

CALUMET W.R.P. SLUDGE LAGOON STORAGE REPORT

DATE: 7/31/11

LAGOON #	EMPTY STORAGE CAPACITY (MIL GAL)	EMPTY STORAGE DEPTH (FT)	AVERAGE STORAGE PER FOOT (MIL GAL)	PRESENT STORAGE DEPTH (FT)	USED STORAGE VOLUME (MIL GAL)	STORAGE DEPTH REMAINING (FT)	STORAGE VOLUME REMAINING (MIL GAL)	PRESENT LAGOON INPUT (DRY-TONS)
1	21.3	16.7	1.275	2.5	3.2	14.2	18.1	535
2	22.3	17.0	1.312	14.9	19.6	2.1	2.7	3,887
3 O/S	20.3	18.3	1.107	18.3	O/S	0.0	O/S	0
4 O/S	20.5	18.5	1.111	18.5	O/S	0.0	O/S	0
5	24.2	15.3	1.584	0.0	0.0	15.3	24.2	0
6	27.8	16.8	1.656	16.1	26.6	0.8	1.2	9,049
7	37.0	17.3	2.139	16.5	35.2	0.8	1.8	9,682
8 O/S	O/S	O/S	O/S	O/S	O/S	O/S	O/S	O/S
14 O/S	26.8	19.0	1.412	19.0	O/S	0.0	O/S	0
15 O/S	24.5	19.8	1.235	19.8	O/S	0.0	O/S	0
17	41.3	19.3	2.139	17.2	36.8	2.1	4.5	6,691
18	42.4	19.9	2.130	19.9	42.4	0.0	0.0	8,309
19	40.2	19.9	2.022	19.9	40.2	0.0	0.0	5,063
TOTALS	348.66				204.05		53	43,217

Est. days remaining to fill in service lagoons=(Stg Vol Rem in MG (Column 8))/(0.8 mil.gal./day) = 66 DAYS

Lagoons in service: 1, 2, 5, 6, 7, 17, 18 and 19

Lagoons Out of Service (O/S): 3, 4, 8, 14 and 15 (O/S - per Construction Schedule)

Est. number of days remaining to fill all lagoons in service (Previous Month) = 75 DAYS

Emergency Capacity = (Empty Storage Capacity - Used Storage Volume)/(0.8 mgd) 181 DAYS

Includes O/S Lagoons: EXCEPT LAGOON 8

Emergency Capacity = Previous Month 194 DAYS

Note: Assumes entire Calumet Plant sludge production (.8 mil. Gal./day) is pumped to lagoons.

Lagoon 18 is aging to meet 18 month PFRP requirement. Lagoon 18 is available for outloading on June 21, 2012

Lagoon 19 is being outloaded. Outloading began outloading on June 21, 2011

DAILY LAGOON FILL July 2011

DATE	DIGESTER DISCHARGE 1000 GAL	LOW SOLIDS LAGOON	LAGOON FEED 1000 GAL	CENT. FEED 1000 GAL
01-Jul-11	683	2	683	0
02-Jul-11	768	2	768	0
03-Jul-11	512	2	512	0
04-Jul-11	341	2	341	0
05-Jul-11	256	2	256	0
06-Jul-11	768	2	768	0
07-Jul-11	768	2	768	0
08-Jul-11	768	2	768	0
09-Jul-11	597	2	597	0
10-Jul-11	341	2	341	0
11-Jul-11	427	2	427	0
12-Jul-11	683	2	683	0
13-Jul-11	683	7	683	0
14-Jul-11	512	7	512	0
15-Jul-11	512	7	512	0
16-Jul-11	427	7	427	0
17-Jul-11	341	7	341	0
18-Jul-11	683	7	683	0
19-Jul-11	768	7	768	0
20-Jul-11	768	7	768	0
21-Jul-11	455	7	455	0
22-Jul-11	540	7	540	0
23-Jul-11	512	7	512	0
24-Jul-11	768	7	768	0
25-Jul-11	1024	7	1024	0
26-Jul-11	1024	6	1024	0
27-Jul-11	1024	6	1024	0
28-Jul-11	1024	1	1024	0
29-Jul-11	1024	1	1024	0
30-Jul-11	1024	1	1024	0
31-Jul-11	853	1	853	0
Total	20,875		20,875	0

Low Solids to Lagoon 1	535 DT	3,924,720 Gal
Low Solids to Lagoon 2	943 DT	6,910,920 Gal
Low Solids to Lagoon 3	0 DT	0,000 Gal
Low Solids to Lagoon 4	0 DT	0,000 Gal
Low Solids to Lagoon 5	0 DT	0,000 Gal
Low Solids to Lagoon 6	279 DT	2,047,680 Gal
Low Solids to Lagoon 7	1,090 DT	7,991,640 Gal
Low Solids to Lagoon 14	0 DT	0,000 Gal
Low Solids to Lagoon 15	0 DT	0,000 Gal
Low Solids to Lagoon 17	0 DT	0,000 Gal
Low Solids to Lagoon 18	0 DT	0,000 Gal
Low Solids to Lagoon 19	0 DT	0,000 Gal
Low Solids Total	2,848 DT at	3.27% solids = 20,874,960 Gal

Calculation of %TS: $2,848 \text{ DTs} / 20,874,960 \text{ Gals} = 3.27\%$
 Negative values for Lagoon Feed represent digester discharge temporarily stored in holding tanks.

CALUMET LOW SOLIDS LAGOON STATUS

July 31, 2011

LAGOON 1				LAGOON 2				LAGOON 3				LAGOON 4			
ESTIMATED CAPACITY		7,994 DT		ESTIMATED CAPACITY		8,369 DT		ESTIMATED CAPACITY		7,604 DT		ESTIMATED CAPACITY		7,711 DT	
STARTED FILLING July 28, 2011				STARTED FILLING November 18, 2010				LAGOON EMPTY				LAGOON EMPTY			
VOLUME FILLED IN GALLONS				VOLUME FILLED IN GALLONS				VOLUME FILLED IN GALLONS				VOLUME FILLED IN GALLONS			
FILLED QUANTITY IN DRY TONS		535		FILLED QUANTITY IN DRY TONS		3,887		FILLED QUANTITY IN DRY TONS				FILLED QUANTITY IN DRY TONS			
VOLUME				VOLUME				VOLUME				VOLUME			
DATE	FILLED (Gals)	%TS	DRY TONS	DATE	FILLED (Gals)	%TS	DRY TONS	DATE	FILLED (Gals)	%TS	DRY TONS	DATE	FILLED (Gals)	%TS	DRY TONS
Mar-08	5,353,819	2.38	531	Mar-08	5,287,388	2.38	524	Mar-08	0		0	Mar-08	0		0
Apr-08	0		0	Apr-08	1,829,240	2.38	181	Apr-08	0		0	Apr-08	0		0
May-08	0		0	May-08	12,184,633	2.49	1264	May-08	0		0	May-08	0		0
Jun-08	8,737,671	2.51	915	Jun-08	0		0	Jun-08	0		0	Jun-08	0		0
Jul-08	3,537,989	2.10	310	Jul-08	0		0	Jul-08	0		0	Jul-08	0		0
Aug-08	1,574,136	2.60	171	Aug-08	2,241,522	2.60	243	Aug-08	0		0	Aug-08	0		0
Sep-08	0		0	Sep-08	3,331,869	2.62	364	Sep-08	0		0	Sep-08	0		0
Oct-08	2,120,039	2.92	258	Oct-08	1,824,652	2.92	222	Oct-08	0		0	Oct-08	0		0
Nov-08	637,142	2.27	60	Nov-08	0		0	Nov-08	0		0	Nov-08	0		0
Dec-08	0		0	Dec-08	0		0	Dec-08	0		0	Dec-08	0		0
Jan-09	0		0	Jan-09	0		0	Jan-09	0		0	Jan-09	0		0
Feb-09	0		0	Feb-09	0		0	Feb-09	0		0	Feb-09	0		0
Mar-09	0		0	Mar-09	0		0	Mar-09	0		0	Mar-09	0		0
Apr-09	0		0	Apr-09	0		0	Apr-09	0		0	Apr-09	0		0
May-09	0		0	May-09	0		0	May-09	0		0	May-09	0		0
Jun-09	0		0	Jun-09	0		0	Jun-09	0		0	Jun-09	0		0
Jul-09	1,093,426	2.91	133	Jul-09	0		0	Jul-09	0		0	Jul-09	0		0
Aug-09	682,560	2.59	74	Aug-09	0		0	Aug-09	0		0	Aug-09	0		0
Sep-09	5,104,077	2.32	494	Sep-09	0		0	Sep-09	0		0	Sep-09	0		0
Oct-09	2,048,527	2.19	187	Oct-09	0		0	Oct-09	0		0	Oct-09	0		0
Nov-09	7,493,940	2.44	761	Nov-09	0		0	Nov-09	0		0	Nov-09	0		0
Dec-09	0		0	Dec-09	7,508,160	2.34	732	Dec-09	0		0	Dec-09	0		0
Jan-10	4,692,600	2.29	449	Jan-10	3,412,800	2.29	327	Jan-10	0		0	Jan-10	0		0
Feb-10	0		0	Feb-10	4,920,120	2.26	463	Feb-10	0		0	Feb-10	0		0
Mar-10	3,611,880	2.22	334	Mar-10	4,749,480	2.22	439	Mar-10	0		0	Mar-10	0		0
Apr-10	341,280	2.44	35	Apr-10	2,900,880	2.44	295	Apr-10	0		0	Apr-10	0		0
May-10	4,237,560	2.73	482	May-10	2,133,000	2.73	243	May-10	0		0	May-10	0		0
Jun-10	682,560	2.84	81	Jun-10	0		0	Jun-10	0		0	Jun-10	0		0
Jul-10	0		0	Jul-10	0		0	Jul-10	0		0	Jul-10	0		0
Aug-10	0		0	Aug-10	0		0	Aug-10	0		0	Aug-10	0		0
Sep-10	0		0	Sep-10	0		-2342	Sep-10	0		0	Sep-10	0		0
Oct-10	0		0	Oct-10	0		-2389	Oct-10	0		0	Oct-10	0		0
Nov-10	0		-1350	Nov-10	9,328,320	2.06	801	Nov-10	0		0	Nov-10	0		0
Dec-10	0		0	Dec-10	682,560	1.92	55	Dec-10	0		0	Dec-10	0		0
Jan-11	0		0	Jan-11	995,400	2.21	92	Jan-11	0		0	Jan-11	0		0
Feb-11	0		0	Feb-11	0		0	Feb-11	0		0	Feb-11	0		0
Mar-11	0		0	Mar-11	12,278,750	2.58	1320	Mar-11	0		0	Mar-11	0		0
Apr-11	0		0	Apr-11	0		0	Apr-11	0		0	Apr-11	0		0
May-11	0		-394	May-11	0		0	May-11	0		0	May-11	0		0
Jun-11	0		-2297	Jun-11	5,261,400	3.08	676	Jun-11	0		0	Jun-11	0		0
Jul-11	3,924,720	3.27	535	Jul-11	6,910,920	3.27	943	Jul-11	0		0	Jul-11	0		0

CALUMET LOW SOLIDS LAGOON STATUS

July 31, 2011

LAGOON 5				LAGOON 6				LAGOON 7				LAGOON 14			
ESTIMATED CAPACITY		9,096 DT		ESTIMATED CAPACITY		10,439 DT		ESTIMATED CAPACITY		13,890 DT		ESTIMATED CAPACITY		10,069 DT	
LAGOON EMPTY				STARTED FILLING June 2, 2010				STARTED FILLING February 18, 2009				LAGOON EMPTY			
VOLUME FILLED IN GALLONS				VOLUME FILLED IN GALLONS		80,258,640		VOLUME FILLED IN GALLONS		88,137,160		VOLUME FILLED IN GALLONS			
FILLED QUANTITY IN DRY TONS				FILLED QUANTITY IN DRY TONS		9,049		FILLED QUANTITY IN DRY TONS		9,682		FILLED QUANTITY IN DRY TONS			
VOLUME				VOLUME				VOLUME				VOLUME			
DATE	FILLED (Gals)	%TS	DRY TONS	DATE	FILLED (Gals)	%TS	DRY TONS	DATE	FILLED (Gals)	%TS	DRY TONS	DATE	FILLED (GALS)	%TS	DRY TONS
Mar-08	0		0	Mar-08	0		0	Mar-08	0		0	Mar-08	0		0
Apr-08	0		0	Apr-08	0		0	Apr-08	0		0	Apr-08	0		0
May-08	0		0	May-08	0		0	May-08	0		0	May-08	0		0
Jun-08	0		0	Jun-08	0		0	Jun-08	0		0	Jun-08	0		-2818
Jul-08	0		0	Jul-08	0		0	Jul-08	0		0	Jul-08	0		0
Aug-08	0		0	Aug-08	0		0	Aug-08	0		0	Aug-08	0		0
Sep-08	0		0	Sep-08	0		0	Sep-08	0		0	Sep-08	0		0
Oct-08	0		0	Oct-08	0		0	Oct-08	0		0	Oct-08	0		0
Nov-08	0		0	Nov-08	0		0	Nov-08	0		0	Nov-08	0		0
Dec-08	0		0	Dec-08	0		0	Dec-08	0		0	Dec-08	0		0
Jan-09	0		0	Jan-09	0		0	Jan-09	0		0	Jan-09	0		0
Feb-09	0		0	Feb-09	0		0	Feb-09	6,625,434	2.70	746	Feb-09	0		0
Mar-09	0		0	Mar-09	0		0	Mar-09	15,887,040	2.81	1861	Mar-09	0		0
Apr-09	0		0	Apr-09	0		0	Apr-09	4,336,751	3.19	577	Apr-09	0		0
May-09	0		0	May-09	0		0	May-09	979,598	3.28	134	May-09	0		0
Jun-09	0		0	Jun-09	0		0	Jun-09	-339,963	4.39	-62	Jun-09	0		0
Jul-09	0		0	Jul-09	0		0	Jul-09	0		0	Jul-09	0		0
Aug-09	0		0	Aug-09	0		0	Aug-09	0		0	Aug-09	0		0
Sep-09	0		0	Sep-09	0		0	Sep-09	0		0	Sep-09	0		0
Oct-09	0		0	Oct-09	0		0	Oct-09	0		0	Oct-09	0		0
Nov-09	0		0	Nov-09	0		0	Nov-09	2,886,660	2.44	293	Nov-09	0		0
Dec-09	0		0	Dec-09	0		0	Dec-09	9,719,370	2.34	947	Dec-09	0		0
Jan-10	0		0	Jan-10	0		0	Jan-10	8,475,120	2.29	811	Jan-10	0		0
Feb-10	0		0	Feb-10	0		0	Feb-10	8,091,180	2.26	761	Feb-10	0		0
Mar-10	0		0	Mar-10	0		0	Mar-10	3,128,400	2.22	289	Mar-10	0		0
Apr-10	0		0	Apr-10	0		0	Apr-10	13,935,600	2.44	1417	Apr-10	0		0
May-10	0		0	May-10	0		0	May-10	0		0	May-10	0		0
Jun-10	0		0	Jun-10	10,977,840	2.84	1299	Jun-10	2,360,520	2.84	279	Jun-10	0		0
Jul-10	0		0	Jul-10	9,420,750	3.18	1249	Jul-10	4,059,810	3.18	538	Jul-10	0		0
Aug-10	0		0	Aug-10	7,906,320	3.17	1045	Aug-10	0		0	Aug-10	0		0
Sep-10	0		0	Sep-10	10,579,680	2.68	1184	Sep-10	0		0	Sep-10	0		0
Oct-10	0		0	Oct-10	7,252,200	2.27	686	Oct-10	0		0	Oct-10	0		0
Nov-10	0		0	Nov-10	5,972,400	2.06	513	Nov-10	0		0	Nov-10	0		0
Dec-10	0		0	Dec-10	0		0	Dec-10	0		0	Dec-10	0		0
Jan-11	0		0	Jan-11	3,612,840	2.21	333	Jan-11	0		0	Jan-11	0		0
Feb-11	0		0	Feb-11	8,404,020	2.22	777	Feb-11	0		0	Feb-11	0		0
Mar-11	0		0	Mar-11	2,154,330	2.58	232	Mar-11	0		0	Mar-11	0		0
Apr-11	0		0	Apr-11	0		0	Apr-11	0		0	Apr-11	0		0
May-11	0		0	May-11	7,636,140	2.83	901	May-11	0		0	May-11	0		0
Jun-11	0		0	Jun-11	4,294,440	3.08	552	Jun-11	0		0	Jun-11	0		0
Jul-11	0		0	Jul-11	2,047,680	3.27	279	Jul-11	7,991,640	3.27	1091	Jul-11	0		0

CALUMET LOW SOLIDS LAGOON STATUS

July 31, 2011

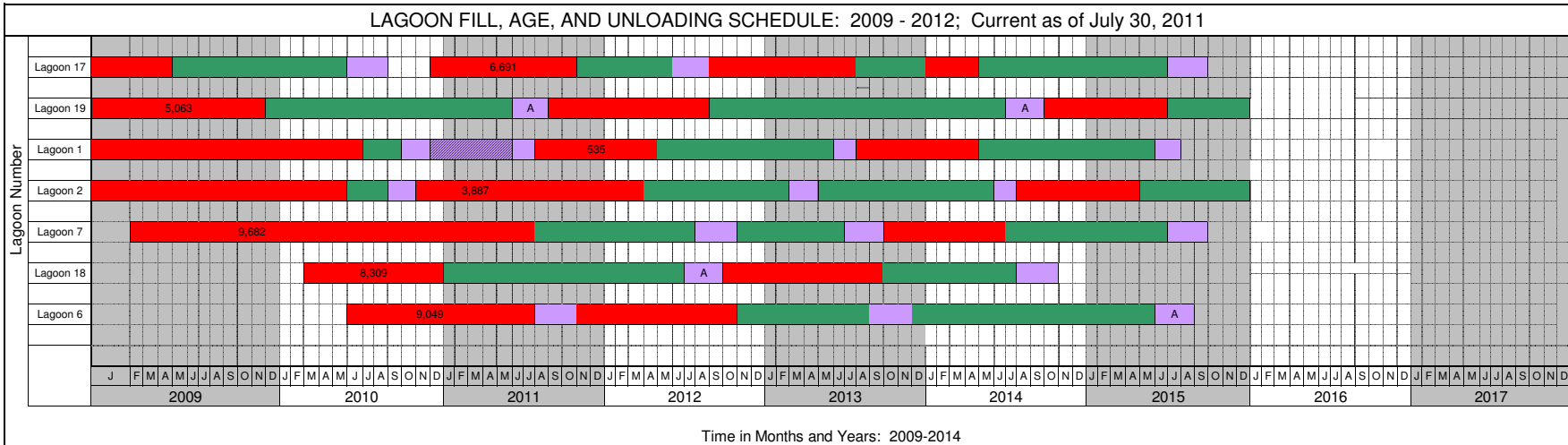
LAGOON 15				LAGOON 17				LAGOON 18				LAGOON 19			
ESTIMATED CAPACITY		9,179 DT		ESTIMATED CAPACITY		15,492 DT		ESTIMATED CAPACITY		15,909 DT		ESTIMATED CAPACITY		15,102 DT	
LAGOON EMPTY				STARTED FILLING December 2, 2010				STARTED FILLING March 16, 2010				STARTED FILLING November 5, 2008			
VOLUME FILLED IN GALLONS				VOLUME FILLED IN GALLONS				VOLUME FILLED IN GALLONS				VOLUME FILLED IN GALLONS			
				6,691				8,309				5,063			
FILLED QUANTITY IN DRY TONS				FILLED QUANTITY IN DRY TONS				FILLED QUANTITY IN DRY TONS				FILLED QUANTITY IN DRY TONS			
VOLUME				VOLUME				VOLUME				VOLUME			
DATE	FILLED (GALS)	%TS	DRY TONS	DATE	FILLED (Gals)	%TS	DRY TONS	DATE	FILLED (Gals)	%TS	DRY TONS	DATE	FILLED (Gals)	%TS	DRY TONS
Mar-08	0		0	Mar-08	1,698,248	2.38	168	Mar-08	0		0	Mar-08	0		0
Apr-08	0		0	Apr-08	12,152,699	2.38	1204	Apr-08	0		0	Apr-08	0		0
May-08	0		0	May-08	4,664,160	2.49	484	May-08	0		0	May-08	0		0
Jun-08	0		0	Jun-08	6,134,134	2.51	642	Jun-08	0		0	Jun-08	0		0
Jul-08	0		0	Jul-08	4,691,396	2.10	412	Jul-08	0		0	Jul-08	0		-4706
Aug-08	0		0	Aug-08	0		0	Aug-08	0		0	Aug-08	0		-4047
Sep-08	0		0	Sep-08	5,451,439	2.62	595	Sep-08	0		0	Sep-08	0		-1138
Oct-08	0		0	Oct-08	0		0	Oct-08	0		0	Oct-08	0	0.00	-2317
Nov-08	0		0	Nov-08	2,422,695	2.27	229	Nov-08	0		0	Nov-08	4,643,411	2.27	439
Dec-08	0		0	Dec-08	0		0	Dec-08	0		0	Dec-08	16,011,890	2.05	1370
Jan-09	0		0	Jan-09	0		0	Jan-09	0		0	Jan-09	7,094,697	1.76	522
Feb-09	0		0	Feb-09	0		0	Feb-09	0		0	Feb-09	6,462,208	2.70	728
Mar-09	0		0	Mar-09	0		0	Mar-09	0		0	Mar-09	0		0
Apr-09	0		0	Apr-09	0		0	Apr-09	0		0	Apr-09	4,208,168	3.19	560
May-09	0		0	May-09	0		0	May-09	0		0	May-09	6,816,961	3.28	933
Jun-09	0		0	Jun-09	0		0	Jun-09	0		-2053	Jun-09	6,783,665	4.39	1243
Jul-09	0		0	Jul-09	0		0	Jul-09	0		-4492	Jul-09	4,874,066	2.91	591
Aug-09	0		0	Aug-09	0		0	Aug-09	0		-2506	Aug-09	9,825,997	2.59	1061
Sep-09	0		0	Sep-09	0		0	Sep-09	0		-5852	Sep-09	12,584,188	2.32	1219
Oct-09	0		-2896	Oct-09	0		0	Oct-09	0		-118	Oct-09	8,574,405	2.19	782
Nov-09	0		-2229	Nov-09	0		0	Nov-09	0		0	Nov-09	11,816,820	2.44	1200
Dec-09	0		0	Dec-09	0		0	Dec-09	0		0	Dec-09	0		0
Jan-10	0		0	Jan-10	0		0	Jan-10	0		0	Jan-10	0		0
Feb-10	0		0	Feb-10	0		0	Feb-10	0		0	Feb-10	0		0
Mar-10	0		0	Mar-10	0		0	Mar-10	4,052,700	2.22	375	Mar-10	0		0
Apr-10	0		0	Apr-10	0		0	Apr-10	767,880	2.44	78	Apr-10	0		0
May-10	0		0	May-10	0		0	May-10	10,124,640	2.73	1151	May-10	0		0
Jun-10	0		0	Jun-10	0		-503	Jun-10	2,019,240	2.84	239	Jun-10	0		0
Jul-10	0		0	Jul-10	0		-4474	Jul-10	11,688,840	3.18	1550	Jul-10	0		0
Aug-10	0		0	Aug-10	0		-5647	Aug-10	6,967,800	3.17	921	Aug-10	0		0
Sep-10	0		0	Sep-10	0		0	Sep-10	14,248,440	2.68	1594	Sep-10	0		0
Oct-10	0		0	Oct-10	0		0	Oct-10	17,064,000	2.27	1614	Oct-10	0		0
Nov-10	0		0	Nov-10	0		0	Nov-10	7,444,170	2.06	639	Nov-10	0		0
Dec-10	0		0	Dec-10	10,380,600	1.92	830	Dec-10	1,862,820	1.92	149	Dec-10	0		0
Jan-11	0		0	Jan-11	13,160,610	2.21	1212	Jan-11	0		0	Jan-11	0		0
Feb-11	0		0	Feb-11	7,064,496	2.22	653	Feb-11	0		0	Feb-11	0		0
Mar-11	0		0	Mar-11	1,649,600	2.58	177	Mar-11	0		0	Mar-11	0		0
Apr-11	0		0	Apr-11	12,101,220	2.72	1375	Apr-11	0		0	Apr-11	0		0
May-11	0		0	May-11	10,465,760	2.83	1234	May-11	0		0	May-11	0		0
Jun-11	0		0	Jun-11	9,413,640	3.08	1210	Jun-11	0		0	Jun-11	0		-1632
Jul-11	0		0	Jul-11	0		0	Jul-11	0		0	Jul-11	0		-3953

FILL SCHEDULE

DIGESTER SLUDGE LAGOONS

LAGOON NUMBER	CAPACITY @9% TS IN DRY TONS	PRESENT INPUT IN DRY TONS	PROD TIME NEEDED (yrs) TO FILL @ 9% TS AND 15000 DT/YR LS FILLING	TIME TO FILL AS OF 7/31/11 IN YEARS	FILL START DATE	DATE FILLED	PFRP AGED	DATE TO START EMPTYING	LAGOON AVAILABLE
1	7,994	535	0.53	0.50	7/28/11	-	-	-	In Rotation
2	8,369	3,887	0.56	0.30	11/18/10	-	-	-	In Rotation
3	7,604	0	0.51	0.51	-	-	-	-	Not Available (O/S)
4	7,711	0	0.51	0.51	-	-	-	-	Not Available (O/S)
5	9,096	0	0.61	0.61	-	-	-	-	Available
6	10,439	9,049	0.70	0.09	6/2/10	-	-	-	In Rotation
7	13,890	9,682	0.93	0.28	2/18/09	-	-	-	In Rotation
14	10,069	0	0.67	0.67	-	-	-	-	Not Available (O/S)
15	9,179	0	0.61	0.61	-	-	-	-	Not Available (O/S)
17	15,492	6,691	1.03	0.59	12/2/10	-	-	-	In Rotation
18	15,909	8,309	1.06	0.51	3/16/10	12/22/10	6/21/12	6/21/11	Aging
19	15,102	5,063	1.01	0.67	11/5/08	11/26/09	5/27/11	-	Outloading
TOTAL	130,853	43,217	8.72	4.03					

LAGOON FILL, AGE, AND UNLOADING SCHEDULE: 2009 - 2012; Current as of July 30, 2011



- - Active Lagoon Filling
- - Lagoon Aging
- - Unloading of Lagoons
- - Winter Load in Dry Cells
- - Drying and Delivering