0032478

TK-D5 RECEIVING AND TRANSFER DATA SHEET

BATCH NO. 271 MONTH MARCH YEAR 1993 PAGE 1 OF

DATE	SOURCE TANK	SAMPLE NO.	A SoG	B VOL	AXB	C Pu(g/L)	BXC Pu(g)	TOTAL Pu(g)	D Am(g/L)	BXD Am(g)	TOTAL Am(g)	H+	SCL	ORG	TRAN NO.	CP/MGR
INITIAL HEEL(Line G)			1.10	548	603		0.78			0.01	INITIAL HEEL(Line G)					
5/11/93	39	1498/1499	1.10	207	228	.01795	3.7	4.48	4.04	.846	.856	1.64	<1%	0%	1132	CPA 5/11/93
5-14-93	39	1508/1509	1.054	214	226	.0262	5.61	10.09	[illegible]	.026	.882	1.21	<1%	0%	1149	
~~5-[illegible]-93~~	~~[illegible]~~	~~1509/[illegible]~~	~~1.351~~	~~148~~	~~210~~	~~.279~~										
5/17/93	40	1511/1512	1.061	198	210	.254	50.29	60.39	2.67x10⁻⁹	0.0006	.882	OH- .036	<1%	0%	1152	5/17/93
6-3-93	19	1545/1546	1.152	188	217	.0068	1.28	61.66	[illegible]	0.0058	.888	1.95	<1%	0%	1239	6/3/93
~~6-7-93~~	~~wm 2~~	~~1548/1549~~	~~1.161~~	~~208~~	~~241~~											
6-7-93	wm 2	1543/1544	1.146	208	238	.00895	1.06	63.52	.00031	.0645	.926	2.35	<1%	0%	1236	6/8/93
6-7-93	19	1572/1573	1.211	192	235	.0141	2.70	66.22	.000473	.0332	.959	3.5	<1%	0%	1244	6/9/93
6/8/93	39	1576/1577	1.106	210	232	.0193	4.04	70.26	.000927	.01947	.978	2.06	<1%	0%	1299	6/8/93
6/8/93	wm 2	1572/1573	1.178	210	247	.00892	1.72	71.98	.000433	.0274	1.005	2.82	<1%	0%	1351	
~~6/11/93~~	~~39~~	~~1598/1599~~	~~1.09~~	~~221~~	~~241~~	~~.019~~	~~4.18~~									
~~6/11/93~~	~~39~~	~~1598/1599~~	~~1.09~~	~~221~~	~~241~~	~~.019~~										
6/11/93	39	1598/1599	1.09	203	221	.019	3.86	75.84	.000235	.0483	1.010	1.75	<1%	<1%	1338	6/11/93
6/14/93	WM 1	1603/1604	1.1413	221	252	.02435	6.14	81.98	.000057	.01105	1.021	2.04	<1%	0%	1357	6/14/93
6/15/93	39	1621/1622	1.127	194	219	.0326	6.32	88.3	.000020	.0058	1.0269	3.09	<1%	0%	1373	6-15-
6/16/93	39	1631/1632	1.13	214	242	.006	1.25	89.58	.000048	.0075	1.1164	2.19	<1%	0%	1390	6-16-
6/17/93	19	1653/1654	1.152	200	231.6	.00251	.502	90.08	.000037	.0074	1.1231	2.88	<1%	0%	1415	6 17
9/20/93	WM 1	1683/1684	1.154	229	264	.00237	0.54	90.62	.000041	.01	1.231	2.44	<1%	0%	1433	
9/20/93	19	1679/1680	1.123	200	225	.0420	8.40	99.02	.00004	.008	1.231	2.15	<1%	0%	1434	
9/20/93	~~40~~	1694/1695	1.062	108	115	.212	22.9	121.92	.000041	.0044	1.1455	OH- .317	<1%	0%	1436	
CAUSTIC ADDED		WF	150	1,134	1,702				CHEMICAL ADDITIONS	NaNO2:		OTHER:				
WATER FLUSH ADDED			1.00	1,916	1,916					Fe(NO3)3:		OTHER:				
COLUMN TOTAL				H	I		J			K						

964
225
115
149
753
680

AVG SoG = I/H	M	201 = Q/M			WF (CHART)	VOL V=WFxC	Pu (g) VxN	Am(g) VxO	GAL Vx.264	MANAGER		
AVG Pu(g/L) = J/V	N		R	BATCH TOTAL								
AVG Am(g/L) = K/V	O			FINAL	EST	ACT	EST	ACT	EST	ACT	EST	ACT	EST	ACT
INITIAL HEEL NO2: 0.08 m NO3: 0.40 m			S	HEEL								
DATE	TIME	INITIALS	T	SHIPPED								

1			1. WITHIN STANDARDS (APPROVED FOR SHIPPING (SUPERVISOR)
2			2. TANK FARM SUPERVISOR CALLED CAN ACCEPT D-5 BATH
3			3. AVERAGE SoG, Pu(g/L), NO3,NO2 -SOLIDS PHONED TO TANK FARMS
4			4. PUMP OR JET ON
5			5. TRANSFER VERIFIED BY PHONING 224-TX (20 MIN AFTER START PUMP/40 MIN FOR JET)
6			6. PUMP OR JET OFF
7			7. TOTAL VOL Pu SHIPPED, CALL 224-TX
8			8. REVIEWED FOR COMPLETENESS AND CALULATIONS VERIFIED (SUPERVISION)

PART A INFORMATION:
EPA WASTE NUMBER:
WT01, WT02, D002, D007, D008
PHYSICAL FORM:
LIQUID
TREATMENT TANK:
TK-D5
WASTE TREATMENT CODES:
T31 (NEUTRALIZATION)
T34 (C) (OTHER PHYSICAL TREATMENT)

SAMPLE NO.	LAB VALUE	APPROX CALC VALUE
OH-		
NO-3		
NO-2		
SOLIDS		
OTHER		

NOV 1993 RECEIVED EMIC

RETURN COMPLETED DATA SHEET TO PROCESS ENGINEERING FILE

TK-D5 RECEIVING AND TRANSFER DATA SHEET

BATCH NO. 271 MONTH Sept YEAR 1993

PAGE 2 OF

DATE	SOURCE TANK	SAMPLE NO.	A SpG	B VOL	AXB	C Pu(g/L)	BXC Pu(g)	TOTAL Pu(g)	D Am(g/L)	BXD Am(g)	TOTAL Am(g)	H+	SOL	ORG	TRAN NO.	OP/MGR
INITIAL HEEL(Line G)											INITIAL HEEL(Line G)					
9/20/93	39	1681 1682	1.043	143	149	.0328	4.69	126.61	.00003	.0004	1.1459	1.40	<1%	0%	14350	[illegible]

CAUSTIC ADDED	WF															
WATER FLUSH ADDED		1.00														
COLUMN TOTAL			H	I		J			K							

CHEMICAL ADDITIONS NaNO2: OTHER:
Fe(NO3)3: OTHER:

AVG SpG = I/H	M	201/M =	Q		WF (CHART)		VOL V=WFxC		Pu (g) VxN		Am(g) VxO		GAL Vx.264		MANAGER
AVG Pu(g/L) = J/V	N		R	BATCH TOTAL											
AVG Am(g/L) = K/V	O			FINAL	EST	ACT	EST	ACT	EST	ACT	EST	ACT	EST	ACT	
INITIAL HEEL NO2:		NO3:	S	HEEL											
DATE	TIME	INITIALS	T	SHIPPED											

1			1. WITHIN STANDARDS /APPROVED FOR SHIPPING (SUPERVISOR)
2			2. TANK FARM SUPERVISOR CALLED CAN ACCEPT D-5 BATH
3			3. AVERAGE SpG, Pu(g/L), NO3,NO2 +SOLIDS PHONED TO TANK FARMS
4			4. PUMP OR JET ON
5			5. TRANSFER VERIFIED BY PHONING 224-TX (20 MIN AFTER START PUMP/40 MIN FOR JET)
6			6. PUMP OR JET OFF
7			7. TOTAL VOL Pu SHIPPED, CALL 224-TX
8			8. REVIEWED FOR COMPLETENESS AND CALULATIONS VERIFIED(SUPERVISION)

PART A INFORMATION:
EPA WASTE NUMBER:
WT01, WT02,D002, D007, D008
PHYSICAL FORM:
LIQUID
TREATMENT TANK:
TK-D5
WASTE TREATMENT CODES:
T31(NEUTRALIZATION)
T34 (C)(OTHER PHYSICAL TREATMENT)

SAMPLE NO.	LAB VALUE	APPROX CALC VALUE
OH-		
NO-3		
NO-2		
SOLIDS		
OTHER		

RETURN COMPLETED DATA SHEET TO PROCESS ENGINEERING FILE

PRF SAMPLE LOG

SERIAL #	TANK	DATE	ROUTINE	PU (g/l)	DENSITY (SpG)	H+	SOLIDS	MISC/OTHER	IN SPEC.?	INITIALS
1496	38	5-11-93	2	.08	1.501			PRN 276,000	NO /	Tm /
1497	CXW	5-11-93	1	.059	1.50			PRN 167,000	NO /	Tm /
1498	39	5-11-93	1	.9186	1.101	1.833	<1	0% Org / Am .000778	NO /	Tm /
1499	39	5-11-93	1	.0173	1.101	1.848	<1	0% Org / Am .00774	NO /	Tm /
1500	108	5-11-93	1		1.058	1.396			NO /	Tm /
1501	120	5-12-93	1	.640	1.437					JMP
1502	120	5/12/93	1	.633	1.438					JMP
1503	CXW	5-13-93	1	.0247	1.485			PRN 39,890		
1504	CXW	5-13-93	1	.0939	1.489			PRN 14,3400		
1505	CXW	5/13/93	1	.0461	1.489			PRN 59,120		
1506	49	5/13/93	1	.280	1.066	1.5566	<1.0	0% phases		DAR
1507	39	5/13/93	1	.0260	1.054	1.718	<1.0	Am .00000570 / 0% phases		DAR
1508	39	5/13/93	1	.0263	1.054	1.725	<1%	Am .00000570 / 0% phases		DAR
1509	40	5/13/93	1	.283	1.0613		<1%	OH .483 / Am .0000300		
1510	40	5/13/93	1	.275	1.0616		<1.0	OH .414 / Am .0000302		
1511	40	5-14-93	1	.257	1.0616	OH .36006	<1	Am .0000253		DAR
1512	40	5-14-93	1	.250	1.0614		<1.0	OH .3524 / Am .0000255		DAR
1513	D-7	5/14/93	1	.00913	1.0117	.37573	<1%	Am/Phases 0% .00002669		DAR
1514	D-7	5/14/93	1	.0091799	1.0124	.34506	<1%	Phases 0% Am. .00002671		DAR
1515	15	5/18/93	1	.125	1.09220	2.020	<1%	10% org.		DAR
1516	15	5/18/93	1	.04530	1.09250	2.030	<1%	5% org.		DAR
1517	16	5/18/93	1	.0413	1.1618	3.050	<1%	1% org.		DAR
1518	16	5/18/93	1	.0447	1.1613	2.91	<1%	1% org		DAR
1519	25	5/18/93	1	.438	1.0626	1.29	<1%	0% org		DAR
1520	25	5/18/93	1	.381	1.0623	1.27	<1%	0% org.		DAR
1521	126	5/18/93	1	1.087	1.2303	2.48	<1%	0% org.		DAR
1522	126	5/18/93	1	.902	1.23110	2.540	<1%	0% org.		DAR

PRF SAMPLE LOG

SERIAL NUMBER	DATE SAMPLED	TIME SAMPLED	TANK	WF	TYPE	PU (g/l)	SPG	% SOLIDS	H+	% ORG	AM (g/l)	MISC
1594	6-11-93	0610	19		CAW	.00522	1.157	<1%	2.64	0%	6.49 E-5	
1595	6-11-93	0610	49		CAW	.00718	1.1528	<1%	2.56	0%	6.17 E-5	
1596	6-11-93	0610	39	53	CAW	.0256	1.116	<1%	2.14	0%	4.02 E-5	
1597	6-11-93	0610	39	53	CAW	.0247	1.115	<1%	1.96	0%	4.10 E-5	
1598	6-11/93	0855	39	64	CAW	.0183	1.0833	<1%	1.72	0%	2.01 E-5	
1599	6/11/93	0855	39	64	CAW	.0201	1.090	<1%	1.77	0%	2.75 E-5	
1600	6-11-93	1100	CCW		1	0.217	1.1481	N/A	N/A	N/A	N/A	
1601	6-11-93	1100	CCK		1	.266	1.0295	N/A	0.61	0%	N/A	
1602	6-11-93	1100	CXW		1	.0227	1.4838	N/A	N/A	N/A	N/A	PRN 130,000
1603	6/11/93		WM1		CAW	.0224	1.1433	<1%	2.0857	0%	6.22 E-5	
1604	6/11/93		WM1		CAW	.0263	1.1393	<1%	2.0626	0%	5.76 E-5	
1605	Deleted											DELETED

PRF SAMPLE LOG

SERIAL NUMBER	DATE SAMPLED	TIME SAMPLED	TANK	WF	TYPE	PU (g/l)	SPG	% SOLIDS	H+	% ORG	AM (g/l)	MISC
1620	6-15-93	0045	49	90	1	.168	1.136	<1%	2.001	Ø%		
1621	6-15-93	0100	39	65	1	.0347	1.127	<1%	2.101	Ø%	.000031	
1622	6-15-93	0100	39	65	1	.0304	1.127	<1%	2.086	Ø%	.000029	
1623	6-15-93	0100	19	71	1	.128	1.119	<1%	2.201	Ø%	.000299	
1624	6-15-93	0100	19	71	1	.0445	1.119	<1%	2.247	Ø%	.000286	
1625	6-15-93	0121	120	52	1	.238	1.49					PRN# 734,000 ~~PRN# 150,000~~ 1819 6-15-93
1626	6-15-93	0121	120	52	1	.242	1.488					PRN# 700,200 ~~PRN# 150,000~~ 1819 6-15-93
1627	6-15-93	0600	14	71	1							Deleted PRF
1628	6-15-93	0600	19	71	1							Deleted PRF
1629	6-15-93	1100	120	36	1	Deleted		PRF				PRN# 150,000 1819 (DR 11)
1630	6-15-93	1900	120	36	1	Deleted		PRF				PRN# 150,000 1819 (DR 12)
1631	6-15-93	1944	39	69	1	.00612	1.134	<1%	2.11	% ORG	.000418	

PRF SAMPLE LOG

SERIAL NUMBER	DATE SAMPLED	TIME SAMPLED	TANK	WF	TYPE	PU (g/l)	SPG	% SOLIDS	H+	% ORG	AM (g/l)	MISC
1632	6-15-93	1944 ~~39~~	39	69	1	.00592	1.134	<1%	2.27	% org	.000408	
1635	6-16-93	0625	19	69	1	Deleted						OK
1636	6-16-93	0625	19	69	1	Deleted						OK
1637	6-16-93	~~CCW~~ 0635 ~~STREAM~~	CCW STREAM	N/A	1	.0767	1.493	N/A	N/A	N/A	N/A	RRT
1638	6-16-93	0630	CAP Stream	N/A	1	.275	1.493					
1639	6-16-93	0635	CCR STREAM	N/A	1	.362	1.029	N/A	.59	0%	N/A	
1640	6-16-93	0635	CXW STREAM	N/A	1	.00113	1.491	N/A	N/A	N/A	N/A	PRN# - 60,230
1633	6-15-93		120		1	.371	1.492	N/A	N/A	N/A	N/A	
1634	6-15-93		120		1	.358	1.49	N/A	N/A	N/A	N/A	
1641	6-16-93	1330	19	68	1	.00236	1.157	<1%	2.98	<1%	.000033	RRT
1642	6-16-93	1330	19	68	1	.00274	1.15	<1%	3.05	Ø	.000034	
1643	6-16-93		16	84	1	.122	1.17	3%	2.51	Ø	.	

PRF SAMPLE LOG

SERIAL NUMBER	DATE SAMPLED	TIME SAMPLED	TANK	WF	TYPE	PU (g/l)	SPG	% SOLIDS	H+	% ORG	AM (g/l)	MISC	
1644	6-16-93		16	84	1	.227	1.17	4%	2.09	Ø	N/A		
1645	6-16-93		23	52	1	.675	1.30	4%	2.61	Ø	N/A		
1646	6-16-93		23	52	1	.593	1.30	< 1%	2.83	Ø	N/A		
1647	6-16-93		24	77	1	.834	1.29	1%	3.76	1%	N/A		
1648	6-16-93		24	77	1	.475	1.29	1%	3.58	1%	N/A		
~~1649~~	~~6-16-93~~		~~A-109~~ ~~A-108~~		1							Delete	BO
1650	6-16-93		A-109 ~~A-108~~		1	N/A	N/A	N/A	.276	N/A	N/A	HN 3918	MRT
1651	6-16-93		A-108		1	N/A	~~1.449~~ 1.046	N/A	1.449	N/A	N/A		MRT
~~1652~~	~~6-16-93~~		A-108		1							Delete	BO
1653	6-17-93	0105	19	69	1	.00243	1.158	<1%	2.868	<Ø%	.0000343		MRT
1654	6-17-93	0105	19	69	1	.00258	1.158	<1%	2.898	Ø%	.0000331		MRT
1655	6/17/93	0530	WM-1	70	1	.003010	1.151	<1%	2.408	0%	.0000491		

PRF SAMPLE LOG

SERIAL NUMBER	DATE SAMPLED	TIME SAMPLED	TANK	WF	TYPE	PU (g/l)	SPG	% SOLIDS	H+	% ORG	AM (g/l)	MISC
1668	6-21-93	2240	42	28		.302	1.193					
1669	6-21-93	2240	42	28		.329	1.193					
1670	6-21-93	2240	49	62		.034	1.19					
1671	6-21-93	2240	49	62		.034	1.19					
1672	6-22-93	1315	Carboy #1 Chem PKD		PH 7.35	* 1.631^{-4}	.9974		.0190			* microcuries per ML
1673	6-22-93	1315	Carboy #2 Chem PKD		PH 7.68	* 2.161^{-5}	.9972		-.031			* Microcuries per ML
1674	6-22-93	1315	Carboy #3 Chem PKD		PH 7.51	* 2.844^{-4}	.9972		-.031			* Microcuries per ML
1675	6-24-93	23:15	20	49		.073	1.085	<1%	2.11	0%		
~~1676~~	~~6-24-93~~	~~23:15~~	~~20~~	~~49~~								DELETED NO SAMPLE TAKEN
1677	6-25-93	0130	38	12	1	.0039	1.488					PRN 56,480
1678	6-25-93	0130	38	12	1	.00399	1.488					PRN 55,840
1679	6-25-93	0130	19	67	1	.0413	1.123	<1%	2.147	0%	.00004	

PRF SAMPLE LOG

SERIAL NUMBER	DATE SAMPLED	TIME SAMPLED	TANK	WF	TYPE	PU (g/l)	SPG	% SOLIDS	H+	% ORG	AM (g/l)	MISC
1680	6-25-93	0130	19	67	1	.0426	1.123	<1%	2.16	0%	.00004	
1681	6-25-93	0130	39	46		.0349	1.044	<1%	1.38	0%	.000004	
1682	6-25-93	0130	39	46		.0307	1.043	<1%	1.419	0%	.000002	
1683	6-25-93	1800	WM-1	73		.00261	1.151	<1%	2.438	0%	.000049	
1684	6-25-93	1800	WM-1	73		.0024	1.1497	<1%	2.438	0%	.000047	
1685	6-30-93	0435	21	69	1	1.155	1.3364	2%	3.83	0%	N-A	Sample from bottom of tk-21, not mixed.
1686			Deleted									
1687	7-19-93	1500	chemical Basin						D 7/22/93 3.83			3.83 is pH Value D 7/22/93
1688	7-19-93	1500	↓						D 7/22/93 4.01			4.01 is pH Value D 7/22/93
1689	7-21-93	1830	18	90	1	.014	1.175	<1%	2.078	10%	N/A	
1690	7-21-93	1830	18	90	1	.009	1.175	<1%	2.177	10%	N/A	
1691	7-21-93	1840	49	76	1	.011	1.167	<1%	2.177	13%	N/A	

PRF SAMPLE LOG

SERIAL NUMBER	DATE SAMPLED	TIME SAMPLED	TANK	WF	TYPE	PU (g/l)	SPG	% SOLIDS	H+	% ORG	AM (g/l)	MISC
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		[redacted]	[redacted]					
1694	9-19-93	0900	40	34	1	.216	1.063	<1%	(OH-) .306	0%	.0000405	
1695	9-19-93	0900	40	34	1	.208	1.062	<1%	(OH-) .329	0%	.0000414	