Aqua Survey, Inc.

BIOMONITORING REPORT
Mysidopsis bahia

KIN-BUC LANDFILL
383 MEADOW ROAD
EDISON, NEW JERSEY 08817

March 14, 2001

JOB #21-093

499 Point Breeze Road
Flemington, NJ 08822

Phone: 908/788-8700
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562234

NJDEP BIOMONITORING REPORT FORM - ACUTE BIOASSAY

NJPDES PERMIT #: **NJ Permit Equivalent** **DSN 001**

FACILITY NAME: **Kin-Buc Landfill**
FACILITY ADDRESS: **383 Meadow Road, Edison, NJ 08818**

FACILITY CONTACT PERSON: **Glen Garieb** **PHONE #:** **908 561-7600**

ACUTE TOXICITY LABORATORY: **AQUA SURVEY INC.**
499 Point Breeze Road
Flemington, NJ 08822

ACUTE LABORATORY CERTIFICATION NO.: 10309

TEST SPECIFICATIONS

Effluent Type (e.g., final, predisinfection): Final

Test Type: Static Daily Renewal

TEST RESULTS

Test Starting Date: 2/27/01 Completion Date: 3/3/01

Test Endpoint: LC_{50} x
NMAT _____
EC_{50} _____

LC_{50}/EC_{50} (% effluent): >100% 95% Confidence Interval: N/A

Highest percent mortality in any test concentration (if applicable): 5%
Test concentration: 100%

Test Organism: Mysid shrimp (common name) *Mysidopsis bahia* (scientific name)

QUALITY CONTROL SUMMARY

Control mortality:	zero
Temperature maintained within 20° +/- 2°C?:	Yes
Dissolved Oxygen Levels always greater than 40% saturation?	Yes
Two or more concentrations exhibit a trend deviation?	No

CERTIFICATION

Accuracy of report certified by:

Thomas J. Dolce
Thomas J. Dolce
Laboratory Manager

3/14/01
Date

499 Point Breeze Road / Flemington, NJ 08822
Phone: 908/788-8700 Fax: 908/788-9165 E-mail: aquasurvey@aol.com Web Site: www.aquasurvey.com

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TEST ORGANISM DATA

Test Organism Source: Culture x Commercial hatchery __ (Specify) __

Test Organism Acclimation

Is the culture water and test dilution water the same and are the culture water temperature and dilution water temperature identical? Yes _ No x

If yes, proceed to Test Design section.

Fish and Grass Shrimp

Initial number of organisms: _____
Total acclimation period: _____
Acclimation period to 100 percent dilution water at the specified test temperature and test salinity: _____
Number of mortalities: _____
Test organism age at start of test (days): _____

Mysid and Cladoceran

Initial number of organisms: 150 +
Test organism age at start of test (days): 4 days
Culture water source: Forty Fathoms
Culture water salinity: 24.6 ppt ; Culture water temperature: 23.1°C
Dilution water source: Mansquan
Dilution water salinity upon collection: 30.8 ppt
Number of mortalities: _____

TEST DESIGN

Number of effluent test concentrations: 5
Number of replicates/test concentration: 2
Number of test organisms/replicate: 10
Volume of liquid test chamber (liters): 0.5
Flowthrough bioassay exchange rate (replacements/day): N/A

EFFLUENT SAMPLING

Plant sampling location: Final Effluent just before weir
Effluent type: Final
Discharge (check one) Continuous x Intermittent _____
Effluent sample type: 24 composite

SAMPLE COLLECTION			SAMPLE DATA TAKEN UPON ARRIVAL AT LABORATORY			USE IN TOXICITY TEST	
ASI No.	Beginning Date/Time	Ending Date/Time	TEMP.	D.O.	pH	Date(s)	Time(s)
2010374	2/25/01; 1100	2/26/01; 1000	4.3	10.3	7.8	2/27/01	1670
2010376	2/26/01; 1100	2/27/01; 1000	3.8	10.8	6.9	2/28/01	1420
2010394	2/27/01; 1100	2/28/01; 1000	4.3	13.1	7.0	3/1/01	1455
2010416	2/28/01; 1000	23/1/01; 0900	4.0	12.5	7.3	3/2/01	1430

Maximum sample holding time (hours): <24
Testing location: Aqua Survey, Inc., Flemington, Nj.

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EFFLUENT SAMPLE ADJUSTMENTS

Were any salinity adjustments made? Yes _x_ No __

If yes, specify the source of sea salts, brine or water used: Forty Fathoms, Marine Enterprises, MD

Were any pH adjustments made? Yes _x_ No ___

If yes, specify the reagent used 6N, HCl, the amount used 0.25ml, 0.5 ml

The pH level upon sample collection (initial pH) 7.4, 7.4

The pH level after the addition of the sea salts (drifted pH) 8.0, 8.0

The adjusted pH level 7.6, 7.1

Was the effluent sample filtered in any manner? Yes ___ No _x_

If yes, please specify the mesh size: _____.

Were any adjustments to the levels of chlorine made? Yes ___ No _x_

If yes, specify the dechlorination agent used _____; and the amount of reagent used _____

Specify the chlorine levels prior to _____; and after addition of the reagent _____

Was an additional control included in the test containing the dechlorination agent? Yes ___ No ___

DILUTION WATER

Effluent Receiving Water: Raritan River

Dilution Water Source: Manasquan

(If reconstituted water is used specify type)

If a substitute dilution water (i.e. not the receiving water) was used, had its use been approved by NJDEP in the acute methodology questionnaire? Yes _x_ No ___

Collection Location: Manasquan inlet 3rd Ave. and Riverside Drive

Collection Date(s): 2/27/01

TEST RESULTS

LC_{50}/EC_{50} (% Effluent)	24 hour	48 hour	72 hour	96 hour
	>100%*	>100%*	>100%*	>100%*

Calculation Method:

Probit Method ___

The Trimmed Spearman Karber Method ___

Graphical Interpolation ___

Visual Inspection *

NOTE: Attach the statistical printouts used to determine the LC_{50} value and the mortality data sheets.

Is the calculated LC_{50}/EC_{50} valid according to the specifications of the method used? Yes _x_ No ___

MISCELLANEOUS

Were any exposure chambers aerated during the test? Yes ___ No _x_

If yes, specify concentrations and duration, including the lowest percent saturation reached prior to aeration and at what time:_____.

Were test organisms observed for appearance and behavior at least daily? Yes _x_ No _

NOTE: Attach a copy of the acute toxicity test benchsheets with observation coded for each day.

NOTE: Attach a copy of the raw data sheets for physical-chemical measurements taken during the test to the test report form.

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APPENDIX

AQUA SURVEY, INC.
96 HOUR BIOASSAY

GENERAL INFORMATION

Job #: 21-093 Client: KBL Organism: M. bahia

Dilution Water: Receiving _____ Culture _____ Alternative ✓ Manasquan

Test Volume: 5 ml Test Type: Flow Through: _____ Static Daily Renewal ✓ Static Non-Renewal ___ Chamber Volume: 5 ml

Light: 50-100 fc

Test Start Date: 2/27/01 Time: 1630 Technician: [illegible]

Test End Date: 3/3/01 Time: 1400 Technician: [illegible]

ACCLIMATION INFORMATION (laboratory or field acclimation only)

Exchange rate: Drip _____ Meter, pump _____ Exchange rate (mL/min) _____

Start date: _____ Time: _____ Chamber volume: _____

End date: _____ Time: _____ Feeding: Day 0 N/A Day 1 [illegible] Day 2 2/27/01 Day3 ___

Remarks: _____ Mortality: Day 0 ___ Day 1 ___ Day 2 ___ Day 3 ___

Temperature range: (field use only) Temperature: Day 0 ___ Day 1 ___ Day 2 ___ Day 3 ___ (lab use only)

DILUTER INFORMATION

Set up date: _____ Water used: _____ Diluter number: N/A Technician: _____

Cycles during pretest: _____ Elapsed pretest time: _____ [illegible] 2/27/01

Day 1 cycles: _____ Elapsed Time: _____ Day 2 cycles: _____ Elapsed Time: _____

Day 3 cycles: _____ Elapsed Time: _____ Total cycles: _____ Elapsed Time: _____

DESCRIPTION OF SAMPLES (use only for in-lab samples)

Effluent odor: slight Color: slightly cloudy Other: _____

Diluent odor: None Color: Clear Salinity: 30ppt Other:

ASI Number	Sample Data taken upon arrival at laboratory			Use in toxicity test	
	Temperature	D.O.	pH	Date(s)	Time(s)
2010374	4.3	10.3	7.8	2/27/01	1630
2010376	3.8	10.8	6.9	2/28/01	1420
2010394	4.3	13.1	7.0	3/1/01	1455
2010416	4.0	12.5	7.3	3/2/01	1430

AERATION PROCEDURE

Aeration required: _____ Aeration not required ✓

Description of problem: DO levels below 50% saturation _____ DO levels dropping rapidly _____

Cycles increased: Date: _____ Time: _____ Technician: _____

Dilution aeration begun: Date: _____ Time: _____ Technician: _____

Test aeration begun: Date: _____ Time: _____ Technician: _____

AQUA SURVEY, INC.
LIVE COUNTS AND OBSERVATIONS

Job #: 21-093 Organism: M. bahia

Conc	Observation Interval - hours									
	0		24		48		72		96	
	Live Count	Obser	Live Count	Obser	Live Count	Obser	Live Count	Obser	Live Count	Obser
Con A	10	1	10	1	10	1	10	1	10	1
Con B	10		10		10		10		10	
6.25 A	10		10		10		10		10	
B	10		10		10		10		10	
12.5 A	10		10		10		10		10	
B	10		10		10		10		10	
25 A	10		10		10		10		10	
B	10		10		10		10		10	
50 A	10		10		10		10		10	
B	10		10		10		10		10	
100 A	10		10		10		10		10	
B	10		9		9		9		9	
Date	2/27/01		2/28/01		3/1/01		3/2/01		3/3/01	
Initials	[illegible]		MGS		MGS		M		M	

Terms and Codes for Test Organisms ' Appearance and Behaviour

Term	Explanation	Code
Normal	Unaffected	1
Inactive	Abnormally low activity, motionless or nearly so, weak & enfeebled	2
Irritated	Hyperactivity, muscle spasms, erratic swimming	3
Surfacing	Rising and remaining unusually long at the surface	4
Abnormal body orientation	Inverted or turned approximately 90° laterally from normal body position	5
Abnormal skin color	Light discolored, dark discolor, or varidiscolored (mottled)	6
Abnormal skin condition	Mucus shedding or coagulations, hemorrahaging from gills, eyes or anal opening	7
Abnormal respiration	Rapid, slow, gulping or periodic flexure of the operculum of fish as to reverse water flow (coughing)	8

AQUA SURVEY, INC.

CULTURE LAB DISTRIBUTION FORM

DATE: 2/27/01

TEST JOB#: 21-093 CLIENT: KBL

TEST LOCATION: IN-LAB [x] FIELD [ ]

TEST SPECIES: M. bahia

TOTAL NUMBER ORGANISMS TRANSFERRED: 150+

AQUA SURVEY, INC. CULTURE LAB INVESTIGATORS: CC/CD

A. ORGANISMS

1. ASI CULTURE/HOLDING UNIT: 10 gal Tank
2. RECEIVING LOG #: N/A
3. CULTURE LOG #: 21-0120
4. AGE/SIZE INFORMATION: HD 2/23/01

B. HOLDING [x] CULTURE [ ] WATER PARAMETERS

1. TEMPERATURE: 22.8°C
2. SALINITY: 29.2 ppt
3. WATER SOURCE: Manasquan

C. TRANSFER CUSTODY & TRANSFER

1. LIVESTOCK RELINQUISHMENT DATE: 2/27/01
   TIME: 1540 hrs
   BY: CC

2. LIVESTOCK RECEIVING DATE: 2/27/01
   TIME: 1540 hrs
   BY: KZ

3. CULTURE SUPERVISOR OR SENIOR TECH. INITIALS: CC

REMARKS:

AQUA SURVEY, INC.
CULTURE LABORATORY

15 Day - General Species Status Log

Species: M. bahia **Dates:** 2/23/01 →

Receiving [ ] Culture [ ] Log #: HD 2/23/01 **Initial Stock @:** 150+

Test Job #: 21-093 **Client:** KBL **Food Type:** artemia

Date	Day Number	Temp/DO	NH_3/NO_2	pH	Sal/Hardness	Alkalinity	Mortality	Remarks/Initials
2/23	1	23.1°C/6.8	0/0	7.7	24.6ppt	116	Ø	Acclimation started Fed artemia CC
2/24	2	22.6°C/7.2	0/0.1	7.8	26.1 ppt	108	Ø	Acclimation cont Fed Artemia CC
2/25	3	22.4°C/7.4	0-0.25/0.1-3	8.0	28.1ppt	104	Ø	Acclimation conclude Fed Artemia CC
2/26	4	23.0°C/6.9	0.5/0.25	7.8	29.1ppt	104	Ø	Fed Artemia CC
2/27	5	22.8°C/7.1	0.25/0.25	7.6	29.2ppt	108	Ø	To Test Fed Artemia CC
	6							
	7							
	8							
	9							
	10							
	11							
	12							
	13							
	14							
	15							

AQUA SURVEY, INC.

Culture Lab Acclimation Form

Acclimatization

[ ] No acclimatization required
[ ] Temperature acclimatization
[X] Water acclimatization

Job #: 21-093 **Test Species:** M. bahia

Acclimatization Initial Parameters

Temperature: 23.1°C **Salinity:** 24.6ppt **Type of Water:** 40 Fathoms

Acclimatization Target Parameters

Temperature: 20±2 ~~ppt~~ ① °C **Salinity:** 30±2ppt **Type of Water:** Manasquan

Acclimatization Chamber Volume (liters): 26 l

Acclimatization Location: Culture Lab

Acclimatization Water Type: Manasquan

Acclimatization Water Temperature: 20.1°C

Acclimatization Commencement-Date/Time: 2/23/01 / 1400hrs

Change Over Rate (Approximately mL/Minute): 10-20ml/min

Acclimatization Conclusion - Date/Time: 2/25/01 / 1100hrs

Technician Initials/Commencement: CC

Technician Initials/Conclusion: CC

Supervisor Initials:

Remarks: ① Mistake CC

Job #: 21-093
Client: KBL
Sample: Effluent

*2nd Sample

ASI Sample #: 2010376
Approx. sample volume: 4 l
Collection Date/Time: 2/27/01
Initial pH 7.7
(Salinity adjusted): 8.2

Normality & Vol. of HCl/NaOH: _____ pH: _____

Normality & Vol. of HCl/NaOH: _____ pH: _____

Normality & Vol. of HCl/NaOH: _____ pH: 8.2
Date/Time: 2/27/01 1550 Initial: [illegible]

---

*1st Sample

ASI Sample #: 2010374
Approx. sample volume: 4 l
Collection Date/Time: 2/26/01
Initial pH 7.7
(Salinity adjusted): 8.0

Normality & Vol. of HCl/NaOH: _____ pH: _____

Normality & Vol. of HCl/NaOH: _____ pH: _____

Normality & Vol. of HCl/NaOH: _____ pH: 8.0
Date/Time: 2/27/01 1610 Initial: [illegible]

ASI Sample #: 2010394
Approx. sample volume: 4L
Collection Date/Time: 2/28/01
Initial pH 7.4
(Salinity adjusted): 8.0

Normality & Vol. of HCl/NaOH: ~.25 mL (6N) pH: 7.6

Normality & Vol. of HCl/NaOH: _____ pH: _____

Normality & Vol. of HCl/NaOH: _____ pH: 7.6
Date/Time: 3/1/01 1430 Initial: MGL

ASI Sample #: 2010416
Approx. sample volume: 4L
Collection Date/Time: 3/1/01
Initial pH 7.4
(Salinity adjusted): 8.0

Normality & Vol. of HCl/NaOH: 6N / 0.5 mL pH: 7.1

Normality & Vol. of HCl/NaOH: _____ pH: _____

Normality & Vol. of HCl/NaOH: _____ pH: 7.1
Date/Time: 3/2/01 1320 Initial: [illegible]

Feb 26 - March 6

AQUA SURVEY, INC.
Hardness Worksheet

Lot # EDTA: 200502
Molarity EDTA: 0.0100M

Job #	ASI #	Dish ID	Sample Volume (mL)	Burette Reading Initial	Burette Reading Final	Difference	mg/L* $CaCO_3$	Initial/ Date/Time
21-093	2010374	E	25	10.7 0.0	25.0 3.1	17.4	696	KW 1600 2/28/01
-093	2010376	V	↓	0.0	20.0	20.0	800	3/8/01 1530
-093	2010394	W	↓	0.0	21.7	21.7	868	↓
-093	2010416	E	↓	0.0	20.1	20.1	804	↓
21-094	2010373	W	25	3.2	5.0	1.8	72	KW 1600 2/28/01
-094	2010393	F	↓	0.0	2.2	2.2	88	3/8/01 1530
-094	2010421	I	↓	2.2	4.7	2.5	100	↓
21-095	2010377	G	↓	0.0	5.1	5.1	204	↓
-095	2010395	JJ	↓	5.1	10.3	5.2	208	↓
-095	2010419	D	↓	10.3	15.3	5.0	200	↓

* mg $CaCO_3$ = AxBx1000/mL sample Or simplified when 25mL sample used mg $CaCO_3$/L = Ax40
Where A= volume of standard of EDTA titrant used
Where B= 1 when EDTA molarity is 0.01
NOTE: If sample volume is changed the simplified equation must be altered to reflect change

AQUA SURVEY, INC.
96 HOUR BIOASSAY

JOB #: 21-093 ORGANISM: m. bahia

CLIENT: KBL

CONC		ALKALINITY mg/L in 25 mL					HARDNESS mg/L in 25 mL				
		0	24	48	72	96	0	24	48	72	96
0	Start	0.0									
	Stop	2.2									
	Diff	2.2									
	x	40	40	40	40	40	40	40	40	40	40
		88									
	Initial /Date/ Time	2/28/01 1630									
100	Start	0	0	13.2	0			0.0	0.0	0.0	
	Stop	1.4	1.5	14.5	1.5			20.0	21.7	20.1	
	Diff	1.4	1.5	1.2	1.5		17.4	20.0	21.7	20.1	
	x	40	40	40	40	40	40	40	40	40	40
		56	60	48	60		~~17.4~~ ① 696	800	868	804	
	Initial /Date/ Time	KW 2/28/01 1600	2-27-01 MS 1600	KW 2/28 1550	MS 1450 3-2-01		69 ②	2/28/01 1630	→		

① 696
② KW 2/28/01 1600

Residual Chlorine mg/L					
Conc.	0	24	48	72	96
0	ND				
100	ND	ND	ND	ND	
Initial/ Date/ Time	KW 2/28/01 1600	2-26-01 MS 1600	2-28-01 1550	3-2-01 MS 1450	

093-0.DAT

	DateTime		Temp	SpCond	Salinity	DO Conc	pH
	M/D/Y		C	uS/cm	ppt	mg/L	
0	02/27/01 16:35:42	0	20.00	47183.0	30.75	9.01	7.95
1	02/27/01 16:35:57	6.25	19.71	47403.0	30.91	9.09	7.95
2	02/27/01 16:36:05	12.5	19.60	47438.0	30.94	9.06	7.96
3	02/27/01 16:36:16	25	19.49	47330.0	30.86	8.96	7.96
4	02/27/01 16:36:37	50	19.22	47109.0	30.70	8.82	8.00
5	02/27/01 16:37:06	100	18.74	46720.0	30.42	8.72	8.06

Project #: 093 **Test type:** ☑ACUTE ☐CHRONIC ☐OTHER _____ **Date:** 2/27/01

Species: ☐ *P. promelas* ☐ *C. dubia* ☑ *M. bahia* ☐Other _____ **Day of Study:** 0hrs.

OPERATIONAL RANGE: Check if OK **Meter Used:**

Temperature: 18 to 22 ☑ **Blue** ☑

Salinity: 28 to 32 ☑ **Red** ☐

Dissolved oxygen: >40% ☑

pH: 6.0 to 9.0 ☑

Actions taken: _____

See deviation summary sheet ☐

Tue Feb 27 16:33:14 2001

Initials: MGS

093B-24.DAT

	DateTime	Temp	SpCond	Salinity	DO Conc	pH
	M/D/Y	C	uS/cm	ppt	mg/L	
0	02/28/01 09:02:19 0	20.48	47257.0	30.80	7.96	7.81
1	02/28/01 09:02:38 6.25	20.32	47793.0	31.19	7.67	7.84
2	02/28/01 09:02:55 12.5	20.24	47812.0	31.21	7.64	7.87
3	02/28/01 09:03:08 25	20.21	47527.0	31.00	7.48	7.91
4	02/28/01 09:03:23 50	20.18	47382.0	30.89	7.71	7.96
5	02/28/01 09:03:41 100	20.26	46892.0	30.54	7.80	7.97

Project #: 093 **Test type:** ☑ACUTE ☐CHRONIC ☐OTHER _____ **Date:** 2/28/01

Species: ☐ *P. promelas* ☐ *C. dubia* ☑ *M. bahia* ☐Other _____ **Day of Study:** 24 hr.

OPERATIONAL RANGE: Check if OK **Meter Used:**

Temperature: 18 to 22 ☑ **Blue** ☐

Salinity: 28 to 32 ☑ **Red** ☑

Dissolved oxygen: >4.0 % ☑

pH: 6.0 to 9.0 ☑

Actions taken: _____

See deviation summary sheet ☐

Initials: MCI

Wed Feb 28 09:12:11 2001

093B-48.DAT

	DateTime		Temp	SpCond	Salinity	DO Conc	pH
	M/D/Y		C	uS/cm	ppt	mg/L	
0	03/01/01 09:23:21	0	20.08	47144.0	30.72	7.80	7.32
1	03/01/01 09:23:33	6.25	20.07	47956.0	31.31	7.65	7.66
2	03/01/01 09:23:43	12.5	20.03	48109.0	31.42	7.32	7.74
3	03/01/01 09:23:55	25	20.01	48177.0	31.47	7.29	7.78
4	03/01/01 09:24:06	50	20.01	48472.0	31.69	7.23	7.84
5	03/01/01 09:24:25	100	20.12	48823.0	31.94	7.64	7.89

Project #: 093 **Test type:** ☑ ACUTE ☐ CHRONIC ☐ OTHER _____ **Date:** 3/1/01

Species: ☐ *P. promelas* ☐ *C. dubia* ☑ *M. bahia* ☐ Other _____ **Day of Study:** 48 hrs.

OPERATIONAL RANGE: Check if OK

Temperature: 18 to 22 ☑

Salinity: 28 to 32 ☑

Dissolved oxygen: > 4.0 ☑

pH: 6.0 to 9.0 ☑

Meter Used: Blue ☐ Red ☑

Actions taken: _____

See deviation summary sheet ☐

Thu Mar 01 09:31:20 2001

Initials: MCS

093B-72.DAT

	DateTime		Temp	SpCond	Salinity	DO Conc	pH
	M/D/Y		C	uS/cm	ppt	mg/L	
0	03/02/01 10:22:39	0	19.75	48380.0	31.62	7.21	7.71
1	03/02/01 10:23:05	6.25	19.50	48213.0	31.50	7.25	7.73
2	03/02/01 10:23:30	12.5	19.43	48164.0	31.47	7.18	7.73
3	03/02/01 10:23:51	25	19.42	47979.0	31.33	7.29	7.72
4	03/02/01 10:24:12	50	19.41	47580.0	31.04	7.36	7.73
5	03/02/01 10:24:49	100	19.57	46626.0	30.35	7.37	7.71

Project #: 21-093 **Test type:** ☒ACUTE ☐CHRONIC ☐OTHER _____ **Date:** 3/2/01

Species: ☐ *P. promelas* ☐ *C. dubia* ☒ *M. bahia* ☐Other _____ **Day of Study:** 72 hrs

OPERATIONAL RANGE: Check if OK **Meter Used:**

Temperature: 18 to 22 ☒ **Blue** ☐

Salinity: 28 to 32 ☐ **Red** ☒

Dissolved oxygen: >40% ☒

pH: 6.0 to 9.0 ☒

Actions taken: _____

See deviation summary sheet ☐

Initials: M

Fri Mar 02 10:30:30 2001

093-B96.DAT

	DateTime	Temp	SpCond	Salinity	DO Conc	pH
	M/D/Y	C	uS/cm	ppt	mg/L	
0	03/03/01 10:05:02 Con	21.40	47946.0	31.29	6.96	7.64
1	03/03/01 10:05:16 6.25	21.34	48111.0	31.41	6.98	7.70
2	03/03/01 10:05:27 12.5	21.27	48111.0	31.42	6.74	7.72
3	03/03/01 10:05:45 25	21.26	48126.0	31.43	6.59	7.70
4	03/03/01 10:06:12 50	21.28	48159.0	31.45	6.59	7.64
5	03/03/01 10:06:41 100	21.43	48316.0	31.56	6.68	7.58

Project #: 093 Test type: ☑ ACUTE ☐ CHRONIC ☐ OTHER _____ Date: 3/3/01

Species: ☐ *P. promelas* ☐ *C. dubia* ☑ *M. bahia* ☐ Other _____ Day of Study: 96 hr

OPERATIONAL RANGE: Check if OK Meter Used:

Temperature: 18 to 22 ☐ Blue ☐

Salinity: 28 to 32 ☐ Red ☒

Dissolved oxygen: >40 ☐

pH: 6.0 to 9.0 ☐

Actions taken: _____

See deviation summary sheet ☐ Initials: TD

Tue Mar 06 09:33:56 2001

ari 21-093

Job # KinBac LANdFill
Client Edison NJ
Facility Location
Discharge #
Contact GIEN
Phone #

Sample Collection Point Description: FINAL EFF JUST BEFORE WEIR

TEST TYPE: Acute ✓ Diluent Only ___ Chronic ___ Other ___

Diluent Collection Location: MANASQUAN INLET 3rd AVE + Riverside drive

Shipping Information
To: ASI
From: KiN BUC LANdFill
Shipment Method / Special Instructions: ASI Auto

Sample Type Key: C = composite; G = grab; S = soil; SD = sediment; SL = sludge

Diluent/Effluent Sample Number	Collected By Name(Please Print) / Date / Time	Sample Type	Sample Volume	Relinquished By Signature / Date / Time	Received By Signature / Date / Time	Relinquished By Signature / Date / Time	Received By Signature / Date / Time
2010374	M. SWENSON 2-25-01 1100 2-26-01 1000	C	4L	2-26-01 1330	2-26-01 1335		
2010378	M.SWENSON 2-27-01 1000	G	150 GAL	2-27-01 1500	Tom Dolce 2/27/01 1530		
2010376	M SWENSON 2-26-01 1100 2-27-01 1000	C	4L	2-27-01 1500	Tom Dolce 1530 2/27/01		
2010394	M. SWENSON 2-27-01 1100 2-28-01 1000	C	4L	2-28-01 1515	2-28-01 1520		
2010416	M. SWENSON 2-28-01 1000 3-1-01 0900	C	4L	3-1-01 1545	3-1-01 1550		

ASI, INC.
SAMPLE RECEIVING FORM

Page of

Client: KINBUC LANDFILL Job #: 21-093

Shipped Via: ASI Auto # of Shipping Containers: 1

Type of Shipping Container COOLER Custody Seal Present ✓ Absent _ Broken _ Condition of Shipping Container: Acceptable ✓ Unacceptable __

	ASI #	Sample ID	Type of Container	Number of Containers	Condition of Samples†	Temp. °C	Ice +	Type of Sample*
1.	2010374	EFF	P	1	A	4.3	1	E
2.	2010378	EFF.	P	1	A	6.9	—	W
3.	2010376	EFF	P	1	A	3.8	1	E
4.	2016394	EFF	P	1	A	4.3	1	E
5.	2010416	EFF	P	1	A	4.0	1	E
6.								
7.								
8.								
9.								
10								

30.8 ppt

Notes: (Discrepancies Between Sample Label and COC Record)

Opened /Received by: [signature] Date/Time: 3-1-01 1330

* S - Soil, Se - Sediment, Sl - Sludge, W - Water, E - Effluent

† A - Acceptable, U - Unusable or Contaminated

\+ I - Ice, D - Dry Ice, B - Blue Ice, N - None

7/96