF	PCBOD	PCFEM	PCHEM	MTT	OTHER	PT	AHP	PMW	FM	BMC	UFO
376										/					
377										/					
378										/					
379															/
380										/					
381										/					
382										/					
383										/					
384										/					
385										/					
386															/
387										/					
388					/										
389										/					
390		/													
391		/													
392												/			
393	/														
394										/					
395	/														
396											/				
397										/					
398										/					
399	/														
400	/														

Notes

7x13'

Handkerchief 13x13

Recorder Initials: DP

Appendix B

Survey for Agencies

AB 818 Wipes Collection Study Survey

To gain understanding of consumer behavior regarding the flushing of pre-moistened non-woven disposal wipes as a key input into the design of the consumer education and outreach program, representatives from the California Association of Sanitation Agencies (CASA) and representatives from the pre-moistened non-woven disposable wipes manufacturers (INDA, Association of the Non-woven Fabrics Industry) formed an advisory group to collaborate on the wipes collection study.

Through sampling events, the study will collect data from participating wastewater collection systems related to the volume and characteristics of non-sewage materials that are being flushed into the collection system, including pre-moistened non-woven disposal wipes as well as other material (e.g. clothing, toys) and sampling conditions. The data will be collated and summarized for use in the design of the consumer education and outreach program.

To help the support the design of the collection study, please answer the following questions:

The respondent's email (**ryan.smith@watsonville.gov**) was recorded on submission of this form.

Email *

ryan.smith@watsonville.gov



1. Is your agency interested in participating in a wipes collection study? Participation requirements:

i. At least 1-2 staff available to collect, clean, separate, and sort collected materials from your facility's bar screen(s) and record information on provided forms.

ii. Participation in a training session and a series of collection events (one in the wet season and one in the dry season). Collection events are estimated to take place over 3 consecutive days of 2-4 hours each day during peak flows.

Yes

No

Name, phone number, and email address of someone we can contact for follow-up.

Ryan Smith 831-768-3175 ryan.smith@watsonville.gov

Agency Name

City of Watsonville

Treatment Facility Name

City of Watsonville Wastewater Treatment Facility

Service Area (city name, county, geographic description, etc.)

City of Watsonville, Pajaro County Sanitation District, Freedom County Sanitation District, Salsipuedes Sanitary District.

Is GIS available for your collection system?

- Yes
- No

Is your collection system

- Combined sewer/storm system
- Dedicated sewer
- Both

What is the average sanitary or dry weather flow of your treatment facility?

- Less than 1.0 MGD
- 1.1 MGD to 5.0 MGD
- 5.1 MGD to 10.0 MGD
- 10.1 MGD to 25.0 MGD
- 25.1 MGD to 50.0 MGD
- Greater than 50.0 MGD

How is sewage conveyed?

- Predominantly Gravity
- Predominantly Pumped
- Trucked in from another entity
- Connection with another Collection system(s)
- Other:

Are your pumped stations equipped with screens? Description of screens, select all that apply.

- Manually cleaned bar
- Mechanically cleaned bar
- Mechanically cleaned bar: Chain/cable driven
- Mechanically cleaned bar: Reciprocating rake
- Mechanically cleaned bar: Continuous self-cleaning
- Mechanically cleaned fine screen
- Other:

a. Are there grinders, comminutors, or other equipment installed upstream to or at the screen(s) that would tear apart or damage materials?

No.

Are your headworks equipped with screens? Description of screen(s), select all that apply.

- Manually cleaned bar
- Mechanically cleaned bar
- Mechanically cleaned bar: Chain/cable driven
- Mechanically cleaned bar: Reciprocating rake
- Mechanically cleaned bar: Continuous self-cleaning
- Mechanically cleaned fine screen
- Other: Mechanically cleaned traveling screen

a. Are there grinders, comminutors, or other equipment installed upstream to or at the screen(s) that would tear apart or damage materials?

No. _____

How many miles of collection system?

- Less than 50
- 51 to 100
- 101 to 500
- 501 to 1,000
- 1,000 to 5,000
- Greater than 5,000

How many lift stations?

- 0 to 5
- 6 to 20
- Greater than 21

How many lift stations w/solids handling pumps?

- 0 to 5
- 6 to 20
- Greater than 21

How many lift stations w/grinders/chopper pumps?

- 0 to 5
- 6 to 20
- Greater than 21

Number of total connections?

Number of Single Family connections?

.....

Number of Multi-Family units?

.....

Number of Hospitals, Daycares, Care Centers, etc.?

.....

Do you track frequency of screen cleanings and screening equipment maintenance logs?

- Yes
- No

In the collection system: On average, how many ragging events do you experience per week?

- Less than 2
- 3 to 6
- 7 to 14
- Greater than 14

In the collection system: If more than 0 events per week, roughly how many labor-hours per week are used to address "ragging"?

- 1 to 2 hours
- 3 to 6 hours
- 7 to 10 hours
- 11 to 20 hours
- Greater than 20 hours

At the headworks: How many "ragging" events do you experience per week?

- Less than 2
- 3 to 6
- 7 to 14
- Greater than 14

At the headworks: If more than 0, roughly how many labor-hours/week are used to address "ragging"?

- 1 to 2 hours
- 3 to 6 hours
- 7 to 10 hours
- 11 to 20 hours
- Greater than 20 hours

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Google Forms

AB 818 Wipes Collection Study Survey

To gain understanding of consumer behavior regarding the flushing of pre-moistened non-woven disposal wipes as a key input into the design of the consumer education and outreach program, representatives from the California Association of Sanitation Agencies (CASA) and representatives from the pre-moistened non-woven disposable wipes manufacturers (INDA, Association of the Non-woven Fabrics Industry) formed an advisory group to collaborate on the wipes collection study.

Through sampling events, the study will collect data from participating wastewater collection systems related to the volume and characteristics of non-sewage materials that are being flushed into the collection system, including pre-moistened non-woven disposal wipes as well as other material (e.g. clothing, toys) and sampling conditions. The data will be collated and summarized for use in the design of the consumer education and outreach program.

To help the support the design of the collection study, please answer the following questions:

The respondent's email (**emakowski@ieua.org**) was recorded on submission of this form.

Email *

emakowski@ieua.org



1. Is your agency interested in participating in a wipes collection study? Participation requirements:

i. At least 1-2 staff available to collect, clean, separate, and sort collected materials from your facility's bar screen(s) and record information on provided forms.

ii. Participation in a training session and a series of collection events (one in the wet season and one in the dry season). Collection events are estimated to take place over 3 consecutive days of 2-4 hours each day during peak flows.

Yes

No

Name, phone number, and email address of someone we can contact for follow-up.

Lucia Diaz, 909-342-2365, ldiaz@ieua.org

Agency Name

Inland Empire Utilities Agency

Treatment Facility Name

RP-1, RP-4, RP-5, CCWRF

Service Area (city name, county, geographic description, etc.)

inland Empire (Fontana, Rancho Cucamonga, Ontario, Montclair, Chino, Chino Hills, Upland)

Is GIS available for your collection system?

- Yes
- No

Is your collection system

- Combined sewer/storm system
- Dedicated sewer
- Both

What is the average sanitary or dry weather flow of your treatment facility?

- Less than 1.0 MGD
- 1.1 MGD to 5.0 MGD
- 5.1 MGD to 10.0 MGD
- 10.1 MGD to 25.0 MGD
- 25.1 MGD to 50.0 MGD
- Greater than 50.0 MGD

How is sewage conveyed?

- Predominantly Gravity
- Predominantly Pumped
- Trucked in from another entity
- Connection with another Collection system(s)
- Other:

Are your pumped stations equipped with screens? Description of screens, select all that apply.

- Manually cleaned bar
- Mechanically cleaned bar
- Mechanically cleaned bar: Chain/cable driven
- Mechanically cleaned bar: Reciprocating rake
- Mechanically cleaned bar: Continuous self-cleaning
- Mechanically cleaned fine screen
- Other:

a. Are there grinders, comminutors, or other equipment installed upstream to or at the screen(s) that would tear apart or damage materials?

no

Are your headworks equipped with screens? Description of screen(s), select all that apply.

- Manually cleaned bar
- Mechanically cleaned bar
- Mechanically cleaned bar: Chain/cable driven
- Mechanically cleaned bar: Reciprocating rake
- Mechanically cleaned bar: Continuous self-cleaning
- Mechanically cleaned fine screen
- Other:

a. Are there grinders, comminutors, or other equipment installed upstream to or at the screen(s) that would tear apart or damage materials?

no

How many miles of collection system?

- Less than 50
- 51 to 100
- 101 to 500
- 501 to 1,000
- 1,000 to 5,000
- Greater than 5,000

How many lift stations?

- 0 to 5
- 6 to 20
- Greater than 21

How many lift stations w/solids handling pumps?

- 0 to 5
- 6 to 20
- Greater than 21

How many lift stations w/grinders/chopper pumps?

- 0 to 5
- 6 to 20
- Greater than 21

Number of total connections?

Number of Single Family connections?

Number of Multi-Family units?

Number of Hospitals, Daycares, Care Centers, etc.?

Do you track frequency of screen cleanings and screening equipment maintenance logs?

- Yes
- No

In the collection system: On average, how many ragging events do you experience per week?

- Less than 2
- 3 to 6
- 7 to 14
- Greater than 14

In the collection system: If more than 0 events per week, roughly how many labor-hours per week are used to address "ragging"?

- 1 to 2 hours
- 3 to 6 hours
- 7 to 10 hours
- 11 to 20 hours
- Greater than 20 hours

At the headworks: How many "ragging" events do you experience per week?

- Less than 2
- 3 to 6
- 7 to 14
- Greater than 14

At the headworks: If more than 0, roughly how many labor-hours/week are used to address "ragging"?

- 1 to 2 hours
- 3 to 6 hours
- 7 to 10 hours
- 11 to 20 hours
- Greater than 20 hours

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Google Forms

AB 818 Wipes Collection Study Survey

To gain understanding of consumer behavior regarding the flushing of pre-moistened non-woven disposal wipes as a key input into the design of the consumer education and outreach program, representatives from the California Association of Sanitation Agencies (CASA) and representatives from the pre-moistened non-woven disposable wipes manufacturers (INDA, Association of the Non-woven Fabrics Industry) formed an advisory group to collaborate on the wipes collection study.

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To help the support the design of the collection study, please answer the following questions:

The respondent's email (mgonzalez@lwwd.org) was recorded on submission of this form.

Email *

mgonzalez@lwwd.org



1. Is your agency interested in participating in a wipes collection study? Participation requirements:

i. At least 1-2 staff available to collect, clean, separate, and sort collected materials from your facility's bar screen(s) and record information on provided forms.

ii. Participation in a training session and a series of collection events (one in the wet season and one in the dry season). Collection events are estimated to take place over 3 consecutive days of 2-4 hours each day during peak flows.

Yes

No

Name, phone number, and email address of someone we can contact for follow-up.

Marvin Gonzalez 760-753-0155

Agency Name

Leucadia Wastewater District

Treatment Facility Name

Encina Wastewater Authority

Service Area (city name, county, geographic description, etc.)

San Diego North County

Is GIS available for your collection system?

- Yes
- No

Is your collection system

- Combined sewer/storm system
- Dedicated sewer
- Both

What is the average sanitary or dry weather flow of your treatment facility?

- Less than 1.0 MGD
- 1.1 MGD to 5.0 MGD
- 5.1 MGD to 10.0 MGD
- 10.1 MGD to 25.0 MGD
- 25.1 MGD to 50.0 MGD
- Greater than 50.0 MGD

How is sewage conveyed?

- Predominantly Gravity
- Predominantly Pumped
- Trucked in from another entity
- Connection with another Collection system(s)
- Other:

Are your pumped stations equipped with screens? Description of screens, select all that apply.

- Manually cleaned bar
- Mechanically cleaned bar
- Mechanically cleaned bar: Chain/cable driven
- Mechanically cleaned bar: Reciprocating rake
- Mechanically cleaned bar: Continuous self-cleaning
- Mechanically cleaned fine screen
- Other:

a. Are there grinders, comminutors, or other equipment installed upstream to or at the screen(s) that would tear apart or damage materials?

yes

Are your headworks equipped with screens? Description of screen(s), select all that apply.

- Manually cleaned bar
- Mechanically cleaned bar
- Mechanically cleaned bar: Chain/cable driven
- Mechanically cleaned bar: Reciprocating rake
- Mechanically cleaned bar: Continuous self-cleaning
- Mechanically cleaned fine screen
- Other:

a. Are there grinders, comminutors, or other equipment installed upstream to or at the screen(s) that would tear apart or damage materials?

yes

How many miles of collection system?

- Less than 50
- 51 to 100
- 101 to 500
- 501 to 1,000
- 1,000 to 5,000
- Greater than 5,000

How many lift stations?

- 0 to 5
- 6 to 20
- Greater than 21

How many lift stations w/solids handling pumps?

- 0 to 5
- 6 to 20
- Greater than 21

How many lift stations w/grinders/chopper pumps?

- 0 to 5
- 6 to 20
- Greater than 21

Number of total connections?

20,700

Number of Single Family connections?

Number of Multi-Family units?

Number of Hospitals, Daycares, Care Centers, etc.?

10

Do you track frequency of screen cleanings and screening equipment maintenance logs?

- Yes
- No

In the collection system: On average, how many ragging events do you experience per week?

- Less than 2
- 3 to 6
- 7 to 14
- Greater than 14

In the collection system: If more than 0 events per week, roughly how many labor-hours per week are used to address "ragging"?

- 1 to 2 hours
- 3 to 6 hours
- 7 to 10 hours
- 11 to 20 hours
- Greater than 20 hours

At the headworks: How many "ragging" events do you experience per week?

- Less than 2
- 3 to 6
- 7 to 14
- Greater than 14

At the headworks: If more than 0, roughly how many labor-hours/week are used to address "ragging"?

- 1 to 2 hours
- 3 to 6 hours
- 7 to 10 hours
- 11 to 20 hours
- Greater than 20 hours

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Google Forms

AB 818 Wipes Collection Study Survey

To gain understanding of consumer behavior regarding the flushing of pre-moistened non-woven disposal wipes as a key input into the design of the consumer education and outreach program, representatives from the California Association of Sanitation Agencies (CASA) and representatives from the pre-moistened non-woven disposable wipes manufacturers (INDA, Association of the Non-woven Fabrics Industry) formed an advisory group to collaborate on the wipes collection study.

Through sampling events, the study will collect data from participating wastewater collection systems related to the volume and characteristics of non-sewage materials that are being flushed into the collection system, including pre-moistened non-woven disposal wipes as well as other material (e.g. clothing, toys) and sampling conditions. The data will be collated and summarized for use in the design of the consumer education and outreach program.

To help the support the design of the collection study, please answer the following questions:

The respondent's email (**bealls@rodeosan.org**) was recorded on submission of this form.

Email *

bealls@rodeosan.org



1. Is your agency interested in participating in a wipes collection study? Participation requirements:

i. At least 1-2 staff available to collect, clean, separate, and sort collected materials from your facility's bar screen(s) and record information on provided forms.

ii. Participation in a training session and a series of collection events (one in the wet season and one in the dry season). Collection events are estimated to take place over 3 consecutive days of 2-4 hours each day during peak flows.

Yes

No

Name, phone number, and email address of someone we can contact for follow-up.

Steve Beall, 510-799-2970 x100, bealls@rodeosan.org

Agency Name

Rodeo Sanitary District

Treatment Facility Name

Rodeo Sanitary District Water Pollution Control Plant

Service Area (city name, county, geographic description, etc.)

Rodeo

Is GIS available for your collection system?

- Yes
- No

Is your collection system

- Combined sewer/storm system
- Dedicated sewer
- Both

What is the average sanitary or dry weather flow of your treatment facility?

- Less than 1.0 MGD
- 1.1 MGD to 5.0 MGD
- 5.1 MGD to 10.0 MGD
- 10.1 MGD to 25.0 MGD
- 25.1 MGD to 50.0 MGD
- Greater than 50.0 MGD

How is sewage conveyed?

- Predominantly Gravity
- Predominantly Pumped
- Trucked in from another entity
- Connection with another Collection system(s)
- Other:

Are your pumped stations equipped with screens? Description of screens, select all that apply.

- Manually cleaned bar
- Mechanically cleaned bar
- Mechanically cleaned bar: Chain/cable driven
- Mechanically cleaned bar: Reciprocating rake
- Mechanically cleaned bar: Continuous self-cleaning
- Mechanically cleaned fine screen
- Other:

a. Are there grinders, comminutors, or other equipment installed upstream to or at the screen(s) that would tear apart or damage materials?

Grinders

Are your headworks equipped with screens? Description of screen(s), select all that apply.

- Manually cleaned bar
- Mechanically cleaned bar
- Mechanically cleaned bar: Chain/cable driven
- Mechanically cleaned bar: Reciprocating rake
- Mechanically cleaned bar: Continuous self-cleaning
- Mechanically cleaned fine screen
- Other:

a. Are there grinders, comminutors, or other equipment installed upstream to or at the screen(s) that would tear apart or damage materials?

.....

How many miles of collection system?

- Less than 50
- 51 to 100
- 101 to 500
- 501 to 1,000
- 1,000 to 5,000
- Greater than 5,000

How many lift stations?

- 0 to 5
- 6 to 20
- Greater than 21

How many lift stations w/solids handling pumps?

- 0 to 5
- 6 to 20
- Greater than 21

How many lift stations w/grinders/chopper pumps?

- 0 to 5
- 6 to 20
- Greater than 21

Number of total connections?

about 2500

Number of Single Family connections?

about 2300

Number of Multi-Family units?

about 100

Number of Hospitals, Daycares, Care Centers, etc.?

about 3

Do you track frequency of screen cleanings and screening equipment maintenance logs?

- Yes
- No

In the collection system: On average, how many ragging events do you experience per week?

- Less than 2
- 3 to 6
- 7 to 14
- Greater than 14

In the collection system: If more than 0 events per week, roughly how many labor-hours per week are used to address "ragging"?

- 1 to 2 hours
- 3 to 6 hours
- 7 to 10 hours
- 11 to 20 hours
- Greater than 20 hours

At the headworks: How many "ragging" events do you experience per week?

- Less than 2
- 3 to 6
- 7 to 14
- Greater than 14

At the headworks: If more than 0, roughly how many labor-hours/week are used to address "ragging"?

- 1 to 2 hours
- 3 to 6 hours
- 7 to 10 hours
- 11 to 20 hours
- Greater than 20 hours

This content is neither created nor endorsed by Google.

Google Forms

AB 818 Wipes Collection Study Survey

To gain understanding of consumer behavior regarding the flushing of pre-moistened non-woven disposal wipes as a key input into the design of the consumer education and outreach program, representatives from the California Association of Sanitation Agencies (CASA) and representatives from the pre-moistened non-woven disposable wipes manufacturers (INDA, Association of the Non-woven Fabrics Industry) formed an advisory group to collaborate on the wipes collection study.

Through sampling events, the study will collect data from participating wastewater collection systems related to the volume and characteristics of non-sewage materials that are being flushed into the collection system, including pre-moistened non-woven disposal wipes as well as other material (e.g. clothing, toys) and sampling conditions. The data will be collated and summarized for use in the design of the consumer education and outreach program.

To help the support the design of the collection study, please answer the following questions:

The respondent's email (pseitz@centralsan.org) was recorded on submission of this form.

Email *

pseitz@centralsan.org



1. Is your agency interested in participating in a wipes collection study? Participation requirements:

i. At least 1-2 staff available to collect, clean, separate, and sort collected materials from your facility's bar screen(s) and record information on provided forms.

ii. Participation in a training session and a series of collection events (one in the wet season and one in the dry season). Collection events are estimated to take place over 3 consecutive days of 2-4 hours each day during peak flows.

Yes

No

Name, phone number, and email address of someone we can contact for follow-up.

Paul Seitz, 925-335-7743, pseitz@centralsan.org

Agency Name

Central San

Treatment Facility Name

Central San

Service Area (city name, county, geographic description, etc.)

San Ramon, Danville, Alamo, Lafayette, Orinda, Moraga, Walnut Creek, Pleasant Hill, Pacheco, Clyde, Portions of Martinez, and Portions of unincorporated Contra Costa County

Is GIS available for your collection system?

- Yes
- No

Is your collection system

- Combined sewer/storm system
- Dedicated sewer
- Both

What is the average sanitary or dry weather flow of your treatment facility?

- Less than 1.0 MGD
- 1.1 MGD to 5.0 MGD
- 5.1 MGD to 10.0 MGD
- 10.1 MGD to 25.0 MGD
- 25.1 MGD to 50.0 MGD
- Greater than 50.0 MGD

How is sewage conveyed?

- Predominantly Gravity
- Predominantly Pumped
- Trucked in from another entity
- Connection with another Collection system(s)
- Other:

Are your pumped stations equipped with screens? Description of screens, select all that apply.

- Manually cleaned bar
- Mechanically cleaned bar
- Mechanically cleaned bar: Chain/cable driven
- Mechanically cleaned bar: Reciprocating rake
- Mechanically cleaned bar: Continuous self-cleaning
- Mechanically cleaned fine screen
- Other:

a. Are there grinders, comminutors, or other equipment installed upstream to or at the screen(s) that would tear apart or damage materials?

(4) Pumping Stations have grinders - San Ramon, Martinez, Lower Orinda and Moraga Pumping Stations

Are your headworks equipped with screens? Description of screen(s), select all that apply.

- Manually cleaned bar
- Mechanically cleaned bar
- Mechanically cleaned bar: Chain/cable driven
- Mechanically cleaned bar: Reciprocating rake
- Mechanically cleaned bar: Continuous self-cleaning
- Mechanically cleaned fine screen
- Other:

a. Are there grinders, comminutors, or other equipment installed upstream to or at the screen(s) that would tear apart or damage materials?

No

How many miles of collection system?

- Less than 50
- 51 to 100
- 101 to 500
- 501 to 1,000
- 1,000 to 5,000
- Greater than 5,000

How many lift stations?

- 0 to 5
- 6 to 20
- Greater than 21

How many lift stations w/solids handling pumps?

- 0 to 5
- 6 to 20
- Greater than 21

How many lift stations w/grinders/chopper pumps?

- 0 to 5
- 6 to 20
- Greater than 21

Number of total connections?

118,784

Number of Single Family connections?

98,557

Number of Multi-Family units?

40,588

Number of Hospitals, Daycares, Care Centers, etc.?

219

Do you track frequency of screen cleanings and screening equipment maintenance logs?

Yes

No

In the collection system: On average, how many ragging events do you experience per week?

Less than 2

3 to 6

7 to 14

Greater than 14

In the collection system: If more than 0 events per week, roughly how many labor-hours per week are used to address "ragging"?

- 1 to 2 hours
- 3 to 6 hours
- 7 to 10 hours
- 11 to 20 hours
- Greater than 20 hours

At the headworks: How many "ragging" events do you experience per week?

- Less than 2
- 3 to 6
- 7 to 14
- Greater than 14

At the headworks: If more than 0, roughly how many labor-hours/week are used to address "ragging"?

- 1 to 2 hours
- 3 to 6 hours
- 7 to 10 hours
- 11 to 20 hours
- Greater than 20 hours

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AB 818 Wipes Collection Study Survey

To gain understanding of consumer behavior regarding the flushing of pre-moistened non-woven disposal wipes as a key input into the design of the consumer education and outreach program, representatives from the California Association of Sanitation Agencies (CASA) and representatives from the pre-moistened non-woven disposable wipes manufacturers (INDA, Association of the Non-woven Fabrics Industry) formed an advisory group to collaborate on the wipes collection study.

Through sampling events, the study will collect data from participating wastewater collection systems related to the volume and characteristics of non-sewage materials that are being flushed into the collection system, including pre-moistened non-woven disposal wipes as well as other material (e.g. clothing, toys) and sampling conditions. The data will be collated and summarized for use in the design of the consumer education and outreach program.

To help the support the design of the collection study, please answer the following questions:

The respondent's email (abudicin@wmwd.com) was recorded on submission of this form.

Email *

abudicin@wmwd.com



1. Is your agency interested in participating in a wipes collection study? Participation requirements:

i. At least 1-2 staff available to collect, clean, separate, and sort collected materials from your facility's bar screen(s) and record information on provided forms.

ii. Participation in a training session and a series of collection events (one in the wet season and one in the dry season). Collection events are estimated to take place over 3 consecutive days of 2-4 hours each day during peak flows.

Yes

No

Name, phone number, and email address of someone we can contact for follow-up.

Anthony Budicin, (951) 571-7288

Agency Name

Western Riverside County Regional Wastewater Authority

Treatment Facility Name

Western Riverside County Regional Wastewater Treatment Plant

Service Area (city name, county, geographic description, etc.)

Eastvale, City of Norco, City of Corona, City of Riverside, Home Gardens - All in Riverside County

Is GIS available for your collection system?

- Yes
- No

Is your collection system

- Combined sewer/storm system
- Dedicated sewer
- Both

What is the average sanitary or dry weather flow of your treatment facility?

- Less than 1.0 MGD
- 1.1 MGD to 5.0 MGD
- 5.1 MGD to 10.0 MGD
- 10.1 MGD to 25.0 MGD
- 25.1 MGD to 50.0 MGD
- Greater than 50.0 MGD

How is sewage conveyed?

- Predominantly Gravity
- Predominantly Pumped
- Trucked in from another entity
- Connection with another Collection system(s)
- Other:

Are your pumped stations equipped with screens? Description of screens, select all that apply.

- Manually cleaned bar
- Mechanically cleaned bar
- Mechanically cleaned bar: Chain/cable driven
- Mechanically cleaned bar: Reciprocating rake
- Mechanically cleaned bar: Continuous self-cleaning
- Mechanically cleaned fine screen
- Other:

a. Are there grinders, comminutors, or other equipment installed upstream to or at the screen(s) that would tear apart or damage materials?

No

Are your headworks equipped with screens? Description of screen(s), select all that apply.

- Manually cleaned bar
- Mechanically cleaned bar
- Mechanically cleaned bar: Chain/cable driven
- Mechanically cleaned bar: Reciprocating rake
- Mechanically cleaned bar: Continuous self-cleaning
- Mechanically cleaned fine screen
- Other:

a. Are there grinders, comminutors, or other equipment installed upstream to or at the screen(s) that would tear apart or damage materials?

No

How many miles of collection system?

- Less than 50
- 51 to 100
- 101 to 500
- 501 to 1,000
- 1,000 to 5,000
- Greater than 5,000

How many lift stations?

- 0 to 5
- 6 to 20
- Greater than 21

How many lift stations w/solids handling pumps?

- 0 to 5
- 6 to 20
- Greater than 21

How many lift stations w/grinders/chopper pumps?

- 0 to 5
- 6 to 20
- Greater than 21

Number of total connections?

21,693 (minimum)

Number of Single Family connections?

21,193 (minimum)

Number of Multi-Family units?

488 (minimum)

Number of Hospitals, Daycares, Care Centers, etc.?

12 (minimum)

Do you track frequency of screen cleanings and screening equipment maintenance logs?

Yes

No

In the collection system: On average, how many ragging events do you experience per week?

Less than 2

3 to 6

7 to 14

Greater than 14

In the collection system: If more than 0 events per week, roughly how many labor-hours per week are used to address "ragging"?

- 1 to 2 hours
- 3 to 6 hours
- 7 to 10 hours
- 11 to 20 hours
- Greater than 20 hours

At the headworks: How many "ragging" events do you experience per week?

- Less than 2
- 3 to 6
- 7 to 14
- Greater than 14

At the headworks: If more than 0, roughly how many labor-hours/week are used to address "ragging"?

- 1 to 2 hours
- 3 to 6 hours
- 7 to 10 hours
- 11 to 20 hours
- Greater than 20 hours

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AB 818 Wipes Collection Study Survey

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To help the support the design of the collection study, please answer the following questions:

The respondent's email (jdang@oroloma.org) was recorded on submission of this form.

Email *

jdang@oroloma.org



1. Is your agency interested in participating in a wipes collection study? Participation requirements:

i. At least 1-2 staff available to collect, clean, separate, and sort collected materials from your facility's bar screen(s) and record information on provided forms.

ii. Participation in a training session and a series of collection events (one in the wet season and one in the dry season). Collection events are estimated to take place over 3 consecutive days of 2-4 hours each day during peak flows.

Yes

No

Name, phone number, and email address of someone we can contact for follow-up.

Jimmy Dang

Agency Name

Oro Loma Sanitary District

Treatment Facility Name

Oro Loma/Castro Valley Sanitary District Water Pollution Control Plant

Service Area (city name, county, geographic description, etc.)

San Lorenzo, CA

Is GIS available for your collection system?

- Yes
- No

Is your collection system

- Combined sewer/storm system
- Dedicated sewer
- Both

What is the average sanitary or dry weather flow of your treatment facility?

- Less than 1.0 MGD
- 1.1 MGD to 5.0 MGD
- 5.1 MGD to 10.0 MGD
- 10.1 MGD to 25.0 MGD
- 25.1 MGD to 50.0 MGD
- Greater than 50.0 MGD

How is sewage conveyed?

- Predominantly Gravity
- Predominantly Pumped
- Trucked in from another entity
- Connection with another Collection system(s)
- Other:

Are your pumped stations equipped with screens? Description of screens, select all that apply.

- Manually cleaned bar
- Mechanically cleaned bar
- Mechanically cleaned bar: Chain/cable driven
- Mechanically cleaned bar: Reciprocating rake
- Mechanically cleaned bar: Continuous self-cleaning
- Mechanically cleaned fine screen
- Other:

a. Are there grinders, comminutors, or other equipment installed upstream to or at the screen(s) that would tear apart or damage materials?

No.

Are your headworks equipped with screens? Description of screen(s), select all that apply.

- Manually cleaned bar
- Mechanically cleaned bar
- Mechanically cleaned bar: Chain/cable driven
- Mechanically cleaned bar: Reciprocating rake
- Mechanically cleaned bar: Continuous self-cleaning
- Mechanically cleaned fine screen
- Other:

a. Are there grinders, comminutors, or other equipment installed upstream to or at the screen(s) that would tear apart or damage materials?

No.

How many miles of collection system?

- Less than 50
- 51 to 100
- 101 to 500
- 501 to 1,000
- 1,000 to 5,000
- Greater than 5,000

How many lift stations?

- 0 to 5
- 6 to 20
- Greater than 21

How many lift stations w/solids handling pumps?

- 0 to 5
- 6 to 20
- Greater than 21

How many lift stations w/grinders/chopper pumps?

- 0 to 5
- 6 to 20
- Greater than 21

Number of total connections?

47000

Number of Single Family connections?

45000

Number of Multi-Family units?

2000

Number of Hospitals, Daycares, Care Centers, etc.?

1-10

Do you track frequency of screen cleanings and screening equipment maintenance logs?

Yes

No

In the collection system: On average, how many ragging events do you experience per week?

Less than 2

3 to 6

7 to 14

Greater than 14

In the collection system: If more than 0 events per week, roughly how many labor-hours per week are used to address "ragging"?

- 1 to 2 hours
- 3 to 6 hours
- 7 to 10 hours
- 11 to 20 hours
- Greater than 20 hours

At the headworks: How many "ragging" events do you experience per week?

- Less than 2
- 3 to 6
- 7 to 14
- Greater than 14

At the headworks: If more than 0, roughly how many labor-hours/week are used to address "ragging"?

- 1 to 2 hours
- 3 to 6 hours
- 7 to 10 hours
- 11 to 20 hours
- Greater than 20 hours

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AB 818 Wipes Collection Study Survey

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To help support the design of the collection study, please answer the following questions:

The respondent's email (aflesse@santabarbaraca.gov) was recorded on submission of this form.

Email *

aflesse@santabarbaraca.gov



1. Is your agency interested in participating in a wipes collection study? Participation requirements:

i. At least 1-2 staff available to collect, clean, separate, and sort collected materials from your facility's bar screen(s) and record information on provided forms.

ii. Participation in a training session and a series of collection events (one in the wet season and one in the dry season). Collection events are estimated to take place over 3 consecutive days of 2-4 hours each day during peak flows.

Yes

No

Name, phone number, and email address of someone we can contact for follow-up.

Amanda Flesse, 805-564-5412, aflesse@santabarbaraca.gov

Agency Name

City of Santa Barbara

Treatment Facility Name

El Estero Water Resource Center

Service Area (city name, county, geographic description, etc.)

City of Santa Barbara, Santa Barbara County

Is GIS available for your collection system?

- Yes
- No

Is your collection system

- Combined sewer/storm system
- Dedicated sewer
- Both

What is the average sanitary or dry weather flow of your treatment facility?

- Less than 1.0 MGD
- 1.1 MGD to 5.0 MGD
- 5.1 MGD to 10.0 MGD
- 10.1 MGD to 25.0 MGD
- 25.1 MGD to 50.0 MGD
- Greater than 50.0 MGD

How is sewage conveyed?

- Predominantly Gravity
- Predominantly Pumped
- Trucked in from another entity
- Connection with another Collection system(s)
- Other:

Are your pumped stations equipped with screens? Description of screens, select all that apply.

- Manually cleaned bar
- Mechanically cleaned bar
- Mechanically cleaned bar: Chain/cable driven
- Mechanically cleaned bar: Reciprocating rake
- Mechanically cleaned bar: Continuous self-cleaning
- Mechanically cleaned fine screen
- Other:

a. Are there grinders, comminutors, or other equipment installed upstream to or at the screen(s) that would tear apart or damage materials?

No

Are your headworks equipped with screens? Description of screen(s), select all that apply.

- Manually cleaned bar
- Mechanically cleaned bar
- Mechanically cleaned bar: Chain/cable driven
- Mechanically cleaned bar: Reciprocating rake
- Mechanically cleaned bar: Continuous self-cleaning
- Mechanically cleaned fine screen
- Other:

a. Are there grinders, comminutors, or other equipment installed upstream to or at the screen(s) that would tear apart or damage materials?

No, just the lift stations

How many miles of collection system?

- Less than 50
- 51 to 100
- 101 to 500
- 501 to 1,000
- 1,000 to 5,000
- Greater than 5,000

How many lift stations?

- 0 to 5
- 6 to 20
- Greater than 21

How many lift stations w/solids handling pumps?

- 0 to 5
- 6 to 20
- Greater than 21

How many lift stations w/grinders/chopper pumps?

- 0 to 5
- 6 to 20
- Greater than 21

Number of total connections?

27,000

Number of Single Family connections?

Number of Multi-Family units?

Number of Hospitals, Daycares, Care Centers, etc.?

Do you track frequency of screen cleanings and screening equipment maintenance logs?

Yes

No

In the collection system: On average, how many ragging events do you experience per week?

Less than 2

3 to 6

7 to 14

Greater than 14

In the collection system: If more than 0 events per week, roughly how many labor-hours per week are used to address "ragging"?

- 1 to 2 hours
- 3 to 6 hours
- 7 to 10 hours
- 11 to 20 hours
- Greater than 20 hours

At the headworks: How many "ragging" events do you experience per week?

- Less than 2
- 3 to 6
- 7 to 14
- Greater than 14

At the headworks: If more than 0, roughly how many labor-hours/week are used to address "ragging"?

- 1 to 2 hours
- 3 to 6 hours
- 7 to 10 hours
- 11 to 20 hours
- Greater than 20 hours

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AB 818 Wipes Collection Study Survey

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To help the support the design of the collection study, please answer the following questions:

The respondent's email (joser@unionsanitary.ca.gov) was recorded on submission of this form.

Email *

joser@unionsanitary.ca.gov



1. Is your agency interested in participating in a wipes collection study? Participation requirements:

i. At least 1-2 staff available to collect, clean, separate, and sort collected materials from your facility's bar screen(s) and record information on provided forms.

ii. Participation in a training session and a series of collection events (one in the wet season and one in the dry season). Collection events are estimated to take place over 3 consecutive days of 2-4 hours each day during peak flows.

Yes

No

Name, phone number, and email address of someone we can contact for follow-up.

Jose Rodrigues, 510-477-7542, Joser@unionsanitary.ca.gov

Agency Name

Union Sanitary District

Treatment Facility Name

Raymond A Boege Alvarado WWTP

Service Area (city name, county, geographic description, etc.)

Fremont, Newark, Union City (Alameda County)

Is GIS available for your collection system?

- Yes
- No

Is your collection system

- Combined sewer/storm system
- Dedicated sewer
- Both

What is the average sanitary or dry weather flow of your treatment facility?

- Less than 1.0 MGD
- 1.1 MGD to 5.0 MGD
- 5.1 MGD to 10.0 MGD
- 10.1 MGD to 25.0 MGD
- 25.1 MGD to 50.0 MGD
- Greater than 50.0 MGD

How is sewage conveyed?

- Predominantly Gravity
- Predominantly Pumped
- Trucked in from another entity
- Connection with another Collection system(s)
- Other:

Are your pumped stations equipped with screens? Description of screens, select all that apply.

- Manually cleaned bar
- Mechanically cleaned bar
- Mechanically cleaned bar: Chain/cable driven
- Mechanically cleaned bar: Reciprocating rake
- Mechanically cleaned bar: Continuous self-cleaning
- Mechanically cleaned fine screen
- Other:

a. Are there grinders, comminutors, or other equipment installed upstream to or at the screen(s) that would tear apart or damage materials?

No

Are your headworks equipped with screens? Description of screen(s), select all that apply.

- Manually cleaned bar
- Mechanically cleaned bar
- Mechanically cleaned bar: Chain/cable driven
- Mechanically cleaned bar: Reciprocating rake
- Mechanically cleaned bar: Continuous self-cleaning
- Mechanically cleaned fine screen
- Other:

a. Are there grinders, comminutors, or other equipment installed upstream to or at the screen(s) that would tear apart or damage materials?

No

How many miles of collection system?

- Less than 50
- 51 to 100
- 101 to 500
- 501 to 1,000
- 1,000 to 5,000
- Greater than 5,000

How many lift stations?

- 0 to 5
- 6 to 20
- Greater than 21

How many lift stations w/solids handling pumps?

- 0 to 5
- 6 to 20
- Greater than 21

How many lift stations w/grinders/chopper pumps?

- 0 to 5
- 6 to 20
- Greater than 21

Number of total connections?

118,973

Number of Single Family connections?

69,927

Number of Multi-Family units?

47,178

Number of Hospitals, Daycares, Care Centers, etc.?

501 - this includes schools

Do you track frequency of screen cleanings and screening equipment maintenance logs?

Yes

No

In the collection system: On average, how many ragging events do you experience per week?

Less than 2

3 to 6

7 to 14

Greater than 14

In the collection system: If more than 0 events per week, roughly how many labor-hours per week are used to address "ragging"?

- 1 to 2 hours
- 3 to 6 hours
- 7 to 10 hours
- 11 to 20 hours
- Greater than 20 hours

At the headworks: How many "ragging" events do you experience per week?

- Less than 2
- 3 to 6
- 7 to 14
- Greater than 14

At the headworks: If more than 0, roughly how many labor-hours/week are used to address "ragging"?

- 1 to 2 hours
- 3 to 6 hours
- 7 to 10 hours
- 11 to 20 hours
- Greater than 20 hours

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To help support the design of the collection study, please answer the following questions:

The respondent's email (mmorton@vallejowastewater.org) was recorded on submission of this form.

Email *

mmorton@vallejowastewater.org



1. Is your agency interested in participating in a wipes collection study? Participation requirements:

i. At least 1-2 staff available to collect, clean, separate, and sort collected materials from your facility's bar screen(s) and record information on provided forms.

ii. Participation in a training session and a series of collection events (one in the wet season and one in the dry season). Collection events are estimated to take place over 3 consecutive days of 2-4 hours each day during peak flows.

Yes

No

Name, phone number, and email address of someone we can contact for follow-up.

.....

Agency Name

Vallejo Flood and Wastewater District

.....

Treatment Facility Name

N/A

.....

Service Area (city name, county, geographic description, etc.)

City of Vallejo, SF Bay Area

.....

Is GIS available for your collection system?

- Yes
- No

Is your collection system

- Combined sewer/storm system
- Dedicated sewer
- Both

What is the average sanitary or dry weather flow of your treatment facility?

- Less than 1.0 MGD
- 1.1 MGD to 5.0 MGD
- 5.1 MGD to 10.0 MGD
- 10.1 MGD to 25.0 MGD
- 25.1 MGD to 50.0 MGD
- Greater than 50.0 MGD

How is sewage conveyed?

- Predominantly Gravity
- Predominantly Pumped
- Trucked in from another entity
- Connection with another Collection system(s)
- Other:

Are your pumped stations equipped with screens? Description of screens, select all that apply.

- Manually cleaned bar
- Mechanically cleaned bar
- Mechanically cleaned bar: Chain/cable driven
- Mechanically cleaned bar: Reciprocating rake
- Mechanically cleaned bar: Continuous self-cleaning
- Mechanically cleaned fine screen
- Other: None

a. Are there grinders, comminutors, or other equipment installed upstream to or at the screen(s) that would tear apart or damage materials?

No

Are your headworks equipped with screens? Description of screen(s), select all that apply.

- Manually cleaned bar
- Mechanically cleaned bar
- Mechanically cleaned bar: Chain/cable driven
- Mechanically cleaned bar: Reciprocating rake
- Mechanically cleaned bar: Continuous self-cleaning
- Mechanically cleaned fine screen
- Other:

a. Are there grinders, comminutors, or other equipment installed upstream to or at the screen(s) that would tear apart or damage materials?

No

How many miles of collection system?

- Less than 50
- 51 to 100
- 101 to 500
- 501 to 1,000
- 1,000 to 5,000
- Greater than 5,000

How many lift stations?

- 0 to 5
- 6 to 20
- Greater than 21

How many lift stations w/solids handling pumps?

- 0 to 5
- 6 to 20
- Greater than 21

How many lift stations w/grinders/chopper pumps?

- 0 to 5
- 6 to 20
- Greater than 21

Number of total connections?

37,773

Number of Single Family connections?

34,332

Number of Multi-Family units?

2057

Number of Hospitals, Daycares, Care Centers, etc.?

1195 Commercial, 189 Government - 2 hospitals

Do you track frequency of screen cleanings and screening equipment maintenance logs?

Yes

No

In the collection system: On average, how many ragging events do you experience per week?

Less than 2

3 to 6

7 to 14

Greater than 14

In the collection system: If more than 0 events per week, roughly how many labor-hours per week are used to address "ragging"?

- 1 to 2 hours
- 3 to 6 hours
- 7 to 10 hours
- 11 to 20 hours
- Greater than 20 hours

At the headworks: How many "ragging" events do you experience per week?

- Less than 2
- 3 to 6
- 7 to 14
- Greater than 14

At the headworks: If more than 0, roughly how many labor-hours/week are used to address "ragging"?

- 1 to 2 hours
- 3 to 6 hours
- 7 to 10 hours
- 11 to 20 hours
- Greater than 20 hours

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Google Forms

AB 818 Wipes Collection Study Survey

To gain understanding of consumer behavior regarding the flushing of pre-moistened non-woven disposal wipes as a key input into the design of the consumer education and outreach program, representatives from the California Association of Sanitation Agencies (CASA) and representatives from the pre-moistened non-woven disposable wipes manufacturers (INDA, Association of the Non-woven Fabrics Industry) formed an advisory group to collaborate on the wipes collection study.

Through sampling events, the study will collect data from participating wastewater collection systems related to the volume and characteristics of non-sewage materials that are being flushed into the collection system, including pre-moistened non-woven disposal wipes as well as other material (e.g. clothing, toys) and sampling conditions. The data will be collated and summarized for use in the design of the consumer education and outreach program.

To help the support the design of the collection study, please answer the following questions:

The respondent's email (mbrooks@lakearrowheadcsd.com) was recorded on submission of this form.

Email *

mbrooks@lakearrowheadcsd.com



1. Is your agency interested in participating in a wipes collection study? Participation requirements:

i. At least 1-2 staff available to collect, clean, separate, and sort collected materials from your facility's bar screen(s) and record information on provided forms.

ii. Participation in a training session and a series of collection events (one in the wet season and one in the dry season). Collection events are estimated to take place over 3 consecutive days of 2-4 hours each day during peak flows.

Yes

No

Name, phone number, and email address of someone we can contact for follow-up.

Matt O'Kelly, (909) 336-7152, mokelly@lakearrowheadcsd.com

Agency Name

Lake Arrowhead Community Services District

Treatment Facility Name

Grass Valley WWTP

Service Area (city name, county, geographic description, etc.)

Lake Arrowhead, San Bernardino County

Is GIS available for your collection system?

- Yes
- No

Is your collection system

- Combined sewer/storm system
- Dedicated sewer
- Both

What is the average sanitary or dry weather flow of your treatment facility?

- Less than 1.0 MGD
- 1.1 MGD to 5.0 MGD
- 5.1 MGD to 10.0 MGD
- 10.1 MGD to 25.0 MGD
- 25.1 MGD to 50.0 MGD
- Greater than 50.0 MGD

How is sewage conveyed?

- Predominantly Gravity
- Predominantly Pumped
- Trucked in from another entity
- Connection with another Collection system(s)
- Other:

Are your pumped stations equipped with screens? Description of screens, select all that apply.

- Manually cleaned bar
- Mechanically cleaned bar
- Mechanically cleaned bar: Chain/cable driven
- Mechanically cleaned bar: Reciprocating rake
- Mechanically cleaned bar: Continuous self-cleaning
- Mechanically cleaned fine screen
- Other: No our pump stations do not have screening

a. Are there grinders, comminutors, or other equipment installed upstream to or at the screen(s) that would tear apart or damage materials?

No, grinders are downstream.

Are your headworks equipped with screens? Description of screen(s), select all that apply.

- Manually cleaned bar
- Mechanically cleaned bar
- Mechanically cleaned bar: Chain/cable driven
- Mechanically cleaned bar: Reciprocating rake
- Mechanically cleaned bar: Continuous self-cleaning
- Mechanically cleaned fine screen
- Other: Mechanically cleaned step-screen

a. Are there grinders, comminutors, or other equipment installed upstream to or at the screen(s) that would tear apart or damage materials?

No, grinders are downstream.

How many miles of collection system?

- Less than 50
- 51 to 100
- 101 to 500
- 501 to 1,000
- 1,000 to 5,000
- Greater than 5,000

How many lift stations?

- 0 to 5
- 6 to 20
- Greater than 21

How many lift stations w/solids handling pumps?

- 0 to 5
- 6 to 20
- Greater than 21

How many lift stations w/grinders/chopper pumps?

- 0 to 5
- 6 to 20
- Greater than 21

Number of total connections?

10,718

Number of Single Family connections?

10,320

Number of Multi-Family units?

137

Number of Hospitals, Daycares, Care Centers, etc.?

2

Do you track frequency of screen cleanings and screening equipment maintenance logs?

Yes

No

In the collection system: On average, how many ragging events do you experience per week?

Less than 2

3 to 6

7 to 14

Greater than 14

In the collection system: If more than 0 events per week, roughly how many labor-hours per week are used to address "ragging"?

- 1 to 2 hours
- 3 to 6 hours
- 7 to 10 hours
- 11 to 20 hours
- Greater than 20 hours

At the headworks: How many "ragging" events do you experience per week?

- Less than 2
- 3 to 6
- 7 to 14
- Greater than 14

At the headworks: If more than 0, roughly how many labor-hours/week are used to address "ragging"?

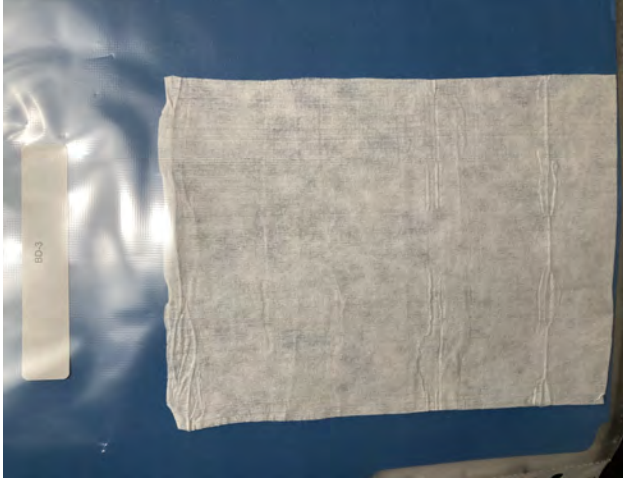
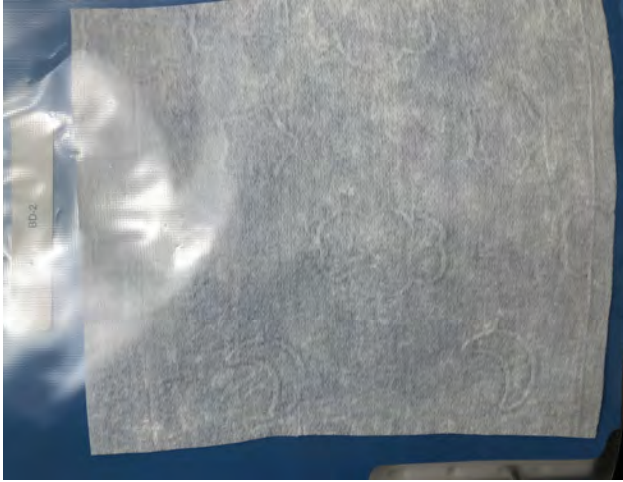
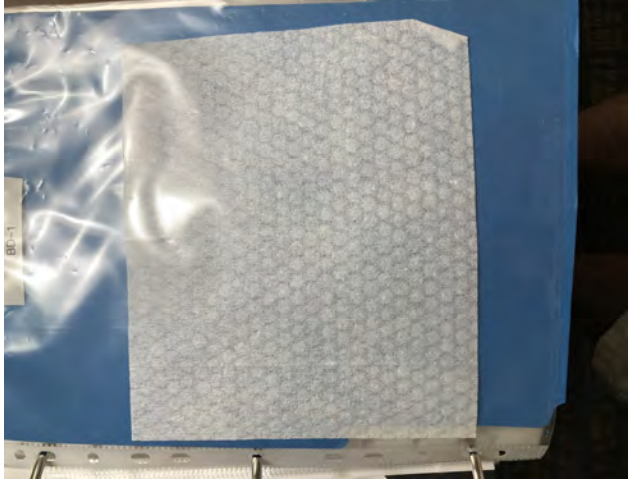
- 1 to 2 hours
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- Greater than 20 hours

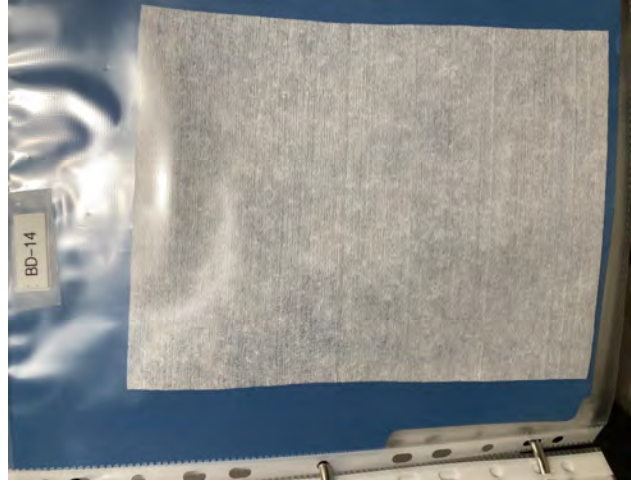
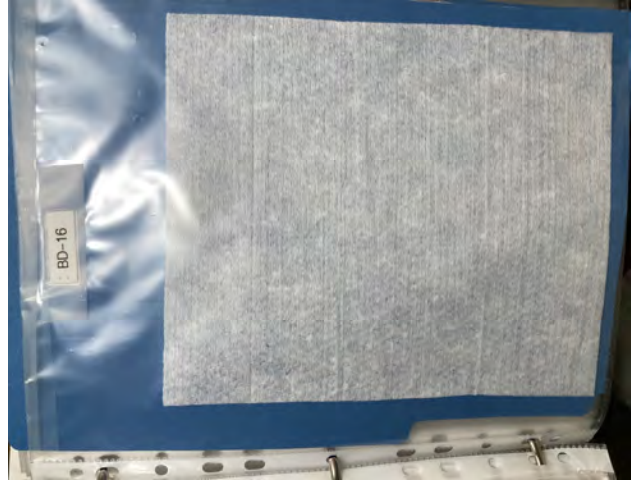
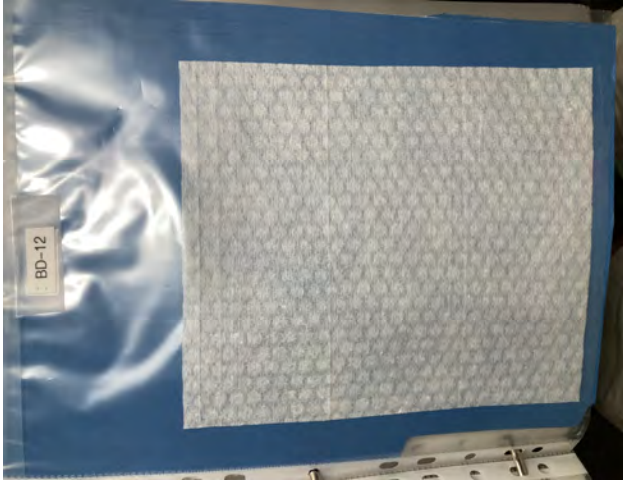
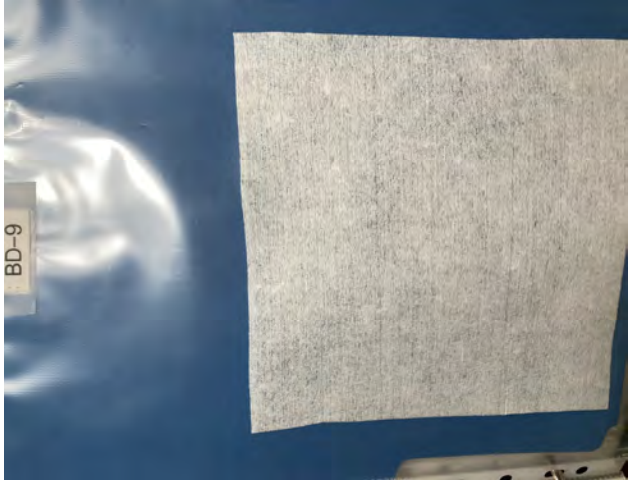
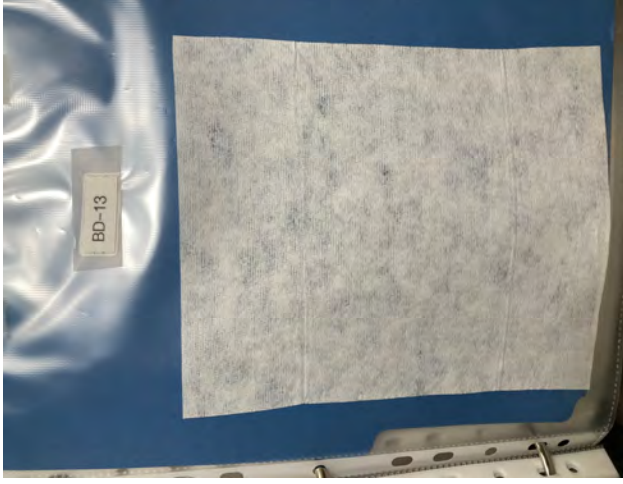
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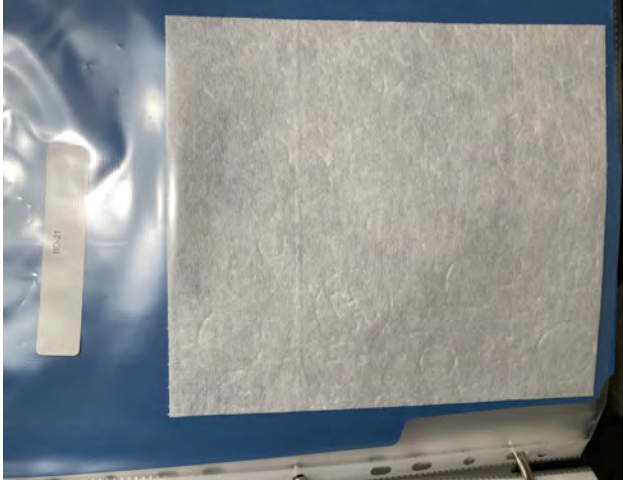
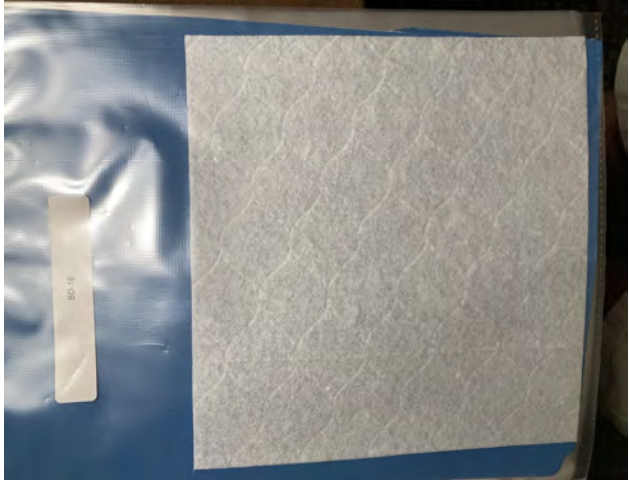
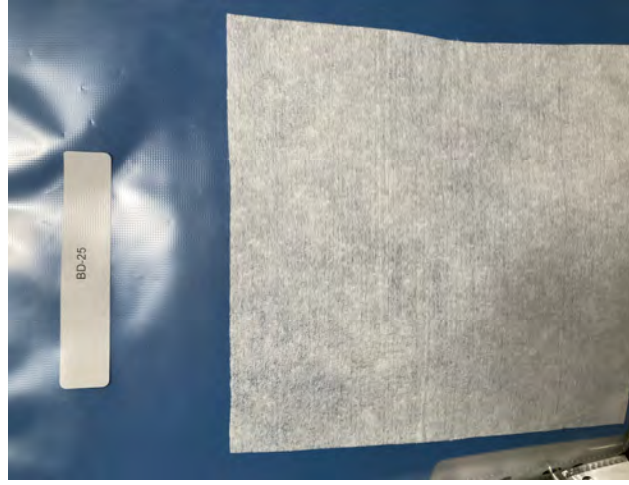
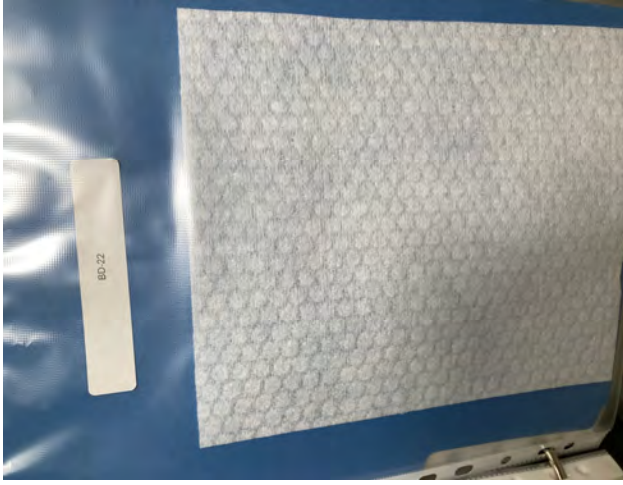
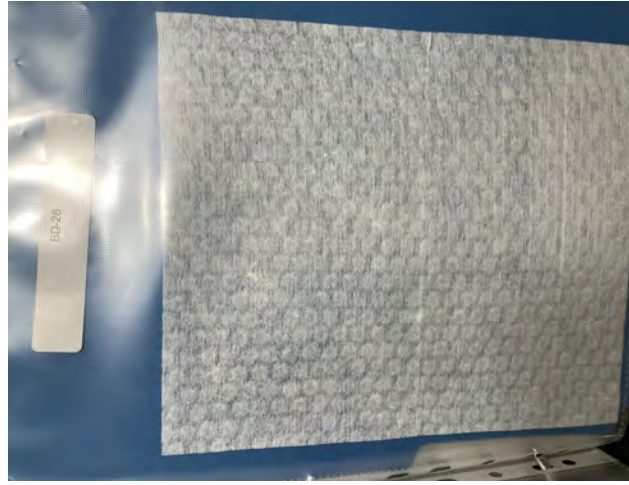
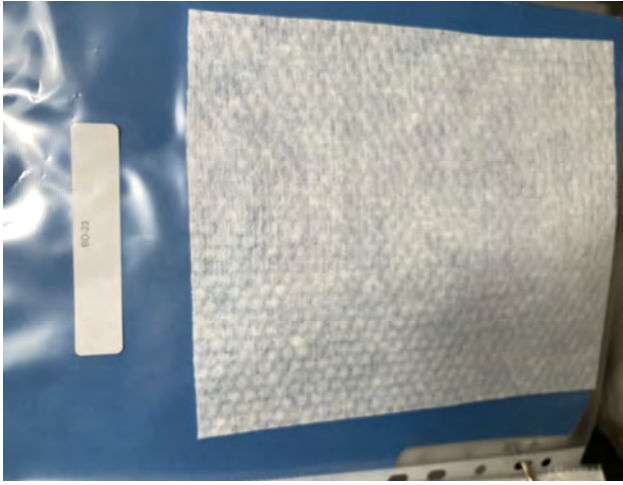
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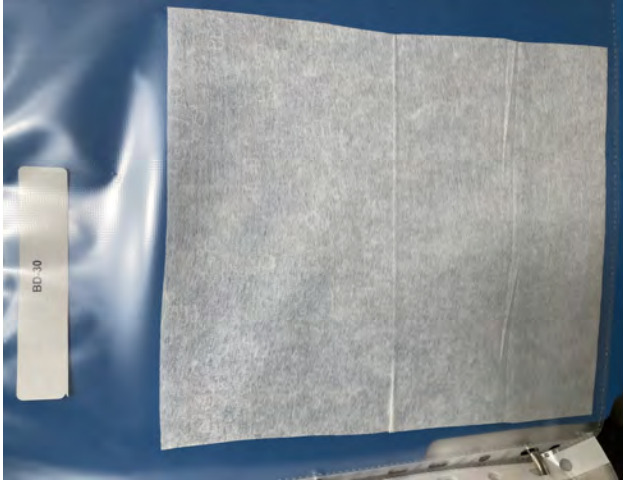
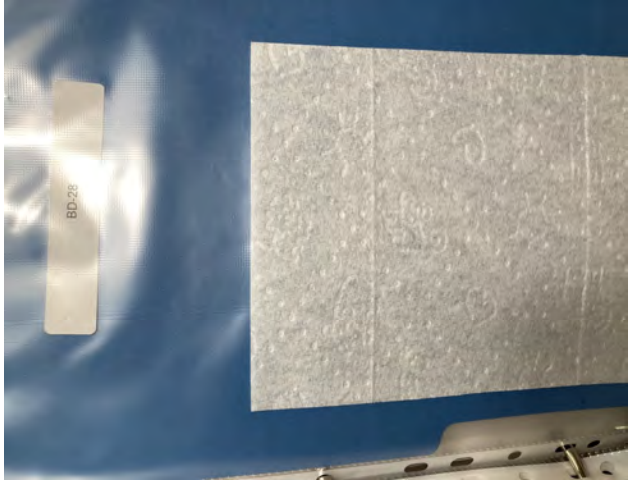
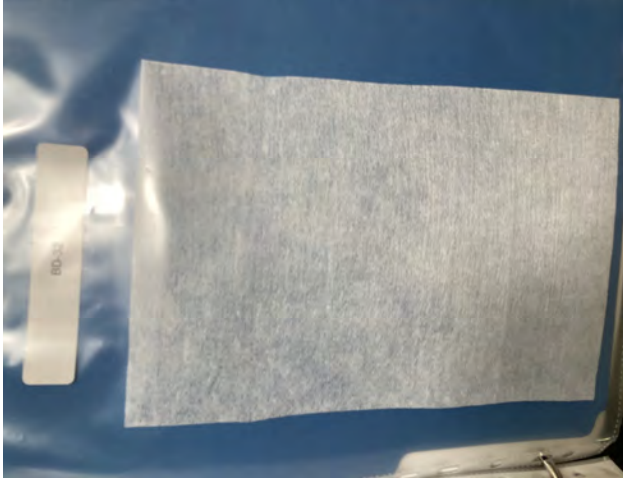
Appendix C

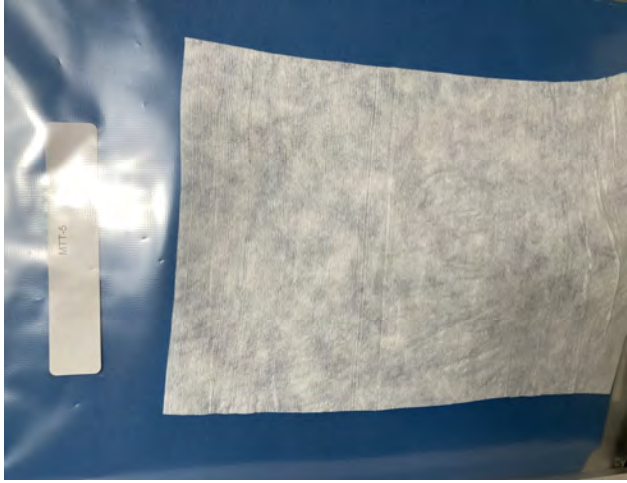
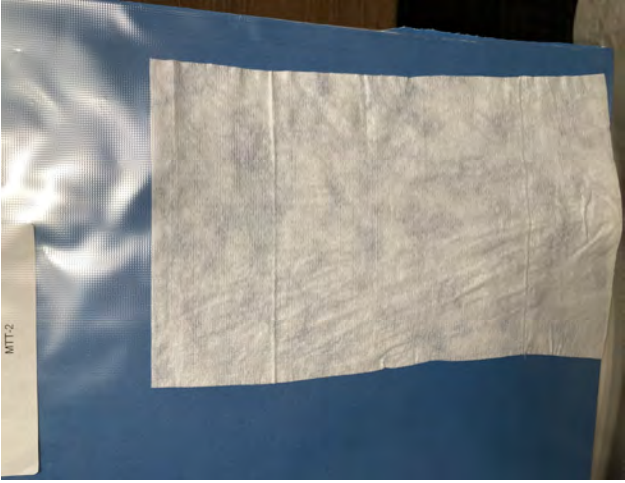
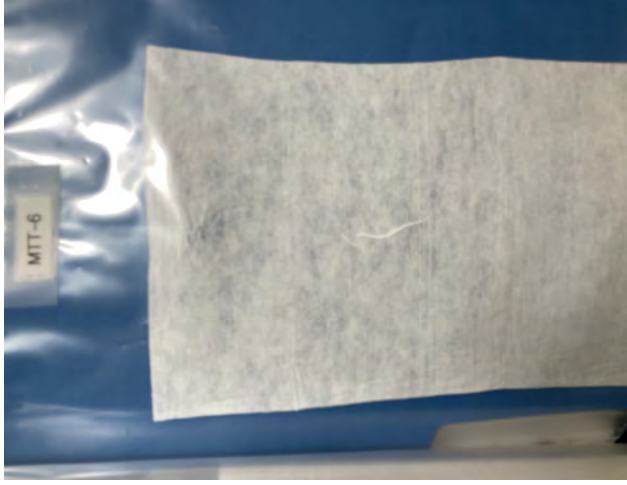
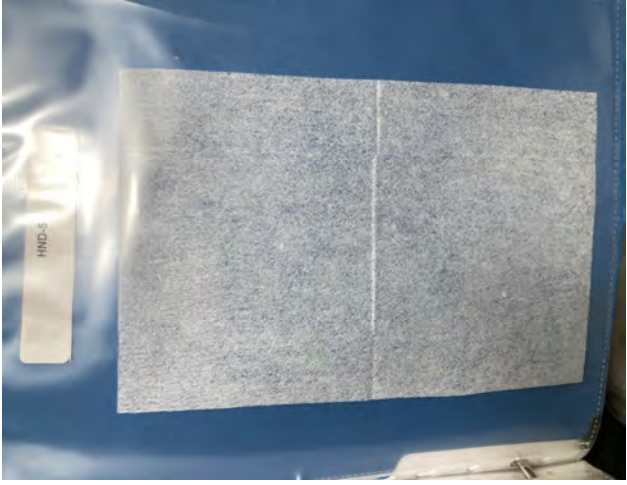
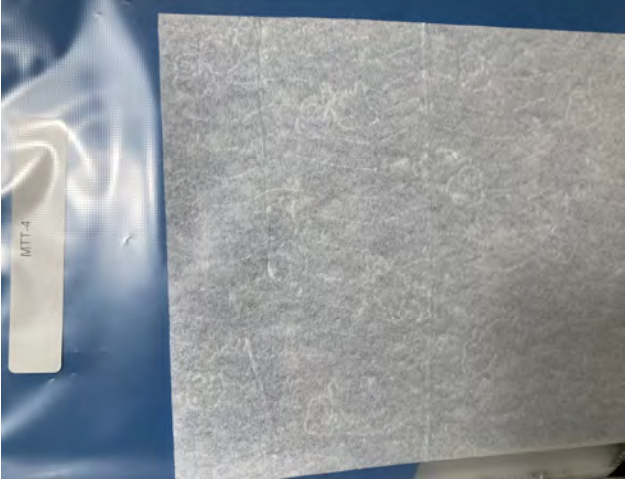
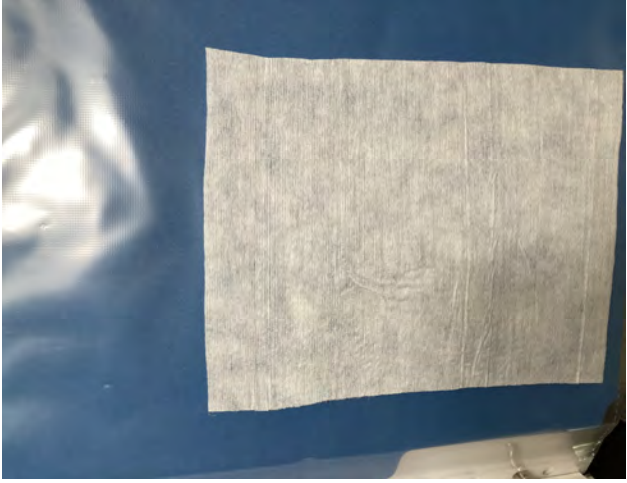
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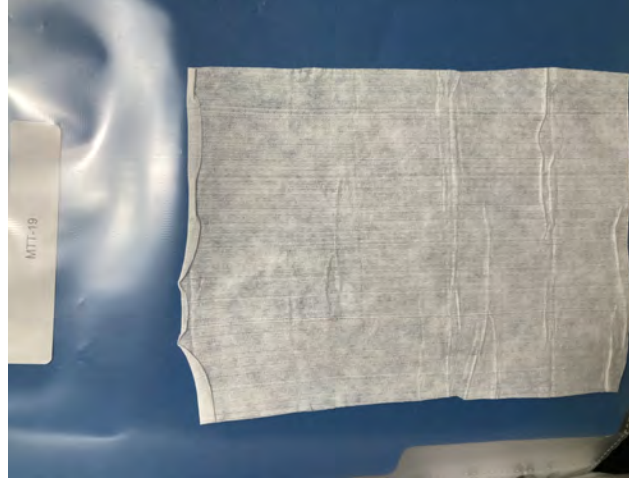
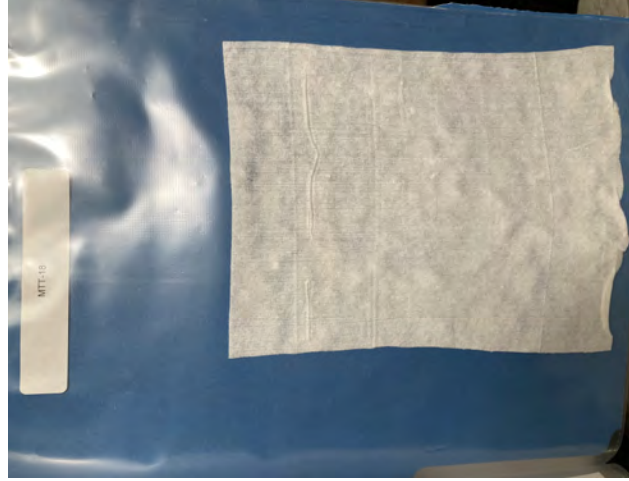
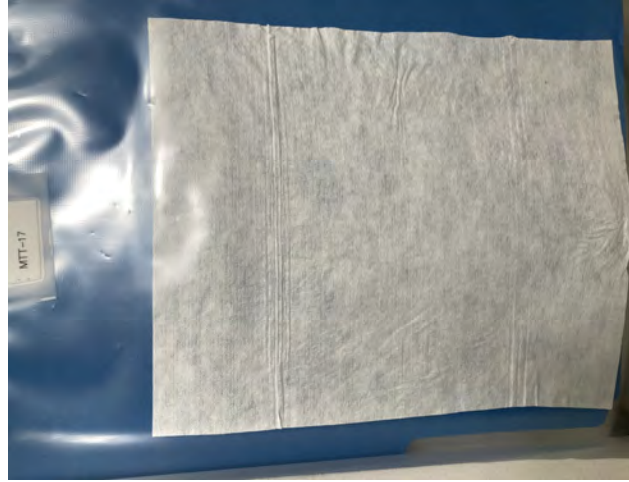
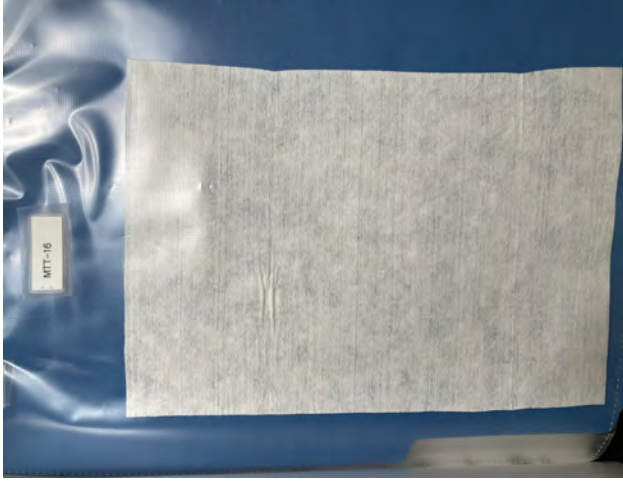
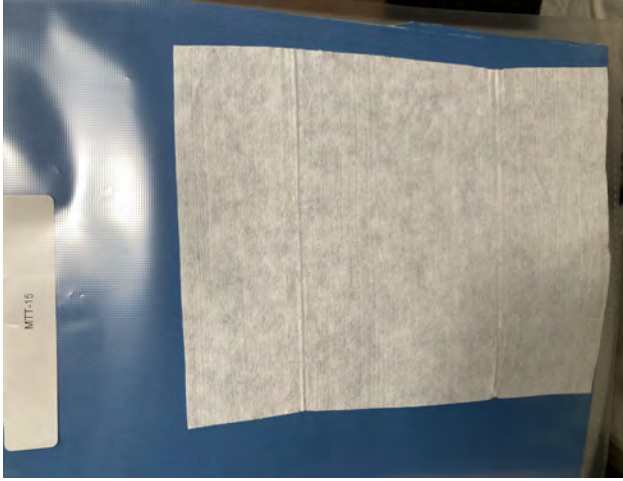
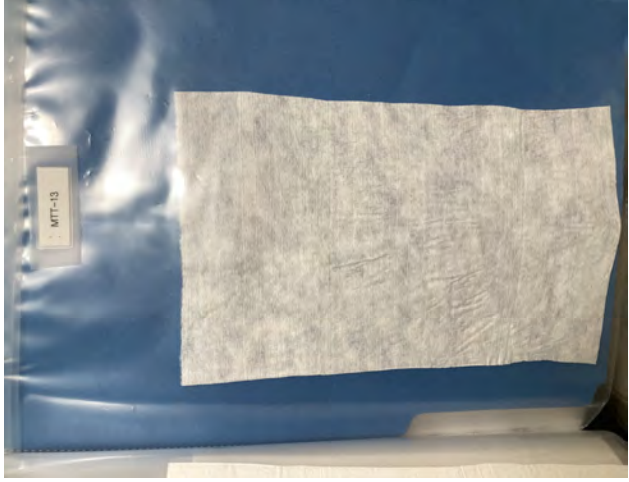
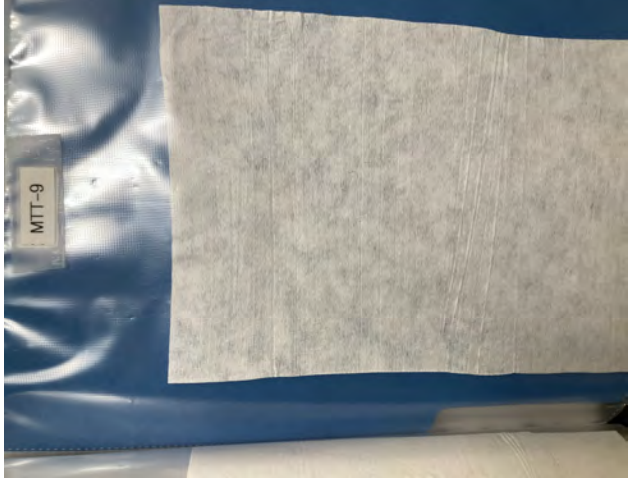
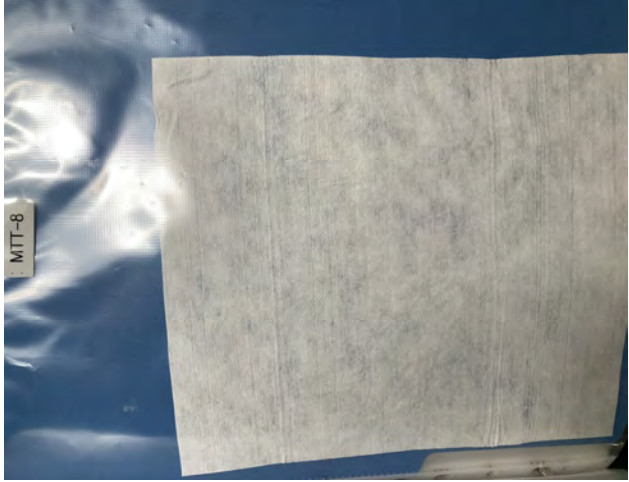


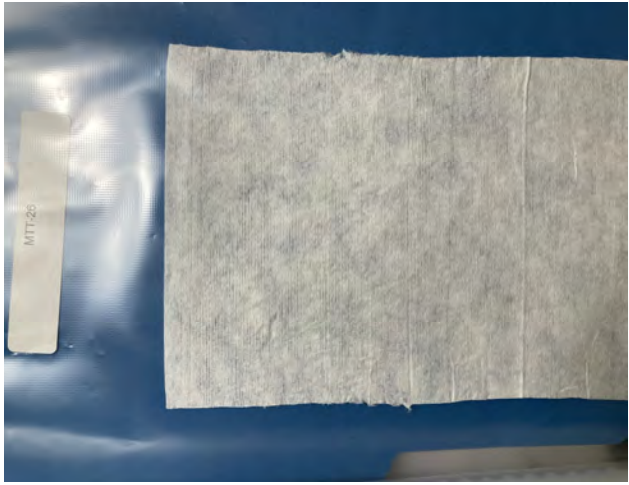
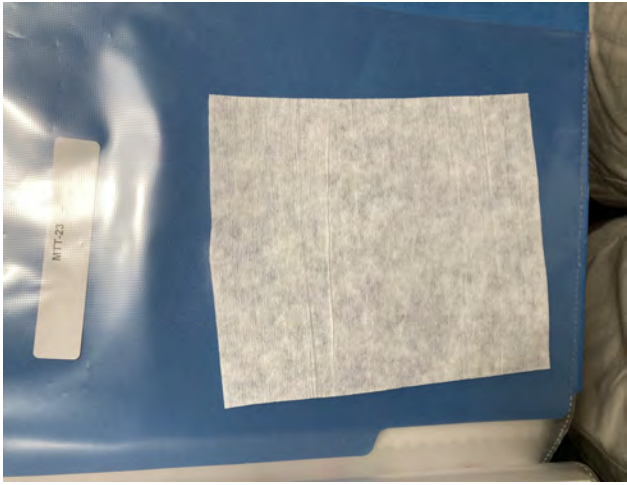
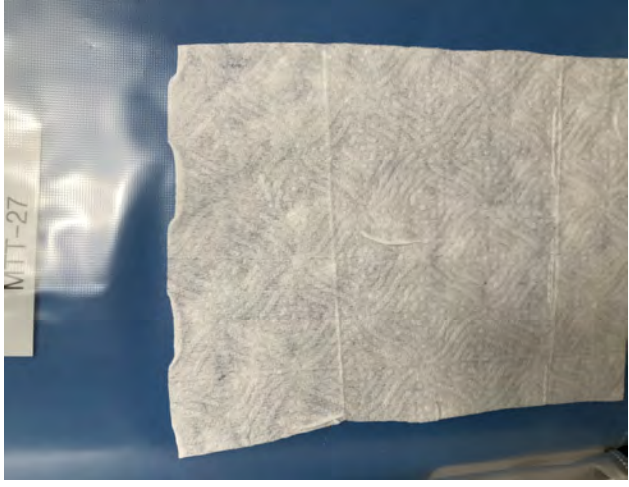
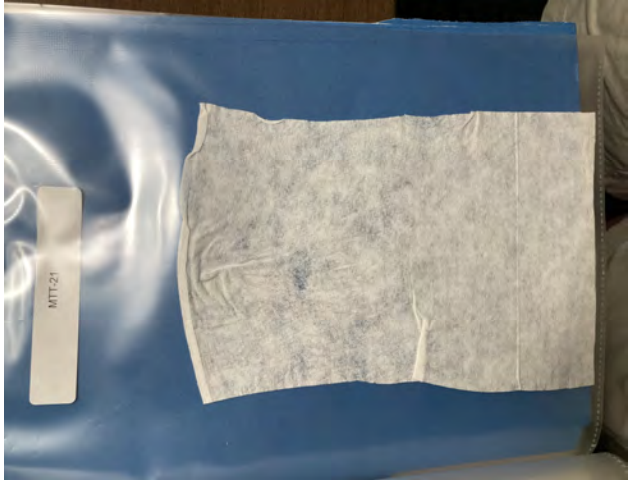
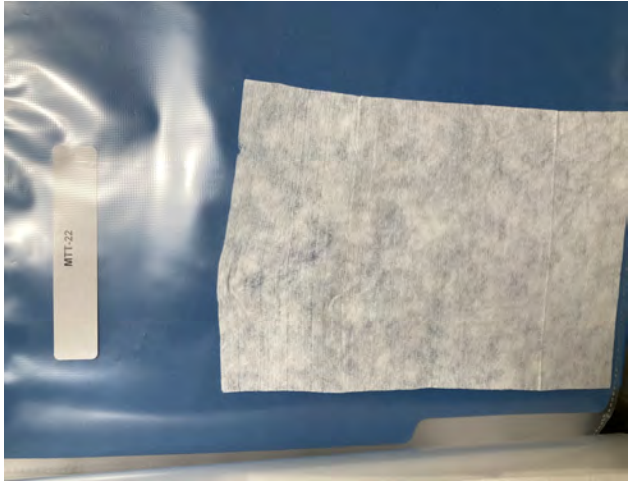


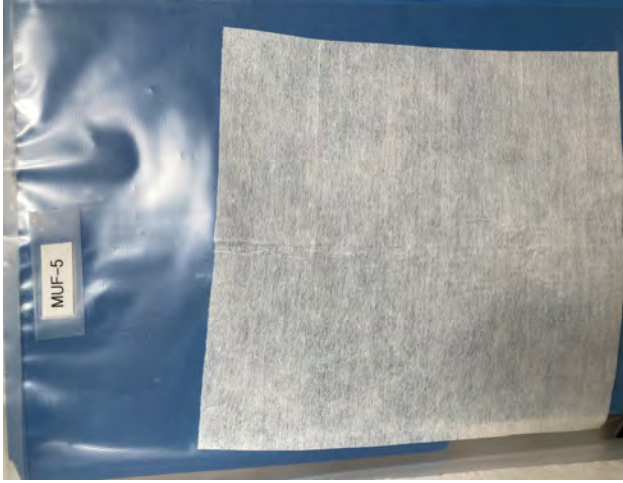
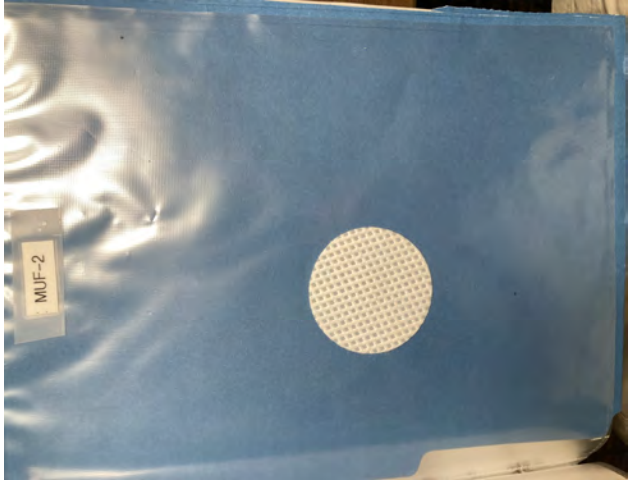
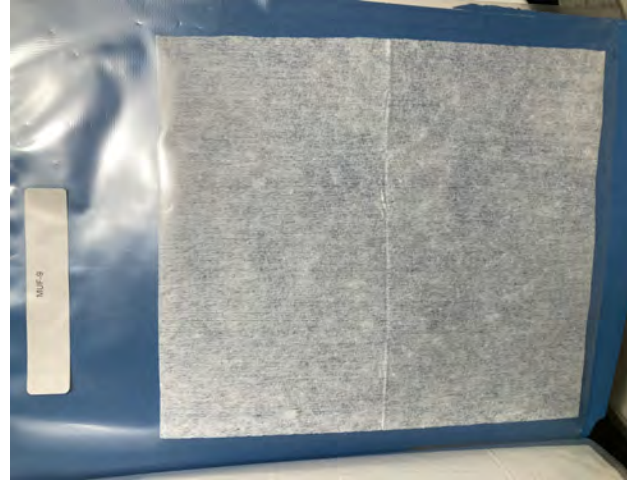
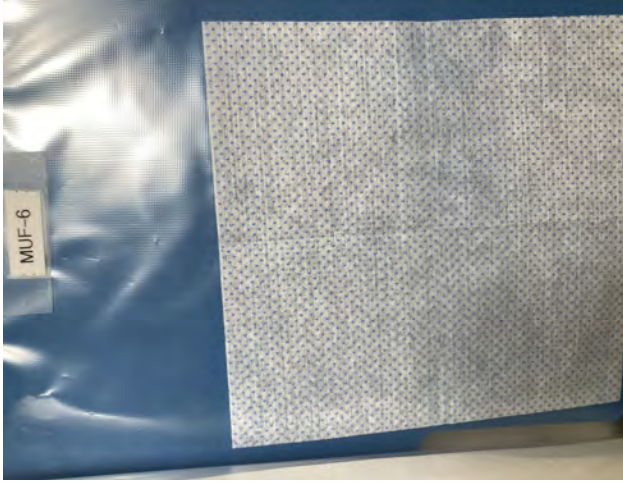
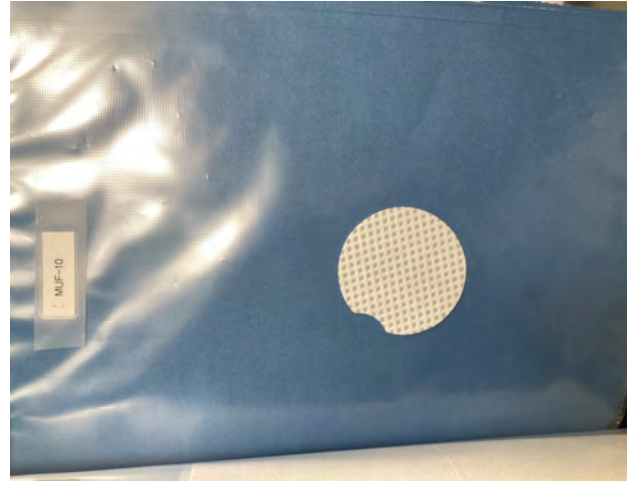
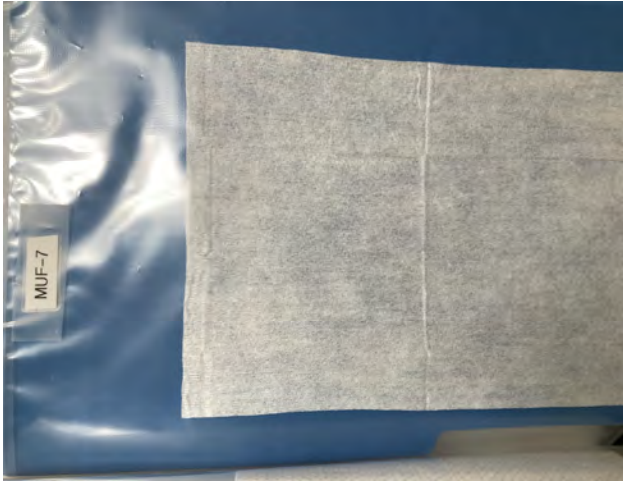


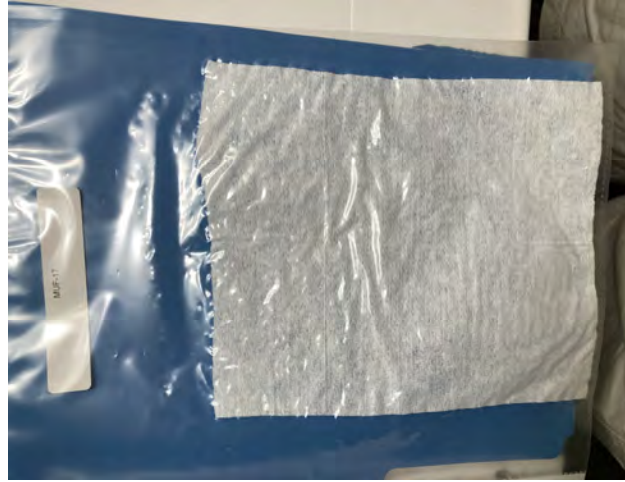
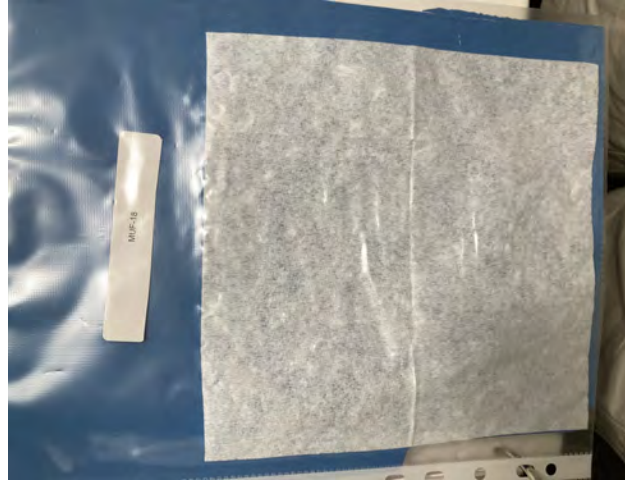
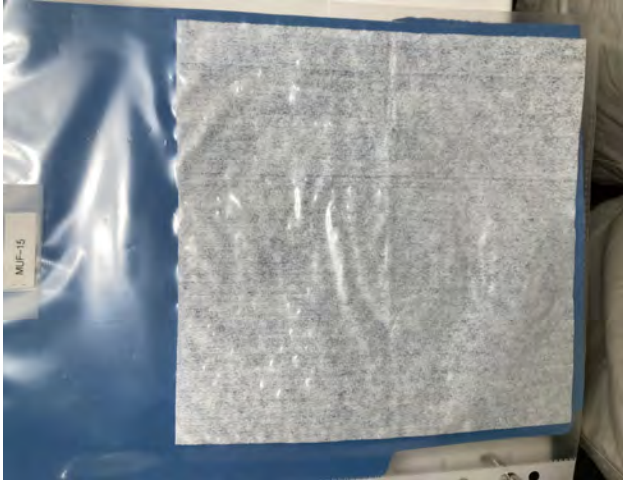
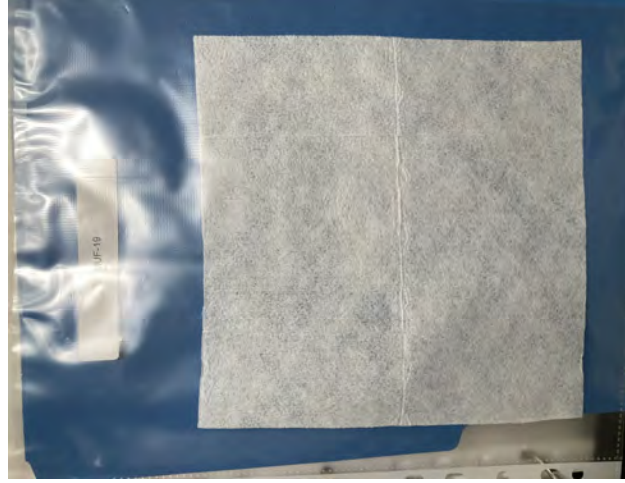
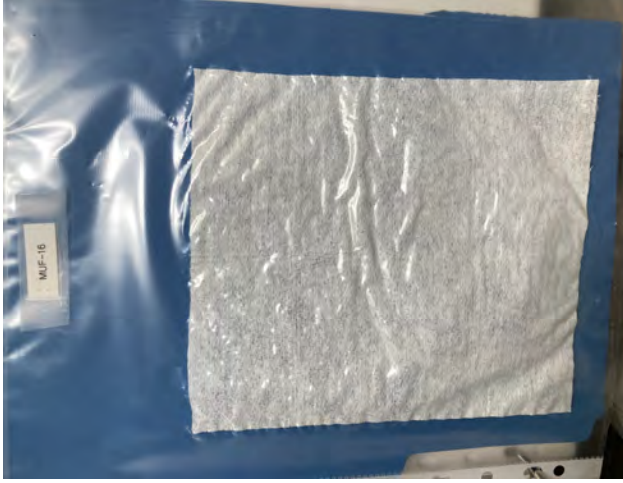


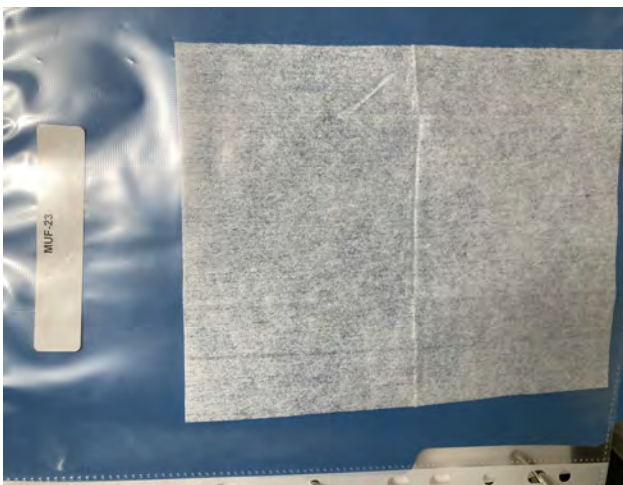
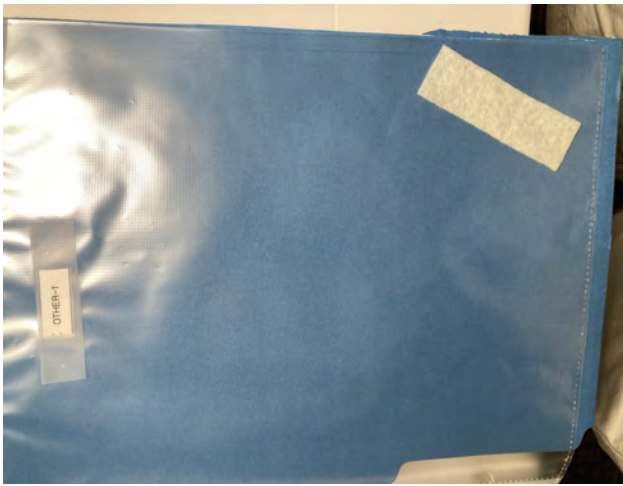
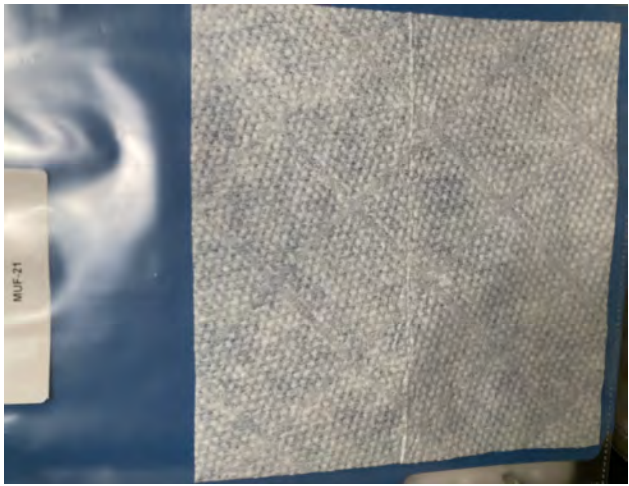
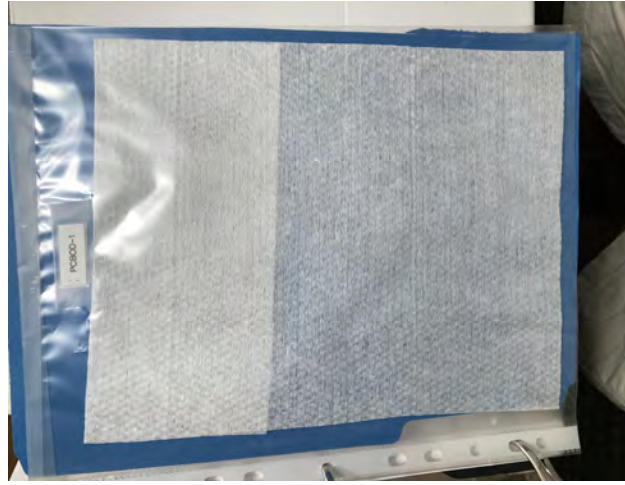
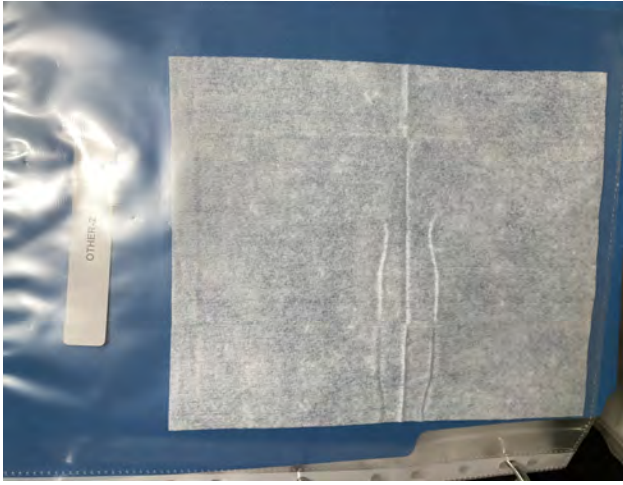


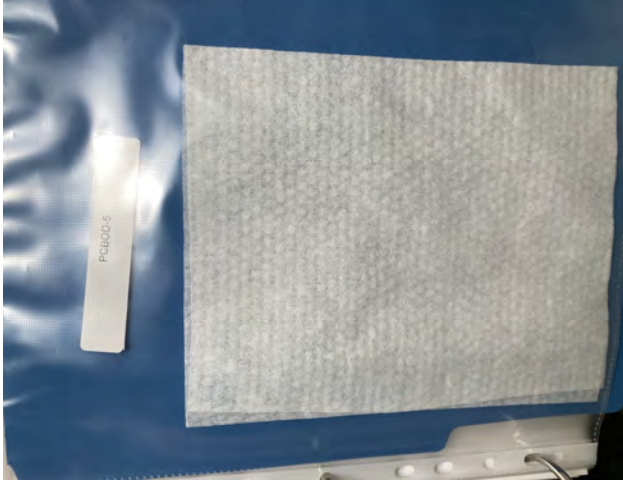
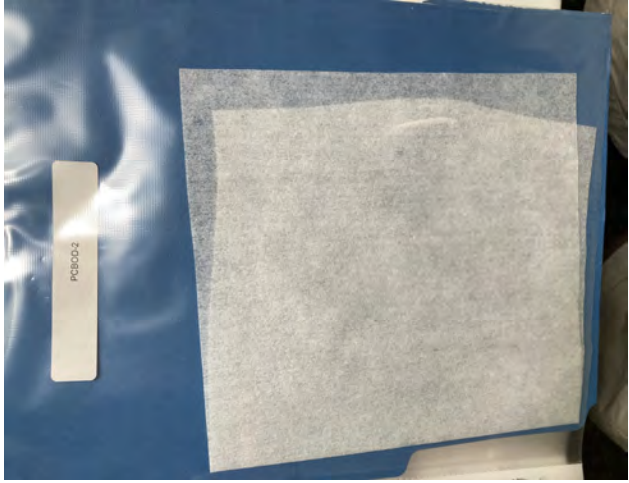
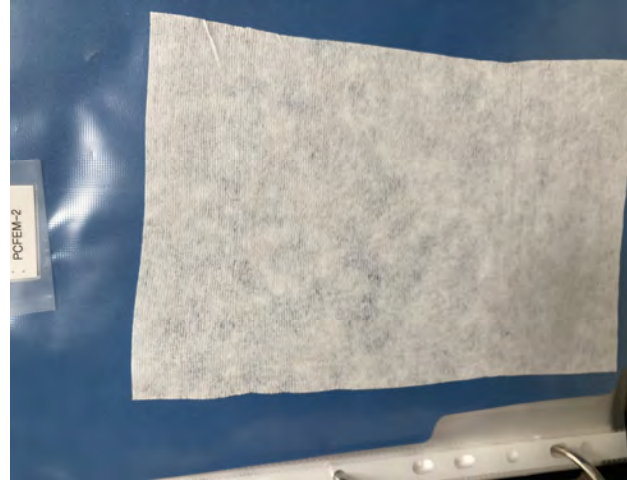
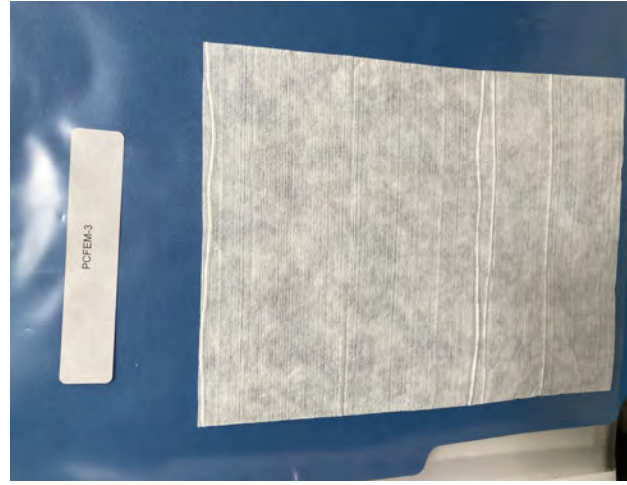
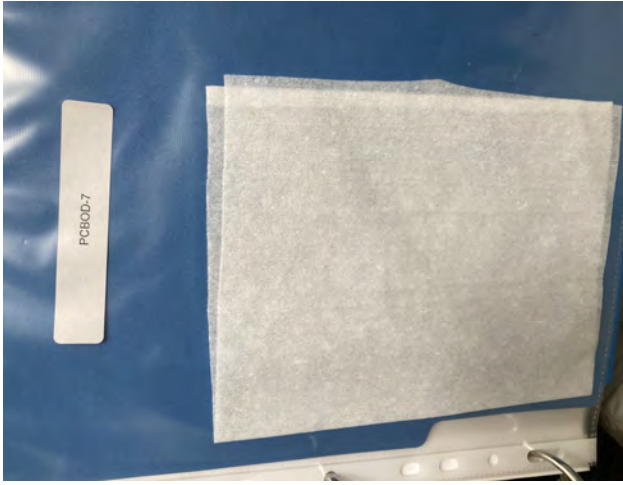


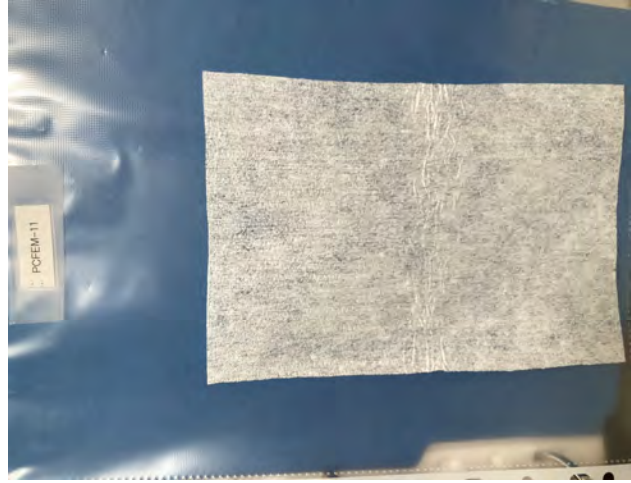
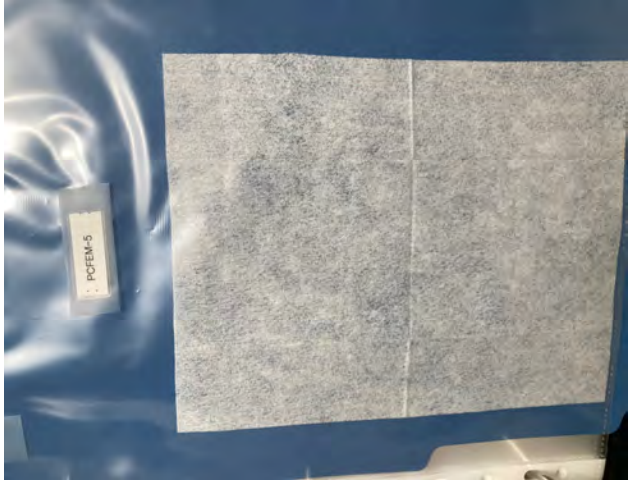
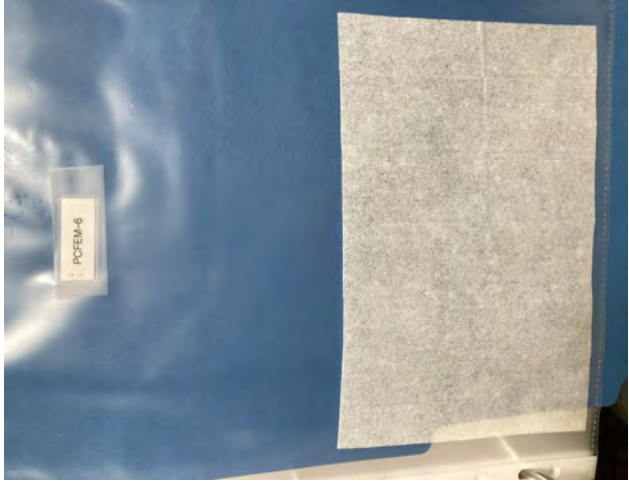
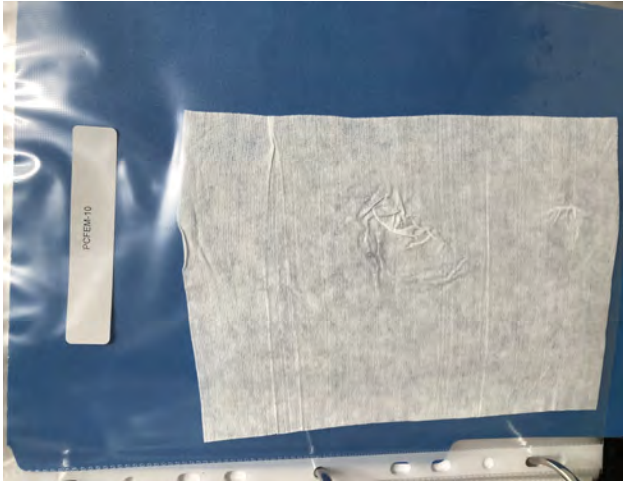


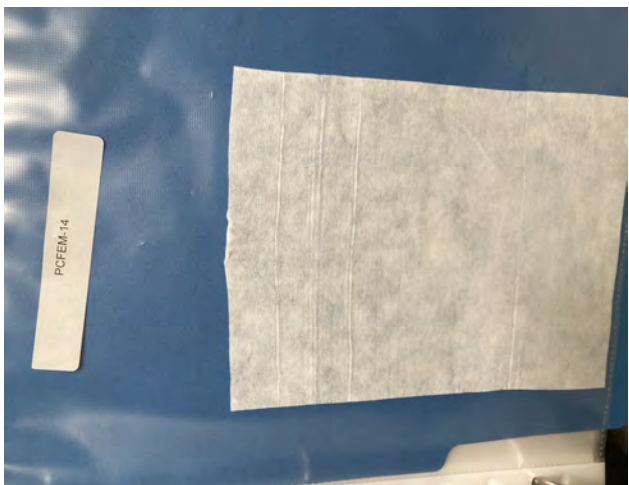
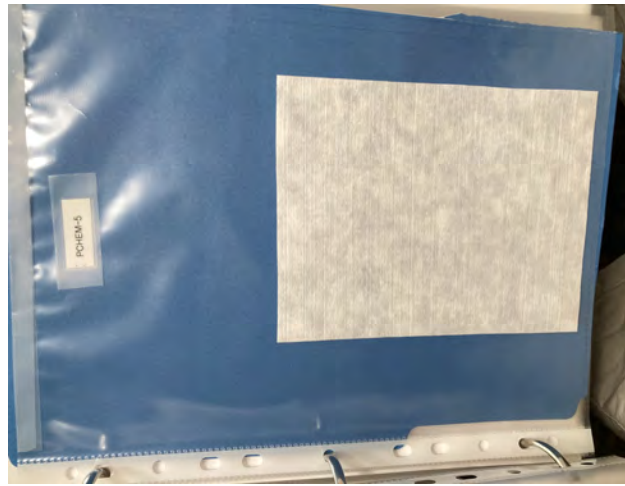
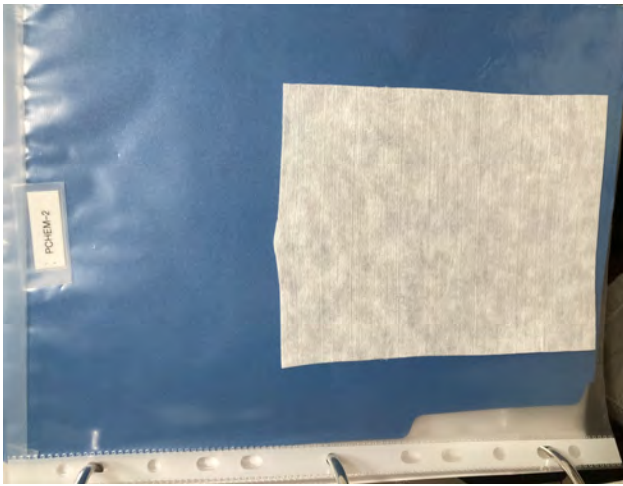
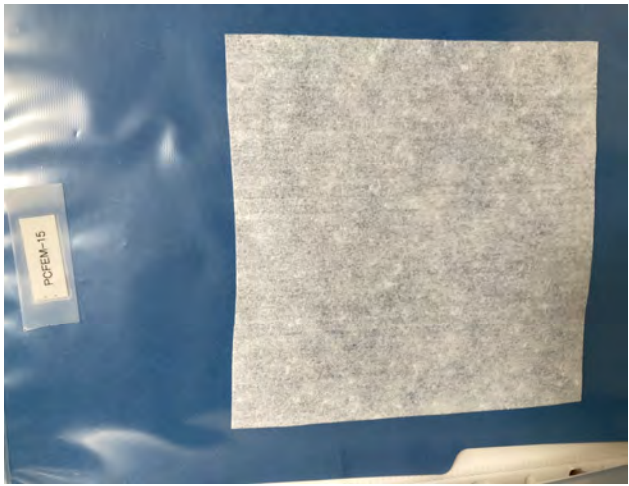
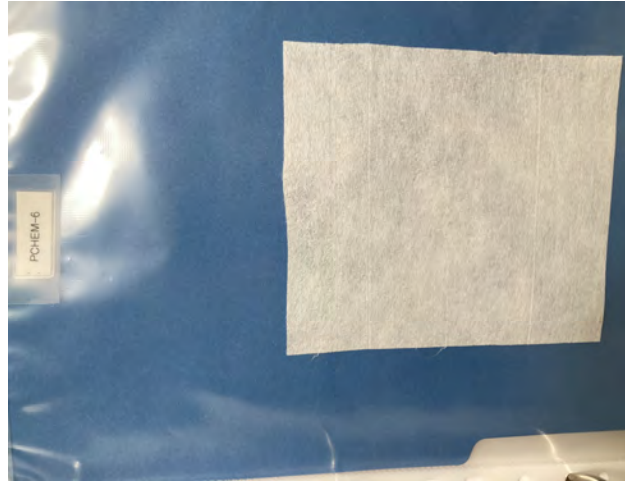
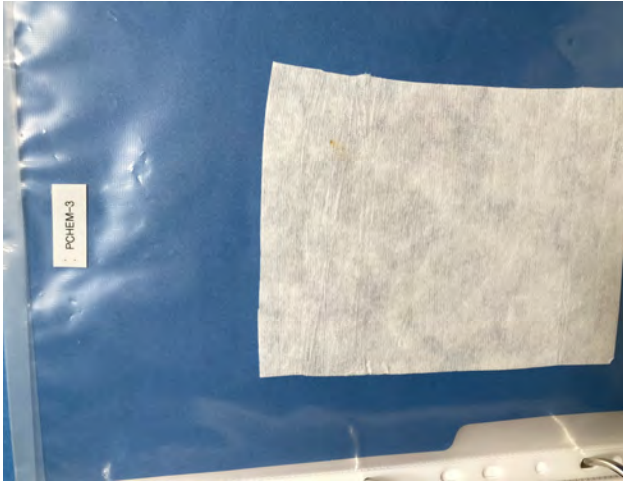
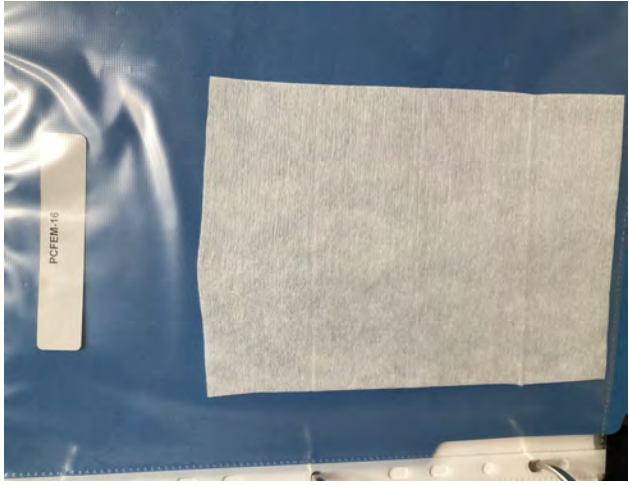


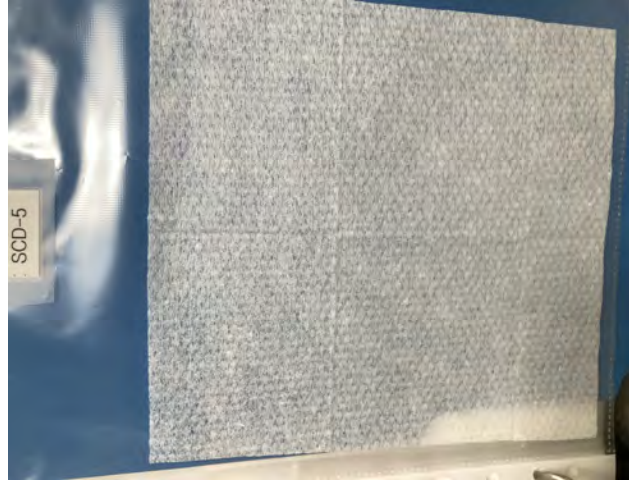
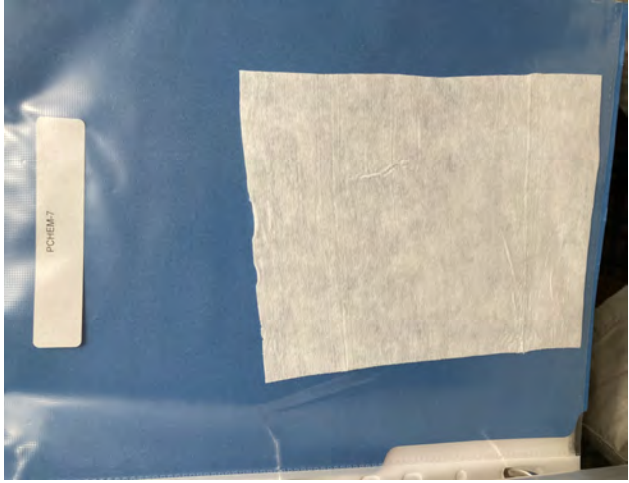
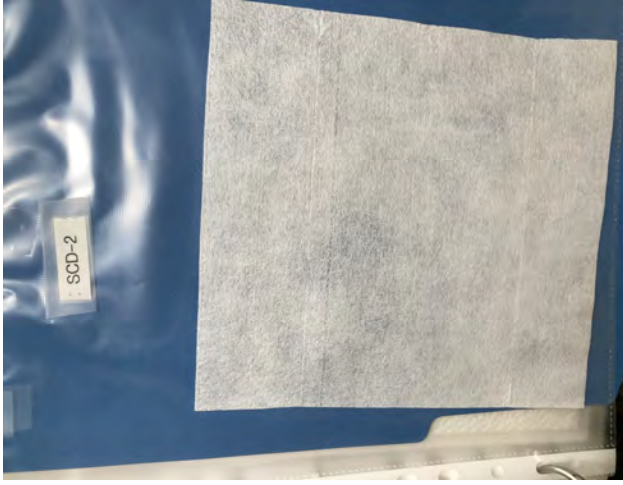
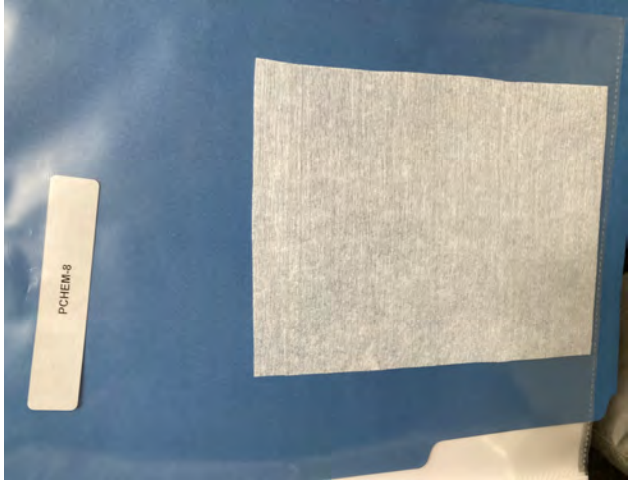
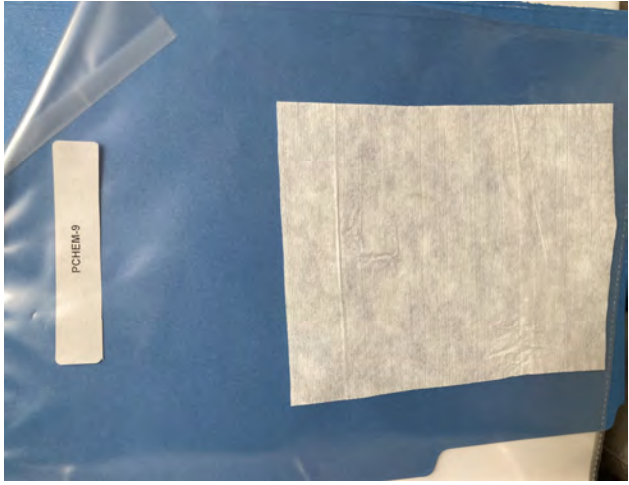


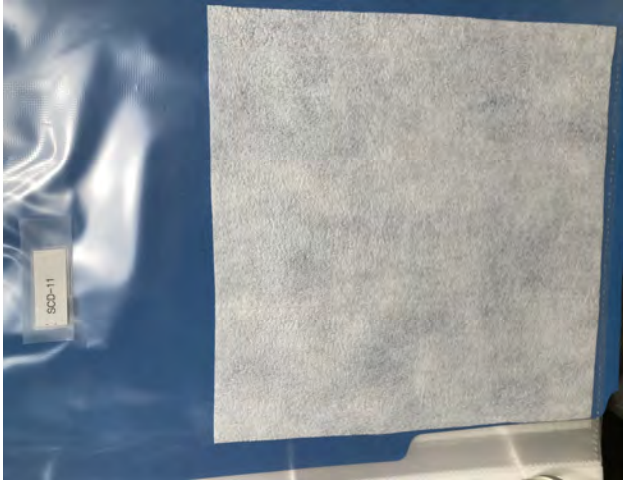
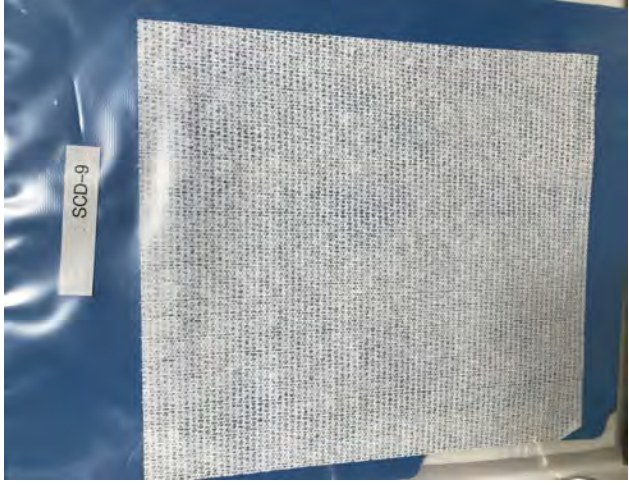
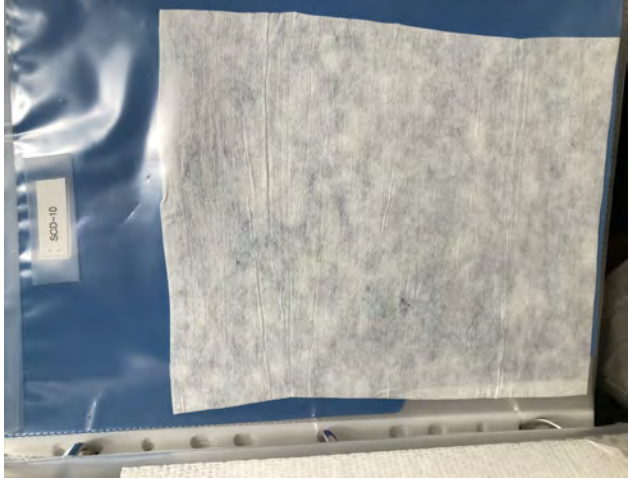


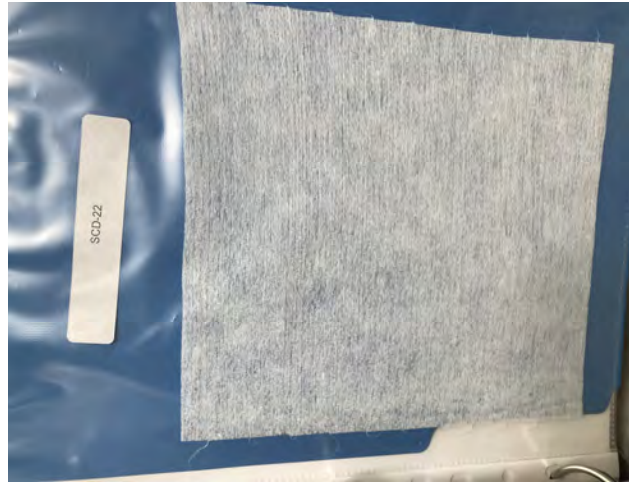








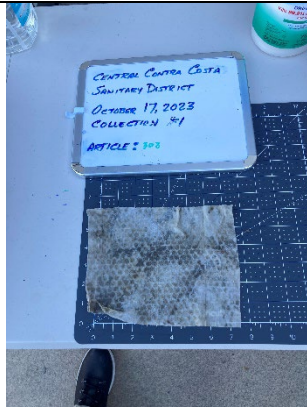




Appendix D

Photographs of Representative Recovered Materials

BD Wipes (Baby Diapering)



BD Wipes (Baby Diapering)



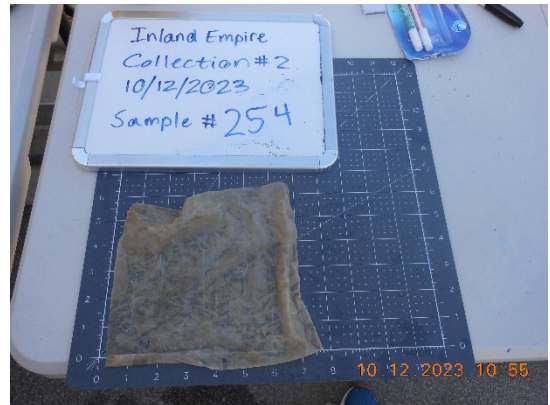
BD Wipes (Baby Diapering)



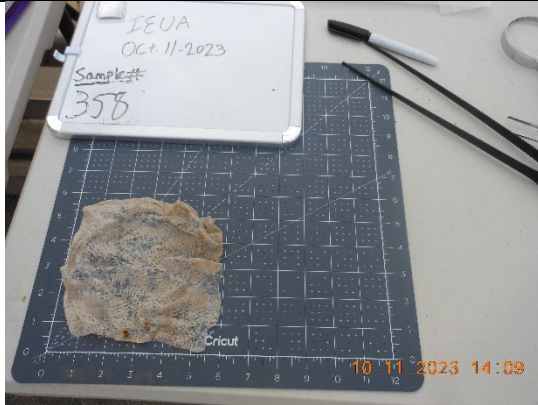
BD Wipes (Baby Diapering)



BD Wipes (Baby Diapering)



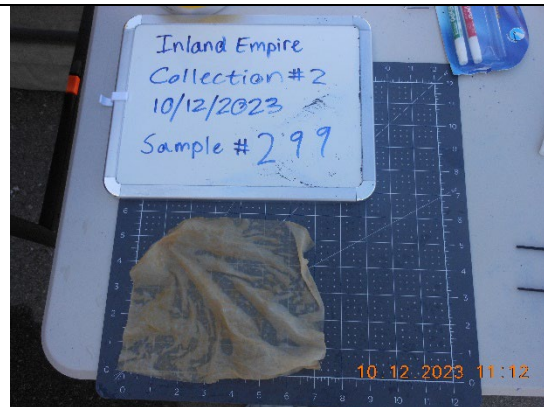
SCD Wipes (Surface Cleaning and Disinfecting Wipes)



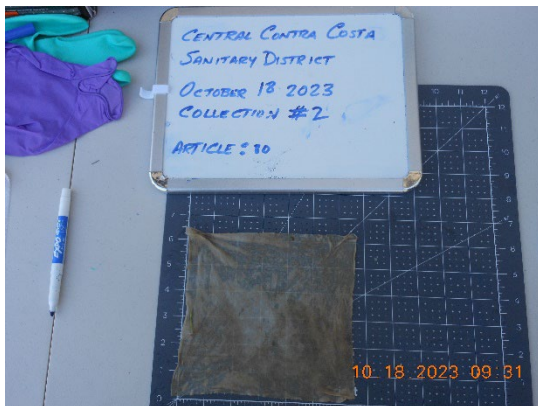
SCD Wipes (Surface Cleaning and Disinfecting Wipes)



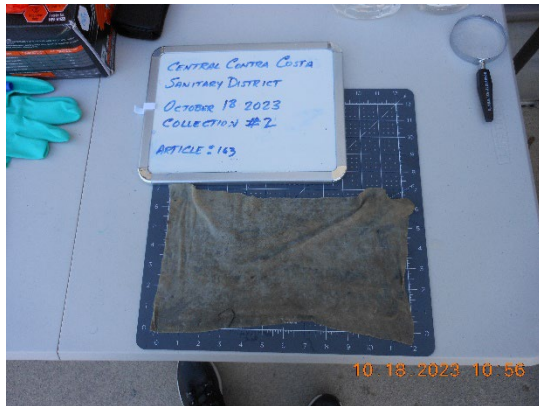
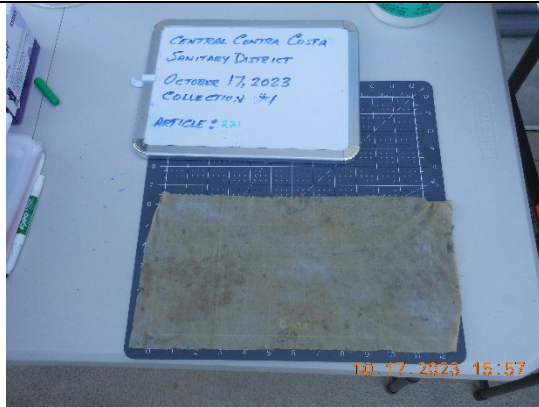
HND Wipes (Hand Sanitizing Wipes)



MUF Wipes (Make Up Removal or Facial Wipes)



PCBOD Wipes (Personal Care Body Cleaning Wipes)



PCBOD Wipes (Personal Care Body Cleaning Wipes)



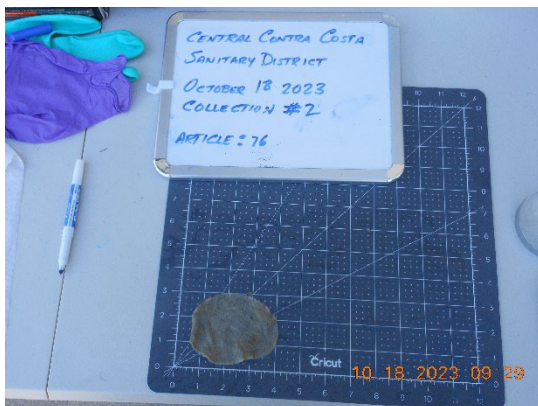
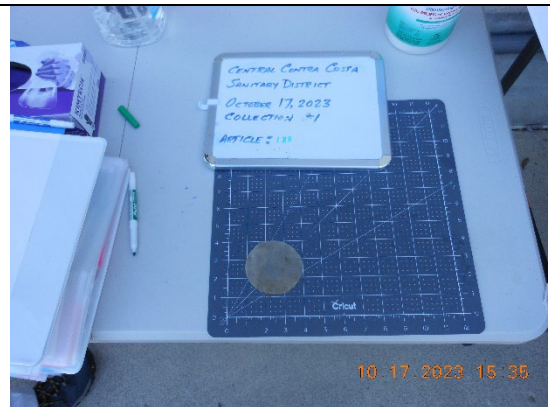
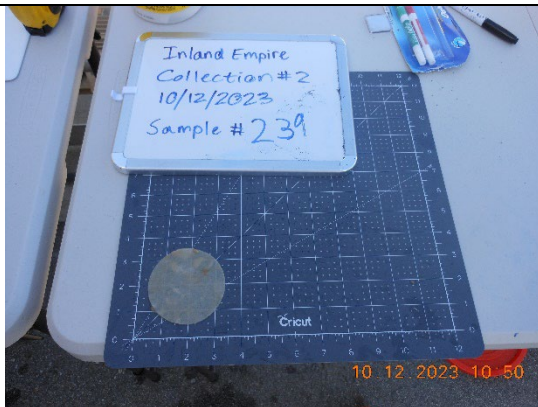
PCFEM Wipes (Personal Care Feminine Hygiene Wipes)



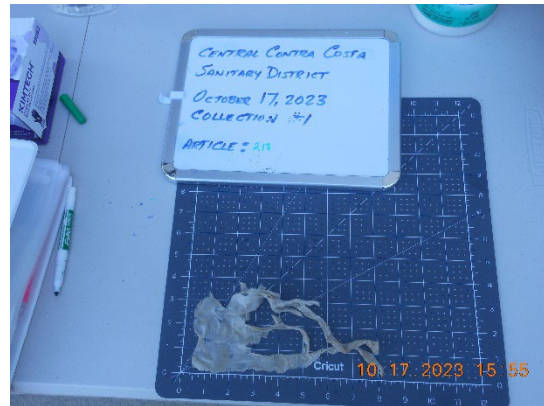
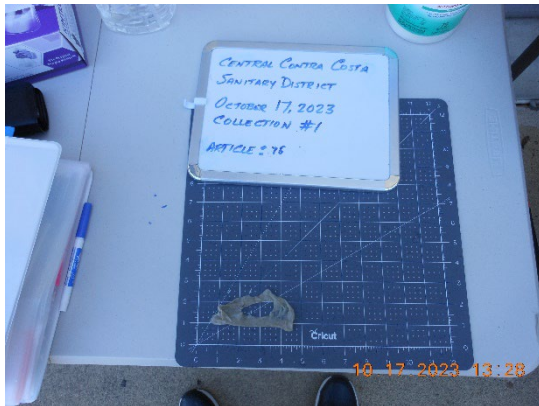
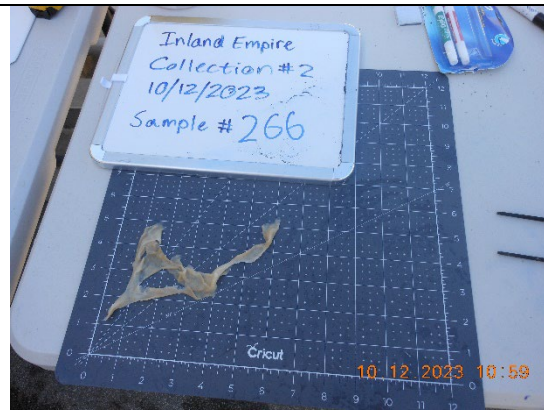
PCFEM Wipes (Personal Care Feminine Hygiene Wipes)



PCHM Wipes (Personal Care Adult Hygiene / Hemorrhoid Wipes)



MTT Wipes (Moist Toilet Paper / Flushable Wipes)



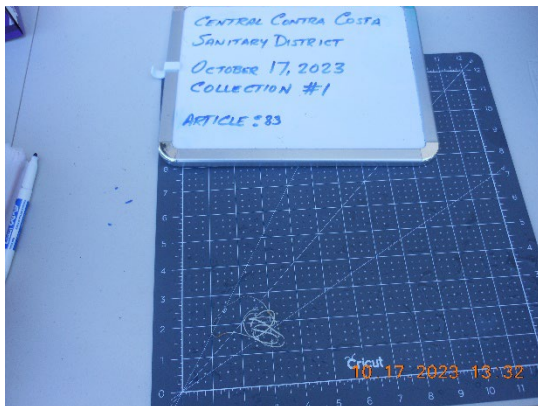
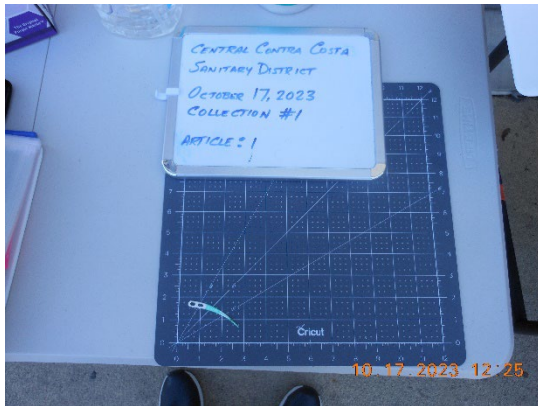
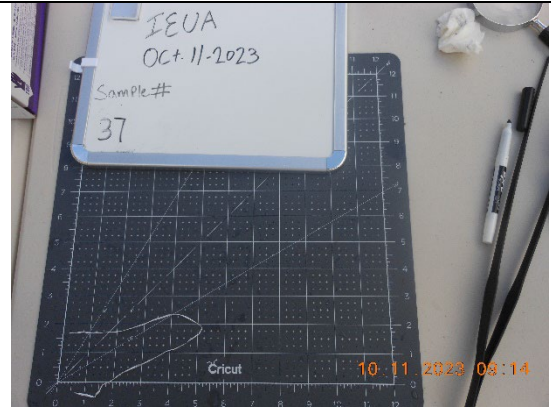
MTT Wipes (Moist Toilet Paper / Flushable Wipes)



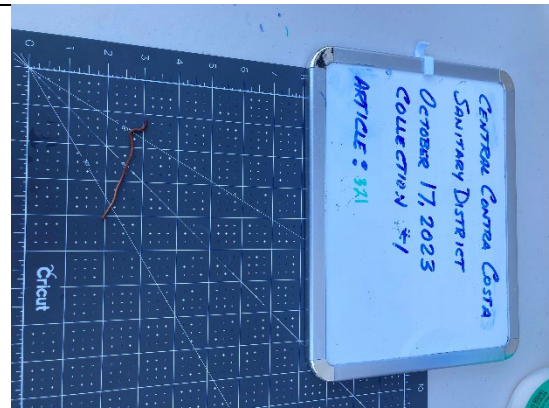
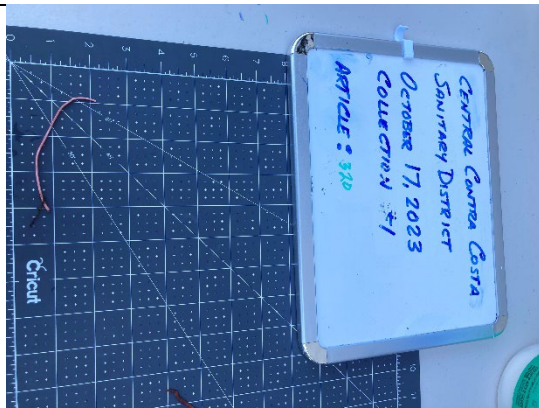
MTT Wipes (Moist Toilet Paper / Flushable Wipes)



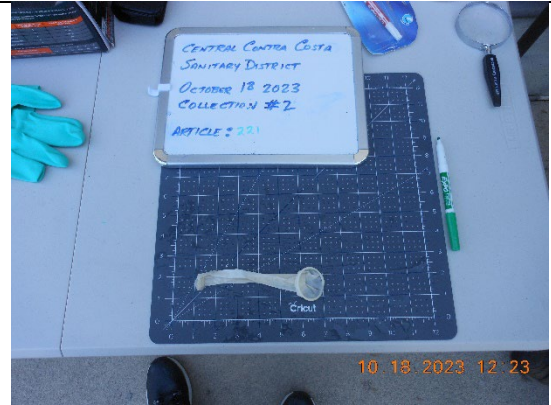
OTHER (Misc. Products Used in Bathrooms e.g. nail polish removers, dental floss, etc)



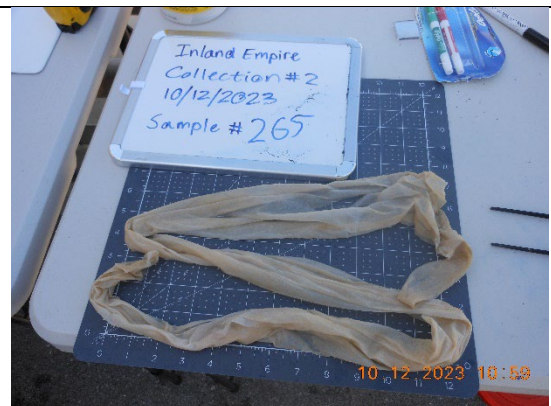
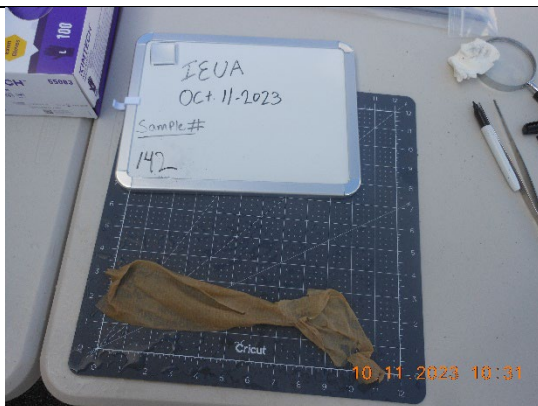
OTHER (Misc. Products Used in Bathrooms e.g. nail polish removers, dental floss, etc)



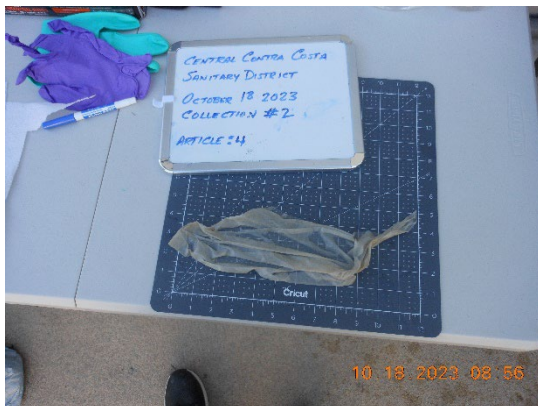
OTHER (Misc. Products Used in Bathrooms e.g. nail polish removers, dental floss, etc)



PT (Paper Towels and Non-Flushable Paper)



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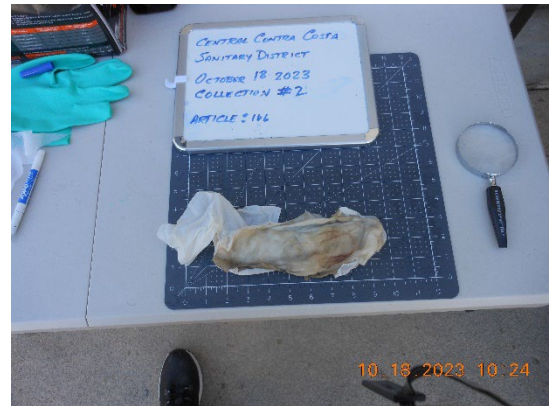
PT (Paper Towels and Non-Flushable Paper)



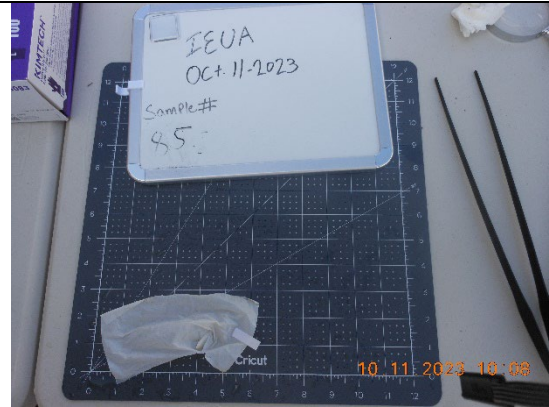
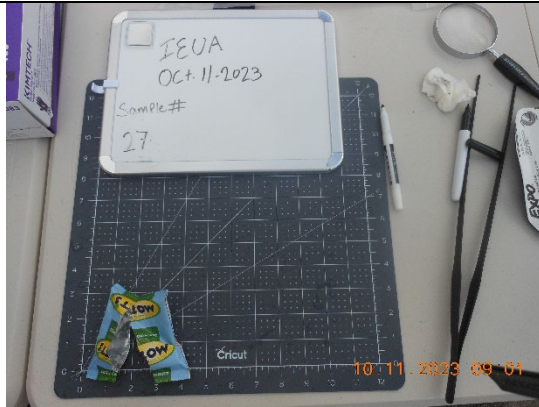
PT (Paper Towels and Non-Flushable Paper)



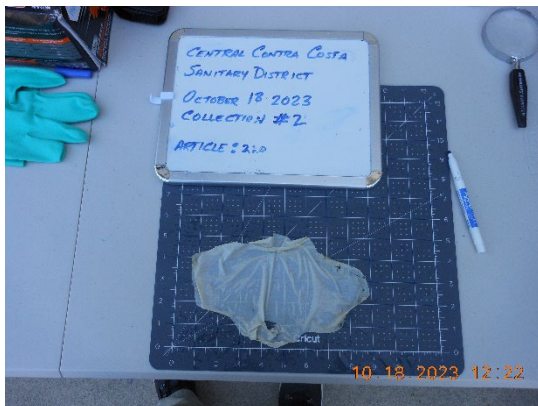
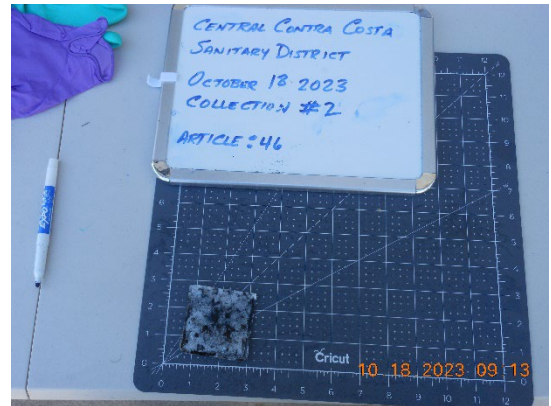
AHP (Absorbent Hygiene Products – tampons, panty liners, light incontinence pads)



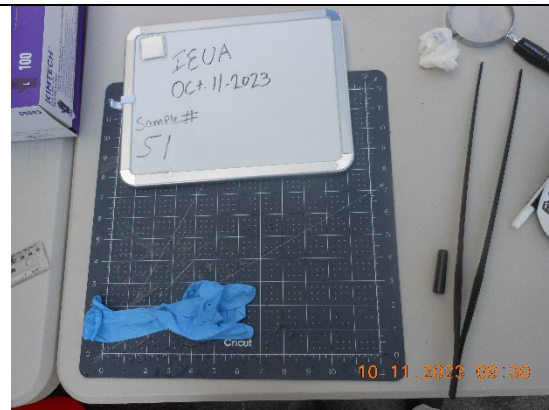
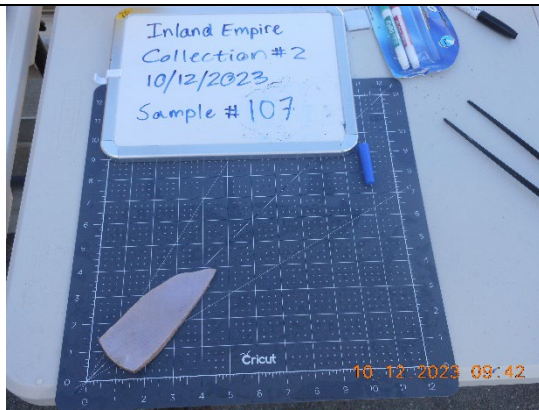
PMW (packaging materials)



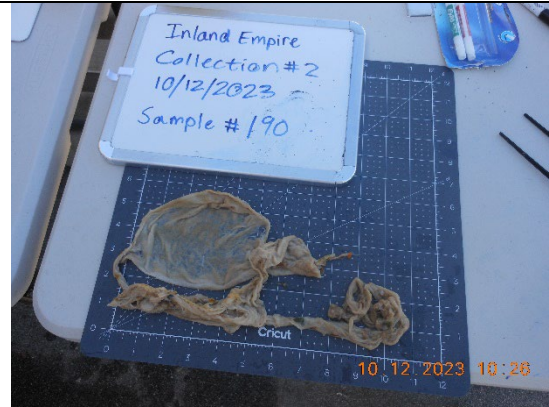
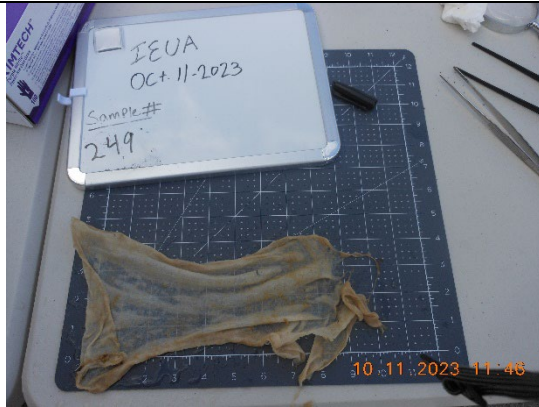
PMW (packaging materials)



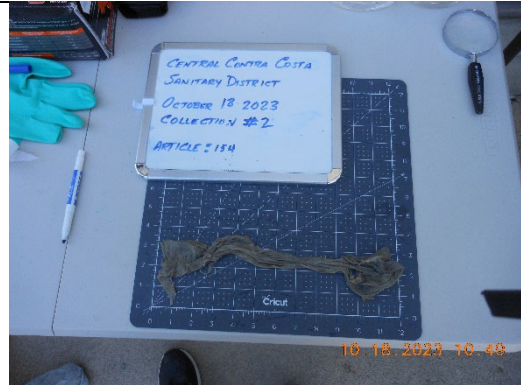
FM (Facemasks, Shoulder Pads, Gloves, Hair Scrunchies, Woven Towels, etc)



UFOs (Unidentifiable Do Not Flush Wipes)



UFOs (Unidentifiable Do Not Flush Wipes)



Trash

