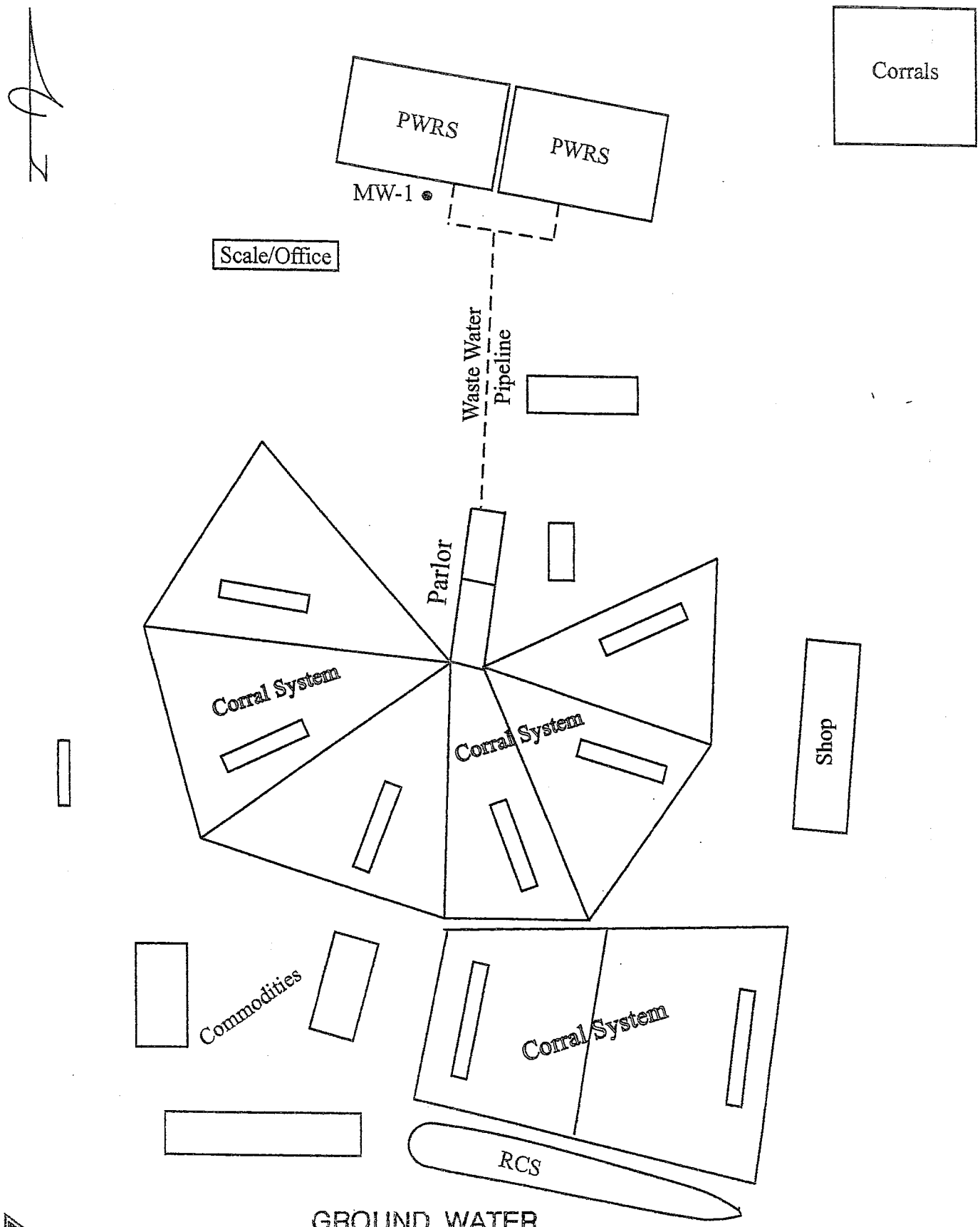
DP-195



GROUND WATER

Enviro Compliance Services, Inc.
Office: (505) 762-9674 Fax: (505) 762-3749
Providing Management Assistance for Environmental Compliance Since 1981

OCT 14 2009

BUREAU

Title: Heraa Dairy Facility Layout		DP-195
Date: 1/3/2006	DWG/Doc Ref 1"=200'	Sheet No 1/1

Quality (TDS):

TDS Concentration	200 mg/l
Source of Information	Prior Permit
Refer to Exhibit E.	

Part A -- Technical Adequacy

6. Permit Plans:

6.a. Operational Plan

6.a.i. ~~Treatment/Storage/Disposal or Utilization~~

~~Process water from the milking parlor is drained to a concrete holding tank and then pumped to a two cell, clay-lined evaporation pond~~. There is no passive or active solids separator, solids are naturally digested by bacteria in the manure. Bio-inoculates and/or oxygen may be added to the pond to enhance solids digestion.

6.a.ii. Facility Operating System

The process water system consists of the holding tank, a sump pump, closed PVC force main and the evaporation pond.

6.a.iii. Facility Operations and Maintenance

Process water from the parlor is drained to a concrete drain sump at the side of the parlor. From there the water is pumped through a closed PVC pipe to the evaporation pond. The process water is evaporated, there is no land application. Bio-inoculates and/or oxygen may be added to the pond to enhance solids digestion.

Mortality cattle are removed from the dairy by a contract service.

6.b. Monitoring Plan

6.b.i. Monitoring Locations

There is one monitoring well at this location. Semi-annual analysis results have been provided by the owner.

6.b.ii. Sampling Protocols

The monitor wells are sampled by using a hand bailer or portable pump.

DR-195

Hall Environmental Analysis Laboratory, Inc.

Date: *12-Jun-09*

CLIENT:	Heraa Dairy	**Client Sample ID:**	MW#1
Lab Order:	0905472	**Collection Date:**	5/26/2009 5:50:00 PM
Project:	Heraa Dairy	**Date Received:**	5/27/2009
Lab ID:	0905472-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **RAGS**
Chloride	1700	20		mg/L	200	6/4/2009 5:11:04 PM
Nitrogen, Nitrate (As N)	1.9	1.0		mg/L	10	5/27/2009 12:34:24 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KMS**
Total Dissolved Solids	4000	100		mg/L	1	5/28/2009
SM 4500 NORG C: TKN						Analyst: **KMS**
Nitrogen, Kjeldahl, Total	69	1.0		mg/L	1	5/28/2009

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *03-Feb-09*

CLIENT:	Enviro Compliance Services	**Client Sample ID:**	Heraa MW#1
Lab Order:	0901334	**Collection Date:**	1/23/2009 11:45:00 AM
Project:	A&M Dairy and Heraa Dairy	**Date Received:**	1/23/2009
Lab ID:	0901334-04	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **RAGS**
Chloride	1600	5.0		mg/L	50	1/28/2009 1:17:22 PM
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	1/23/2009 9:13:45 PM
Nitrogen, Nitrate (As N)	0.44	0.10		mg/L	1	1/23/2009 8:56:20 PM
SM 4500 NORG C: TKN						Analyst: **TAF**
Nitrogen, Kjeldahl, Total	41	1.0		mg/L	1	1/24/2009

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Estimated value	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike recovery outside accepted recovery limits		

DP-195 Melanie Melanie

Heraa Dairy

This is the January report.

DP-195

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NC. DP-195

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El Paso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820

Los Alamos, New Mexico 87544 • (505) 662-2558

Explanation of codes	
B	analyte detected in Method Blank
E	result is estimated
H	analyzed out of hold time
N	tentatively identified compound
S	subcontracted
1-9	see footnote

STANDARD

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

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Client: **HERAA DAIRY**

Project:

Order: **0502601** **HER01** Receipt: **02-25-05**

William P. Biave, President of Assaigai Analytical Laboratories, Inc.

Sample: ***HERAA MW*** Collected: *02-25-05 7:30:00* By: *PG*

Matrix:

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0502601-01A		**EPA 160.1 Total Dissolved Solids**						By: EHR		
WTDS05020	WC.2005.566.8	10-33-3	Total Dissolved Solids	2620	mg/L	1	10		03-04-05	03-09-05
0502601-01A		**EPA 300.0 Anions by IC**						By: DAW		
W05167	WC.2005.516.25	16887-00-6	Chloride	898	mg/L	100	0.05		03-03-05	03-03-05
W05156	WC.2005.472.17	14797-65-0	Nitrate, as N	ND	mg/L	10	0.05		02-25-05	02-25-05
0502601-01B		**SM 4500-N & NH3B,C**						By: JPH		
W05196	WC.2005.588.21	7727-37-9	Kjeldahl Nitrogen, Total	45.2	mg/L	50	0.2		03-10-05	03-11-05

Sample: ***HERAA LAGOON*** Collected: *02-25-05 7:30:00* By: *PG*

Matrix: *W*

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0502601-02A		**EPA 160.1 Total Dissolved Solids**						By: EHR		
WTDS05020	WC.2005.566.7	10-33-3	Total Dissolved Solids	4400	mg/L	1	10		03-04-05	03-09-05
0502601-02A		**EPA 300.0 Anions by IC**						By: DAW		
W05167	WC.2005.516.26	16887-00-6	Chloride	757	mg/L	100	0.05		03-03-05	03-03-05
W05156	WC.2005.472.22	14797-65-0	Nitrate, as N	ND	mg/L	10	0.05		02-25-05	02-25-05
0502601-02B		**SM 4500-N & NH3B,C**						By: JPH		
W05196	WC.2005.588.22	7727-37-9	Kjeldahl Nitrogen, Total	883	mg/L	500	0.2		03-10-05	03-11-05

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2-12-07 DP-198 — Melanie

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127 Eastgate Drive, 212-C • Los Alamos, New Mexico 87544 • (505) 662-2558

Explanation of codes	
B	Analyte Detected in Method Blank
E	Result is Estimated
H	Analyzed Out of Hold Time
N	Tentatively Identified Compound
S	Subcontracted
1-9	See Footnote

HERAA DAIRY
attn: PEDRAM GHOREISHI
P.O. BOX 591
VEGUITA NM 87062

RECEIVED FEB 08 2007 BY:

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ient: HERAA DAIRY
oject:
der: 0701508 HER01 Receipt: 01-19-07

William P. Blake: President of Assaigai Analytical Laboratories, Inc.

ample: HERAA LAGOON N.B. lowest TKN Collected: 01-19-07 12:30:00 By: PG
atrix:

C Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
01508-0001A		SM 4500-N & NH3B,C					By:	ECC		
07063	WC.2007.187.20	7727-37-9	Kjeldahl Nitrogen, Total	488	mg/L	250	0.2		01-24-07	01-25-07
01508-0001B		EPA 160.1 Total Dissolved Solids					By:	MJN		
TDS-07-010	WC.2007.185.4	10-33-3	Total Dissolved Solids	4180	mg/L	1	10		01-24-07	01-25-07
01508-0001B		EPA 300.0 Anions by IC					By:	JJK		
07045	WC.2007.168.46	16887-00-6	Chloride	620	mg/L	50	0.05		01-19-07	01-23-07
07045	WC.2007.168.4	14797-65-0	Nitrate, as N	0.445	mg/L	5	0.05		01-19-07	01-19-07

ample: HERAA MW Collected: 01-19-07 12:20:00 By: PG
atrix:

C Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
01508-0002A		SM 4500-N & NH3B,C					By:	ECC		
07063	WC.2007.187.21	7727-37-9	Kjeldahl Nitrogen, Total	30.6	mg/L	25	0.2		01-24-07	01-25-07
01508-0002B		EPA 160.1 Total Dissolved Solids					By:	MJN		
TDS-07-010	WC.2007.185.6	10-33-3	Total Dissolved Solids	2910	mg/L	1	10		01-24-07	01-25-07
01508-0002B		EPA 300.0 Anions by IC					By:	JJK		
07045	WC.2007.168.5	16887-00-6	Chloride	864	mg/L	50	0.05		01-19-07	01-19-07
07045	WC.2007.168.6	14797-65-0	Nitrate, as N	0.445	mg/L	5	0.05		01-19-07	01-19-07

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Report Date: 1/26/2007 1:41:07 PM

DP-195

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Explanation of codes	
B	*Analyte Detected in Method Blank*
E	*Result is Estimated*
H	*Analyzed Out of Hold Time*
N	*Tentatively Identified Compound*
S	*Subcontracted*
1-9	*See Footnote*

HERAA DAIRY
attn: **ALI GHOREISHI**
P.O. BOX 591
VEGUITA **NM 87062**

STANDARD

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Client: **HERAA DAIRY**
Project: **PEDRAM**
Order: **07120440** **HER01** Receipt: **12-13-07**

William P. Blove, President of Assaigai Analytical Laboratories, Inc.

Sample: ***MONITOR WELL*** Collected: 12-13-07 12:00:00 By: PGH
Matrix:

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
07120440-001A		**EPA 160.1 Total Dissolved Solids**					By:	MJN		
WTDS-07-134	WC.2007.3238.6	10-33-3	Total Dissolved Solids	2340	mg/L	1	10		12-18-07	12-19-07
07120440-001A		**EPA 300.0 Anions by IC**					By:	JJK		
W071008	WC.2007.3249.17	16887-00-6	Chloride	919	mg/L	50	0.05		12-15-07	12-18-07
W071008	WC.2007.3249.18	14797-65-0	Nitrate, as N	ND	mg/L	5	0.05		12-15-07	12-18-07
07120440-001B		**SM 4500-N & NH3B,C**					By:	ECC		
W071036	WC.2007.3321.11	7727-37-9	Kjeldahl Nitrogen, Total	39.3	mg/L	25	0.2		12-27-07	12-28-07

Unless otherwise noted, all samples were received in acceptable condition and all sampling was performed by client or client representative. Sample result of ND indicates Not Detected, ie result is less than the sample specific Detection Limit. Sample specific Detection Limit is determined by multiplying the sample Dilution Factor by the listed Reporting Detection Limit. All results relate only to the items tested. Any miscellaneous workorder information or footnotes will appear below.

Analytical results are not corrected for method blank or field blank contamination.

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GROUND WATER

FEB 1 0 2006

BUREAU

Explanation of codes	
B	Analyte Detected in Method Blank
E	Result is Estimated
H	Analyzed Out of Hold Time
N	Tentatively Identified Compound
S	Subcontracted
1-9	See Footnote

HERAA DAIRY
attn: PEDRAM GHOREISHI
P.O. BOX 591
VEGUITA NM 87062

STANDARD

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

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Client: HERAA DAIRY
Project: M.W./LAGOON
Order: 0512437 HER01 Receipt: 12-20-05

William P. Biava: President of Assaigai Analytical Laboratories, Inc.

Sample: *HERRA LAGOON* Collected: 12-20-05 10:00:00 By: PG
Matrix:

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0512437-0001A		SM 4500-N & NH3B,C					By:	ECC		
W05987	WC.2005.3445.20	7727-37-9	Kjeldahl Nitrogen, Total	567	mg/L	250	0.2		12-27-05	12-28-05
0512437-0001B		EPA 160.1 Total Dissolved Solids					By:	KAS		
WTDS-05-142	WC.2005.3407.7	10-33-3	Total Dissolved Solids	3410	mg/L	1	10		12-21-05	12-22-05
0512437-0001B		EPA 300.0 Anions by IC					By:	JTK		
W05972	WC.2005.3397.35	16887-00-6	Chloride	371	mg/L	100	0.05		12-20-05	12-21-05
W05972	WC.2005.3397.36	14797-65-0	Nitrate, as N	ND	mg/L	10	0.05		12-20-05	12-21-05

Sample: *HERRA M.W.* Collected: 12-20-05 10:00:00 By: PG
Matrix:

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0512437-0002A		SM 4500-N & NH3B,C					By:	ECC		
W05987	WC.2005.3445.21	7727-37-9	Kjeldahl Nitrogen, Total	73.7	mg/L	50	0.2		12-27-05	12-28-05
0512437-0002B		EPA 160.1 Total Dissolved Solids					By:	KAS		
WTDS-05-142	WC.2005.3407.8	10-33-3	Total Dissolved Solids	1680	mg/L	1	10		12-21-05	12-22-05
0512437-0002B		EPA 300.0 Anions by IC					By:	JTK		
W05972	WC.2005.3397.37	16887-00-6	Chloride	344	mg/L	100	0.05		12-20-05	12-21-05
W05972	WC.2005.3397.38	14797-65-0	Nitrate, as N	11.4	mg/L	10	0.05		12-20-05	12-21-05

N.B. highest
NO_3 - N

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SQL Cycle Reports 1.6.0512131.35200

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Explanation of codes	
B	Analyte Detected in Method Blank
E	Result is Estimated
H	Analyzed Out of Hold Time
N	Tentatively Identified Compound
S	Subcontracted
1-9	See Footnote

HERAA DAIRY
attn: PEDRAM GHOREISHA
P.O. BOX 591
VEGUITA NM 87062

STANDARD

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Client: HERAA DAIRY
Project: HERAA DAIRY
Order: 0508057 HER01 Receipt: 08-02-05

William R. Biava: President of Assaigai Analytical Laboratories, Inc.

Sample: *HERAA MW* Collected: *08-01-05 14:00:00* By: *PG*
Matrix: *W*

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0508057-01A		EPA 160.1 Total Dissolved Solids					By:	MJN		
WTDS-05-088	WC.2005.2098.9	10-33-3	Total Dissolved Solids	2650	mg/L	1	10		08-03-05	08-04-05
0508057-01A		EPA 300.0 Anions by IC					By:	JTK		
W05584	WC.2005.2100.13	16887-00-6	Chloride	1070	mg/L	100	0.05		08-03-05	08-03-05
W05584	WC.2005.2100.14	14797-65-0	Nitrate as N	ND	mg/L	10	0.05		08-03-05	08-03-05
0508057-01B		SM 4500-N & NH3B,C					By:	ECC		
W05629	WC.2005.2231.15	7727-37-9	Kjeldahl Nitrogen, Total	49.1	mg/L	25	0.2		08-17-05	08-18-05

Sample: *HERAA LAGOON* Collected: *08-01-05 14:00:00* By: *PG*
Matrix: *W*

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0508057-02A		EPA 160.1 Total Dissolved Solids					By:	MJN		
WTDS-05-088	WC.2005.2098.4	10-33-3	Total Dissolved Solids	6960	mg/L	1	10		08-03-05	08-04-05
0508057-02A		EPA 300.0 Anions by IC					By:	JTK		
W05584	WC.2005.2100.15	16887-00-6	Chloride	1230	mg/L	100	0.05		08-03-05	08-03-05
W05584	WC.2005.2100.16	14797-65-0	Nitrate as N	11.2	mg/L	10	0.05		08-03-05	08-03-05
0508057-02B		SM 4500-N & NH3B,C					By:	ECC		
W05629	WC.2005.2231.16	7727-37-9	Kjeldahl Nitrogen, Total	1030	mg/L	500	0.2		08-17-05	08-18-05

N.B. highest TKN

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