#19 OHD 010 467538

FILED

1/16/92 - 7/29/92

030-002920 C

LIETZ

SINCE 1882

LEVEL BOOK

No. 8152-55

US EPA RECORDS CENTER REGION 5

409223

LOGBOOK #19 SATRALloy

Proj. #: 030-002920

Property of PRC ENVIROMENTAL MNGMT, INC.

Address 644 LINN ST. SUITE 719 CINN, OH 45203

Telephone (513) 241-0149

REWARD IF FOUND.

This Book is manufactured of a High Grade 50% Rag Paper having a Water Resisting Surface, and is sewed with Nylon Waterproof Thread.

INDEX

Waste, Miller Burnie, 1992

FIL: Fishel River protect documentation - Bill Wilson

Weather Conditions - Temperature was about 18°, wind chill was very low (-) and cloudy clear at.

Address of facility: Satrallloy County road 74, Steubenville, OH

HNU Serial number:

Camera serial number:

930 Arrive at Satrallloy plant, the facility was extremely large with an excessive amount of solid waste covering the area around both plants (1) & (2).

945 Interview with Lou Dapolo plant manager. He gave a brief history of the plants operations original operations began with facility was bought from Foote Mineral company in December 1973.

Tusha Miller Jan 16, 1992

Facility operated as a ferro chromium plant, manufacturing alloy from chrome ore, until furnaces shut down Dec 1982. Current operation begin in 1985, which consists of recovering alloy from slag stockpiles on site. The slag stockpiles and baghouse dust are stockpiled on site, some on staging concrete pads, but mostly on the ground. There are two wells on site, one is active, but not used for drinking water. There has been no complaints from neighbors about odors.

1000: Walk through inspection of site began. Mr. Diapaolo took us around the site to explain facility processes and to

Tusha Miller Jan 16, 1992

Characterize on site waste. First, observed sampling station 4

1010: Photo 1: discharge looked O.K, had a slight grey/brown color and silty texture.

1015: Photo 2: Sampling station (1) was water from the waste water treatment plant looked O.K.

1020: Photo 3: Sampling station (3) runoff from slag stockpile east of plant. Mr. Diapaolo took us into plant to show us the reclamation process. Observed the waste water from process and the drainage pipe that collect excess not reused. This pipe leads to a series of five settling ponds running into each other and then discharging into Cross Creek. The ponds are dredged out once a year

1025: Photo 4:

1030 Only excess waste water discharges into Cross Creek. The piles on both sides of the plants are tailing after the alloy has been removed. Slag before alloy has been removed. Has baghouse dust piled on top and is a dark grey while the slag is white color. The slag is lime slag or low carbon ferrochromium. TRM

1030: Photo 5: One chrome ore stock pile is stocked on the hill TRM by ~~with~~ slag / baghouse dust piles.

1035: Photo 6: Baghouse (pollution control) dust dispersed with slag piles

1040: Photo 7: Settling pond

1045: Photo 8: Drainage ditch / pond(s)

1050: Photo 9: Drainage ditch (ponds) Drainage ditch (pond) looked brown and silty but nothing unusual.

1055 Photo 10: Water well on site, appears to have a sp. out on well so taking a sample should TRM ~~be~~ not ~~represent~~ TRM be a problem. The only irregular aspect observed was the slag pile runoff at sampling station (3) had an orange color where water drained into Cross Creek.

1100 Ended site visit. Mr Diapolo asked if he could get copies of analytical results if we sample and copy of pictures.

1115 Drove around the area to find out if area resident were on private drinking water wells. A church about 1 mile away has private well, and many of the people around church have private wells, but they don't drink the

6 Trisha Miller Jun 16, 1992

water but have bottled water. Name of the church is Kolmonn Community Church. Rev Samuel Retzer. TRM

1130 Talked with Charles Paulmen, he said that the water wasn't too good around here. It's have a sulfur odor. Also said that he used to drink from Cross Creek when he was a boy, but wouldn't dare now. He did give us permission to sample his well. Phone number 283 2104.

1145 Gathered a few more address of nearby residents. John E. Quinn 171, C Wheeler Box 329 Mingo Junction, Crawford

1200 Ended Sutralloy Recon.

Trisha 2 mile

TRM

March 29, 1992 Trisha Miller

1200 - needed to obtain the address of a resident on the same road that the primary target drinking water well in the sand and gravel aquifer. This resident would not give us permission to sample this well. Recorded the names and addresses of his neighbors. TRM

1230 - Observed a boy sitting on a bridge about ½ mile from the site fishing off of it. I did not have a camera with me to photodocument it.

- also observed Cross Creek with smoke around it. upstream from the site seemed to be dirty. I saw an area that had a green color, such as antifreeze, to it.

1300 left Mingo Junction

Tasha R. Miller
3/28/92

Tasha Miller April 28, 1992

930 arrived at Sutton Creek spoke with Lou Dipaolo. Told him when we would be sampling at creek but was shown that Dist. Im employee, would be going around with us for the Sand Creek source sampling.

937 made up potassium dichromate for preservation of chemistry. TRM

:045 Arrived at RW-4 at Kolmar Community church. Took sample from the ~~womens~~ Men's TRM restroom. Purged water for about 10 min. TRM

Jim Baker and Tasha Miller were sampling.

1100 parameter for purging

Purge rate ~ 500 ml/Min.

	1st 1059	2nd 1100	3rd 1105	4th ~~1110~~ TRM
PH	7.70	7.81	7.84	TRM
Temp	14.0°C ~~22~~	14.0°C ~~23~~	14.0°C ~~23~~	TRM
Spec. Conduct	1600	1520	1500	

1106 ~~1105~~ TRM Collected Samples. Collected 3VOA, 2x1BN, 2pest/PCB, and 1 metal, 1 Cyanide, 1 micro.

1115 finished collecting water TRM ~~1115~~ Samples. Surface water to water!

1120 went into town to get ice and distilled water.

1130 Ron took samples for RW-3

Tonisha Miller 4/28/92

1235 Arrived at Glasscock. RW-1 RW-1D and extra volume for matrix spike MSD. Let the water purge for about 10 min TRM

1238 recorded field parameters

	1238 1st	1240 2nd	1250 3rd	4th
PH	7.55	7.43	7.45	7.44
Temp	12.8	11.8	11.8	11.8
Spec. Conduct	500	500	500	500

TRM

1255 Began collected RW-1 Extra volume for MS/MSD and RW-1D.

1310 finish sampling.

Tonisha Miller 4/28/92

1620 found a residence and
would allow us to
sample their well.
Name Claude Wells.

1625 recorded field parameters

	1625 1st	1626 2nd	1628 3rd	1630 4th
pH	7.36	7.30	7.39	7.39
Temp	14	12	12	12
Specific Conductance	800	720	720	800

1630 collected water samples
well is about 30 or 40 ft
according to Mr. Wells.

1700 saw a couple of guys
walking down to the creek
with fishing poles. I
walked down and talked
with them. I asked them
if they fish here often.

they were fishing a couple
of feet from the outfall
from the plant. they were
between both of the
outfalls for the facility
they did say they fished
here often and they
usually caught smallmouth bass and
trout. Took 3 pictures
of them fishing.

TRM

1755 pick up cooler for
shipment. Residential
wells both inorganics
and organics and
soil samples. ~~and~~

TRM

1800 left the site for
the day.

Trisha Miller April 29, 19--
Weather conditions were
sunny, warm about 55°.
1000 Rw 1 collected
sediment samples.
1005 collected SD8 from
the creek by the Bridge
Notes from April 28, 1992
1200 Ron Baker collected
Rw 2 samples. Trisha
Miller went into town
to get ice and chlorine
water.
(3) 40 ml vial
(4) 1 liter Amber pest/PCB/herb
(1) liter poly metals
(1) liter poly cyanide
(1) liter poly nitrog.
1400 collected Rw 3 we
discovered that the

business and the location
was not ideal for our
background location.
100 Spoke with Mr. Musser
and found out that he
has to run a mobile
home that was on the
wild log and he has
trouble turning it so we
decided to correspond
business with the well
log maps to find an
appropriate sampling
location.

Trisha Miller 4/29/92

4/28 - 29/92

Satra Concentrates Screening
Site Inspection (cont.)
EPA I.D # OHD 010467538
Steubenville, Ohio
Project # 030 002920

PRC Project Team
Trisha Miller - Team Leader
Chris Cappel - Field Data Coordinator
Chris Hirschman - Sampler
Julie Kaiser - Sampler, Project Manager
Ron Baker - Sampler

4/28/92 0930 Called Jan Pels left 2 messages explaining that not all soil and sediment samples will be analyzed for

Julie Kaiser 4/29/92

full organic and inorganic parameters. Only 4 soils will have full parameters analyzed for; the remaining 7 soils and 8 sediments will be VOCs and metals (incl. CN-) only.

Called Jeanne Griffin explaining the above - that the sample projections stated all parameters would be chosen for all soils and seds and that we failed to let CRL know of the change to fewer parameters when we ~~changed~~ increased the number of samples. Jeanne got Pat Cherilla of CRL on the phone who said Jan wasn't in yet but that he didn't think

Julie Kaiser 4/29/92

4/28/92 cont.

the charge would be much of a problem. He said we'd keep calling Jan - I tried later but she wasn't there. I left our cellular phone # w/ Jan but never heard from her.

1000: Walked to ponds area to decide on soil sampling locations w/ Trisha.

1030 Left sample station (truck) to sample surface soils on-site w/ Chris Hirschman. Satra representative Abe Zook accompanied us.

Juli Kaiser 4/29/92

1050 C Hirschman collected SS1
All parameters for SS1
Baghouse dust on top of low carbon slag pile on top of hill. North ~~side~~ half of slag pile (See map for SS locations)

1055
Photo 1, 2 SS1 perspective and closeup. Facing north - by J Kaiser
SS1 consisted of black baghouse dust.

1105 C Hirschman collected SS4
Black coarse ore from south face of chromium ore pile
VOCs, metals/CN only

Juli Kaiser 4/29/92

1107 Photos 3, 4 SS4 closeup, perspective facing northeast

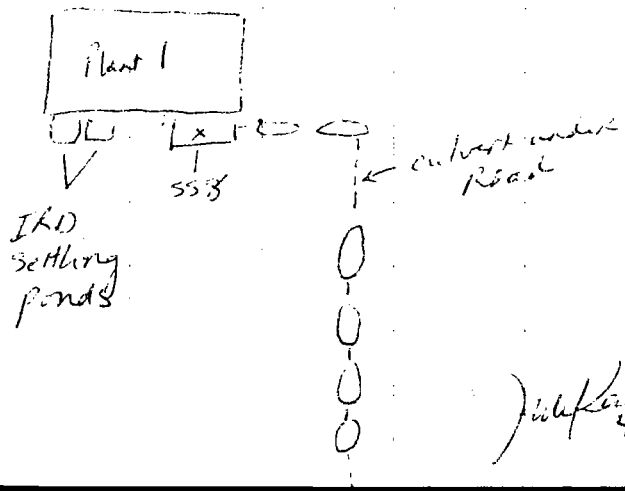
1120 C. Hirschman collected SS11 from South 1/2 of low carbon slag pile on north side of site
Coarse gray slag
VOCs, metals/CN only

1125 Photos 5, 6, 7 Panoramic of low carbon slag pile, west side of pile sloping westward (towards creek?) No signs of gullies or tributaries leading to Cross Creek.

1130 Photo 8 Closeup of SS11 location

Julie Kasine 4/29/92

1200 C. Hirshman collected SS8 from first settling pond outside plant - Receives process water from bull jig which processes 1/2" - 2" slag
Collected with bucket auger on east side of pond. Transferred from auger into stainless bowl.
All parameters on SS8
Gray silty material
Photos 9, 10 Closeup and perspective of SS8 location.



Julie Kasine 4/29/92

IRD jig (International Research Development Company)
Processes 1/2" and smaller slag
Process water (used for flotation) ~~recycled from~~ emptied into 2 ponds and is recycled. Ponds unlined and ~4-5' deep (per Lou DiPaolo)

Photo 11 - Two IRD ponds on south ~~side~~ end of Plant
~~end of hill~~
IRD ponds approximately 18' x 18'

First ball jig pond approx. 20' x 10'

1300 C Hirschman collected SS9 from last settling pond along drainage ditch before outfall
Jake Hirschman 4/29/92

SS9 collected for all parameters with bucket auger from south end of pond. Pond was greenish. Soil sample gray, wet

1305
Roll 2 Photo 1 - SS9 perspective looking north towards plant
4 settling ponds in shot

1330 C Hirschman collected SS10 from high carbon slag pile area. collected from ground (not pile) in area sloping toward second from last settling pond. (~30' from pond)

Photos 2, 3 Closeup and perspective SS10 facing east
Jake Hirschman 4/29/92

Photos 4,5,6,7 Panoramic of front side (south side) of site. Starting on west side, high Carbon slag piles.

Returned samples to central setup area - tagged, labelled containers

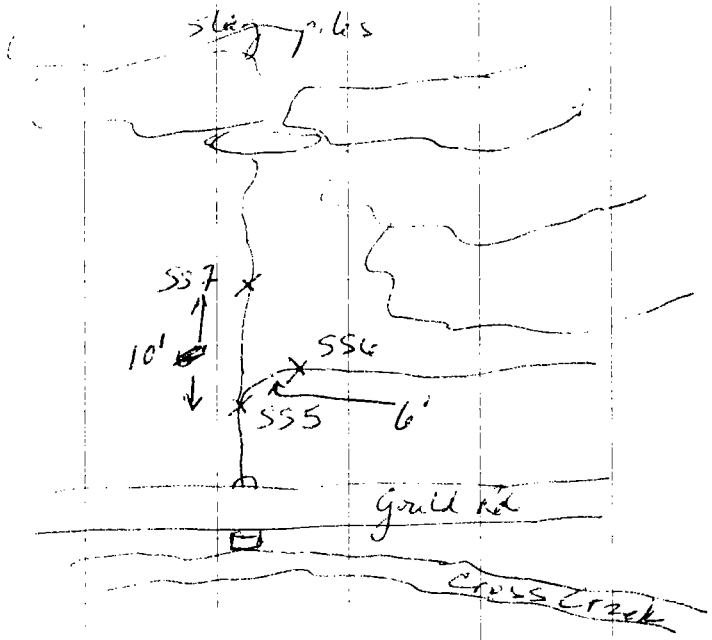
~~1420 C. Hirschman collected~~ 3 PK

Located outfall #3 - crosses Cross Cr. from culvert under Gould Rd. Culvert cuts under high Carbon slag piles for whole width of piles.

1420 C. Hirschman collected SS5 from ditch leading to outfall 3

[illegible] 4/29/92

SS5 collected downstream of ditch's confluence w/ Roadside ditch



SS5 whitish Rocky material w/water

Photo #8 SS5 closeup looking South

[illegible] 4/29/92

JL 4/28/92

1430 C. Hirschman collected SS6 6' upstream of confluence w/outfall ditch in Roadside ditch

Roadside ditch starts on east end of Slag pile - no other contributing sources.

SS6 Brown Sandy soil with pebbles, some decayed leaves

Photo 9 SS6 facing south

1440 Hirschman collected SS7 from outfall ditch ~40' north of SS5 Grayish wet, Sandy soil.

Photos 10, 11 - SS7 closeup and perspective facing north

John Kaiser 4/29/92

Photos 12, 13 Manhole leading to north end of culvert under Slag piles; facing east, taken by C. Hirschman

1450 C. Hirschman collected SS3 Background Soil sample in wooded area east of Gould Road on east side of auto bridge (east of site) ~40' east of Road. Black silty clay w/pebbles.

Photos 14, 15 SS3 closeup and perspective facing east

1530 Ron Bauler and Trisha Miller Collected SS2 from a hill west of Shearrock Road as a background sample - to show metals

John Kaiser 4/29/92

4/29/92

1038 SD8 was collected by Trisha Miller. The sediments were skimmed from the surface. Water level was about 6". Appeared to be sandy and silty. Sample was taken from the North side of the bridge. Photo 21. Took sample at an area where the stream was not flowing rapidly.

1045 SD7 was collected by Julie Kaiser at an area south of Outfall. Photo 22. A bucket auger was used to collect sample. Sample was sand & gravel. The depth of the sediment

Trisha Miller

4/29/92

Sample was about 8".

1100 Julie Kaiser collected SW-1 from outfall 003. Duplicate also taken.

Field parameters:

PH 16.60

Temp 13.5°C

Specific Conductivity 1200

Runoff flow through an aluminum culvert under the road about 3-4 ft in diameter. Which is under outfall.

1202 Distance from Gould Rd to SD8 was 15 feet.

Distance from road to SD7 was 30 ft. 9"

Distance from Road to outfall

was 23 feet 9".

1230 SD6 collected in Cross Creek near outfall C. Hirshman w/ stainless steel spoon off surface of creek bed ~3' from bank under 6" water taken where outfall enter creek, ~30' down ditch from culvert. Sandy, silt brown some gravel

1235 roll #3 Photo #1 SD6 location

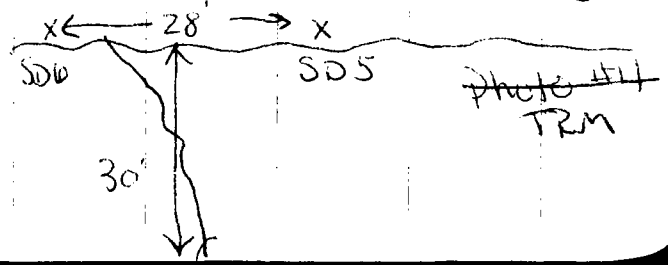
1245 SW2 collected by Trishan Miller and C. Hirshman
TRM field parameters:
pH = 10.6
Temp = 18°C
Cond = 750 umhos

Inlets, CW, 3 VOCs } Collected by T. Miller at end of culvert.

ABNs, Pest/PCBs, 3 VOCs } Collected by C. Hirshman along drainage channel leading from culvert to creek ~25' from culvert

1250 Photo #2 SW2 culvert location

1300 SD5 collected by C. Hirshman ~8" water ~2' from bank fine sand and some gravel



~~Photo #11~~ TRM

1305 Photo #3 SD5 closeup
Photo #4 SD5 perspective

1310 photo #~~4~~ #5 TRM perspective of Outfall and drainage channel into Creek.

1330 Scope out north branch of Creek - Sediment Sample locations to see if slag pile influencing creek to west - not any runoff pathway from the hill

1330-1430 lunch break

1500 T. Miller Collected SD4 below confluence of McIntyre Creek and Cross Creek. Sandy brown

Sediment collected 2' South of north ~~bank~~ TRM bank in slow moving zone 2" below water surface

1515 photo #6 SD4 location facing northwest
Photo #7 SD4 closeup

1530 Collected SD2 upstream of confluence in Cross Cr. Collected by C. Hirshman 2' out from east bank north of bridge
Sandy, brown sediments 3-4" deep.
Photo #8, 9 SD2 closeup perspective facing south

1550 T Miller collected SD3
230' west of Sheppard Rd.
in McIntyre Creek upstream
of confluence w/ Cross Creek.
Water 1" deep collected
from north bank in
rocky depositional area.
Photo # 10,11 SD3 closeup.
perspective facing South
Did not take SD1 sample.

1600 Spoke with plant
manager Lou Dipaolo
Julie Kaiser and Trisha
Miller
Steubenville treatment
plant gets a sample
from their outfall along
with TraDet Labs.
TraDet ~~analysis~~ TRM

analyses for metals
and the treatment plant
reports BOD, pH and
residues. (water chemistry)
Barium, Chromium and
the metals analyzed for
A catch basin is over
by the hillside and
runs under the area in
front of the plants.
Runoff from the hill, not
the slag in front of plants.
On-site treatment plant
was in operation, but
currently is not.
On-site ponds are about
5-6 feet deep

1750 Finish packing cooler

and loaded up and left site.

This entry is from 4/28/92. Left out originally. At 1003 MW-1 was purged for about 10 min purging at ~ 5 gal/min.

Parameters

TZM Initial ~~1010~~	PH	Cond	temp
1012	7.19	950	16°C
1013	7.35	900	15°C
1015	7.37	900	13.5°C
1017	7.38	900	13.8°C
1019	7.38	900	13.8°C
	7.38	900	13.5°C

1019 - began collecting MW-1, MW-1D

VOA } MW-1 + extra volume
metal } MW-1D
Gross } MW-1-FB1

1100 Collected FB-1 (Monitoring well)

VOA, Metals, Gross

Tim Mulcahy & Mike

7/29/92

Inorganic Trappe Report
Chain of Custody Record

Sample No.	Station Location No.	Sample Type (Soil, Sediment, etc.)	Tag No.	Time	analysis	TZM ~~Preservative~~ Purge# Cup #	Cond	Sample Type	Field Filtered
MERA 13	SD-2	Soil/Sediment	5-046552	1530	Metals Cyanide	EQK13	L	C	
MERA 14	SD-3		5-046556	1550		EQK14			
MERA 15	SD-4		5-046560	1500		EQK15			D
MERA 16	SD-5		5-046564	1300		EQK16			
MERA 17	SD-6		5-046568	1230		EQK17			
MERA 18	SD-7		5-046572	1045		EQK18			
MERA 19	SD-8		5-046576	1030		EQK19			
MERA 02	SS-2	Soil/Sediment	5-046508	1530	Metals/Cyanide	EQK02	L	C	
MERA 03	SS-3		5-046512	1450		EQK03			
MERA 05	SS-5		5-046520	1420		EQK05			

Sample No.	Station Location No.	Sample Description	Tag No.	Time	Analysis	Corresp. CLP #	Conc.	Sample Type	
MERA 06	SS-6	Soil/ Sediment	5-046524	1430	metals/ cyanide	EQK06	L	C	
MERA 07	SS-7	Soil/ Sediment	5-046528	1440	metals/ cyanide	EQK07	L	C	
MERA 26	MW-1	ground water	5-046587, 5-046588	1025		EQK26		C	
MERA 26	MW-1		5-046589 046590	1025		EQK26		C	
MERA 27	MW-1D		5-046595	1025		EQK27		C	D
MERA 27	MW-1D		5-046596	1025		EQK27		C	D
MERA 28	FB-1		5-046601	1100		EQK28		C	
MERA 28	FB-1		5-046602	1100		EQK28		C	
MERA 01	SS-1	Soil/ Sediment	5-046504	1050	metals/ cyanide	EQK01	L	C	
MERA 04	SS-4		5-046510	1155		EQK04	L	C	
MERA 08	SS-8		5-046532	1200		EQK08	L	C	
MERA 09	~~SS-9~~ TRM ~~SS-9~~ SS-9		5-046536	1300		EQK09	L	C	
MERA 10	~~SS-10~~ TRM SS-10		5-046540	1330		EQK10	L	C	
MERA 11	SS-11		5-046544	1125		EQK11	L	C	
MERA 30	SW-1	Surface water	5-046609	1100		EQK30		C	
MERA 30	SW-1		5-046610	1100		EQK30			
MERA 31	SW-1D		5-046615	1100		EQK31			D
MERA 31	SW-1D		5-046616	1100		EQK31			D
MERA 32	SW-2		5-046627 046628	1245		EQK32			
MERA 32	SW-2		5-046629 046630	1245		EQK32			
MERA 33	FB-1		5-046635	1210		EQK33			
MERA 33	FB-1		5-046636	1210		EQK33			

Sample No.	Station Location	Sample Description	Tag No.	Time	Analysis	Cone # CLP #	Conc	Sample Type
EQK 32	SW 2	Surface water	S 046623 - 046624	1245	BNA	MERA 32	L	G
EQK 32	SW 2	Surface water	S 046625 - 046626	1245	Pest/ PCB	MERA 32		
EQK 16	SD-5	~~Sw 1~~ Sediment	S 046561 046562	1300	VOA	MERA 16		
EQK 17	SD-6		S 046565 - 046566	1230	VOA	MERA 17		
EQK 18	SD-7		S 046569 - 046570	1045	VOA	MERA 18		
EQK 19	SD-8		S 046573 046574	1030	VOA	MERA 19		
EQK 32	SW 2	Surface water	S 046617 - 046622	1245	VOA	MERA 32		
EQK 33	FB-1		S 046631, S-046632	1210	VOA	MERA 33		
EQK 33	FB-1		S-046633	1210	BNA	MERA 33		
EQK 33	FB-1		S 046634	1210	Pest/ PCBs	MERA 33		
EQK 34	TB-1		S 046637 S-046638	900	BNA			
EQK 13	SD-2	Sediment	S-046549 S-046550	1530	VOA	MERA 13		
EQK 14	SD-3		S 046553 S 046554	1550	VOA	MERA 14		
EQK 15	SD 4		S-046557 S 046558	1500	VOA	MERA 15		
EQK 30	SW-1	Surface water	S-046605 S 046606	1100	VOA	MERA 30		
EQK 30	SW 1		S 046607	1100	BNA	MERA 30		
EQK 30	SW-1		S 046608	1100	Pest/ PCBs	MERA 30		
EQK 31	SW 1D		S 046611 S 046612	1100	VOA	MERA 31		
EQK 31	SW 1D		S 046613	1100	BNA	MERA 31		
EQK 31	SW-1		S 046614	1100	Pest/ PCBs	MERA 31		
EQK 26	~~Ground water~~ MW 1	Ground water	S 046577 - 046582	1025	VOA	MERA 26	L	G
EQK 26	~~Ground water~~ MW 1	Ground water	S 046583 - 046584	1025	BNA	MERA 26	L	G

EQK 26	MW-1	ground water	5-046585 04 TRM	5-046585 5-046586	1025	pest PCB	MERA 26	L	G	D
EQK 27	MW-1D		5-046585 - 046586	5-046591 5-046592	1025	VOA	MERA 27			D
EQK 27	MW 1D		5-046591, 5-046592	5-046593	1025	BNA	MERA 27			D
EQK 27	MW-1D		5-046593	5-046594	1025	pest PCB	MERA 27			D
EQK 28	FB-1 ~~MW~~ TRM		5-046597 046598	5-046597 5-046598	1100	VOA	MERA 28			
EQK 28	FB-1	5-046598 →	~~5-046598~~ ~~5-046598~~	5-046599	1100	BNA	MERA 28			
EQK 28	FB-1		5-046600	5-046600	1100	Pest PCB	MERA 28			
EQK 29	TB-1		5-046605 046604	5-046605 046604	900	VOA	MERA 29			
EQK 01	SS-1	Set 1	5-046501, 5-046502	1050	VOA	MERA 01		L	G	
EQK 01	SS-1		5-046503	1050	BNA, Pest/PCB	MERA 01			C	
EQK 04	SS-4		5-046513, 5-046514	1105	VOA	MERA 04			G	
EQK 08	SS-8		5-046529 5-046530	1200	VOA	MERA 08			G	
EQK 08	SS-8		5-046531	1200	BNA, pest/PCB	MERA 08			C	
EQK 09	SS-9		5-046533 5-046534	1300	VOA	MERA 09			G	
EQK 09	SS 9		5-046535	1300	BNA, pest/PCB	MERA 09			C	
EQK 10	SS-10		5-046537 5-046538	1330	VOA	MERA 10			G	
EQK 11	SS 11		5-046541 5-046542	1125	VOA	MERA 11			G	
EQK 02	SS-2		5-046505 5-046506	1530	VOA	MERA 02			G	
EQK 02	SS-2		5-046507	1450	BNA, Pest/PCB	MERA 02			C	
EQK 03	SS-3		5-046509 5-046510	1450	VOA	MERA 03			G	
EQK 05	SS-5		5-046517 5-046518	1430	VOA	MERA 05			G	
EQK 06	SS-6		5-046521 5-046522	1430	VOA	MERA 06			G	
EQK 07	SS-7		5-046525 046526	1440	VOA	MERA 07			G	

EQK24	RW-4	Drinking Water			1145	VOA				
EQK24	RW-4				1145	BNA				
EQK24	RW-4				1145	Pest/PCB				
EQK25	B-1				1345	VOA				
EQK25	B-1				1345	BNA				
EQK25	B-1				1345	Pest/PCB				
EQK22	RW-2				1200	VOA				
EQK22	RW-2				1200	BNA				
EQK22	RW-2				1200	Pest/PCB				
EQK23	RW-3				1630	VOA				
EQK23	RW-3				1630	BNA				
EQK23	RW-3				~~1255~~ RM 1630	Pest/PCB				
EQK20	RW-1				1255	VOA				
EQK20	RW-1				1255	BNA				
EQK20	RW-1				1255	Pest/PCB				
EQK21	RW-1D				1255	VOA				
EQK21	RW-1D				1255	BNA				
EQK21	RW-1D				1255	Pest/PCB				