
**County of Los Angeles
Department of Public Works**

**Water Quality Monitoring
2005 Annual Report**

for the

**Master Mitigation Plan
for the Big Tujunga Wash Mitigation Bank**

February 2006



MWH

**Water Quality Monitoring
2005 Annual Report**

for

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February 2006

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Distribution

Quarterly and annual water quality monitoring reports are distributed to the following agencies:

Los Angeles County Department of Public Works

Ms. Belinda Kwan
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California Department of Fish and Game

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Water Quality Monitoring

2005 Annual Report

SUMMARY

Water quality sampling was conducted at four sampling stations at the County of Los Angeles Department of Public Works (LADPW) Big Tujunga Wash mitigation bank for four quarters of 2005. Samples were collected at three points along Haines Canyon Creek (inflow to the Tujunga Ponds, the outflow from the ponds, and in Haines Canyon Creek leaving the mitigation bank site) and in Big Tujunga Wash in April, June, October and December of 2005 (**Figure 1**). Parameters monitored included temperature, dissolved oxygen (DO), pH, nutrients, turbidity, bacteria levels, an insecticide (chlorpyrifos) and a herbicide (glyphosate). Both field meters and laboratory analyses were used in the water quality sampling program. This is the fifth annual report for a 5-year water quality monitoring program that began in the fourth quarter of 2000.

For most parameters, observed water quality met Los Angeles Regional Water Quality Control Board (Regional Board) Basin Plan objectives and water quality criteria for freshwater recommended by the U.S. Environmental Protection Agency (EPA). (Note – 2004/2005 was one of the highest recorded rainfall years for the Los Angeles area.) Temperatures were cool enough and DO concentrations generally high enough for growth and survival of warmwater fish species. Observed pH values ranged from 6.8 to 9.0 units, and turbidity levels were low. Residual chlorine and pesticides were not detected. Excessive nutrient conditions were not noted. A degree of nitrogen reduction was observed between inflow and outflow from the Tujunga Ponds. Measured fecal coliform levels were consistently below the water contact recreation standard.


BACKGROUND


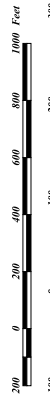

LADPW purchased a 207-acre parcel in Big Tujunga Wash as a mitigation bank for County flood control projects throughout Los Angeles. In coordination with local agencies, the County defined a number of measures to improve habitat quality at the site. A Master Mitigation Plan (MMP) was prepared to guide the implementation of these enhancements. The MMP also includes a 5-year monitoring program to gather data on conditions at the site during implementation of the improvements. The MMP was prepared and is being implemented by Chambers Group, Inc. MWH, a subconsultant to Chambers Group, is responsible for the water quality monitoring program described in the MMP. This is the fifth annual report of the 5-year water quality monitoring program that began in the fourth quarter of 2000.

The project site is located just east of Hansen Dam in the Shadow Hills area of the City of Los Angeles (**Figure 1**). Both Big Tujunga Wash (an intermittent stream) and Haines Canyon Creek (a perennial stream) traverse the project site in an east-to-west direction. The two Tujunga Ponds are located at the far eastern portion of the site.



**BIG TUJUNGA WASH
MITIGATION BANK**

Prepared For:
 Los Angeles County
 Department of Public Works
 Date: December 3, 1999
 Prepared By:
 Leslie Beckus
 Chambers Group, Inc.
 This map was produced using
 ESRI's ArcView software.


*This map is not intended
for site-specific purposes.*

**Figure 1
Water Quality Sampling Stations**

WQ Station No.	Name
1	Inflow to Tujunga Ponds
2	Outflow from Tujunga Ponds
3	Big Tujunga Wash
4	Haines Canyon Creek, just before exit from site

Project Site Activities

A timeline of project-related activities that could influence water quality is presented in **Table 1**.

**Table 1
Major Activities to Date at the Big Tujunga Wash Mitigation Bank**

Date	Activity
4/00	Baseline water quality sampling
11/00 to 11/01	Arundo, tamarisk, and pepper tree removal Chemical (Rodeo®) application
12/00 to 11/02	Water hyacinth removal
12/00	Fish Sampling at Haines Canyon Creek
12/14/00	Water quality sampling
1/01 to present	Exotic aquatic wildlife (non-native fish, crayfish, bullfrog, and turtle) removal – conducted quarterly
2/01	Partial riparian planting
3/01	Selective clearing at Canyon Trails Golf Club
3/12/01	Water quality sampling
6/19/01	Water quality sampling
7/01	Fish Sampling at Haines Canyon Creek
9/11/01	Water quality sampling
10/01 to 11/01	Fish Sampling at Haines Canyon Creek
12/12/01	Water quality sampling
1/02	Final riparian planting
2/02	Upland replacement planting
3/26/02	Water quality sampling
6/25/02	Water quality sampling
7/02	Fish Sampling at Haines Canyon Creek
9/12/02	Water quality sampling
10/02	Grading at Canyon Trails Golf Club begins
11/02	Fish Sampling at Haines Canyon Creek
12/19/02	Water quality sampling
3/20/03	Water quality sampling
4/1/03	Meeting with Canyon Trails Golf Club to discuss future use of herbicides and fertilizers
6/23/03	Water quality sampling
8/03	Fish Sampling at Haines Canyon Creek
9/30/03	Water quality sampling
Fall 2003	Completion of the golf course construction
12/17/03	Water quality sampling
1/04	Fish Sampling at Haines Canyon Creek
4/2/04	Water quality sampling
4/3/04	Rock Dam Removal Day
6/04	Angeles National Golf Club (previously named Canyon Trails) opens to the public

Table 1 (Continued)
Major Activities to Date at the Big Tujunga Wash Mitigation Bank

Date	Activity
7/2/04	Water quality sampling
10/5/04	Water quality sampling
12/9/04	Water quality sampling
4/7/05	Water quality sampling
6/30/05	Water quality sampling
10/25/05	Water quality sampling
12/22/05	Water quality sampling

Water Quality Monitoring Program

In order to establish water quality upstream and downstream of the site, quarterly sampling and analysis has been performed for 5 years, for a total of 21 individual sampling days (four quarters a year for 5 years plus the first sampling period in December 2000). The monitoring program has been designed to specifically address inputs to the site from upstream land uses such as the Angeles National Golf Club (previously named Canyon Trails Golf Club). Potential impacts to aquatic species from run-on to the site that contains excessive nutrients or pesticides are of primary concern.

The golf course has been operating since June 2004. Additional construction at the club house building is in progress and is scheduled for completion in 2006 (Angeles National Golf Course staff, personal communication to A. Kawaguchi, MWH, January 18, 2006).

In March 2004, the golf course maintenance staff indicated that the following chemicals may be used on an as needed basis: Primo™ (a grass growth inhibitor used for turf management; active ingredient – trinexapac-ethyl) and Rodeo® (an herbicide used to control aquatic weeds; active ingredient – glyphosate) (J. Reidinger, pers. comm. to M. Chimienti, LADPW, March 18, 2004). Based on this information, glyphosate was added to the list of sampling parameters starting in the first quarter of 2004.

In December 2004 and February 2005, the Golf Club provided MWH with the golf course's monthly pesticide use reports. The reports indicate that 10 types of chemical products (seven herbicides, one insecticide, one fungicide, and one grass growth inhibitor) were applied as summarized in **Table 2**. Based on this information, chlorpyrifos (an insecticide) was added to the list of sampling parameters starting in the fourth quarter of 2004.

In December 2004, the Golf Club also provided MWH with the golf course's water quality monitoring reports to date. The results were summarized and presented in the 2004 Annual Report for the Big Tujunga Wash Mitigation Bank Water Quality Monitoring Program (distributed in February 2005).

No further data regarding the Golf Club's pesticide application or water quality monitoring activities were provided as a result of requests made in August 2005, December 2005 and January 2006.

Table 2
Pesticide Applications at the Angeles National Golf Course
(June – November 2004)

Active Ingredient	Manufacturer and Product Name	Applications
Chlorpyrifos	Dow AgroSciences Dursban Pro (insecticide)	One application (145,000 sq. ft.) in August
Diquat dibromide	Syngenta Reward (herbicide)	Two applications (43,000 sq. ft. and not recorded) in August, one application (87,000 sq. ft.) in September, and one application in November
Flutolanil	Bayer Prostar 70 WP (fungicide)	One application (120,000 sq. ft.) in July and one application (140,000 sq. ft.) in August
Glyphosate	Lesco Prosecutor (herbicide)	Three applications (one 86,000 sq. ft. and two not recorded) in August
Glyphosate and Diquat dibromide	Monsanto QuickPRO (herbicide)	Three applications (20,000 to 30,000 sq. ft.) in June and one application (20,000 sq. ft.) in July
Imazapyr	BASF Stalker (herbicide)	Two applications in November
Oryzalin	Dow AgroSciences Surflan (herbicide)	One application (87,000 sq. ft.) in September
Pelargonic acid	Mycogen Scythe (herbicide)	One application (86,000 sq. ft.) in August
Prodiamine	Syngenta Barricade (herbicide)	Three applications (two 86,000 sq. ft. and one not recorded) in August
Trinexapac-ethyl	Syngenta Primo Maxx (grass growth inhibitor)	One application (120,000 sq. ft.) in June, three applications (76,000 to 120,000 sq. ft.) in July, two applications (140,000 and 156,000 sq. ft.) in August, and two applications (60,000 and 128,000 sq. ft.) in September

Source: Angeles National Golf Course Monthly Summary Pesticide Use Reports for June through November 2004
 sq. ft. – square feet

MATERIALS AND METHODS

Sampling Stations

Four sampling locations have been identified for the 5-year monitoring program for the Big Tujunga Wash Mitigation Bank (**Figure 1** and **Table 3**). The coordinates of the sampling stations were determined by a hand-held Global Positioning System. **Table 4** summarizes sampling conditions observed on the four sampling dates in 2005.

Sampling Parameters

Water Quality. **Table 5** summarizes the sampling parameters included in the water quality monitoring program. The following meters were used in the field:

Water Quality Monitoring 2005 Annual Report

- DO and temperature – HACH SensION 6 DO meter
- Total residual chlorine – HACH DR 700
- pH – Orion 230A with HACH 51935 electrode

All other analyses except chlorpyrifos were performed in duplicate at MWH Laboratories, Monrovia, California. Analysis for chlorpyrifos was conducted in duplicate at CRG Laboratories, Torrance, California. Samples were taken at mid-depth, along a transect perpendicular to the stream channel alignment. Quality assurance/quality control (QA/QC) procedures in the laboratory followed the methods described in the MWH Laboratories *Quality Assurance Manual*.

Table 3
Water Quality Sampling Locations

Sampling Locations	Latitude	Longitude
Haines Canyon Creek, just before exit from site	N 34° 16' 2.9"	W 118° 21' 22.2"
Haines Canyon Creek, inflow to Tujunga Ponds	N 34° 16' 6.9"	W 118° 20' 18.7"
Haines Canyon Creek, outflow from Tujunga Ponds	N 34° 16' 7.1"	W 118° 20' 28.3"
Big Tujunga Wash	N 34° 16' 11.7"	W 118° 21' 4.0"

Table 4
Water Quality Sampling Conditions

Description	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
Date	4/7/2005	6/30/2005	10/25/2005	12/22/2005
Approximate Air Temperature	70°F	75°F	68°F	72°F
Skies	Sunny	Sunny / hazy	Overcast	Sunny
Water Volume / Notes	High flows in Haines Canyon Creek – Two additional streams had been created due to heavy rains, and much of the surrounding vegetation had been washed out.	Dense algae in inflow to Tujunga Ponds	(See page 21)	(See page 21)
Time of Sample				
Haines Canyon Creek Exiting the Site	10:15 a.m.	10:00 a.m.	10:00 a.m.	8:30 a.m.
Inflow to Tujunga Ponds	12:40 p.m.	12:30 p.m.	11:30 a.m.	10:00 a.m.
Outflow from Tujunga Ponds	1:25 p.m.	11:00 a.m.	12:30 p.m.	11:00 a.m.
Big Tujunga Wash	11:35 a.m.	1:30 p.m.	1:20 p.m.	12:30 p.m.

**Table 5
Water Quality Sampling Parameters**

Parameter	Analysis Location	Analytical Method
total Kjeldahl nitrogen (TKN)	laboratory	EPA 351.2
nitrite (NO ₂)	laboratory	EPA 300.0 by IC
nitrate (NO ₃)	laboratory	EPA 300.0 by IC
ammonia (NH ₄)	laboratory	EPA 350.1
orthophosphate - P	laboratory	Standard Methods 4500P-E
total coliform	laboratory	Standard Methods 9221B
fecal coliform	laboratory	Standard Methods 9221C
total organic halogens (organochlorides)	not sampled in 2005	--
total phosphorus - P	laboratory	Standard Methods 4500PE/EPA 365.1
organophosphate (total P minus ortho-P)	calculation	--
turbidity	laboratory	EPA 180.1
glyphosate (Roundup/Rodeo) ¹	laboratory	EPA 547
chlorpyrifos ²	laboratory	EPA 625
1 golf course fungicide	not sampled in 2005	--
dissolved oxygen	field	Standard Methods 4500-O G
total residual chlorine	field	Standard Methods 4500-Cl D
temperature	field	Standard Methods 2550
pH	field	Standard Methods 4500-H+

Sources for analytical methods:

EPA. Method and Guidance for Analysis of Water.

American Public Health Association, American Waterworks Association, and Water Environment Federation. 1998. Standard Methods for the Examination of Water and Wastewater, 20th Edition. Washington D.C.

1 First analysis completed in the first quarter of 2004.

2 First analysis completed in the fourth quarter of 2004. This analytical method (diazinon/chlorpyrifos by GCMS, EPA 625) tests for the following chemicals: diazinon, sulprofos, chlorpyrifos, demeton, dichlorvos, disulfoton, dimethoate, ethoprop, fenchlorphos, fensulfothion, fenthion, merphos, mevinphos, malathion, parathion-methyl, phorate, tokuthion, tetrachlorovinphos, and trichloronate.

Discharge Measurements. In addition to the water quality monitoring, flows in the outlet from Tujunga Ponds, in Haines Canyon Creek leaving the site, and in Big Tujunga Wash were estimated using a simple field procedure. The technique uses a float (a small plastic ball) to measure stream velocity.

Calculating flow then involves solving the following equation:

$$\text{Flow} = \text{ALC} / \text{T}$$

Where:

A = Average cross-sectional area of the stream (stream width multiplied by average water depth)

L = Length of the stream reach measured (usually 20 ft)

C = A coefficient or correction factor (0.8 for rocky-bottom streams or 0.9 for muddy-bottom streams). This allows you to correct for the fact that water at the surface travels faster than near the stream bottom due to resistance from gravel, cobble, etc. Multiplying the surface velocity by a correction coefficient decreases the value and gives a better measure

of the stream's overall velocity.

T = Time, in seconds, for the float to travel the length of L

RESULTS

Baseline Water Quality

Sampling and analysis conducted by LADPW prior to implementation of the MMP is considered the baseline for water quality conditions at the site. The results of analyses conducted in April 2000 are presented in **Table 6**. Higher bacteria and turbidity observed in the 4/18/00 samples are attributable to a rain event. Phosphorus levels were also high in the 4/18/00 samples, perhaps due to release from sediments.

2005 Results

Water Quality

Results of analyses for the four quarters of 2005 conducted by MWH Laboratories and CRG Laboratories are appended to this report (**Appendix A**) and summarized in **Table 7** through **Table 10**. Note that the yields (percent recoveries) of QC samples in 2005 were within acceptable limits (percentages) for all samples except: 1) the matrix spikes and matrix spike duplicates for nitrite-nitrogen and Kjeldahl nitrogen in the third quarter [Since Laboratory Control Standards (LCSs) were within control limits for these parameters, data are deemed acceptable as reported]; and 2) LCSs for nitrite-nitrogen in the fourth quarter [Results were high-biased; however, the data were not affected since all results for nitrite-nitrogen were non-detect].

Water quality results for five years of sampling are depicted in **Figure 2** through **Figure 8**. Where duplicate analyses were conducted, the average value is graphed.

**Table 6
Baseline Water Quality (2000)**

Parameter	Units	Date	Haines Canyon Creek, inflow to Tujunga Ponds	Haines Canyon Creek, outflow from Tujunga Ponds	Big Tujunga Wash	Haines Canyon Creek, just before exit from site
Total coliform	MPN/100 ml	4/12/00	3,000	5,000	170	1,700
		4/18/00	2,200	170,000	2,400	70,000
Fecal coliform	MPN/100 ml	4/12/00	500	300	40	80
		4/18/00	500	30,000	2,400	50,000
Ammonia-N	mg/L	4/12/00	0	0	0	0
		4/18/00	0	0	0	0
Nitrite-N	mg/L	4/12/00	0.061	0	0	0
		4/18/00	0.055	0	0	0
Nitrate-N	mg/L	4/12/00	8.38	5.19	0	3.73
		4/18/00	8.2	3.91	0.253	0.438
Kjeldahl-N	mg/L	4/12/00	0	0.1062	0.163	0
		4/18/00	0	0.848	0.42	0.428
Dissolved phosphorus	mg/L	4/12/00	0.078	0.056	0	0.063
		4/18/00	0.089	0.148	0.111	0.163
Total phosphorus	mg/L	4/12/00	0.086	0.062	0	0.066
		4/18/00	0.113	0.153	0.134	0.211
pH	std units	4/12/00	7.78	7.68	7.96	7.91
		4/18/00	7.18	7.47	7.45	7.06
Turbidity	NTU	4/12/00	1.83	0.38	1.75	0.6
		4/18/00	4.24	323	4070	737

Table 7
Summary of Water Quality Results
1st Quarter 2005 (4/7/05)

Parameter	Units	Inflow to Tujunga Ponds 1	Inflow to Tujunga Ponds 2 (duplicate)	Outflow from Tujunga Ponds 1	Outflow from Tujunga Ponds 2 (duplicate)	Big Tujunga Wash 1	Big Tujunga Wash 2 (duplicate)	Haines Cyn Creek exiting site 1	Haines Cyn Creek exiting site 2 (duplicate)
Temperature	°C	19.0	--	17.8	--	17.0	--	15.3	--
Dissolved Oxygen	mg/L	7.4	--	7.7	--	11.5	--	11.4	--
pH	std units	7.2	--	7.3	--	9.0	--	9.0	--
Total residual chlorine	mg/L	ND	--	ND	--	ND	--	ND	--
Ammonia-Nitrogen	mg/L	ND	ND	ND	ND	ND	ND	ND	ND
Kjeldahl Nitrogen	mg/L	0.44	0.31	0.27	0.30	0.23	0.24	0.21	0.54
Nitrite-Nitrogen	mg/L	ND	ND	ND	ND	ND	ND	ND	ND
Nitrate-Nitrogen	mg/L	5.4	5.4	3.2	3.6	ND	ND	ND	ND
Orthophosphate-P	mg/L	0.022	0.021	0.025	0.026	0.011	0.012	ND	ND
Total phosphorus-P	mg/L	0.021	0.024	0.022	0.022	0.010	ND	ND	0.012
Glyphosate	µg/L	ND	ND	ND	ND	ND	ND	ND	ND
Chlorpyrifos*	ng/L	ND	ND	ND	ND	ND	ND	ND	ND
Turbidity	NTU	0.50	0.70	0.60	0.50	1.6	1.3	1.4	1.3
Fecal Coliform Bacteria	MPN/100ml	2	2	8	13	2	2	8	4
Total Coliform Bacteria	MPN/100ml	500	220	500	700	170	21	500	21

-- No duplicate samples are taken for field measurements.

NTU – nephelometric turbidity units MPN – most probable number ND – non-detect

* The analytical method used for chlorpyrifos (diazinon/chlorpyrifos by GCMS, EPA 625) also tests for the following chemicals: diazinon, sulprofos, demeton, dichlorvos, disulfoton, dimethoate, ethoprop, fenchlorphos, fensulfothion, fenthion, merphos, mevinphos, malathion, parathion-methyl, phorate, tokuthion, tetrachlorovinphos, and trichloronate. Samples for this quarter were all non-detect for these EPA 625 parameters.

Table 8
Summary of Water Quality Results
2nd Quarter 2005 (6/30/05)

Parameter	Units	Inflow to Tujunga Ponds 1	Inflow to Tujunga Ponds 2 (duplicate)	Outflow from Tujunga Ponds 1	Outflow from Tujunga Ponds 2 (duplicate)	Big Tujunga Wash 1	Big Tujunga Wash 2 (duplicate)	Haines Cyn Creek exiting site 1	Haines Cyn Creek exiting site 2 (duplicate)
Temperature	°C	20.5	--	19.5	--	26.3	--	19.5	--
Dissolved Oxygen	mg/L	7.5	--	5.1	--	5.2	--	7.8	--
pH	std units	6.8	--	6.9	--	8.4	--	7.8	--
Total residual chlorine	mg/L	ND	--	ND	--	ND	--	ND	--
Ammonia-Nitrogen	mg/L	ND	ND	ND	ND	ND	ND	ND	ND
Kjeldahl Nitrogen	mg/L	0.24	0.21	ND	0.34	ND	0.36	0.23	0.21
Nitrite-Nitrogen	mg/L	ND	ND	ND	ND	ND	ND	ND	ND
Nitrate-Nitrogen	mg/L	4.6	4.7	2.6	2.6	ND	ND	2.3	2.3
Orthophosphate-P	mg/L	0.024	0.024	0.028	0.029	ND	ND	0.032	0.031
Total phosphorus-P	mg/L	0.042	0.012	0.025	0.040	0.013	ND	0.033	0.030
Glyphosate	µg/L	ND	ND	ND	ND	ND	ND	ND	ND
Chlorpyrifos*	ng/L	ND	ND	ND	ND	ND	ND	ND	ND
Turbidity	NTU	0.20	0.30	0.25	0.25	0.20	0.30	0.25	0.20
Fecal Coliform Bacteria	MPN/100ml	50	17	170	170	2	13	80	110
Total Coliform Bacteria	MPN/100ml	2,400	3,500	16,000	2,400	16,000	2,200	2,400	900

-- No duplicate samples are taken for field measurements.

NTU – nephelometric turbidity units

MPN – most probable number

ND – non-detect

* The analytical method used for chlorpyrifos (diazinon/chlorpyrifos by GCMS, EPA 625) also tests for the following chemicals: diazinon, sulprofos, demeton, dichlorvos, disulfoton, dimethoate, ethoprop, fenchlorophos, fensulfothion, fenthion, merphos, mevinphos, malathion, parathion-methyl, phorate, tokuthion, tetrachlorovinphos, and trichloronate. Samples for this quarter were all non-detect for these EPA 625 parameters.

Table 9
Summary of Water Quality Results
3rd Quarter 2005 (10/25/05)

Parameter	Units	Inflow to Tujunga Ponds 1	Inflow to Tujunga Ponds 2 (duplicate)	Outflow from Tujunga Ponds 1	Outflow from Tujunga Ponds 2 (duplicate)	Big Tujunga Wash 1	Big Tujunga Wash 2 (duplicate)	Haines Cyn Creek exiting site 1	Haines Cyn Creek exiting site 2 (duplicate)
Temperature	°C	19.0	--	19.0	--	19.9	--	18.5	--
Dissolved Oxygen	mg/L	4.5	--	4.8	--	8.3	--	8.3	--
pH	std units	6.9	--	6.9	--	8.6	--	7.9	--
Total residual chlorine	mg/L	ND	--	ND	--	ND	--	ND	--
Ammonia-Nitrogen	mg/L	0.08	0.09	0.09	0.09	ND	ND	ND	ND
Kjeldahl Nitrogen	mg/L	0.35	0.31	0.30	0.28	0.24	0.24	0.34	0.27
Nitrite-Nitrogen	mg/L	ND	ND	ND	ND	ND	ND	ND	ND
Nitrate-Nitrogen	mg/L	2.8	2.8	2.9	2.9	ND	ND	2.8	2.8
Orthophosphate-P	mg/L	0.040	0.039	0.040	0.040	ND	ND	0.044	0.042
Total phosphorus-P	mg/L	ND	0.031	ND	ND	ND	ND	ND	ND
Glyphosate	µg/L	ND	ND	ND	ND	ND	ND	ND	ND
Chlorpyrifos*	ng/L	ND	ND	ND	ND	ND	ND	ND	ND
Turbidity	NTU	0.50	0.60	0.65	0.70	3.5	3.6	1.7	0.50
Fecal Coliform Bacteria	MPN/100ml	50	13	50	50	17	13	80	130
Total Coliform Bacteria	MPN/100ml	1,400	1,100	3,000	500	700	1,600	1,600	2,200

-- No duplicate samples are taken for field measurements.

NTU – nephelometric turbidity units

MPN – most probable number

ND – non-detect

* The analytical method used for chlorpyrifos (diazinon/chlorpyrifos by GCMS, EPA 625) also tests for the following chemicals: diazinon, sulprofos, demeton, dichlorvos, disulfoton, dimethoate, ethoprop, fenchlorophos, fensulfothion, fenthion, merphos, mevinphos, malathion, parathion-methyl, phorate, tokuthion, tetrachlorovinphos, and trichloronate. Samples for this quarter were all non-detect for these EPA 625 parameters.

Table 10
Summary of Water Quality Results
4th Quarter 2005 (12/22/05)

Parameter	Units	Inflow to Tujunga Ponds 1	Inflow to Tujunga Ponds 2 (duplicate)	Outflow from Tujunga Ponds 1	Outflow from Tujunga Ponds 2 (duplicate)	Big Tujunga Wash 1	Big Tujunga Wash 2 (duplicate)	Haines Cyn Creek exiting site 1	Haines Cyn Creek exiting site 2 (duplicate)
Temperature	°C	17.4	--	18.0	--	13.0	--	15.0	--
Dissolved Oxygen	mg/L	7.4	--	5.3	--	9.2	--	8.4	--
pH	std units	6.8	--	6.9	--	8.6	--	7.7	--
Total residual chlorine	mg/L	ND	--	ND	--	ND	--	ND	--
Ammonia-Nitrogen	mg/L	ND	0.06	0.08	0.07	0.17	0.16	0.15	0.08
Kjeldahl Nitrogen	mg/L	0.23	0.37	0.56	0.25	0.25	0.21	0.26	0.27
Nitrite-Nitrogen	mg/L	ND	ND	ND	ND	ND	ND	ND	ND
Nitrate-Nitrogen	mg/L	3.9	3.9	3.4	3.4	ND	ND	3.4	3.4
Orthophosphate-P	mg/L	0.027	0.028	0.028	0.027	ND	ND	0.030	0.032
Total phosphorus-P	mg/L	0.086	0.083	0.051	0.083	0.067	0.010	0.054	0.083
Glyphosate	µg/L	ND	ND	ND	ND	ND	ND	ND	ND
Chlorpyrifos*	ng/L	ND	ND	ND	ND	ND	ND	ND	ND
Turbidity	NTU	0.55	0.60	0.50	0.35	0.90	0.95	0.6	0.9
Fecal Coliform Bacteria	MPN/100ml	30	13	2	13	2	7	11	8
Total Coliform Bacteria	MPN/100ml	500	2,800	7,000	16,000	2,200	1,700	260	280

-- No duplicate samples are taken for field measurements.

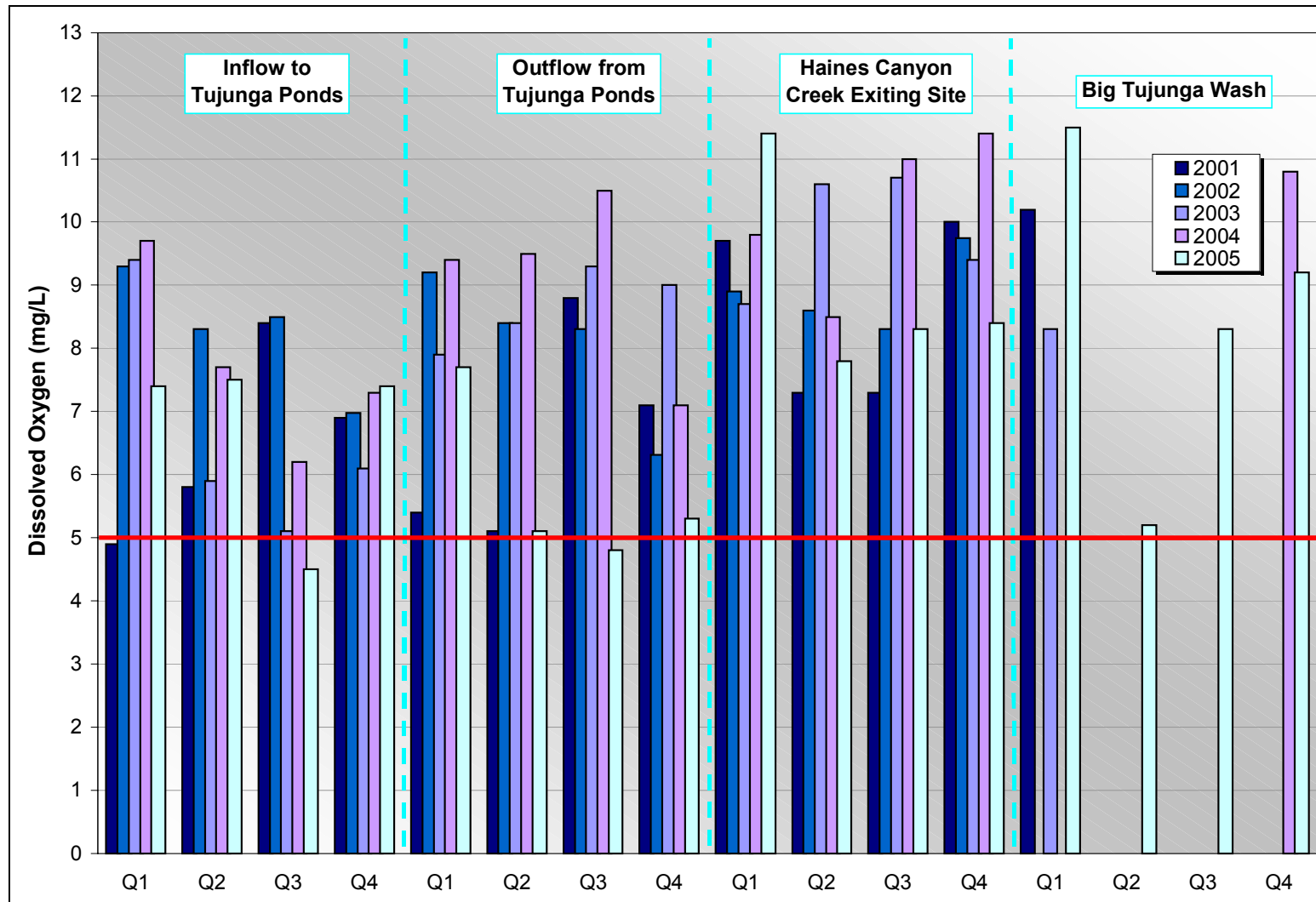
NTU – nephelometric turbidity units

MPN – most probable number

ND – non-detect

* The analytical method used for chlorpyrifos (diazinon/chlorpyrifos by GCMS, EPA 625) also tests for the following chemicals: diazinon, sulprofos, demeton, dichlorvos, disulfoton, dimethoate, ethoprop, fenchlorophos, fensulfothion, fenthion, merphos, mevinphos, malathion, parathion-methyl, phorate, tokuthion, tetrachlorovinphos, and trichloronate. Samples for this quarter were all non-detect for these EPA 625 parameters.

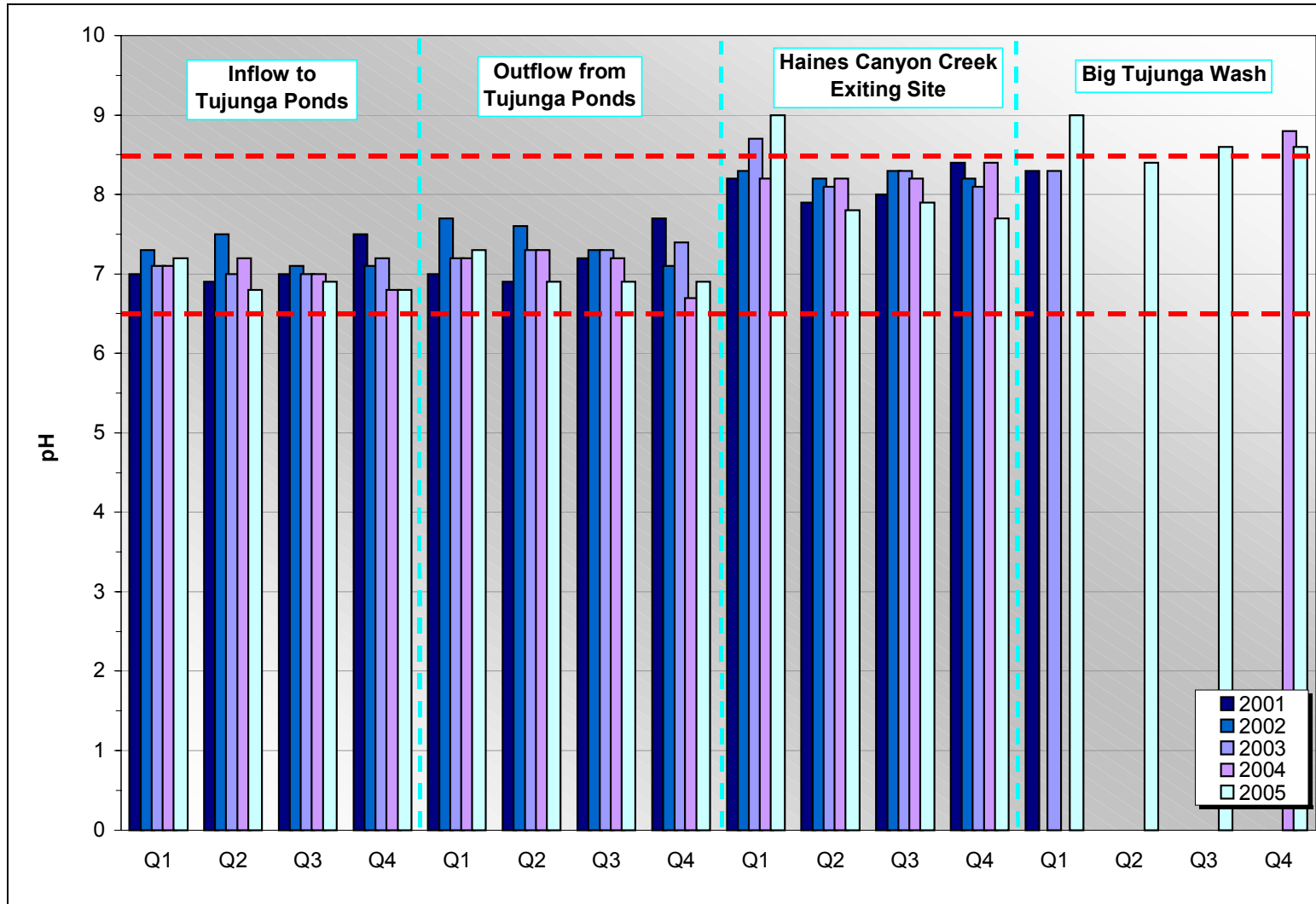
Figure 2
Dissolved Oxygen – 2001, 2002, 2003, 2004 and 2005



Notes:

- Flows observed in Big Tujunga Wash in the first quarters of 2001 and 2003, in the fourth quarter of 2004, and all four quarters of 2005.
- The red line indicates the Basin Plan objective and EPA criterion for minimum dissolved oxygen level (warmwater fish species), which is 5 mg/L (see **Table 12**).

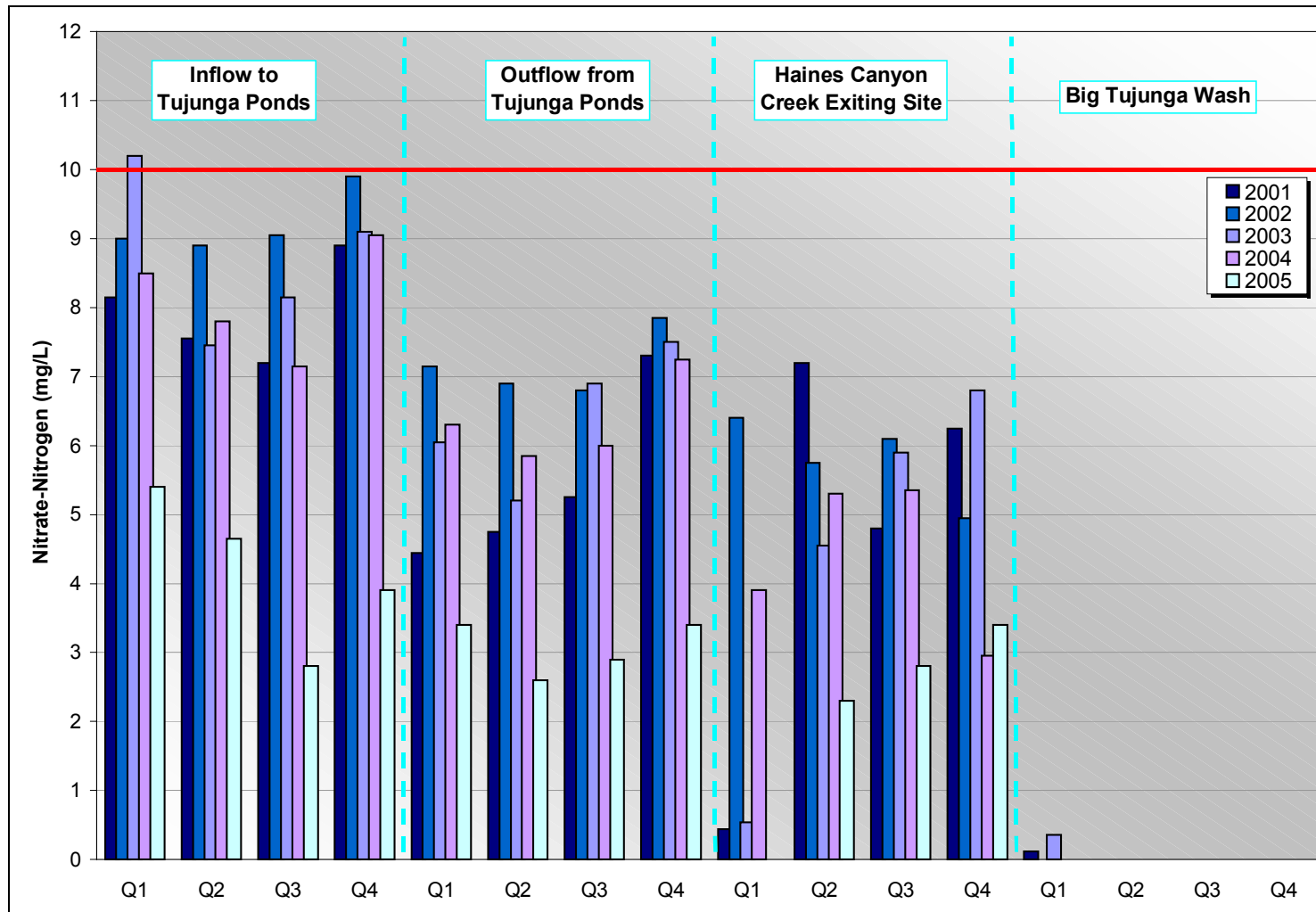
Figure 3
pH – 2001, 2002, 2003, 2004 and 2005



Notes:

- Flows observed in Big Tujunga Wash in the first quarters of 2001 and 2003, in the fourth quarter of 2004, and all four quarters of 2005.
- The red dashed lines indicate the upper and lower values of the Basin Plan objective for pH, which are 6.5 and 8.5, respectively (see Table 12).

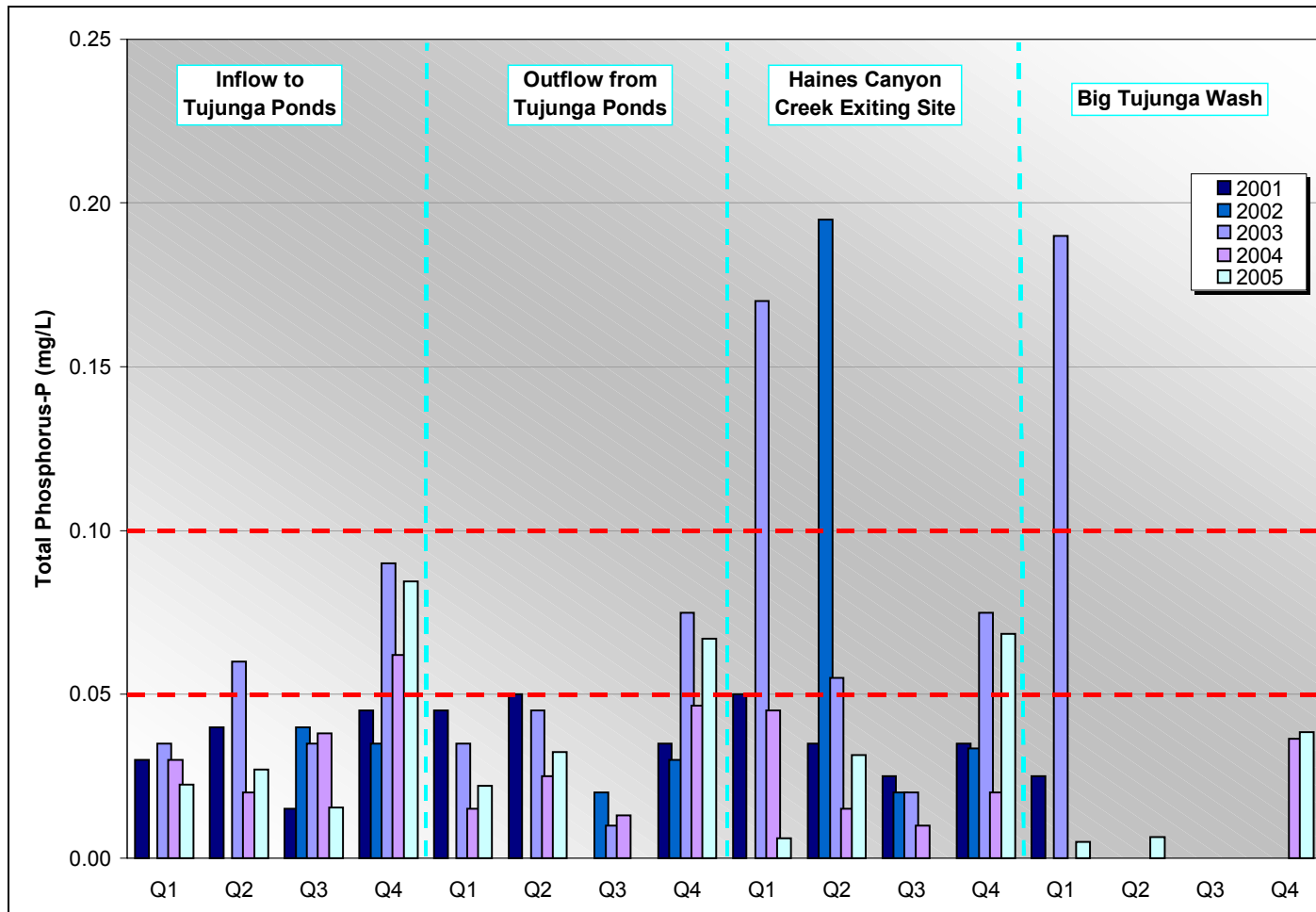
Figure 4
Nitrate as Nitrogen – 2001, 2002, 2003, 2004 and 2005



Notes:

- Flows were observed in Big Tujunga Wash in the first quarters of 2001 and 2003, in the fourth quarter of 2004, and all four quarters of 2005. In the fourth quarter of 2004 and all four quarters of 2005, nitrate-nitrogen concentrations in Big Tujunga Wash were below the detection limit.
- Each bar represents the average value of the duplicate samples taken on each date.
- The red line indicates the Basin Plan objective for nitrate-nitrogen, which is 10 mg/L (see **Table 12**).

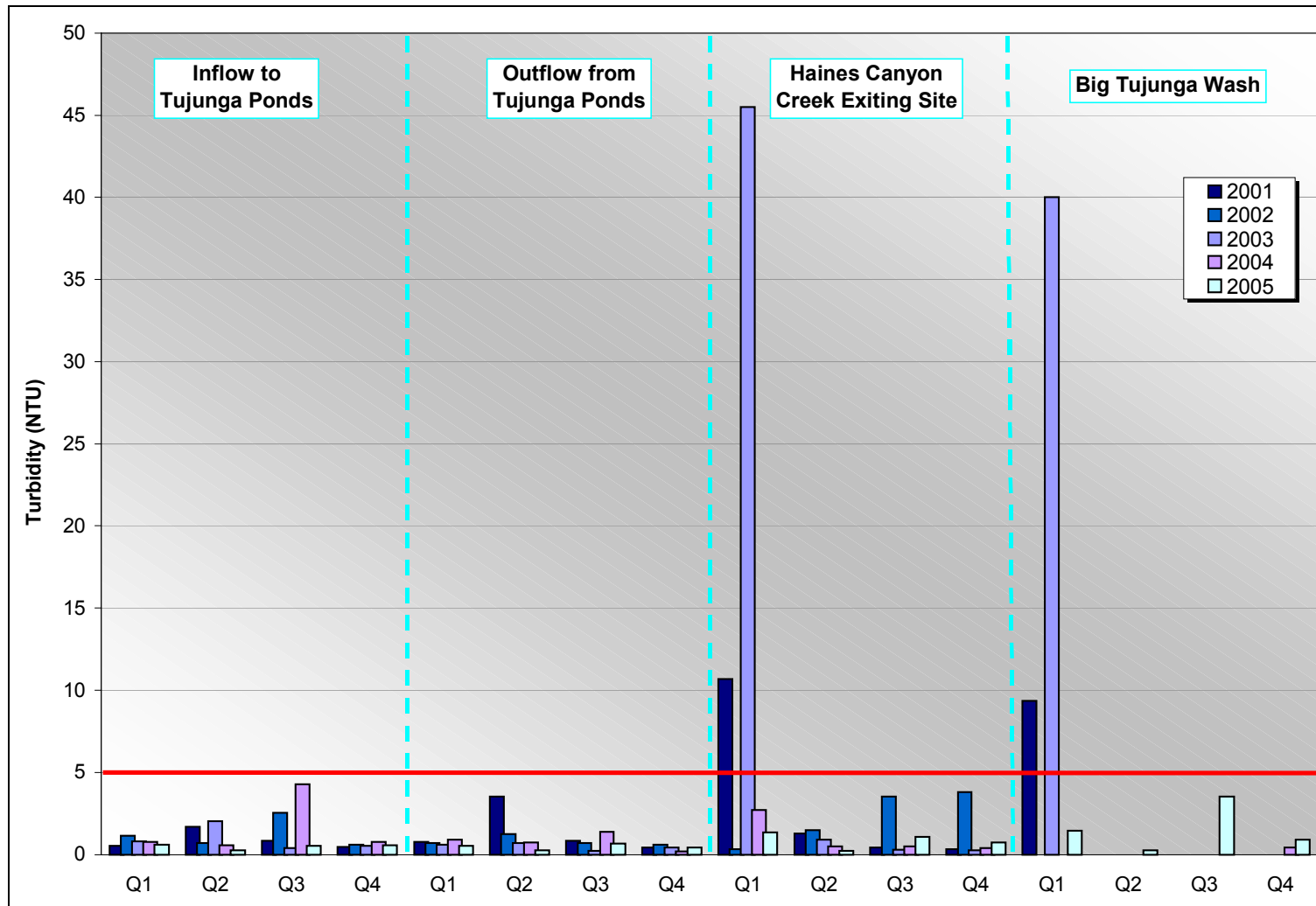
Figure 5
Total Phosphorus – 2001, 2002, 2003, 2004 and 2005



Notes:

- Flows observed in Big Tujunga Wash in the first quarters of 2001 and 2003, in the fourth quarter of 2004, and all four quarters of 2005. In the third quarter of 2005, total phosphorus concentrations in Big Tujunga Wash were below the detection limit.
- Each bar represents the average value of the duplicate samples taken on each date.
- The red dashed lines indicate the upper and lower values of EPA's recommended range for streams to prevent excess algae growth, which are 0.05 and 0.1 mg/L, respectively (see **Table 12**).

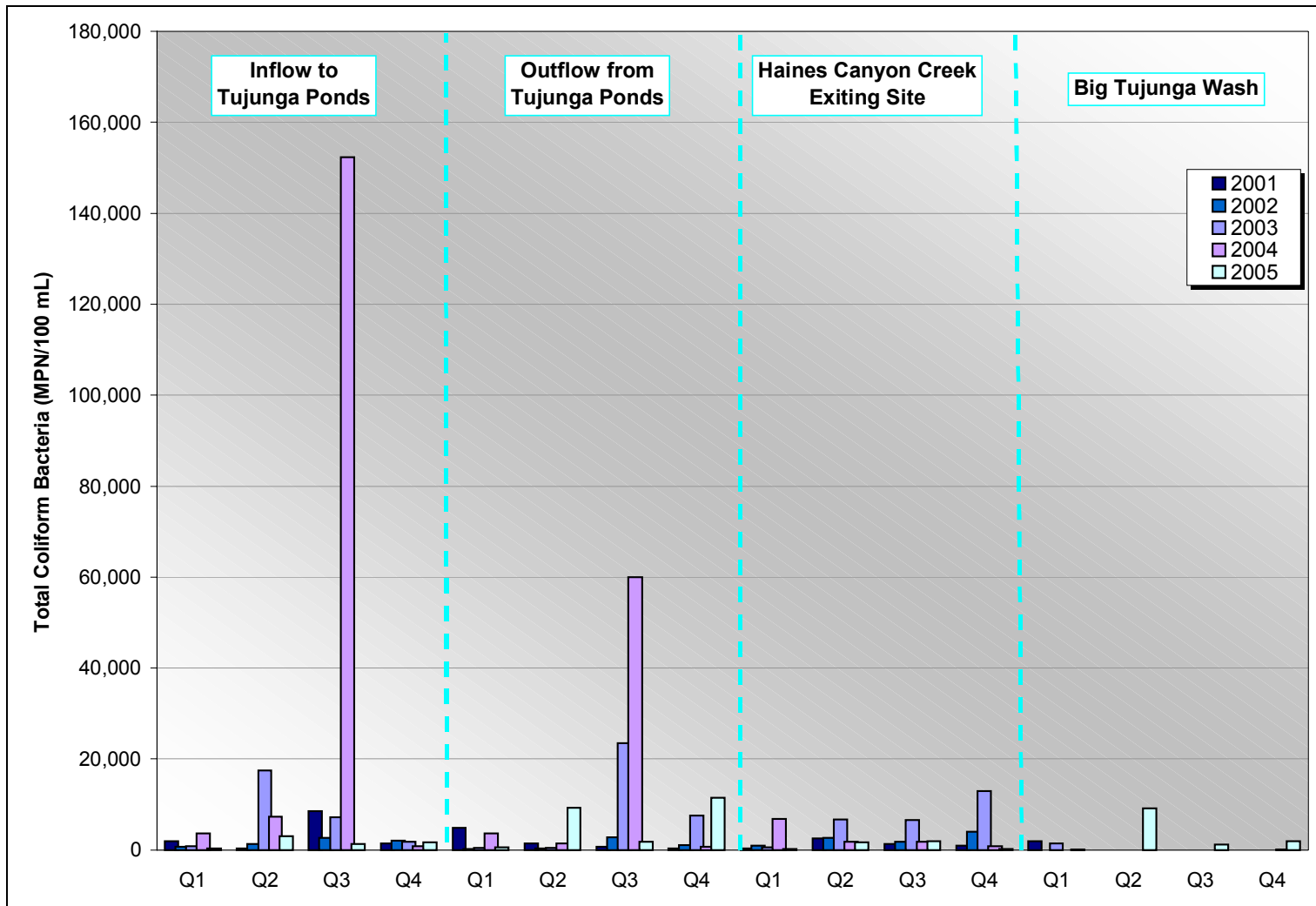
Figure 6
Turbidity – 2001, 2002, 2003, 2004 and 2005



Notes:

- Flows observed in Big Tujunga Wash in the first quarters of 2001 and 2003, in the fourth quarter of 2004, and all four quarters of 2005.
- Each bar represents the average value of the duplicate samples taken on each date.
- The red line indicates the secondary drinking water standard for turbidity, which is 5 NTU (see Table 12).

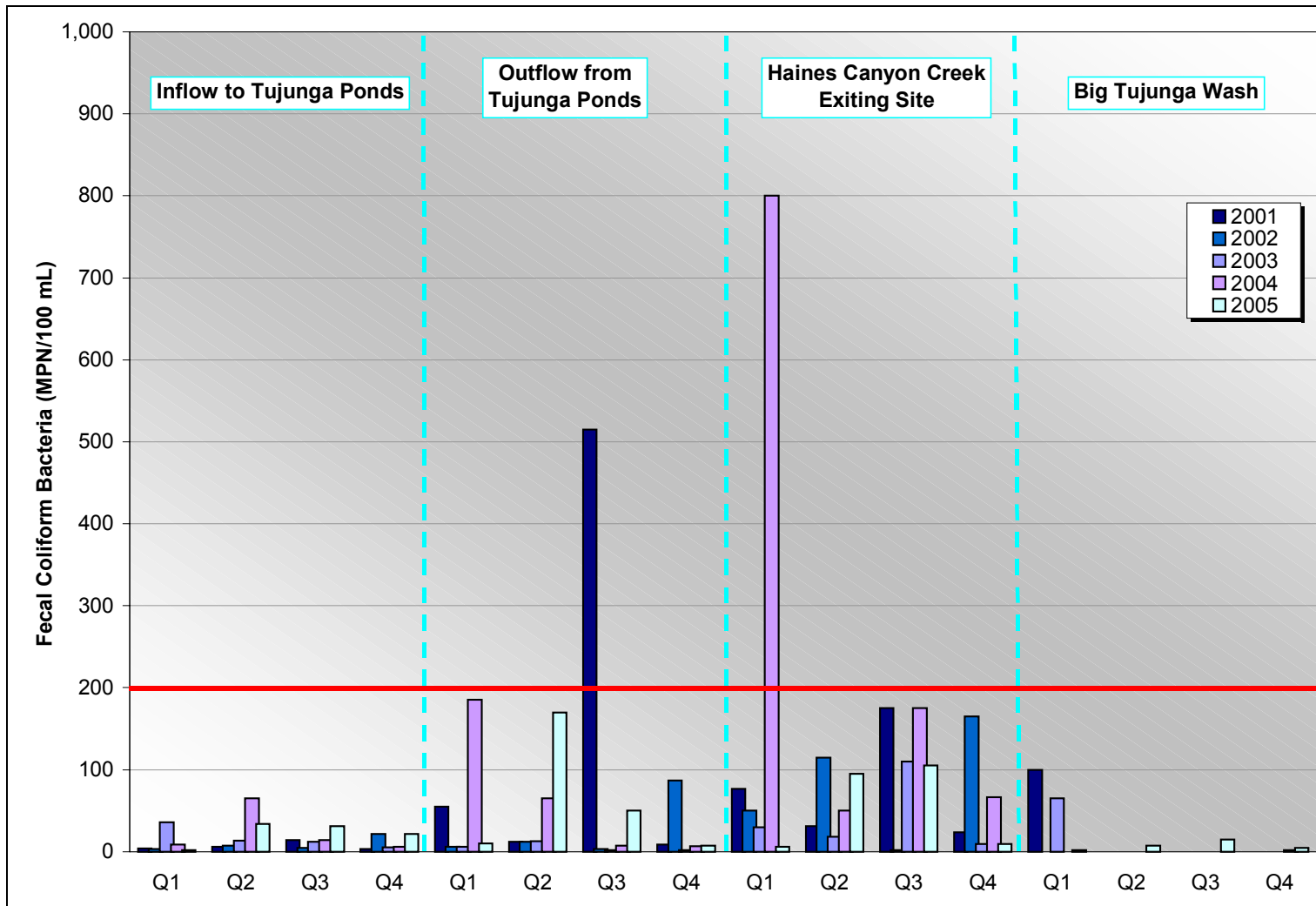
Figure 7
Total Coliform Bacteria – 2001, 2002, 2003, 2004 and 2005



Notes:

- Flows observed in Big Tujunga Wash in the first quarters of 2001 and 2003, in the fourth quarter of 2004, and all four quarters of 2005.
- Each bar represents the average value of the duplicate samples taken on each date.
- There are no numeric or narrative standards for total coliform.

Figure 8
Fecal Coliform Bacteria – 2001, 2002, 2003, 2004 and 2005



Notes:

- Flows observed in Big Tujunga Wash in the first quarters of 2001 and 2003, in the fourth quarter of 2004, and all four quarters of 2005.
- Each bar represents the average value of the duplicate samples taken on each date.
- The red line indicates the Basin Plan water contact recreation standard for fecal coliform, which is 200 MPN/100 mL (see **Table 12**).

Discharge Measurements

Using the field technique described above, flows in the outlet from Tujunga Ponds, in Haines Canyon Creek leaving the site, and in Big Tujunga Wash were approximated. Estimated flows for the four sampling dates in 2005 are summarized in **Table 11**.

**Table 11
Estimated Flows – 2005**

Sampling Date	Flow (cubic feet per second)		
	Outlet of Tujunga Ponds	Haines Canyon Creek leaving the site	Big Tujunga Wash
4/7/2005	14.8	94.9	151.2
6/30/2005	13.3	20.3	18.2
10/25/2005	12.7	16.5	0.8
12/22/2005	3.5	8.6	1.7

Comparison of Results with Baseline Data

Water quality in December 2005 was similar to baseline conditions for most parameters except as noted below. Substantially higher bacteria and turbidity levels were observed in the 4/18/00 samples due to a rain event. Phosphorus levels were also higher in the 4/18/00 samples than in December 2005, perhaps due to release from sediments resulting from the rain event.

Comparison of Results with Aquatic Life Criteria

Table 12 and **Table 16** present objectives established by the Regional Board for protection of beneficial uses in Big Tujunga Wash including wildlife habitat. EPA’s criteria for freshwater aquatic life are presented in **Table 12** through **Table 15** and **Table 17**.

Table 12
National and Local Recommended Water Quality Criteria - Freshwaters

Parameter	Basin Plan Objectives ^a	EPA Criteria		
		CMC	CCC	Human Health
Temperature (°C)	b	See Table 15	See Table 15	--
Dissolved oxygen (mg/L)	>7.0 mean >5.0 min	5.0 ^c (warmwater, early life stages, 1-day minimum)	6.0 ^c (warmwater, early life stages, 7-day mean)	--
pH	6.5 - 8.5	--	6.5-9.0 ^{d,e}	5.0-9.0 ^{d,e}
Total residual chlorine (mg/L)	0.1	0.019 ^{d,e}	0.011 ^{d,e}	4.0 (maximum residual disinfectant level goal)
Fecal coliform (MPN/100 ml)	200 ^f (water contact recreation)	--	--	Swimming standards: 33 ^g (geometric mean for enterococci) 126 ^g (geometric mean for <i>E. coli</i>)
Ammonia-nitrogen (mg/L)	See Table 16	See Tables 13, 14, and 15	See Tables 13, 14, and 15	--
Nitrite-nitrogen (mg/L)	1	--	--	1 (primary drinking water std.)
Nitrate-nitrogen (mg/L)	10	--	--	10 (primary drinking water std.)
Total phosphorus (mg/L)	--	<0.05 – 0.1 ^e (recommendation for streams, no criterion)		--
Turbidity (NTU)	h	i	i	5 (secondary drinking water standard) 0.5 – 1.0 (std. for systems that filter)

Notes:

-- No criterion

CMC Criteria Maximum Concentration or acute criterion

CCC Criteria Continuous Concentration or chronic criterion

a Source: California Regional Water Quality Control Board, Los Angeles Region. 1994. Water Quality Control Plan (Basin Plan).

b Narrative criterion: “The natural receiving water temperature of all regional waters shall not be altered unless it can be demonstrated to the satisfaction of the Regional Board that such alteration in temperature does not adversely affect beneficial uses.”

c Source: EPA. 1986. Ambient Water Quality Criteria for Dissolved Oxygen. EPA 440-5-86-003. Washington, D.C.

d Source: EPA. 1999. National Recommended Water Quality Criteria – Correction. EPA 822-Z-99-001. Washington, D.C.

e Source: EPA. 1986. Quality Criteria for Water. EPA 440/5-86-001. Washington, D.C.

f Standard based on a minimum of not less than four samples for any 30-day period, 10% of total samples during any 30-day period shall not exceed 400/100ml.

g Source: EPA. 1986. Ambient Water Quality Criteria for Bacteria – 1986. EPA 440-5-84-002. Washington, D.C.

h Narrative criterion: “Waters shall be free of changes in turbidity that cause nuisance or adversely affect beneficial uses.”

i Narrative criterion for freshwater fish and other aquatic life: “Settleable and suspended solids should not reduce the depth of the compensation point for photosynthetic activity by more than 10 percent from the seasonally established norm for aquatic life.”

Table 13
Numeric Values of the Criterion Maximum Concentration (CMC) with Salmonids Present and Absent and the Criterion Continuous Concentration (CCC) for Ammonia Nitrogen (mg/L)

pH	CMC with Salmonids Present	CMC with Salmonids Absent	CCC
6.5	32.6	48.8	3.48
6.6	31.3	46.8	3.42
6.7	29.8	44.6	3.36
6.8	28.1	42.0	3.28
6.9	26.2	39.1	3.19
7.0	24.1	36.1	3.08
7.1	22.0	32.8	2.96
7.2	19.7	29.5	2.81
7.3	17.5	26.2	2.65
7.4	15.4	23.0	2.47
7.5	13.3	19.9	2.28
7.6	11.4	17.0	2.07
7.7	9.65	14.4	1.87
7.8	8.11	12.1	1.66
7.9	6.77	10.1	1.46
8.0	5.62	8.4	1.27
8.1	4.64	6.95	1.09
8.2	3.83	5.72	0.935
8.3	3.15	4.71	0.795
8.4	2.59	3.88	0.673
8.5	2.14	3.2	0.568
8.6	1.77	2.65	0.480
8.7	1.47	2.2	0.406
8.8	1.23	1.84	0.345
8.9	1.04	1.56	0.295
9.0	0.885	1.32	0.254

Source: EPA. 1999. 1999 Update of Ambient Water Quality Criteria for Ammonia. EPA 822-R-99-014. Washington, D.C.

Table 14
Temperature and pH-Dependent Values of the Ammonia-Nitrogen CCC (Chronic Criterion) for Fish Early Life Stages Absent (mg N/L)

pH	Temperature (°Celsius)									
	0-7	8	9	10	11	12	13	14	15*	16*
6.5	10.8	10.1	9.51	8.92	8.36	7.84	7.35	6.89	6.46	6.06
6.6	10.7	9.99	9.37	8.79	8.24	7.72	7.24	6.79	6.36	5.97
6.7	10.5	9.81	9.20	8.62	8.08	7.58	7.11	6.66	6.25	5.86
6.8	10.2	9.58	8.98	8.42	7.90	7.40	6.94	6.51	6.10	5.72
6.9	9.93	9.31	8.73	8.19	7.68	7.20	6.75	6.33	5.93	5.56
7.0	9.60	9.00	8.43	7.91	7.41	6.95	6.52	6.11	5.73	5.37
7.1	9.20	8.63	8.09	7.58	7.11	6.67	6.25	5.86	5.49	5.15
7.2	8.75	8.20	7.69	7.21	6.76	6.34	5.94	5.57	5.22	4.90
7.3	8.24	7.73	7.25	6.79	6.37	5.97	5.60	5.25	4.92	4.61
7.4	7.69	7.21	6.76	6.33	5.94	5.57	5.22	4.89	4.59	4.30
7.5	7.09	6.64	6.23	5.84	5.48	5.13	4.81	4.51	4.23	3.97
7.6	6.46	6.05	5.67	5.32	4.99	4.68	4.38	4.11	3.85	3.61
7.7	5.81	5.45	5.11	4.79	4.49	4.21	3.95	3.70	3.47	3.25
7.8	5.17	4.84	4.54	4.26	3.99	3.74	3.51	3.29	3.09	2.89
7.9	4.54	4.26	3.99	3.74	3.51	3.29	3.09	2.89	2.71	2.54
8.0	3.95	3.70	3.47	3.26	3.05	2.86	2.68	2.52	2.36	2.21
8.1	3.41	3.19	2.99	2.81	2.63	2.47	2.31	2.17	2.03	1.91
8.2	2.91	2.73	2.56	2.40	2.25	2.11	1.98	1.85	1.74	1.63
8.3	2.47	2.32	2.18	2.04	1.91	1.79	1.68	1.58	1.48	1.39
8.4	2.09	1.96	1.84	1.73	1.62	1.52	1.42	1.33	1.25	1.17
8.5	1.77	1.66	1.55	1.46	1.37	1.28	1.20	1.13	1.06	0.990
8.6	1.49	1.40	1.31	1.23	1.15	1.08	1.01	0.951	0.892	0.836
8.7	1.26	1.18	1.11	1.04	0.976	0.915	0.858	0.805	0.754	0.707
8.8	1.07	1.01	0.944	0.885	0.829	0.778	0.729	0.684	0.641	0.601
8.9	0.917	0.860	0.806	0.756	0.709	0.664	0.623	0.584	0.548	0.513
9.0	0.790	0.740	0.694	0.651	0.610	0.572	0.536	0.503	0.471	0.442

* At 15° C and above, the criterion for fish ELS absent is the same as the criterion for fish ELS present.
 Source: EPA. 1999. 1999 Update of Ambient Water Quality Criteria for Ammonia. EPA 822-R-99-014.
 Washington, D.C.

Table 15
Temperature and pH-Dependent Values of the Ammonia-Nitrogen CCC (Chronic Criterion) for Fish Early Life Stages Present (mg N/L)

pH	Temperature (° Celsius)									
	0	14	16	18	20	22	24	26	28	30
6.5	6.67	6.67	6.06	5.33	4.68	4.12	3.62	3.18	2.80	2.46
6.6	6.57	6.57	5.97	5.25	4.61	4.05	3.56	3.13	2.75	2.42
6.7	6.44	6.44	5.86	5.15	4.52	3.98	3.50	3.07	2.70	2.37
6.8	6.29	6.29	5.72	5.03	4.42	3.89	3.42	3.00	2.64	2.32
6.9	6.12	6.12	5.56	4.89	4.30	3.78	3.32	2.92	2.57	2.25
7.0	5.91	5.91	5.37	4.72	4.15	3.65	3.21	2.82	2.48	2.18
7.1	5.67	5.67	5.15	4.53	3.98	3.50	3.08	2.70	2.38	2.09
7.2	5.39	5.39	4.90	4.31	3.78	3.33	2.92	2.57	2.26	1.99
7.3	5.08	5.08	4.61	4.06	3.57	3.13	2.76	2.42	2.13	1.87
7.4	4.73	4.73	4.30	3.78	3.32	2.92	2.57	2.26	1.98	1.74
7.5	4.36	4.36	3.97	3.49	3.06	2.69	2.37	2.08	1.83	1.61
7.6	3.98	3.98	3.61	3.18	2.79	2.45	2.16	1.90	1.67	1.47
7.7	3.58	3.58	3.25	2.86	2.51	2.21	1.94	1.71	1.50	1.32
7.8	3.18	3.18	2.89	2.54	2.23	1.96	1.73	1.52	1.33	1.17
7.9	2.80	2.80	2.54	2.24	1.96	1.73	1.52	1.33	1.17	1.03
8.0	2.43	2.43	2.21	1.94	1.71	1.50	1.32	1.16	1.02	0.897
8.1	2.10	2.10	1.91	1.68	1.47	1.29	1.14	1.00	0.879	0.773
8.2	1.79	1.79	1.63	1.43	1.26	1.11	0.973	0.855	0.752	0.661
8.3	1.52	1.52	1.39	1.22	1.07	0.941	0.827	0.727	0.639	0.562
8.4	1.29	1.29	1.17	1.03	0.906	0.796	0.700	0.615	0.541	0.475
8.5	1.09	1.09	0.990	0.870	0.765	0.672	0.591	0.520	0.457	0.401
8.6	0.920	0.920	0.836	0.735	0.646	0.568	0.499	0.439	0.386	0.339
8.7	0.778	0.778	0.707	0.622	0.547	0.480	0.422	0.371	0.326	0.287
8.8	0.661	0.661	0.601	0.528	0.464	0.408	0.359	0.315	0.277	0.244
8.9	0.565	0.565	0.513	0.451	0.397	0.349	0.306	0.269	0.237	0.208
9.0	0.486	0.486	0.442	0.389	0.342	0.300	0.264	0.232	0.204	0.179

Source: EPA. 1999. 1999 Update of Ambient Water Quality Criteria for Ammonia. EPA 822-R-99-014. Washington, D.C.

Table 16
Maximum One-Hour Average Concentration for Total Ammonia
(mg/L NH₃)

pH	Temperature (°Celsius)						
	0	5	10	15	20	25	30
6.50	35	33	31	30	29	20	14.3
6.75	32	30	28	27	27	18.6	13.2
7.00	28	26	25	24	23	16.4	11.6
7.25	23	22	20	19.7	19.2	13.4	9.5
7.50	17.4	16.3	15.5	14.9	14.6	10.2	7.3
7.75	12.2	11.4	10.9	10.5	10.3	7.2	5.2
8.00	8.0	7.5	7.1	6.9	6.8	4.8	3.5
8.25	4.5	4.2	4.1	4.0	3.9	2.8	2.1
8.50	2.6	2.4	2.3	2.3	2.3	1.71	1.28
8.75	1.47	1.40	1.37	1.38	1.42	1.07	0.83
9.00	0.86	0.83	0.83	0.86	0.91	0.72	0.58

Source: California Regional Water Quality Control Board, Los Angeles Region. 1994. Water Quality Control Plan (Basin Plan). Taken from EPA. 1986. Quality Criteria for Water. EPA 440/5-86-001. Washington, D.C.

Table 17
Example Calculated Values for Maximum Weekly Average Temperature for
Growth and Short-term Maxima for Survival of Juvenile and Adult Fishes During
the Summer

Species	Growth (°Celsius)	Maxima (°Celsius)
Black crappie	27	--
Bluegill	32	35
Channel catfish	32	35
Emerald shiner	30	--
Largemouth bass	32	34
Brook trout	19	24

Source: EPA. 1986. Quality Criteria for Water. EPA 440/5-86-001. Washington, D.C.

DISCUSSION

2005 Results

Results from the four quarters of sampling in 2005 are described by parameter in **Table 18**. (Note – 2004/2005 was one of the highest record rainfall years for the Los Angeles area.)

Table 18
Discussion of 2005 Sampling Results

Parameter	Discussion
Temperature	<ul style="list-style-type: none"> • As with all preceding years, temperatures observed in 2005 were below levels of concern for growth and survival of warmwater fish species (see Table 17). Highest temperatures were observed in Big Tujunga Wash in June. • Seasonal fluctuations of up to 4 degrees were observed. December readings were generally lowest, and June readings were the highest.
Dissolved oxygen	<ul style="list-style-type: none"> • DO readings in 2005 were above the recommended minimum for warmwater fish species of 5.0 mg/L, except at the inflow to and outflow from the Tujunga Ponds in the third quarter (4.5 and 4.8 mg/L, respectively). • Seasonal fluctuations of up to 6.3 mg/L in DO were observed. Highest DO readings were generally observed in the first quarter (April).
pH	<ul style="list-style-type: none"> • The pH values in 2005 were within the 6.5 to 8.5 range identified in the Basin Plan except at Haines Canyon Creek in the first quarter (9.0) and at Big Tujunga Wash in the first, third and fourth quarters (9.0, 8.6 and 8.6, respectively). • For any given sampling date in 2005, the pH of waters flowing into and out of the Tujunga Ponds varied by 0.1 unit or less. • The maximum seasonal pH fluctuation at any station in 2005 was 1.3 units.
Total residual chlorine	<ul style="list-style-type: none"> • As in all preceding years, residual chlorine was not detected in any samples.
Nitrogen	<ul style="list-style-type: none"> • Nitrite-nitrogen was not detected in samples during 2005. • Ammonia-nitrogen was not detected in the first and second quarters. In the third quarter, ammonia-nitrogen was detected in low concentrations (<0.1 mg/L) in the inflow to and outflow from the Tujunga Ponds. In the fourth quarter, ammonia-nitrogen was detected at all sites in concentrations ranging from 0.06 to 0.17 mg/L. All observed concentrations were below levels of concern for fish (chronic and acute toxicity) (see Table 13 through Table 15). • Kjeldahl nitrogen (organic nitrogen plus ammonia) readings were consistently low (<1 mg/L) at all stations on all dates. • Nitrate-nitrogen was higher in waters flowing into the Tujunga Ponds than in the outflow (up to approximately 2 mg/L difference) except in the third quarter when the values for inflow and outflow were similar (2.8 and 2.9 mg/L, respectively). Nitrate levels in Haines Canyon Creek were similar to or lower than the levels in the outflow from the ponds. All nitrate-nitrogen readings in 2005 were below the drinking water standard of 10 mg/L.

**Table 18 (Continued)
Discussion of 2005 Sampling Results**

Parameter	Discussion
Phosphorus	<ul style="list-style-type: none"> At all stations for all four quarters of 2005, total phosphorus levels were below 0.1 mg/L, the upper value of EPA's recommendation for streams (<0.05 – 0.1 mg/L).
Glyphosate	<ul style="list-style-type: none"> Glyphosate readings on all sampling dates were below the detection limit.
Chlorpyrifos	<ul style="list-style-type: none"> Chlorpyrifos and the other pesticides tested using EPA's analytical method 625 were not detected at any station in 2005.
Turbidity	<ul style="list-style-type: none"> Turbidity values in 2005 were generally similar to those of 2001, 2002, 2003 and 2004, and were below the secondary drinking water standard of 5 NTU.
Bacteria	<ul style="list-style-type: none"> Fecal coliform levels in 2005 ranged from 2 to 170 MPN/100 mL, and were below the water contact recreation standard of 200 MPN/100 mL for all four quarters at all stations. Total coliform levels were much higher than fecal coliform levels (up to 16,000 MPN/100 mL), but total coliform spikes (over 50,000 – 100,000 MPN/100 mL) were not observed in 2005.

Results for the Five-year Monitoring Period (2001 – 2005)

The following summarizes the water quality trends observed over the 5-year monitoring period. During the 5-year period, a total of 71 samples (not counting the duplicate samples for parameters analyzed in the laboratories) were taken:

- 21 samples from the inflow to Tujunga Ponds (four quarters for 5 years)
- 21 samples from the outflow from Tujunga Ponds (four quarters for 5 years)
- 21 samples from Haines Canyon Creek exiting the site (four quarters for 5 years)
- 8 samples when flow was observed in Big Tujunga Wash (first quarters of 2001 and 2003, fourth quarter of 2004 and all four quarters of 2005)

Temperatures

Observed temperatures have ranged from approximately 11 to 26 °C. Seasonal fluctuations in any given year ranged from 4 to 9 degrees; highest temperatures were generally observed during the second quarter (June/July), followed by the third (September/October), first (March/April), and fourth (December) quarters. Temperatures in the inflow to and outflow from Tujunga Ponds were similar. Temperatures in Haines Canyon Creek exiting the site were typically lower than in Tujunga Ponds by approximately 1 degree during the warmer periods (second and third quarters) and by approximately 3 degrees during the cooler periods (first and fourth quarters).

During the period of the sampling program, temperatures observed at the mitigation bank sampling sites supported the growth and survival of warmwater fish species.

Dissolved Oxygen

Observed DO levels at the four sampling stations ranged from 4.5 to 11.5 mg/L. Only three DO readings below 5.0 mg/L (the recommended minimum for warmwater fish species) have been recorded (in the inflow to the ponds in March 2001 and in the inflow to and outflow from the ponds in the third quarter of 2005). In Haines Canyon Creek leaving the site, DO and temperature appear to have a negative correlation (higher DO values are observed on dates with lower temperature). In addition, DO levels at Haines Canyon Creek exiting the site are approximately 2 mg/L higher than in the Tujunga Ponds.

During the period of the sampling program, DO levels observed at the mitigation bank sampling sites supported the minimal survival requirements of most warmwater fish species. DO levels in Haines Canyon Creek leaving the site and in Big Tujunga Wash were consistently (with one exception) above 7 mg/L and therefore supported the requirements of early life stages of warmwater fish species. DO levels in the Tujunga Ponds were not consistently at this level. Lower flow conditions and oxygen-consuming algal die-off result in periodic lower DO levels in the ponds.

pH

Levels of pH in excess of Basin Plan standards were observed in Haines Canyon Creek exiting the site in the first quarters of 2003 and 2005 (8.7 and 9.0, respectively) and in Big Tujunga Wash in the first, third and fourth quarters of 2005 (9.0, 8.6 and 8.6, respectively). Observed pH levels were not below 6.5 at any station on any sampling date.

In general, pH values observed in Haines Canyon Creek leaving the site (overall average of 8.2 and ranging from 7.7 to 9.0) were approximately 1 unit higher than values observed in the ponds (overall average of 7.1 and ranging from 6.8 to 7.5 in the inflow, and overall average of 7.2 and ranging from 6.7 to 7.7 in the outflow). Based on the limited number of samples taken from Big Tujunga Wash (seven samples total), pH values in the wash are similar to those in Haines Canyon Creek exiting the site.

During the period of the sampling program, pH levels observed at the mitigation bank sampling sites were generally within the 6.5 to 8.5 range identified in the Basin Plan and protective of aquatic life. Levels of pH in Haines Canyon Creek leaving the site and in Big Tujunga Wash are high compared to many freshwater systems, perhaps reflecting alkaline soils and/or specific algal conditions at the time of sampling.

Nutrients

Ammonia-nitrogen levels were generally below the detection limit. Ammonia-nitrogen levels above the detection limit were observed in the third quarter of 2001 in Haines Canyon Creek exiting the site (0.093 mg/L in one sample, non-detect in the duplicate sample), in the third quarter of 2005 in the Tujunga Ponds (0.08 to 0.09 mg/L), and in the fourth quarter of 2005 at all stations (0.06 to 0.17 mg/L and one non-detect in a duplicate sample from the inflow to Tujunga Ponds).

Nitrite-nitrogen levels were also generally below the detection limit. Nitrite-nitrogen levels above the detection limit were observed in the inflow to Tujunga Ponds in the second quarters of 2001, 2003 and 2004 (0.10 mg/L, 0.11 mg/L in one sample and non-detect in the duplicate sample, and 0.35 mg/L in one sample and non-detect in the duplicate sample).

Nitrate-nitrogen levels were generally below the drinking water standard of 10 mg/L. Nitrate-nitrogen concentrations approached or slightly exceeded 10 mg/L in the inflow to Tujunga Ponds in the first quarter of 2003 (10.2 mg/L) and in the fourth quarter of 2002 (9.9 mg/L). Nitrate levels were generally higher in the inflow to the Tujunga Ponds (overall average of 7.6 mg/L, ranging from 2.8 to 10.2 mg/L) than in the outflow from the ponds (overall average of 5.7 mg/L, ranging from 2.6 to 7.9 mg/L), and generally higher in the ponds than in Haines Canyon Creek exiting the site (overall average of 4.5 mg/L, ranging from 0.44 to 7.2 mg/L). Nitrate levels observed in 2005 were generally lower (by 2 to 4 mg/L on average) than the levels observed in the previous four years.

Total phosphorus values were below 0.1 mg/L, the upper value of EPA's recommendation for streams (<0.05 – 0.1 mg/L), except in the first quarter of 2003. Higher values of up to 0.19 mg/L were observed in the first quarter of 2003 from Big Tujunga Wash and in Haines Canyon Creek (possibly associated with the higher flows due to releases from the Big Tujunga Dam preceding the sampling date).

During the period of the sampling program, excessive nutrient levels were not observed at the mitigation bank sampling sites. Ammonia levels were below levels of concern for fish toxicity (acute and chronic standards for all life stages). Nitrate levels were always (with one exception) below primary drinking water standards but were not low for freshwater systems. [Note, there is no aquatic health guideline for nitrate since it does not represent a direct threat to stream organisms.] Nitrite levels were well below the primary drinking water standard (1 mg/L) at all stations for all sampling periods. Phosphorus levels were below the level (0.1 mg/L) associated with nuisance growth of algae except in the first quarter of 2003. An increase in nutrient concentrations since the beginning of operations at the upstream golf course (June 2004) was not observed.

Turbidity

Turbidity levels were generally below the drinking water standard of 5 NTU. Higher levels (up to 48 NTU) were observed during periods of high flows in the first quarters of 2001 and 2003 in Haines Canyon Creek and Big Tujunga Wash. In addition, turbidity of 5.4 NTU was detected in one sample in the third quarter of 2004 in the inflow to Tujunga Ponds, although the duplicate sample was 3.2 NTU. During the period of the sampling program, turbidity levels which adversely affected beneficial uses were not observed.

Bacteria

During the period of the sampling program, fecal coliform levels were generally safe for body-contact recreation (i.e., below the water contact recreation standard of 200 MPN/100 mL). Higher levels (up to 900 MPN/100 mL) were observed as follows: the third quarter of 2001 in one sample from the Tujunga Ponds outflow and in one sample from Haines Canyon Creek

leaving the site; fourth quarter of 2002 in one sample from Haines Canyon Creek leaving the site; first quarter of 2004 in one sample from Tujunga Ponds outflow and in both duplicate samples in Haines Canyon Creek; and third quarter of 2004 in one sample from Haines Canyon Creek. As an average of the two duplicate samples, 200 MPN/100 mL was exceeded only twice, in the third quarter of 2001 in the outflow from Tujunga Ponds and in the first quarter of 2004 in Haines Canyon Creek. [It should be noted that the 200 MPN/100 mL standard for fecal coliform is used for reference only. Sufficient samples were not taken as part of this program since the standard calls for not less than four samples for any 30-day period.]

Chlorine and Pesticides

Total residual chlorine readings were below the detection limit at all stations for all sampling dates. Similarly, glyphosate and chlorpyrifos (added to the list of sampling parameters starting in the first and fourth quarters of 2004, respectively) were not detected at any station.

Conclusion

Overall, water quality conditions at the mitigation bank generally supported warmwater aquatic life and were protective of human health during body-contact recreation despite seasonal and flow-related fluctuations were observed for some parameters. Nitrate concentrations were substantially lower in 2005 compared to other years. However, overall water quality conditions were relatively stable over the 5-year sampling program despite the varying rainfall conditions in the Los Angeles area, from one of the lowest recorded (approximately 4 inches in 2001/2002) to one of the highest (approximately 37 inches in 2004/2005).

Glossary

Ammonia-Nitrogen – $\text{NH}_3\text{-N}$ is a gaseous alkaline compound of nitrogen and hydrogen that is highly soluble in water. Un-ionized ammonia (NH_3) is toxic to aquatic organisms. The proportions of NH_3 and ammonium (NH_4^+) and hydroxide (OH^-) ions are dependent on temperature, pH, and salinity.

Chlorine, residual – The chlorination of water supplies and wastewaters serves to destroy or deactivate disease-producing organisms. Residual chlorine in natural waters is an aquatic toxicant.

Coliform Bacteria – several genera of bacteria belonging to the family Enterobacteriaceae. Based on the method of detection, the coliform group is historically defined as facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria that ferment lactose with gas and acid formation within 48 hours at 35°C .

Fecal Coliform Bacteria – part of the intestinal flora of warm-blooded animals. Presence in surface waters is considered an indication of pollution.

Kjeldahl Nitrogen – Named for the laboratory technique used for detection, Kjeldahl nitrogen includes organic nitrogen and ammonia nitrogen.

Nitrate-Nitrogen – $\text{NO}_3^-\text{-N}$ is an essential nutrient for many photosynthetic autotrophs.

Nitrite-Nitrogen – $\text{NO}_2^-\text{-N}$ is an intermediate oxidation state of nitrogen, both in the oxidation of ammonia to nitrate and in the reduction of nitrate.

Orthophosphorus – the reactive form of phosphorus, commonly used as fertilizer.

pH – the hydrogen ion activity of water (pH) is measured on a logarithmic scale, ranging from 0 to 14. The pH of “pure” water at 25°C is 7.0 (neutral). Low pH is acidic; high pH is basic or alkaline.

Total Phosphorus – In natural waters, phosphorus occurs almost solely as orthophosphates, condensed phosphates, and organically bound phosphate. Phosphorus is essential to the growth of organisms.

Turbidity – attributable to the suspended and colloidal matter in water, including clay, silt, finely divided organic and inorganic matter, soluble colored organic compounds, and plankton and other microscopic organisms. The reduction of clearness in turbid waters diminishes the penetration of light and therefore can adversely affect photosynthesis.

APPENDIX A

**BIG TUJUNGA WASH MITIGATION BANK
WATER QUALITY MONITORING PROGRAM**

LABORATORY RESULTS

**BIG TUJUNGA WASH MITIGATION BANK
WATER QUALITY MONITORING PROGRAM**

APRIL 2005 LABORATORY RESULTS



MWH Laboratories

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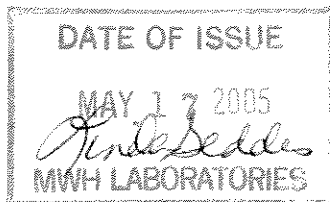
Laboratory Report

for

Applied Research Dept, MWH (Darren Giles)
327 West Maple Avenue

Monrovia , CA 91016

Attention: Darren Giles
Fax: (626) 359-3593



LXG Linda Geddes
Project Manager



Revised **
Report#: 145899
BIG-TJ

** see comments page

Laboratory certifies that the test results meet all **NELAC** requirements unless noted in the Comments section or the Case Narrative. Following the cover page are Comments, QC Report, QC Summary, Data Report, Hits Report, totaling 19 page[s].



MWH Laboratories

750 Royal Oaks Drive Suite 100
 Monrovia Ca 91016 (626) 386-1100

CHAIN OF CUSTODY RECORD

145899

MWILABS USE ONLY:

LOGIN COMMENTS:

SAMPLES CHECKED/LOGGED IN BY: 7/6/05

SAMPLE TEMP, RECEIPT AT LAB: 190 (Compliance: 4 +/- 2°C)

SAMPLES RECEIVED DAY OF COLLECTION? (check for yes)

BLUE ICE: FROZEN PARTIALLY FROZEN THAWED

TO BE COMPLETED BY SAMPLER:

TAT requested: STANDARD	COMPLIANCE SAMPLES - Requires state forms	REGULATION: (SDWA, Phase V, NPDES, FDA, ...)
PROJECT CODE Big TJ Sampling	NON-COMPLIANCE SAMPLES	(check for yes) <input type="checkbox"/>
PROJECT JOB # / P.O.# 1342289.5620.051801 ARD-DG	REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES	(check for yes) <input type="checkbox"/>

TIME	DATE	SITE NAME or LOCATION	IDENTIFIER, STATE ID #	MATRIX		ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)										SAMPLER COMMENTS		
				GRAB	COMP	T-P	O-PO4	TKN	NO2	NO3	Turbidity	Fecal Coll	Total Coll	Ammonia	Glyphosate		Diazinon	
1220	7-Apr	SITE 1	Inflow to TJ Pond #1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
1240	7-Apr	SITE 1	Inflow to TJ Pond #2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
1320	7-Apr	SITE 2	Outflow from TJ Pond #1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
1340	7-Apr	SITE 2	Outflow from TJ Pond #2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
1120	7-Apr	SITE 3	Big TJ Wash #1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
1135	7-Apr	SITE 3	Big TJ Wash #2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
1000	7-Apr	SITE 4	Haines Canyon Creek #1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
1015	7-Apr	SITE 4	Haines Canyon Creek #2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

* MATRIX TYPES: Reported by Volume.

RSW = Raw Surface Water
 RGW = Raw Ground Water
 CFW = Chloraminated Finished Water

FW = Other Finished Water
 CW = Chloraminated Waste Water

SW = Storm Water
 WW = Other Waste Water
 CWW = Chlorinated Waste Water

Reported by Weight:
 SO = Soil
 SL = Sludge

RELINQUISHED BY:	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
RECEIVED BY:	<u>Lemire S. Love</u>	<u>D. GILES</u>	<u>MWH</u>	<u>4/7/05</u>	<u>1420</u>
SPECIAL INSTRUCTIONS:	<u>Lemire S. Love</u>				

MWH Laboratories
 750 Royal Oaks Drive, Monrovia, CA 91016
 PHONE: 626-386-1100/FAX: 626-386-1101

ACKNOWLEDGMENT OF SAMPLES RECEIVED

Applied Research Dept, MWH (Darren Giles)	Customer Code: ARD-DG
327 West Maple Avenue	PO#: 1342289.5620.051801
Monrovia, CA 91016	Group#: 145899
Attn: Darren Giles	Project#: BIG-TJ
Phone: (626) 303-5945	Proj Mgr: Linda Geddes
	Phone: (626) 386-1163

The following samples were received from you on **04/07/05**. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using MWH Laboratories.

Sample#	Sample Id	Matrix	Sample Date
		Tests Scheduled	
2504070211	SITE 1 INFLOW TO TJ POND 1	Water	07-apr-2005 12:25:00
	@DIAZEDD FECCOL	GLYPHOS NH3	NO2-N NO3
	OPO4 T-P	TKN TOTCOL	TURB
2504070212	SITE 1 INFLOW TO TJ POND 2	Water	07-apr-2005 12:40:00
	@DIAZEDD FECCOL	GLYPHOS NH3	NO2-N NO3
	OPO4 T-P	TKN TOTCOL	TURB
2504070213	SITE 2 OUTFLOW FROM TJ POND 1	Water	07-apr-2005 13:25:00
	@DIAZEDD FECCOL	GLYPHOS NH3	NO2-N NO3
	OPO4 T-P	TKN TOTCOL	TURB
2504070214	SITE 2 OUTFLOW FROM TJ POND 2	Water	07-apr-2005 13:40:00
	@DIAZEDD FECCOL	GLYPHOS NH3	NO2-N NO3
	OPO4 T-P	TKN TOTCOL	TURB
2504070216	SITE 3 BIG TJ WASH 1	Water	07-apr-2005 11:20:00
	@DIAZEDD FECCOL	GLYPHOS NH3	NO2-N NO3
	OPO4 T-P	TKN TOTCOL	TURB
2504070217	SITE 3 BIG TJ WASH 2	Water	07-apr-2005 11:35:00
	@DIAZEDD FECCOL	GLYPHOS NH3	NO2-N NO3
	OPO4 T-P	TKN TOTCOL	TURB
2504070218	SITE 4 HAINES CANYON CREEK 1	Water	07-apr-2005 10:00:00
	@DIAZEDD FECCOL	GLYPHOS NH3	NO2-N NO3
	OPO4 T-P	TKN TOTCOL	TURB
2504070219	SITE 4 HAINES CANYON CREEK 2	Water	07-apr-2005 10:15:00
	@DIAZEDD FECCOL	GLYPHOS NH3	NO2-N NO3
	OPO4 T-P	TKN TOTCOL	TURB

Test Acronym Description

Test Acronym	Description
@DIAZEDD	Diazinon/Chlorpyrifos by GCMS
FECCOL	Fecal Coliform Bacteria
GLYPHOS	Glyphosate
NH3	Ammonia Nitrogen
NO2-N	Nitrite, Nitrogen by IC

Applied Research Dept, MWH (Darren Giles)	Customer Code: ARD-DG
327 West Maple Avenue	PO#: 1342289.5620.051801
Monrovia, CA 91016	Group#: 145899
Attn: Darren Giles	Project#: BIG-TJ
Phone: (626) 303-5945	Proj Mgr: Linda Geddes
	Phone: (626) 386-1163

Test Acronym Description

Test Acronym	Description
NO3	Nitrate as Nitrogen by IC
OPO4	Orthophosphate-P
T-P	Total phosphorus-P
TKN	Kjeldahl Nitrogen
TOTCOL	Total Coliform Bacteria
TURB	Turbidity



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Report
Comments
#145899

Group Comments

Revised report; OPO4 data entry error for Site 3 Big TJ Wash 1 and Wash 2. TKN result for Site 2 Outflow from TJ Pond 1 changed from 4.10 to 0.27 mg/L due to sample mixup. Analytical results for Diazinon/Chlorpyrifos by GCMS are submitted by CRG Marine Laboratories, Torrance, CA.
ELAP 2261



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Laboratory
Hits Report
#145899

Applied Research Dept, MWH (Darren
Giles)
Darren Giles
327 West Maple Avenue
Monrovia, CA 91016

Samples Received
07-apr-2005 15:49:48

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2504070211	SITE 1 INFLOW TO TJ POND 1				
04/07/05		Fecal Coliform Bacteria	2		MPN/100 mL	2.0
04/14/05		Kjeldahl Nitrogen	0.44		mg/l	0.20
04/07/05		Nitrate as Nitrogen by IC	5.4	10	mg/l	0.20
04/07/05		Orthophosphate-P	0.022		mg/l	0.010
04/07/05		Total Coliform Bacteria	500		MPN/100 mL	2.0
04/13/05		Total phosphorus-P	0.021		mg/l	0.010
04/07/05		Turbidity	0.50		NTU	0.050
	2504070212	SITE 1 INFLOW TO TJ POND 2				
04/07/05		Fecal Coliform Bacteria	2		MPN/100 mL	2.0
04/14/05		Kjeldahl Nitrogen	0.31		mg/l	0.20
04/07/05		Nitrate as Nitrogen by IC	5.4	10	mg/l	0.20
04/07/05		Orthophosphate-P	0.021		mg/l	0.010
04/07/05		Total Coliform Bacteria	220		MPN/100 mL	2.0
04/13/05		Total phosphorus-P	0.024		mg/l	0.010
04/07/05		Turbidity	0.70		NTU	0.050
	2504070213	SITE 2 OUTFLOW FROM TJ POND 1				
04/07/05		Fecal Coliform Bacteria	8		MPN/100 mL	2.0
05/12/05		Kjeldahl Nitrogen	0.27		mg/l	0.20
04/07/05		Nitrate as Nitrogen by IC	3.2	10	mg/l	0.20
04/07/05		Orthophosphate-P	0.025		mg/l	0.010
04/07/05		Total Coliform Bacteria	500		MPN/100 mL	2.0
04/13/05		Total phosphorus-P	0.022		mg/l	0.010
04/07/05		Turbidity	0.60		NTU	0.050
	2504070214	SITE 2 OUTFLOW FROM TJ POND 2				

SUMMARY OF POSITIVE DATA ONLY.



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Laboratory
Hits Report
#145899

Applied Research Dept, MWH (Darren
Giles)
Darren Giles
327 West Maple Avenue
Monrovia , CA 91016

Samples Received
07-apr-2005 15:49:48

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
2504070214 SITE 2 OUTFLOW FROM TJ POND 2						
04/07/05		Fecal Coliform Bacteria	13		MPN/100 mL	2.0
04/14/05		Kjeldahl Nitrogen	0.30		mg/l	0.20
04/07/05		Nitrate as Nitrogen by IC	3.6	10	mg/l	0.20
04/07/05		Orthophosphate-P	0.026		mg/l	0.010
04/07/05		Total Coliform Bacteria	700		MPN/100 mL	2.0
04/13/05		Total phosphorus-P	0.022		mg/l	0.010
04/07/05		Turbidity	0.50		NTU	0.050
2504070216 SITE 3 BIG TJ WASH 1						
04/07/05		Fecal Coliform Bacteria	2		MPN/100 mL	2.0
04/14/05		Kjeldahl Nitrogen	0.23		mg/l	0.20
04/07/05		Orthophosphate-P	0.011		mg/l	0.010
04/07/05		Total Coliform Bacteria	170		MPN/100 mL	2.0
04/13/05		Total phosphorus-P	0.010		mg/l	0.010
04/07/05		Turbidity	1.6		NTU	0.050
2504070217 SITE 3 BIG TJ WASH 2						
04/07/05		Fecal Coliform Bacteria	2		MPN/100 mL	2.0
04/14/05		Kjeldahl Nitrogen	0.24		mg/l	0.20
04/07/05		Orthophosphate-P	0.012		mg/l	0.010
04/07/05		Total Coliform Bacteria	21		MPN/100 mL	2.0
04/07/05		Turbidity	1.3		NTU	0.050
2504070218 SITE 4 HAINES CANYON CREEK 1						
04/07/05		Fecal Coliform Bacteria	8		MPN/100 mL	2.0

SUMMARY OF POSITIVE DATA ONLY.



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Laboratory
Hits Report
#145899

Applied Research Dept, MWH (Darren
Giles)
Darren Giles
327 West Maple Avenue
Monrovia , CA 91016

Samples Received
07-apr-2005 15:49:48

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2504070218	SITE 4 HAINES CANYON CREEK 1				
04/14/05			Kjeldahl Nitrogen	0.21	mg/l	0.20
04/07/05			Total Coliform Bacteria	500	MPN/100 mL	2.0
04/07/05			Turbidity	1.4	NTU	0.050
	2504070219	SITE 4 HAINES CANYON CREEK 2				
04/07/05			Fecal Coliform Bacteria	4	MPN/100 mL	2.0
04/14/05			Kjeldahl Nitrogen	0.54	mg/l	0.20
04/07/05			Total Coliform Bacteria	21	MPN/100 mL	2.0
04/13/05			Total phosphorus-P	0.012	mg/l	0.010
04/07/05			Turbidity	1.3	NTU	0.050



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Laboratory
Data Report
#145899

Applied Research Dept, MWH (Darren
Giles)
Darren Giles
327 West Maple Avenue
Monrovia, CA 91016

Samples Received
04/07/05

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
----------	----------	---------	--------	---------	--------	-------	-----	----------

SITE 1 INFLOW TO TJ POND 1 (2504070211) Sampled on 04/07/05 12:25

04/07/05 15:06			(ML/SM9221C)	Fecal Coliform Bacteria	2	MPNM	2.0	1
04/08/05 00:00	267909		(ML/EPA 547)	Glyphosate	ND	ug/l	6.0	1
04/11/05 00:00	268065		(ML/EPA 350.1)	Ammonia Nitrogen	ND	mg/l	0.050	1
04/07/05 16:57	267757		(ML/EPA 300.0)	Nitrite, Nitrogen by IC	ND	mg/l	0.20	2
04/07/05 16:57	267761		(E300.0/ SW7056)	Nitrate as Nitrogen by IC	5.4	mg/l	0.20	2
04/07/05 17:00	267784		(SM4500P-E)	Orthophosphate-P	0.022	mg/l	0.010	1
04/13/05 14:46	268531		(S4500PE/ 365.1)	Total phosphorus-P	0.021	mg/l	0.010	1
04/14/05 17:23	268802		(ML/EPA 351.2)	Kjeldahl Nitrogen	0.44	mg/l	0.20	1
04/07/05 15:06			(ML/SM9221B)	Total Coliform Bacteria	500	MPNM	2.0	1
04/07/05 15:58	267837		(ML/EPA 180.1)	Turbidity	0.50	NTU	0.050	1

Diazinon/Chlorpyrifos by GCMS

04/19/05 00:00			(EPA 625 MODSUB)	Diazinon	ND	ng/l	5.0	1
04/19/05 00:00			(EPA 625 MODSUB)	Bolstar (Sulprofos)	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Chlorpyrifos	ND	ng/l	5.0	1
04/19/05 00:00			(EPA 625 MODSUB)	Demeton	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Dichlorvos	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Disulfoton	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Dimethoate	ND	ng/l	5.0	1
04/19/05 00:00			(EPA 625 MODSUB)	Ethoprop (Ethoprofos)	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Fenchlorophos (Ronnel)	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Fensulfothion	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Fenthion	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Merphos	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Mevinphos (Phosdrin)	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Malathion	ND	ng/l	5.0	1
04/19/05 00:00			(EPA 625 MODSUB)	Parathion-methyl	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Phorate	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Tokuthion	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Tetrachlorovinphos (Stirophos)	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Trichloronate	ND	ng/l	10	1



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Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
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SITE 1 INFLOW TO TJ POND 2 (2504070212) Sampled on 04/07/05 12:40

04/07/05 15:11			(ML/SM9221C)	Fecal Coliform Bacteria	2	MPNM	2.0	1
04/08/05 00:00	267909		(ML/EPA 547)	Glyphosate	ND	ug/l	6.0	1
04/11/05 00:00	268065		(ML/EPA 350.1)	Ammonia Nitrogen	ND	mg/l	0.050	1
04/07/05 17:09	267757		(ML/EPA 300.0)	Nitrite, Nitrogen by IC	ND	mg/l	0.20	2
04/07/05 17:09	267761		(E300.0/ SW7056)	Nitrate as Nitrogen by IC	5.4	mg/l	0.20	2
04/07/05 17:00	267784		(SM4500P-E)	Orthophosphate-P	0.021	mg/l	0.010	1
04/13/05 14:46	268531		(S4500PE/ 365.1)	Total phosphorus-P	0.024	mg/l	0.010	1
04/14/05 15:32	269038		(ML/EPA 351.2)	Kjeldahl Nitrogen	0.31	mg/l	0.20	1
04/07/05 15:11			(ML/SM9221B)	Total Coliform Bacteria	220	MPNM	2.0	1
04/07/05 15:58	267837		(ML/EPA 180.1)	Turbidity	0.70	NTU	0.050	1

Diazinon/Chlorpyrifos by GCMS

04/19/05 00:00			(EPA 625 MODSUB)	Diazinon	ND	ng/l	5.0	1
04/19/05 00:00			(EPA 625 MODSUB)	Bolstar (Sulprofos)	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Chlorpyrifos	ND	ng/l	5.0	1
04/19/05 00:00			(EPA 625 MODSUB)	Demeton	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Dichlorvos	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Disulfoton	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Dimethoate	ND	ng/l	5.0	1
04/19/05 00:00			(EPA 625 MODSUB)	Ethoprop (Ethoprophos)	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Fenchlorophos (Ronnell)	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Fensulfothion	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Fenthion	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Merphos	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Mevinphos (Phosdrin)	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Malathion	ND	ng/l	5.0	1
04/19/05 00:00			(EPA 625 MODSUB)	Parathion-methyl	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Phorate	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Tokuthion	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Tetrachlorovinphos (Stirophos)	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Trichloronate	ND	ng/l	10	1



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Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
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SITE 2 OUTFLOW FROM TJ POND 1 (2504070213) Sampled on 04/07/05 13:25

04/07/05 15:14			(ML/SM9221C)	Fecal Coliform Bacteria	8	MPNM	2.0	1
04/08/05 00:00	267909		(ML/EPA 547)	Glyphosate	ND	ug/l	6.0	1
04/11/05 00:00	268065		(ML/EPA 350.1)	Ammonia Nitrogen	ND	mg/l	0.050	1
04/07/05 17:32	267757		(ML/EPA 300.0)	Nitrite, Nitrogen by IC	ND	mg/l	0.20	2
04/07/05 17:32	267761		(E300.0/ SW7056)	Nitrate as Nitrogen by IC	3.2	mg/l	0.20	2
04/07/05 17:00	267784		(SM4500P-E)	Orthophosphate-P	0.025	mg/l	0.010	1
04/13/05 14:46	268531		(S4500PE/ 365.1)	Total phosphorus-P	0.022	mg/l	0.010	1
05/12/05 16:46	271593		(ML/EPA 351.2)	Kjeldahl Nitrogen	0.27	mg/l	0.20	1
04/07/05 15:14			(ML/SM9221B)	Total Coliform Bacteria	500	MPNM	2.0	1
04/07/05 15:58	267837		(ML/EPA 180.1)	Turbidity	0.60	NTU	0.050	1

Diazinon/Chlorpyrifos by GCMS

04/19/05 00:00			(EPA 625 MODSUB)	Diazinon	ND	ng/l	5.0	1
04/19/05 00:00			(EPA 625 MODSUB)	Bolstar (Sulprofos)	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Chlorpyrifos	ND	ng/l	5.0	1
04/19/05 00:00			(EPA 625 MODSUB)	Demeton	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Dichlorvos	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Disulfoton	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Dimethoate	ND	ng/l	5.0	1
04/19/05 00:00			(EPA 625 MODSUB)	Ethoprop (Ethoprophos)	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Fenchlorophos (Ronnell)	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Fensulfothion	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Fenthion	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Merphos	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Mevinphos (Phosdrin)	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Malathion	ND	ng/l	5.0	1
04/19/05 00:00			(EPA 625 MODSUB)	Parathion-methyl	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Phorate	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Tokuthion	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Tetrachlorovinphos (Stirophos)	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Trichloronate	ND	ng/l	10	1



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Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
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SITE 2 OUTFLOW FROM TJ POND 2 (2504070214) Sampled on 04/07/05 13:40

04/07/05 15:17			(ML/SM9221C)	Fecal Coliform Bacteria	13	MPNM	2.0	1
04/08/05 00:00	267909		(ML/EPA 547)	Glyphosate	ND	ug/l	6.0	1
04/11/05 00:00	268065		(ML/EPA 350.1)	Ammonia Nitrogen	ND	mg/l	0.050	1
04/07/05 16:46	267757		(ML/EPA 300.0)	Nitrite, Nitrogen by IC	ND	mg/l	0.20	2
04/07/05 16:46	267761		(E300.0/ SW7056)	Nitrate as Nitrogen by IC	3.6	mg/l	0.20	2
04/07/05 17:00	267784		(SM4500P-E)	Orthophosphate-P	0.026	mg/l	0.010	1
04/13/05 14:46	268531		(S4500PR/ 365.1)	Total phosphorus-P	0.022	mg/l	0.010	1
04/14/05 15:32	269038		(ML/EPA 351.2)	Kjeldahl Nitrogen	0.30	mg/l	0.20	1
04/07/05 15:17			(ML/SM9221B)	Total Coliform Bacteria	700	MPNM	2.0	1
04/07/05 15:58	267838		(ML/EPA 180.1)	Turbidity	0.50	NTU	0.050	1

Diazinon/Chlorpyrifos by GCMS

04/19/05 00:00			(EPA 625 MODSUB)	Diazinon	ND	ng/l	5.0	1
04/19/05 00:00			(EPA 625 MODSUB)	Bolstar (Sulprofos)	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Chlorpyrifos	ND	ng/l	5.0	1
04/19/05 00:00			(EPA 625 MODSUB)	Demeton	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Dichlorvos	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Disulfoton	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Dimethoate	ND	ng/l	5.0	1
04/19/05 00:00			(EPA 625 MODSUB)	Ethoprop (Ethoprophos)	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Fenchlorophos (Ronnell)	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Fensulfothion	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Fenthion	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Merphos	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Mevinphos (Phosdrin)	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Malathion	ND	ng/l	5.0	1
04/19/05 00:00			(EPA 625 MODSUB)	Parathion-methyl	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Phorate	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Tokuthion	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Tetrachlorovinphos (Stirophos)	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Trichloronate	ND	ng/l	10	1



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Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
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SITE 3 BIG TJ WASH 1 (2504070216) Sampled on 04/07/05 11:20

04/07/05 15:37			(ML/SM9221C)	Fecal Coliform Bacteria	2	MPNM	2.0	1
04/08/05 00:00	267909		(ML/EPA 547)	Glyphosate	ND	ug/l	6.0	1
04/11/05 00:00	268065		(ML/EPA 350.1)	Ammonia Nitrogen	ND	mg/l	0.050	1
04/07/05 15:59	267757		(ML/EPA 300.0)	Nitrite, Nitrogen by IC	ND	mg/l	0.20	2
04/07/05 15:59	267761		(E300.0/ SW7056)	Nitrate as Nitrogen by IC	ND	mg/l	0.20	2
04/07/05 17:00	267784		(SM4500P-E)	Orthophosphate-P	0.011	mg/l	0.010	1
04/13/05 14:46	268531		(S4500PE/ 365.1)	Total phosphorus-P	0.010	mg/l	0.010	1
04/14/05 15:32	269038		(ML/EPA 351.2)	Kjeldahl Nitrogen	0.23	mg/l	0.20	1
04/07/05 15:37			(ML/SM9221B)	Total Coliform Bacteria	170	MPNM	2.0	1
04/07/05 15:58	267838		(ML/EPA 180.1)	Turbidity	1.6	NTU	0.050	1

Diazinon/Chlorpyrifos by GCMS

04/19/05 00:00			(EPA 625 MODSUB)	Diazinon	ND	ng/l	5.0	1
04/19/05 00:00			(EPA 625 MODSUB)	Bolstar (Sulprofos)	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Chlorpyrifos	ND	ng/l	5.0	1
04/19/05 00:00			(EPA 625 MODSUB)	Demeton	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Dichlorvos	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Disulfoton	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Dimethoate	ND	ng/l	5.0	1
04/19/05 00:00			(EPA 625 MODSUB)	Ethoprop (Ethoprophos)	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Fenchlorophos (Ronnell)	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Fensulfothion	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Fenthion	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Merphos	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Mevinphos (Phosdrin)	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Malathion	ND	ng/l	5.0	1
04/19/05 00:00			(EPA 625 MODSUB)	Parathion-methyl	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Phorate	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Tokuthion	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Tetrachlorovinphos (Stirophos)	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Trichloronate	ND	ng/l	10	1



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Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
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SITE 3 BIG TJ WASH 2 (2504070217) Sampled on 04/07/05 11:35

04/07/05 15:40			(ML/SM9221C)	Fecal Coliform Bacteria	2	MPNM	2.0	1
04/08/05 00:00	267909		(ML/EPA 547)	Glyphosate	ND	ug/l	6.0	1
04/11/05 00:00	268065		(ML/EPA 350.1)	Ammonia Nitrogen	ND	mg/l	0.050	1
04/07/05 15:36	267757		(ML/EPA 300.0)	Nitrite, Nitrogen by IC	ND	mg/l	0.20	2
04/07/05 15:36	267761		(E300.0/ SW7056)	Nitrate as Nitrogen by IC	ND	mg/l	0.20	2
04/07/05 17:00	267784		(SM4500P-E)	Orthophosphate-P	0.012	mg/l	0.010	1
04/13/05 14:46	268531		(S4500PE/ 365.1)	Total phosphorus-P	ND	mg/l	0.010	1
04/14/05 15:32	269038		(ML/EPA 351.2)	Kjeldahl Nitrogen	0.24	mg/l	0.20	1
04/07/05 15:40			(ML/SM9221B)	Total Coliform Bacteria	21	MPNM	2.0	1
04/07/05 15:58	267838		(ML/EPA 180.1)	Turbidity	1.3	NTU	0.050	1

Diazinon/Chlorpyrifos by GCMS

04/19/05 00:00			(EPA 625 MODSUB)	Diazinon	ND	ng/l	5.0	1
04/19/05 00:00			(EPA 625 MODSUB)	Bolstar (Sulprofos)	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Chlorpyrifos	ND	ng/l	5.0	1
04/19/05 00:00			(EPA 625 MODSUB)	Demeton	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Dichlorvos	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Disulfoton	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Dimethoate	ND	ng/l	5.0	1
04/19/05 00:00			(EPA 625 MODSUB)	Ethoprop (Ethoprophos)	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Fenchlorophos (Ronnell)	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Fensulfothion	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Fenthion	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Merphos	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Mevinphos (Phosdrin)	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Malathion	ND	ng/l	5.0	1
04/19/05 00:00			(EPA 625 MODSUB)	Parathion-methyl	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Phorate	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Tokuthion	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Tetrachlorovinphos (Stirophos)	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Trichloronate	ND	ng/l	10	1



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Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
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SITE 4 HAINES CANYON CREEK 1 (2504070218) Sampled on 04/07/05 10:00

04/07/05 15:43			(ML/SM9221C)	Fecal Coliform Bacteria	8	MPNM	2.0	1
04/08/05 00:00	267909		(ML/EPA 547)	Glyphosate	ND	ug/l	6.0	1
04/11/05 00:00	268065		(ML/EPA 350.1)	Ammonia Nitrogen	ND	mg/l	0.050	1
04/07/05 17:20	267757		(ML/EPA 300.0)	Nitrite, Nitrogen by IC	ND	mg/l	0.20	2
04/07/05 17:20	267761		(E300.0/ SW7056)	Nitrate as Nitrogen by IC	ND	mg/l	0.20	2
04/07/05 17:00	267784		(SM4500P-E)	Orthophosphate-P	ND	mg/l	0.010	1
04/13/05 14:46	268531		(S4500PE/ 365.1)	Total phosphorus-P	ND	mg/l	0.010	1
04/14/05 15:32	269038		(ML/EPA 351.2)	Kjeldahl Nitrogen	0.21	mg/l	0.20	1
04/07/05 15:43			(ML/SM9221B)	Total Coliform Bacteria	500	MPNM	2.0	1
04/07/05 15:58	267838		(ML/EPA 180.1)	Turbidity	1.4	NTU	0.050	1

Diazinon/Chlorpyrifos by GCMS

04/19/05 00:00			(EPA 625 MODSUB)	Diazinon	ND	ng/l	5.0	1
04/19/05 00:00			(EPA 625 MODSUB)	Bolstar (Sulprofos)	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Chlorpyrifos	ND	ng/l	5.0	1
04/19/05 00:00			(EPA 625 MODSUB)	Demeton	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Dichlorvos	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Disulfoton	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Dimethoate	ND	ng/l	5.0	1
04/19/05 00:00			(EPA 625 MODSUB)	Ethoprop (Ethoprophos)	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Fenchlorophos (Ronnell)	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Fensulfothion	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Fenthion	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Merphos	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Mevinphos (Phosdrin)	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Malathion	ND	ng/l	5.0	1
04/19/05 00:00			(EPA 625 MODSUB)	Parathion-methyl	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Phorate	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Tokuthion	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Tetrachlorovinphos (Stirophos)	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Trichloronate	ND	ng/l	10	1



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Laboratory
Data Report
#145899

Applied Research Dept, MWH (Darren
Giles)
(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
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SITE 4 HAINES CANYON CREEK 2 (2504070219) Sampled on 04/07/05 10:15

04/07/05 15:47			(ML/SM9221C)	Fecal Coliform Bacteria	4	MPNM	2.0	1
04/08/05 00:00	267909		(ML/EPA 547)	Glyphosate	ND	ug/l	6.0	1
04/11/05 00:00	268065		(ML/EPA 350.1)	Ammonia Nitrogen	ND	mg/l	0.050	1
04/07/05 16:11	267757		(ML/EPA 300.0)	Nitrite, Nitrogen by IC	ND	mg/l	0.20	2
04/07/05 16:11	267761		(E300.0/ SW7056)	Nitrate as Nitrogen by IC	ND	mg/l	0.20	2
04/07/05 17:00	267784		(SM4500P-E)	Orthophosphate-P	ND	mg/l	0.010	1
04/13/05 14:46	268531		(S4500PE/ 365.1)	Total phosphorus-P	0.012	mg/l	0.010	1
04/14/05 15:32	269038		(ML/EPA 351.2)	Kjeldahl Nitrogen	0.54	mg/l	0.20	1
04/07/05 15:47			(ML/SM9221B)	Total Coliform Bacteria	21	MPNM	2.0	1
04/07/05 15:58	267838		(ML/EPA 180.1)	Turbidity	1.3	NTU	0.050	1

Diazinon/Chlorpyrifos by GCMS

04/19/05 00:00			(EPA 625 MODSUB)	Diazinon	ND	ng/l	5.0	1
04/19/05 00:00			(EPA 625 MODSUB)	Bolstar (Sulprofos)	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Chlorpyrifos	ND	ng/l	5.0	1
04/19/05 00:00			(EPA 625 MODSUB)	Demeton	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Dichlorvos	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Disulfoton	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Dimethoate	ND	ng/l	5.0	1
04/19/05 00:00			(EPA 625 MODSUB)	Ethoprop (Ethoprophos)	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Fenchlorophos (Ronnell)	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Fensulfothion	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Fenthion	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Merphos	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Mevinphos (Phosdrin)	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Malathion	ND	ng/l	5.0	1
04/19/05 00:00			(EPA 625 MODSUB)	Parathion-methyl	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Phorate	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Tokuthion	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Tetrachlorovinphos (Stirophos)	ND	ng/l	10	1
04/19/05 00:00			(EPA 625 MODSUB)	Trichloronate	ND	ng/l	10	1



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Laboratory
QC Summary
#145899

Applied Research Dept, MWH (Darren
Giles)

QC Ref #267757 - Nitrite, Nitrogen by IC Analysis Date: 04/07/2005

2504070211	SITE 1 INFLOW TO TJ POND 1
2504070212	SITE 1 INFLOW TO TJ POND 2
2504070213	SITE 2 OUTFLOW FROM TJ POND 1
2504070214	SITE 2 OUTFLOW FROM TJ POND 2
2504070216	SITE 3 BIG TJ WASH 1
2504070217	SITE 3 BIG TJ WASH 2
2504070218	SITE 4 HAINES CANYON CREEK 1
2504070219	SITE 4 HAINES CANYON CREEK 2

QC Ref #267761 - Nitrate as Nitrogen by IC Analysis Date: 04/07/2005

2504070211	SITE 1 INFLOW TO TJ POND 1
2504070212	SITE 1 INFLOW TO TJ POND 2
2504070213	SITE 2 OUTFLOW FROM TJ POND 1
2504070214	SITE 2 OUTFLOW FROM TJ POND 2
2504070216	SITE 3 BIG TJ WASH 1
2504070217	SITE 3 BIG TJ WASH 2
2504070218	SITE 4 HAINES CANYON CREEK 1
2504070219	SITE 4 HAINES CANYON CREEK 2

QC Ref #267784 - Orthophosphate-P Analysis Date: 04/07/2005

2504070211	SITE 1 INFLOW TO TJ POND 1
2504070212	SITE 1 INFLOW TO TJ POND 2
2504070213	SITE 2 OUTFLOW FROM TJ POND 1
2504070214	SITE 2 OUTFLOW FROM TJ POND 2
2504070216	SITE 3 BIG TJ WASH 1
2504070217	SITE 3 BIG TJ WASH 2
2504070218	SITE 4 HAINES CANYON CREEK 1
2504070219	SITE 4 HAINES CANYON CREEK 2

QC Ref #267837 - Turbidity Analysis Date: 04/07/2005

2504070211	SITE 1 INFLOW TO TJ POND 1
2504070212	SITE 1 INFLOW TO TJ POND 2
2504070213	SITE 2 OUTFLOW FROM TJ POND 1



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Laboratory
QC Summary
#145899

Applied Research Dept, MWH (Darren
Giles)
(continued)

QC Ref #267838 - Turbidity

Analysis Date: 04/07/2005

2504070214	SITE 2 OUTFLOW FROM TJ POND 2
2504070216	SITE 3 BIG TJ WASH 1
2504070217	SITE 3 BIG TJ WASH 2
2504070218	SITE 4 HAINES CANYON CREEK 1
2504070219	SITE 4 HAINES CANYON CREEK 2

QC Ref #267909 - Glyphosate

Analysis Date: 04/08/2005

2504070211	SITE 1 INFLOW TO TJ POND 1
2504070212	SITE 1 INFLOW TO TJ POND 2
2504070213	SITE 2 OUTFLOW FROM TJ POND 1
2504070214	SITE 2 OUTFLOW FROM TJ POND 2
2504070216	SITE 3 BIG TJ WASH 1
2504070217	SITE 3 BIG TJ WASH 2
2504070218	SITE 4 HAINES CANYON CREEK 1
2504070219	SITE 4 HAINES CANYON CREEK 2

QC Ref #268065 - Ammonia Nitrogen

Analysis Date: 04/11/2005

2504070211	SITE 1 INFLOW TO TJ POND 1
2504070212	SITE 1 INFLOW TO TJ POND 2
2504070213	SITE 2 OUTFLOW FROM TJ POND 1
2504070214	SITE 2 OUTFLOW FROM TJ POND 2
2504070216	SITE 3 BIG TJ WASH 1
2504070217	SITE 3 BIG TJ WASH 2
2504070218	SITE 4 HAINES CANYON CREEK 1
2504070219	SITE 4 HAINES CANYON CREEK 2

QC Ref #268531 - Total phosphorus-P

Analysis Date: 04/13/2005

2504070211	SITE 1 INFLOW TO TJ POND 1
2504070212	SITE 1 INFLOW TO TJ POND 2
2504070213	SITE 2 OUTFLOW FROM TJ POND 1
2504070214	SITE 2 OUTFLOW FROM TJ POND 2
2504070216	SITE 3 BIG TJ WASH 1
2504070217	SITE 3 BIG TJ WASH 2



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Laboratory
QC Summary
#145899

Applied Research Dept, MWH (Darren
Giles)
(continued)

2504070218 SITE 4 HAINES CANYON CREEK 1
2504070219 SITE 4 HAINES CANYON CREEK 2

QC Ref #268802 - Kjeldahl Nitrogen Analysis Date: 04/14/2005

2504070211 SITE 1 INFLOW TO TJ POND 1

QC Ref #269038 - Kjeldahl Nitrogen Analysis Date: 04/14/2005

2504070212 SITE 1 INFLOW TO TJ POND 2
2504070214 SITE 2 OUTFLOW FROM TJ POND 2
2504070216 SITE 3 BIG TJ WASH 1
2504070217 SITE 3 BIG TJ WASH 2
2504070218 SITE 4 HAINES CANYON CREEK 1
2504070219 SITE 4 HAINES CANYON CREEK 2

QC Ref #271593 - Kjeldahl Nitrogen Analysis Date: 05/12/2005

2504070213 SITE 2 OUTFLOW FROM TJ POND 1

Applied Research Dept, MWH (Darren
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QC Ref #267757 Nitrite, Nitrogen by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Nitrite, Nitrogen by IC	1.0	1.02	MGL	102.0	(90-110)	
LCS2	Nitrite, Nitrogen by IC	1.0	1.01	MGL	101.0	(90-110)	0.99
MBLK	Nitrite, Nitrogen by IC	ND	<0.10	MGL			
MS	Nitrite, Nitrogen by IC	1.0	0.947	MGL	94.7	(90-110)	
MSD	Nitrite, Nitrogen by IC	1.0	0.971	MGL	97.1	(90-110)	2.5

QC Ref #267761 Nitrate as Nitrogen by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Nitrate as Nitrogen by IC	2.5	2.52	MGL	100.8	(90-110)	
LCS2	Nitrate as Nitrogen by IC	2.5	2.53	MGL	101.2	(90-110)	0.40
MBLK	Nitrate as Nitrogen by IC	ND	<0.10	MGL			
MS	Nitrate as Nitrogen by IC	2.5	2.46	MGL	98.4	(90-110)	
MSD	Nitrate as Nitrogen by IC	2.5	2.45	MGL	98.0	(90-110)	0.41

QC Ref #267784 Orthophosphate-P

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 25	04070218	MGL		(0-0)	
LCS1	Orthophosphate-P	0.5	0.510	MGL	102.0	(90-110)	
LCS2	Orthophosphate-P	0.5	0.510	MGL	102.0	(90-110)	0.00
MBLK	Orthophosphate-P	ND	<0.010	MGL			
MS	Orthophosphate-P	0.5	0.508	MGL	101.6	(80-120)	
MSD	Orthophosphate-P	0.5	0.510	MGL	102.0	(80-120)	0.39

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Laboratory
QC Report
#145899

Applied Research Dept, MWH (Darren
Giles)
(continued)

QC Ref #267837

Turbidity

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
DUP	Turbidity	0.10	0.10	NTU		(0-20)	0.0

QC Ref #267838

Turbidity

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
DUP	Turbidity	0.30	0.30	NTU		(0-20)	0.0

QC Ref #267909

Glyphosate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 25	0406359	UGL		(0-0)	
LCS1	Glyphosate	10	8.83	UGL	88.3	(70-130)	
MBLK	Glyphosate	ND	<6.0	UGL			
MS	Glyphosate	10	7.62	UGL	76.2	(70-130)	
MSD	Glyphosate	10	8.00	UGL	80.0	(70-130)	4.9

QC Ref #268065

Ammonia Nitrogen

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 25	04070007	MGL		(0-0)	
LCS1	Ammonia Nitrogen	1.00	1.05	MGL	105.0	(90-110)	
LCS2	Ammonia Nitrogen	1.00	1.05	MGL	105.0	(90-110)	0.00
MBLK	Ammonia Nitrogen	ND	<0.050	MGL			
MS	Ammonia Nitrogen	1.00	1.03	MGL	103.0	(90-110)	
MSD	Ammonia Nitrogen	1.00	1.01	MGL	101.0	(90-110)	2.0

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Laboratory
QC Report
#145899

Applied Research Dept, MWH (Darren
Giles)
(continued)

QC Ref #268531

Total phosphorus-P

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 25	04070097	MGL		(0-0)	
LCS1	Total phosphorus-P	0.4	0.410	MGL	102.5	(90-110)	
LCS2	Total phosphorus-P	0.4	0.400	MGL	100.0	(90-110)	2.5
MBLK	Total phosphorus-P	ND	<0.010	MGL			
MS	Total phosphorus-P	0.4	0.420	MGL	105.0	(90-110)	
MSD	Total phosphorus-P	0.4	0.390	MGL	97.5	(90-110)	7.4
RPD_LCS	Total phosphorus-P	102.500	100.000	MGL	2.5	(0-10)	
RPD_MS	Total phosphorus-P	105.000	97.500	MGL	7.4	(0-10)	

QC Ref #268802

Kjeldahl Nitrogen

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 25	04070004	MGL		(0-0)	
LCS1	Kjeldahl Nitrogen	4	3.90	MGL	97.5	(90-110)	
LCS2	Kjeldahl Nitrogen	4	3.80	MGL	95.0	(90-110)	2.6
MBLK	Kjeldahl Nitrogen	ND	<0.20	MGL			
MS	Kjeldahl Nitrogen	4	4.08	MGL	102.0	(90-110)	
MSD	Kjeldahl Nitrogen	4	4.12	MGL	103.0	(90-110)	0.98
RPD_LCS	Kjeldahl Nitrogen	97.500	95.000	MGL	2.6	(0-20)	
RPD_MS	Kjeldahl Nitrogen	102.000	103.000	MGL	1.0	(0-10)	

QC Ref #269038

Kjeldahl Nitrogen

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 25	04120101	MGL		(0-0)	
LCS1	Kjeldahl Nitrogen	4	3.90	MGL	97.5	(90-110)	
LCS2	Kjeldahl Nitrogen	4	3.80	MGL	95.0	(90-110)	2.6
MBLK	Kjeldahl Nitrogen	ND	<0.20	MGL			

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Laboratory
QC Report
#145899

Applied Research Dept, MWH (Darren
Giles)
(continued)

MS	Kjeldahl Nitrogen	4	3.94	MGL	98.5	(90-110)	
MSD	Kjeldahl Nitrogen	4	4.11	MGL	102.8	(90-110)	4.2
RPD_LCS	Kjeldahl Nitrogen	97.500	95.000	MGL	2.6	(0-20)	
RPD_MS	Kjeldahl Nitrogen	98.500	102.750	MGL	4.2	(0-10)	

QC Ref #271593

Kjeldahl Nitrogen

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 25	05040292	MGL		(0-0)	
LCS1	Kjeldahl Nitrogen	4	4.00	MGL	100.0	(90-110)	
LCS2	Kjeldahl Nitrogen	4	4.00	MGL	100.0	(90-110)	0.00
MBLK	Kjeldahl Nitrogen	ND	<0.20	MGL			
MS	Kjeldahl Nitrogen	4	4.07	MGL	101.8	(90-110)	
MSD	Kjeldahl Nitrogen	4	4.29	MGL	107.2	(90-110)	5.3
RPD_LCS	Kjeldahl Nitrogen	100.000	100.000	MGL	0.0	(0-20)	
RPD_MS	Kjeldahl Nitrogen	101.750	107.250	MGL	5.3	(0-10)	

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only, batch control is based on LCS. Criteria for duplicates
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145899
ard-dg



CRG

Marine Laboratories, Inc.

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April 22, 2005

MWH Laboratories
70 Royal Oaks Dr., Suite 100
Monrovia, CA 91016-3629

Re: CRG Project ID: P2502ax
MWH Project: 145899
MWH Sub PO: 99-16654

ATTN: Mr. Michael Lettona

CRG Laboratories is pleased to provide you with the enclosed analytical data report for your 145899 Project. According to the chain-of-custody, 8 wastewater samples were received intact and cool at CRG on April 8, 2005. Per your instructions, the samples were analyzed for:

- Organophosphorus Pesticides By GCMS Using EPA Method 625

Please don't hesitate to call if you have any questions and thank you very much for using our laboratory for your analytical needs.

Regards,
Misty B. Mercier
Project Manager

Reviewed and Approved

Digitally signed by Misty B. Mercier
DN: CN = Misty B. Mercier, C = US, O = CRG Marine
Laboratories, Inc.
Date: 2005.04.22 12:05:02 -07'00'

DATA REPORT

CRG Marine Laboratories, Inc.

2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

Organophosphorus Pesticides

Client: MWH Laboratories **CRG Project ID:** 2502ax

CRG ID#: 23957 **Sample ID:** 2504070211 **Site:** SITE 1 INFLOW TO TJ POND 1 **Date Sampled:** 07-Apr-05 12:25

Replicate #: R1 **Description:** Project #145899 / PO #99-16654 **Date Received:** 08-Apr-05

Batch ID: 2502-13082 **Matrix:** Wastewater **Date Processed:** 11-Apr-05

Instrument: GC/MS #2 Shimadzu QP2010 **Analyst:** D. Gonsman **Date Analyzed:** 19-Apr-05

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DILUTION FACTOR	ACCEPTANCE RANGE
(PCB030)	Total	EPA 625	102	% Recovery			1	46 - 119%
(PCB112)	Total	EPA 625	102	% Recovery			1	52 - 123%
(PCB198)	Total	EPA 625	98	% Recovery			1	59 - 123%
(TCMX)	Total	EPA 625	100	% Recovery			1	40 - 110%
Bolstar (Sulprofos)	Total	EPA 625	ND	ng/L	10	20	1	NA
Chlorpyrifos	Total	EPA 625	ND	ng/L	5	10	1	NA
Demeton	Total	EPA 625	ND	ng/L	10	20	1	NA
Diazinon	Total	EPA 625	ND	ng/L	5	10	1	NA
Dichlorvos	Total	EPA 625	ND	ng/L	10	20	1	NA
Dimethoate	Total	EPA 625	ND	ng/L	5	10	1	NA
Disulfoton	Total	EPA 625	ND	ng/L	10	20	1	NA
Ethoprop (Ethoprofos)	Total	EPA 625	ND	ng/L	10	20	1	NA
Fenchlorphos (Rommel)	Total	EPA 625	ND	ng/L	10	20	1	NA
Fensulfthion	Total	EPA 625	ND	ng/L	10	20	1	NA
Fenthion	Total	EPA 625	ND	ng/L	10	20	1	NA
Malathion	Total	EPA 625	ND	ng/L	5	10	1	NA
Merphos	Total	EPA 625	ND	ng/L	10	20	1	NA
Methyl Parathion	Total	EPA 625	ND	ng/L	10	20	1	NA
Mevinphos (Phosdm)	Total	EPA 625	ND	ng/L	10	20	1	NA
Phorate	Total	EPA 625	ND	ng/L	10	20	1	NA
Tetrachlorvinphos (Stirofos)	Total	EPA 625	ND	ng/L	10	20	1	NA
Tokuthion	Total	EPA 625	ND	ng/L	10	20	1	NA
Trichloronate	Total	EPA 625	ND	ng/L	10	20	1	NA

MDL = Method Detection Limit (CFR 40 Part 136); RL = Minimum Level (SWRCB); E = Estimated Value below the RL and above the MDL; ND = Not Detected; NA = Not Applicable.

California ELAP Certificate # 7261
23957 RI

CRG Marine Laboratories, Inc.

2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

Organophosphorus Pesticides

Client: MWH Laboratories

CRG Project ID: 2502ax

CRG ID#: 23958 **Sample Description:** 2504070212 **Date Sampled:** 07-Apr-05 **12:40**
Replicate #: R1 **Project #:** 145899 / PO #99-16654 **Date Received:** 08-Apr-05
Batch ID: 2502-13082 **Matrix:** Wastewater
Instrument: GC/MS #2 Shimadzu QP2010 **Analyst:** D. Gonsman **Date Processed:** 11-Apr-05
Date Analyzed: 19-Apr-05

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DILUTION FACTOR	ACCEPTANCE RANGE
(PCB030)	Total	EPA 625	94	% Recovery			1	46 - 119%
(PCB112)	Total	EPA 625	96	% Recovery			1	52 - 123%
(PCB198)	Total	EPA 625	94	% Recovery			1	59 - 123%
(TCMX)	Total	EPA 625	93	% Recovery			1	40 - 110%
Bolstar (Sulprofos)	Total	EPA 625	ND	ng/L	10	20	1	NA
Chlorpyrifos	Total	EPA 625	ND	ng/L	5	10	1	NA
Demeton	Total	EPA 625	ND	ng/L	10	20	1	NA
Diazinon	Total	EPA 625	ND	ng/L	5	10	1	NA
Dichlorvos	Total	EPA 625	ND	ng/L	10	20	1	NA
Dimethoate	Total	EPA 625	ND	ng/L	5	10	1	NA
Disulfoton	Total	EPA 625	ND	ng/L	10	20	1	NA
Ethoprop (Ethoprofos)	Total	EPA 625	ND	ng/L	5	10	1	NA
Fenchlorphos (Rommel)	Total	EPA 625	ND	ng/L	10	20	1	NA
Fensulfothion	Total	EPA 625	ND	ng/L	10	20	1	NA
Fenitrothion	Total	EPA 625	ND	ng/L	10	20	1	NA
Malathion	Total	EPA 625	ND	ng/L	5	10	1	NA
Merphos	Total	EPA 625	ND	ng/L	10	20	1	NA
Methyl Parathion	Total	EPA 625	ND	ng/L	10	20	1	NA
Mevinphos (Phosdm)	Total	EPA 625	ND	ng/L	10	20	1	NA
Phorate	Total	EPA 625	ND	ng/L	10	20	1	NA
Tetrachlorvinphos (Stirofos)	Total	EPA 625	ND	ng/L	10	20	1	NA
Tokuthion	Total	EPA 625	ND	ng/L	10	20	1	NA
Trichlorfonate	Total	EPA 625	ND	ng/L	10	20	1	NA

MDL = Method Detection Limit (CFR 40 Part 136); RL = Minimum Level (SWRCB); E = Estimated Value below the RL and above the MDL; ND = Not Detected; NA = Not Applicable.

California ELAP Certificate # 2261
23958 R1

CRG Marine Laboratories, Inc.

2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

Organophosphorus Pesticides

Client: MWH Laboratories

CRG Project ID: 2502ax

CRG ID#: 23959 Replicate #: R1 Batch ID: 2502-13082 Instrument: GC/MS #2 Shimadzu QP2010	Sample ID: 2504070213 Description: Project #145899 / PO #99-16654 Matrix: Wastewater Analyst: D. Gonsman	Date Sampled: 07-Apr-05 13:25 Date Received: 08-Apr-05 Date Processed: 11-Apr-05 Date Analyzed: 19-Apr-05
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CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DILUTION FACTOR	ACCEPTANCE RANGE
(PCB030)	Total	EPA 625	98	% Recovery			1	46 - 119%
(PCB112)	Total	EPA 625	98	% Recovery			1	52 - 123%
(PCB198)	Total	EPA 625	97	% Recovery			1	59 - 123%
(TCMX)	Total	EPA 625	98	% Recovery			1	40 - 110%
Bolstar (Sulprofos)	Total	EPA 625	ND	ng/L	10	20	1	NA
Chlorpyrifos	Total	EPA 625	ND	ng/L	5	10	1	NA
Demeton	Total	EPA 625	ND	ng/L	10	20	1	NA
Diazinon	Total	EPA 625	ND	ng/L	5	10	1	NA
Dichlorvos	Total	EPA 625	ND	ng/L	10	20	1	NA
Dimethoate	Total	EPA 625	ND	ng/L	5	10	1	NA
Disulfoton	Total	EPA 625	ND	ng/L	10	20	1	NA
Ethoprop (Ethoprofos)	Total	EPA 625	ND	ng/L	5	10	1	NA
Fenclorophos (Ronnel)	Total	EPA 625	ND	ng/L	10	20	1	NA
Fensulfothion	Total	EPA 625	ND	ng/L	10	20	1	NA
Fenitrothion	Total	EPA 625	ND	ng/L	10	20	1	NA
Malathion	Total	EPA 625	ND	ng/L	10	20	1	NA
Merphos	Total	EPA 625	ND	ng/L	5	10	1	NA
Methyl Parathion	Total	EPA 625	ND	ng/L	10	20	1	NA
Mevinphos (Phosdrin)	Total	EPA 625	ND	ng/L	10	20	1	NA
Phorate	Total	EPA 625	ND	ng/L	10	20	1	NA
Tetrachlorvinphos (Stirofos)	Total	EPA 625	ND	ng/L	10	20	1	NA
Tokuthion	Total	EPA 625	ND	ng/L	10	20	1	NA
Trichloronate	Total	EPA 625	ND	ng/L	10	20	1	NA

MDL= Method Detection Limit (CFR 40 Part 136); **RL=** Minimum Level (SWRCB); **E=** Estimated Value below the RL, and above the MDL; **ND=** Not Detected; **NA=** Not Applicable.

California ELAP Certificate # 2261
23959 RI

CRG Marine Laboratories, Inc.

2020 Del Arno Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

Organophosphorus Pesticides

Client: MWH Laboratories

CRG Project ID: 2502ax

CRG ID#: 23960 **Sample Description:** 2504070214 **SITE:** 2 OUTFLOW FR TJ POND **Date Sampled:** 07-Apr-05 13:40
Replicate #: R1 **Batch ID:** 2502-13082 **Matrix:** Wastewater **Date Received:** 08-Apr-05
Instrument: GC/MS #2 Shimadzu QP2010 **Analyst:** D. Gonsman **Date Processed:** 11-Apr-05
Date Analyzed: 19-Apr-05

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DILUTION FACTOR	ACCEPTANCE RANGE
(PCB030)	Total	EPA 625	98	% Recovery			1	46 - 119%
(PCB112)	Total	EPA 625	99	% Recovery			1	52 - 123%
(PCB198)	Total	EPA 625	96	% Recovery			1	59 - 123%
(TCMX)	Total	EPA 625	97	% Recovery			1	40 - 110%
Bolstar (Sulprofos)	Total	EPA 625	ND	ng/L	10	20	1	NA
Chlorpyrifos	Total	EPA 625	ND	ng/L	5	10	1	NA
Demeton	Total	EPA 625	ND	ng/L	10	20	1	NA
Diazinon	Total	EPA 625	ND	ng/L	5	10	1	NA
Dichlorvos	Total	EPA 625	ND	ng/L	10	20	1	NA
Dimethoate	Total	EPA 625	ND	ng/L	5	10	1	NA
Disulfoton	Total	EPA 625	ND	ng/L	10	20	1	NA
Ethioprop (Ethioprofos)	Total	EPA 625	ND	ng/L	5	10	1	NA
Fenchlorphos (Ronnol)	Total	EPA 625	ND	ng/L	10	20	1	NA
Fensulfotfion	Total	EPA 625	ND	ng/L	10	20	1	NA
Fenthion	Total	EPA 625	ND	ng/L	10	20	1	NA
Malathion	Total	EPA 625	ND	ng/L	10	20	1	NA
Merphos	Total	EPA 625	ND	ng/L	5	10	1	NA
Methyl Parathion	Total	EPA 625	ND	ng/L	10	20	1	NA
Mevinphos (Phosdrin)	Total	EPA 625	ND	ng/L	10	20	1	NA
Phorate	Total	EPA 625	ND	ng/L	10	20	1	NA
Tetrachlorvinphos (Stirofos)	Total	EPA 625	ND	ng/L	10	20	1	NA
Tokuthion	Total	EPA 625	ND	ng/L	10	20	1	NA
Trichloronate	Total	EPA 625	ND	ng/L	10	20	1	NA

MDL= Method Detection Limit (CFR 40 Part 136); RL= Minimum Level (SWRCB); E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

CRG Marine Laboratories, Inc.

2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

Organophosphorus Pesticides

Client: MWH Laboratories

CRG Project ID: 2502ax

CRG ID#: 23962 **Sample Description:** 2504070217 **Site:** SITE 3 BIG TJ WASH 2 **Date Sampled:** 07-Apr-05 11:35
Replicate #: R1 **Project #:** 1453899 / PO #99-16654
Batch ID: 2502-13082 **Matrix:** Wastewater
Instrument: GC/MS #2 Shimadzu QP2010 **Analyst:** D. Consmann **Date Received:** 08-Apr-05
Date Processed: 11-Apr-05
Date Analyzed: 19-Apr-05

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DILUTION FACTOR	ACCEPTANCE RANGE
(PCB030)	Total	EPA 625	99	% Recovery			1	46 - 119%
(PCB112)	Total	EPA 625	98	% Recovery			1	52 - 123%
(PCB198)	Total	EPA 625	96	% Recovery			1	59 - 123%
(TCMX)	Total	EPA 625	96	% Recovery			1	40 - 110%
Bolstar (Sulprofos)	Total	EPA 625	ND	ng/L	10	20	1	NA
Chlorpyrifos	Total	EPA 625	ND	ng/L	5	10	1	NA
Demeton	Total	EPA 625	ND	ng/L	10	20	1	NA
Diazinon	Total	EPA 625	ND	ng/L	5	10	1	NA
Dichlorvos	Total	EPA 625	ND	ng/L	10	20	1	NA
Dimethoate	Total	EPA 625	ND	ng/L	5	10	1	NA
Disulfoton	Total	EPA 625	ND	ng/L	10	20	1	NA
Ethoprop (Ethoprofos)	Total	EPA 625	ND	ng/L	10	20	1	NA
Fenchlorphos (Ronnel)	Total	EPA 625	ND	ng/L	10	20	1	NA
Fensulfothion	Total	EPA 625	ND	ng/L	10	20	1	NA
Fenitrothion	Total	EPA 625	ND	ng/L	10	20	1	NA
Malathion	Total	EPA 625	ND	ng/L	5	10	1	NA
Merphos	Total	EPA 625	ND	ng/L	10	20	1	NA
Methyl Parathion	Total	EPA 625	ND	ng/L	10	20	1	NA
Mevinphos (Phosdrin)	Total	EPA 625	ND	ng/L	10	20	1	NA
Phorate	Total	EPA 625	ND	ng/L	10	20	1	NA
Tetrachlorvinphos (Stirofos)	Total	EPA 625	ND	ng/L	10	20	1	NA
Tokuthion	Total	EPA 625	ND	ng/L	10	20	1	NA
Trichlorfon	Total	EPA 625	ND	ng/L	10	20	1	NA
Trichlorfonate	Total	EPA 625	ND	ng/L	10	20	1	NA

MDL = Method Detection Limit (CFR 40 Part 136); RL = Minimum Level (SWRCB); E = Estimated Value below the RL and above the MDL; ND = Not Detected; NA = Not Applicable. **California ELAP Certificate # 2261**
23962 RI

CRG Marine Laboratories, Inc.

2020 Del Arno Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

Organophosphorus Pesticides

Client: MWH Laboratories

CRG Project ID: 2502ax

CRG ID#: 23963	Sample ID: 2504070218	Date Sampled: 07-Apr-05	10:00
Replicate #: R1	Description: Project #145899 / PO #99-16654	Date Received: 08-Apr-05	
Batch ID: 2502-13082	Matrix: Wastewater	Date Processed: 11-Apr-05	
Instrument: GC/MS #2 Shimadzu QP2010	Analyst: D. Gonsman	Date Analyzed: 19-Apr-05	

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DILUTION FACTOR	ACCEPTANCE RANGE
(PCB030)	Total	EPA 625	97	% Recovery			1	46 - 119%
(PCB112)	Total	EPA 625	97	% Recovery			1	52 - 123%
(PCB198)	Total	EPA 625	95	% Recovery			1	59 - 123%
(TCMX)	Total	EPA 625	95	% Recovery			1	40 - 110%
Bolstar (Sulprofos)	Total	EPA 625	ND	ng/L	10	20	1	NA
Chlorpyrifos	Total	EPA 625	ND	ng/L	5	10	1	NA
Demeton	Total	EPA 625	ND	ng/L	10	20	1	NA
Diazinon	Total	EPA 625	ND	ng/L	5	10	1	NA
Dichlorvos	Total	EPA 625	ND	ng/L	10	20	1	NA
Dimethoate	Total	EPA 625	ND	ng/L	5	10	1	NA
Disulfoton	Total	EPA 625	ND	ng/L	10	20	1	NA
Ethoprop (Ethoprofos)	Total	EPA 625	ND	ng/L	5	10	1	NA
Fenchlorphos (Ronnel)	Total	EPA 625	ND	ng/L	10	20	1	NA
Fensulfthion	Total	EPA 625	ND	ng/L	10	20	1	NA
Fenitrothion	Total	EPA 625	ND	ng/L	10	20	1	NA
Malathion	Total	EPA 625	ND	ng/L	10	20	1	NA
Merphos	Total	EPA 625	ND	ng/L	5	10	1	NA
Methyl Parathion	Total	EPA 625	ND	ng/L	10	20	1	NA
Mevinphos (Phosdrin)	Total	EPA 625	ND	ng/L	10	20	1	NA
Phorate	Total	EPA 625	ND	ng/L	10	20	1	NA
Tetrachlorvinphos (Stirofos)	Total	EPA 625	ND	ng/L	10	20	1	NA
Tokuthion	Total	EPA 625	ND	ng/L	10	20	1	NA
Trichloronate	Total	EPA 625	ND	ng/L	10	20	1	NA

MDL = Method Detection Limit (CFR 40 Part 136); RL = Minimum Level (SWRCB); E = Estimated Value below the RL and above the MDL; ND = Not Detected; NA = Not Applicable.

California ELAP Certificate # 2261
23963 R1

2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

CRG Marine Laboratories, Inc.
Organophosphorus Pesticides

Client: MWH Laboratories

CRG ID#: 23964 **CRG Project ID:** 2502ax
Replicate #: R1 **Sample Description:** 2504070219 **Site:** 4 HAINES CANYON CREEK **Date Sampled:** 07-Apr-05 10:15
Batch ID: 2502-13082 **Project #:** 145899 / **PO #:** 99-16654 **Date Received:** 08-Apr-05
Instrument: GC/MS #2 Shimadzu QP2010 **Matrix:** Wastewater **Date Processed:** 11-Apr-05
Analyst: D. Gonsman **Date Analyzed:** 19-Apr-05

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DILUTION FACTOR	ACCEPTANCE RANGE
(PCB030)	Total	EPA 625	102	% Recovery			1	46 - 119%
(PCB112)	Total	EPA 625	101	% Recovery			1	52 - 123%
(PCB198)	Total	EPA 625	99	% Recovery			1	59 - 123%
(TCMX)	Total	EPA 625	103	% Recovery			1	40 - 110%
Bolstar (Sulprofos)	Total	EPA 625	ND	ng/L	10	20	1	NA
Chlorpyrifos	Total	EPA 625	ND	ng/L	5	10	1	NA
Demeton	Total	EPA 625	ND	ng/L	10	20	1	NA
Diazinon	Total	EPA 625	ND	ng/L	5	10	1	NA
Dichlorvos	Total	EPA 625	ND	ng/L	10	20	1	NA
Dimethoate	Total	EPA 625	ND	ng/L	5	10	1	NA
Disulfoton	Total	EPA 625	ND	ng/L	10	20	1	NA
Ethioprop (Ethopropfos)	Total	EPA 625	ND	ng/L	5	10	1	NA
Fenchlorphos (Rommel)	Total	EPA 625	ND	ng/L	10	20	1	NA
Fensulfothion	Total	EPA 625	ND	ng/L	10	20	1	NA
Fenthion	Total	EPA 625	ND	ng/L	10	20	1	NA
Malathion	Total	EPA 625	ND	ng/L	10	20	1	NA
Merphos	Total	EPA 625	ND	ng/L	10	20	1	NA
Methyl Parathion	Total	EPA 625	ND	ng/L	5	10	1	NA
Mevinphos (Phosdrin)	Total	EPA 625	ND	ng/L	10	20	1	NA
Phorate	Total	EPA 625	ND	ng/L	10	20	1	NA
Tetrachlorinphos (Sitrofos)	Total	EPA 625	ND	ng/L	10	20	1	NA
Tokuthion	Total	EPA 625	ND	ng/L	10	20	1	NA
Trichloronate	Total	EPA 625	ND	ng/L	10	20	1	NA
	Total	EPA 625	ND	ng/L	10	20	1	NA

MDL= Method Detection Limit (CFR 40 Part 136); RL= Minimum Level (SWRCB); E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261
 23964 R1

QUALITY CONTROL REPORT

CRG Marine Laboratories, Inc.

2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

Organophosphorus Pesticides

Client: **MWH Laboratories**

CRG Project ID: **2502ax**

CRG ID#: **23956**

Replicate #: **B1**

Batch ID: **2502-13082**

Instrument: **GC/MS #2 Shimadzu QP2010**

Sample Description: **Procedural Blank**

QA/QC: **Project #145899 / PO #99-16654**

Matrix: **DI Water**

Analyst: **D. Gonsman**

Date Sampled:

Date Received:

Date Processed: **11-Apr-05**

Date Analyzed: **19-Apr-05**

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DILUTION FACTOR	ACCEPTANCE RANGE
(PCB030)	Total	EPA 625	96	% Recovery			1	46 - 119%
(PCB112)	Total	EPA 625	96	% Recovery			1	52 - 123%
(PCB198)	Total	EPA 625	96	% Recovery			1	59 - 123%
(TCMX)	Total	EPA 625	93	% Recovery			1	40 - 110%
Bolstar (Sulprofos)	Total	EPA 625	ND	ng/L	10	20	1	NA
Chlorpyrifos	Total	EPA 625	ND	ng/L	5	10	1	NA
Demeton	Total	EPA 625	ND	ng/L	10	20	1	NA
Diazinon	Total	EPA 625	ND	ng/L	5	10	1	NA
Dichlorvos	Total	EPA 625	ND	ng/L	10	20	1	NA
Dimethoate	Total	EPA 625	ND	ng/L	5	10	1	NA
Disulfoton	Total	EPA 625	ND	ng/L	10	20	1	NA
Ethoprop (Ethoprofos)	Total	EPA 625	ND	ng/L	5	10	1	NA
Fenchlorphos (Ronnel)	Total	EPA 625	ND	ng/L	10	20	1	NA
Fensulfotion	Total	EPA 625	ND	ng/L	10	20	1	NA
Fenthion	Total	EPA 625	ND	ng/L	10	20	1	NA
Malathion	Total	EPA 625	ND	ng/L	10	20	1	NA
Merphos	Total	EPA 625	ND	ng/L	5	10	1	NA
Methyl Parathion	Total	EPA 625	ND	ng/L	10	20	1	NA
Mevinphos (Phosdrin)	Total	EPA 625	ND	ng/L	10	20	1	NA
Phorate	Total	EPA 625	ND	ng/L	10	20	1	NA
Tetrachlorvinphos (Stirofos)	Total	EPA 625	ND	ng/L	10	20	1	NA
Tokuthion	Total	EPA 625	ND	ng/L	10	20	1	NA
Trichloronate	Total	EPA 625	ND	ng/L	10	20	1	NA

MDL= Method Detection Limit (CFR 40 Part 136); RL= Minimum Level (SWRCB); E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

CHAIN-OF-CUSTODY



MWH Laboratories
A Division of MWH Americas, Inc.
750 Royal Oaks Drive Suite 100
Monrovia, CA 91016-3629
Ph (626) 386-1100 Fax (626) 386-1095

Ship To **Misty B. Mercier**
CRG MARINE

2020 Del Amo Blvd
Suite 200
Torrance, CA 90501-1206

(310) 533-5190 x106 Fax 310-533-5003

MWH Project # **Report Due: Sub PO#**
145899 04/23/05 99-16654

rbc



Client Sample ID for reference only

Date **04/08/05** **Submittal Form & Purchase Order 99-16654**

***REPORTING REQUIREMENTS: Do Not Combine Report with any other samples submitted under different MWH project numbers!**
Report & invoice must have the MWH Project Number **145899** Sub PO# **99-16654** and Job #

Report all quality control data according to Method. Include dates analyzed, date extracted (if extracted) and Method reference on the report.
Results must have Complete data & QC with Approval Signature. See reverse side for List of Terms and Conditions

Reports: Michael Lettona Sub-contracting Administrator
EMAIL TO: Michael.Lettona@mwhglobal.com
MWH Laboratories 750 Royal Oaks Dr. Monrovia, CA 91016
Phone (626) 386-1137 Fax (626) 386-1095
Invoices to: MWH LABORATORIES
Accounts Payable PO BOX 7009, Pasadena, CA 91109-7009

Provide in each Report
the Specified State
Certification # & Exp Date for
requested tests + matrix

CA ELAP WW

P 2502 ax

23957-23964

DRS

	Analysis Requested	Sample Date & Time	Matrix	Container
1 @ DIAZEDD	DIAZINON & CHLORPYRIFOS by 625	04/07/05 12:25	ww	3 1L amber glass+ buffer+ascorbic+EDTA+DZU
2 @ DIAZEDD	DIAZINON & CHLORPYRIFOS by 625	04/07/05 12:40	ww	3 1L amber glass+ buffer+ascorbic+EDTA+DZU
3 @ DIAZEDD	DIAZINON & CHLORPYRIFOS by 625	04/07/05 13:25	ww	3 1L amber glass+ buffer+ascorbic+EDTA+DZU
4 @ DIAZEDD	DIAZINON & CHLORPYRIFOS by 625	04/07/05 13:40	ww	3 1L amber glass+ buffer+ascorbic+EDTA+DZU
5 @ DIAZEDD	DIAZINON & CHLORPYRIFOS by 625	04/07/05 11:20	ww	3 1L amber glass+ buffer+ascorbic+EDTA+DZU
6 @ DIAZEDD	DIAZINON & CHLORPYRIFOS by 625	04/07/05 11:35	ww	3 1L amber glass+ buffer+ascorbic+EDTA+DZU
7 @ DIAZEDD	DIAZINON & CHLORPYRIFOS by 625	04/07/05 10:00	ww	3 1L amber glass+ buffer+ascorbic+EDTA+DZU
8 @ DIAZEDD	DIAZINON & CHLORPYRIFOS by 625	04/07/05 10:15	ww	3 1L amber glass+ buffer+ascorbic+EDTA+DZU

YOR

Michael Lettona

Relinquished by: *Michael Lettona*
Received by: *Michael Lettona*

Date **04/08/05** Time **08:45** MUST HAVE NOTIFICATION IF TEMP IS GREATER THAN 6 OR LESS THAN 2 CELSIUS
Date **4/8/05** Time **12:00pm**
Page 1
An Acknowledgement of Receipt is requested to attn: Michael Lettona

CRG Project ID
p2502ax

CLIENT NAME MWH DATE RECEIVED 4/8/05

COURIER INFORMATION		
<input type="checkbox"/> CRG	<input type="checkbox"/> FEDEX	TRACKING NUMBER <u>Carrier</u>
<input checked="" type="checkbox"/> OTHER*	<input type="checkbox"/> UPS	

TEMPERATURE	
<u>9</u> °C	<input checked="" type="checkbox"/> BLUE ICE
	<input type="checkbox"/> WET ICE
	<input type="checkbox"/> NO ICE

Chain-of-Custody
<input checked="" type="checkbox"/> INCLUDED
<input checked="" type="checkbox"/> SIGNED
<input type="checkbox"/> NOT INCLUDED

SAMPLE MATRIX
<input checked="" type="checkbox"/> LIQUID
<input type="checkbox"/> SOLID
<input type="checkbox"/> OTHER*

CONDITION OF SAMPLES UPON ARRIVAL			
	YES	NO*	NA
All sample containers intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
All samples listed on COC are present.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample ID on containers consistent with COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Correct containers used for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
All samples received within method holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

*NOTES
<p style="text-align: right;">COMPLETED BY: <u>S. Chamas</u></p>

**BIG TUJUNGA WASH MITIGATION BANK
WATER QUALITY MONITORING PROGRAM**

JUNE 2005 LABORATORY RESULTS



MWH Laboratories

A Division of MWH Americas, Inc.

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: 626 386 1100
Fax: 626 386 1101
1 800 566 LABS (1 800 566 5227)

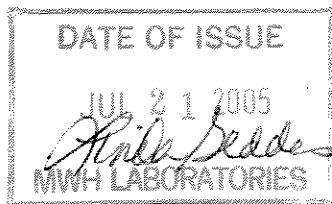
Laboratory Report

for

Applied Research Dept, MWH (Darren Giles)
327 West Maple Avenue

Monrovia , CA 91016

Attention: Darren Giles
Fax: (626) 359-3593



LXG Linda Geddes
Project Manager



Report#: 151123
BIG-TJ

Laboratory certifies that the test results meet all **NELAC** requirements unless noted in the Comments section or the Case Narrative. Following the cover page are Comments, QC Report, QC Summary, Data Report, Hits Report, totaling 22 page[s].



MWH Laboratories

CHAIN OF CUSTODY RECORD

15123

750 Royal Oaks Drive Suite 100
Monrovia Ca 91016 (626) 386-1100

MWHLABS USE ONLY:

LOGIN COMMENTS:

SAMPLES CHECKED/LOGGED IN BY: KMD

SAMPLE TEMP, RECEIPT AT LAB 13°C (Compliance: 4 +/- 2°C)

SAMPLES RECEIVED DAY OF COLLECTION? (check for yes)

BLUE ICE: FROZEN PARTIALLY FROZEN THAWED

TO BE COMPLETED BY SAMPLER:

TAT requested: STANDARD		PROJECT JOB # / P.O.#		CLIENT CODE		REGULATION:		COMPLIANCE SAMPLES		NON-COMPLIANCE SAMPLES		REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES							
PROJECT CODE		1342289.5620.051801		ARD-DG		(SDWA, Phase V, NPDES, FDA, ...)		<input type="checkbox"/> (check for yes)		<input type="checkbox"/> (check for yes)									
SAMPLER(S) PRINTED NAME AND SIGNATURE																			
Darren Giles																			
TIME	DATE	SITE NAME or LOCATION	IDENTIFIER, STATE ID #	MATRIX	GRAB	COMP	T-P	O-P4	TKN	NO2	NO3	Turbidity	Fecal Coli	Total Coli	Ammonia	Glyphosate	Diazinon	SAMPLER COMMENTS	
1230	30-Jun	SITE 1	Inflow to TJ Pond #1		X		X	X	X	X	X	X	X	X	X	X	X		
1240	30-Jun	SITE 1	Inflow to TJ Pond #2		X		X	X	X	X	X	X	X	X	X	X	X		
1240	30-Jun	SITE 2	Outflow from TJ Pond #1		X		X	X	X	X	X	X	X	X	X	X	X		
1240	30-Jun	SITE 2	Outflow from TJ Pond #2		X		X	X	X	X	X	X	X	X	X	X	X		
1330	30-Jun	SITE 3	Big TJ Wash #1		X		X	X	X	X	X	X	X	X	X	X	X		
1340	30-Jun	SITE 3	Big TJ Wash #2		X		X	X	X	X	X	X	X	X	X	X	X		
1000	30-Jun	SITE 4	Haines Canyon Creek #1		X		X	X	X	X	X	X	X	X	X	X	X		
1015	30-Jun	SITE 4	Haines Canyon Creek #2		X		X	X	X	X	X	X	X	X	X	X	X		
ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)																			
DE 6-30-05 (8)																			

* MATRIX TYPES: Reported by Volume:

RSW = Raw Surface Water
RGRW = Raw Ground Water

FW = Other Finished Water
CFW = Chlor(am)inated Finished Water

SW = Storm Water
WW = Other Waste Water
CW = Chlorinated Waste Water

Reported by Weight:
SO = Soil
SL = Sludge

SIGNATURE

PRINT NAME

COMPANY/TITLE

DATE

TIME

RELINQUISHED BY:

RECEIVED BY:

DARREN GILES
M. DEBOTA

MWH
DWB

6/30/05 1338
6-30-05 1348

SPECIAL INSTRUCTIONS

SCANNED

MWH Laboratories
 750 Royal Oaks Drive, Monrovia, CA 91016
 PHONE: 626-386-1100/FAX: 626-386-1101

ACKNOWLEDGMENT OF SAMPLES RECEIVED

Applied Research Dept, MWH (Darren Giles) 327 West Maple Avenue Monrovia, CA 91016 Attn: Darren Giles Phone: (626) 303-5945	Customer Code: ARD-DG PO#: 1342289.5620.051801 Group#: 151123 Project#: BIG-TJ Proj Mgr: Linda Geddes Phone: (626) 386-1163
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The following samples were received from you on **06/30/05**. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using MWH Laboratories.

Sample#	Sample Id	Tests Scheduled	Matrix	Sample Date
2506300315	SITE 1 INFLOW	TO TJ POND 1	Water	30-jun-2005 12:30:00
		@DIAZEDD FECCOL	GLYPHOS NH3	NO2-N NO3
		NO3A OPO4	SIO2 T-P	TKN TOTCOL
		TURB		
2506300321	SITE 1 INFLOW	TO TJ POND 2	Water	30-jun-2005 12:40:00
		@DIAZEDD FECCOL	GLYPHOS NH3	NO2-N NO3
		NO3A OPO4	SIO2 T-P	TKN TOTCOL
		TURB		
2506300322	SITE 2 OUTFLOW	FROM TJ POND 1	Water	30-jun-2005 11:00:00
		@DIAZEDD FECCOL	GLYPHOS NH3	NO2-N NO3
		NO3A OPO4	SIO2 T-P	TKN TOTCOL
		TURB		
2506300323	SITE 2 OUTFLOW	FROM TJ POND 2	Water	30-jun-2005 11:15:00
		@DIAZEDD FECCOL	GLYPHOS NH3	NO2-N NO3
		NO3A OPO4	SIO2 T-P	TKN TOTCOL
		TURB		
2506300324	SITE 3 BIG TJ	WASH 1	Water	30-jun-2005 13:30:00
		@DIAZEDD FECCOL	GLYPHOS NH3	NO2-N NO3
		NO3A OPO4	SIO2 T-P	TKN TOTCOL
		TURB		
2506300325	SITE 3 BIG TJ	WASH 2	Water	30-jun-2005 13:40:00
		@DIAZEDD FECCOL	GLYPHOS NH3	NO2-N NO3
		NO3A OPO4	SIO2 T-P	TKN TOTCOL
		TURB		
2506300326	SITE 4 HAINES	CYN CRK 1	Water	30-jun-2005 10:00:00
		@DIAZEDD FECCOL	GLYPHOS NH3	NO2-N NO3
		NO3A OPO4	SIO2 T-P	TKN TOTCOL
		TURB		
2506300327	SITE 4 HAINES	CYN CRK 2	Water	30-jun-2005 10:15:00
		@DIAZEDD FECCOL	GLYPHOS NH3	NO2-N NO3
		NO3A OPO4	SIO2 T-P	TKN TOTCOL
		TURB		

Test Acronym Description

Test Acronym	Description
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Applied Research Dept, MWH (Darren Giles)

327 West Maple Avenue

Monrovia, CA 91016

Attn: Darren Giles

Phone: (626) 303-5945

Customer Code: ARD-DG

PO#: 1342289.5620.051801

Group#: 151123

Project#: BIG-TJ

Proj Mgr: Linda Geddes

Phone: (626) 386-1163

Test Acronym Description

Test Acronym	Description
@DIAZEDD	Diazinon/Chlorpyrifos by GCMS
FECCOL	Fecal Coliform Bacteria
GLYPHOS	Glyphosate
NH3	Ammonia Nitrogen
NO2-N	Nitrite, Nitrogen by IC
NO3	Nitrate as Nitrogen by IC
NO3A	Nitrate as NO3 by IC (calc)
OPO4	Orthophosphate-P
SIO2	Silica
T-P	Total phosphorus-P
TKN	Kjeldahl Nitrogen
TOTCOL	Total Coliform Bacteria
TURB	Turbidity



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**Report
Comments**
#151123

Group Comments

Analytical results for Diazinon/Chlorpyrifos by GCMS are submitted by CRG Marine Laboratories, Torrance, CA.
ELAP 2261



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Laboratory
Hits Report
#151123

Applied Research Dept, MWH (Darren
Giles)
Darren Giles
327 West Maple Avenue
Monrovia, CA 91016

Samples Received
30-jun-2005 17:13:27

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2506300315	SITE 1 INFLOW TO TJ POND 1				
06/30/05		Fecal Coliform Bacteria	50		MPN/100 mL	2.0
07/07/05		Kjeldahl Nitrogen	0.24		mg/l	0.20
06/30/05		Nitrate as NO3 by IC (calc)	20	45	mg/l	0.88
06/30/05		Nitrate as Nitrogen by IC	4.6	10	mg/l	0.20
06/30/05		Orthophosphate-P	0.024		mg/l	0.010
07/06/05		Silica	34		mg/l	0.50
06/30/05		Total Coliform Bacteria	2400		MPN/100 mL	2.0
07/06/05		Total phosphorus-P	0.042		mg/l	0.010
07/01/05		Turbidity	0.20		NTU	0.050
	2506300321	SITE 1 INFLOW TO TJ POND 2				
06/30/05		Fecal Coliform Bacteria	17		MPN/100 mL	2.0
07/07/05		Kjeldahl Nitrogen	0.21		mg/l	0.20
06/30/05		Nitrate as NO3 by IC (calc)	21	45	mg/l	0.88
06/30/05		Nitrate as Nitrogen by IC	4.7	10	mg/l	0.20
06/30/05		Orthophosphate-P	0.024		mg/l	0.010
07/06/05		Silica	34		mg/l	0.50
06/30/05		Total Coliform Bacteria	3500		MPN/100 mL	2.0
07/06/05		Total phosphorus-P	0.012		mg/l	0.010
07/01/05		Turbidity	0.30		NTU	0.050
	2506300322	SITE 2 OUTFLOW FROM TJ POND 1				
06/30/05		Fecal Coliform Bacteria	170		MPN/100 mL	2.0
06/30/05		Nitrate as NO3 by IC (calc)	12	45	mg/l	0.88
06/30/05		Nitrate as Nitrogen by IC	2.6	10	mg/l	0.20
06/30/05		Orthophosphate-P	0.028		mg/l	0.010
07/06/05		Silica	30		mg/l	0.50

SUMMARY OF POSITIVE DATA ONLY.



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Laboratory
Hits Report
#151123

Applied Research Dept, MWH (Darren
Giles)
Darren Giles
327 West Maple Avenue
Monrovia, CA 91016

Samples Received
30-jun-2005 17:13:27

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2506300322	SITE 2 OUTFLOW FROM TJ POND 1				
06/30/05		Total Coliform Bacteria	16000		MPN/100 mL	2.0
07/06/05		Total phosphorus-P	0.025		mg/l	0.010
07/01/05		Turbidity	0.25		NTU	0.050
	2506300323	SITE 2 OUTFLOW FROM TJ POND 2				
06/30/05		Fecal Coliform Bacteria	170		MPN/100 mL	2.0
07/07/05		Kjeldahl Nitrogen	0.34		mg/l	0.20
06/30/05		Nitrate as NO3 by IC (calc)	12	45	mg/l	0.88
06/30/05		Nitrate as Nitrogen by IC	2.6	10	mg/l	0.20
06/30/05		Orthophosphate-P	0.029		mg/l	0.010
07/06/05		Silica	30		mg/l	0.50
06/30/05		Total Coliform Bacteria	2400		MPN/100 mL	2.0
07/06/05		Total phosphorus-P	0.040		mg/l	0.010
07/01/05		Turbidity	0.25		NTU	0.050
	2506300324	SITE 3 BIG TJ WASH 1				
06/30/05		Fecal Coliform Bacteria	2		MPN/100 mL	2.0
07/06/05		Silica	26		mg/l	0.50
06/30/05		Total Coliform Bacteria	16000		MPN/100 mL	2.0
07/06/05		Total phosphorus-P	0.013		mg/l	0.010
07/01/05		Turbidity	0.20		NTU	0.050
	2506300325	SITE 3 BIG TJ WASH 2				
06/30/05		Fecal Coliform Bacteria	13		MPN/100 mL	2.0
07/07/05		Kjeldahl Nitrogen	0.36		mg/l	0.20
07/06/05		Silica	26		mg/l	0.50

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Hits Report
#151123

Applied Research Dept, MWH (Darren
Giles)
Darren Giles
327 West Maple Avenue
Monrovia, CA 91016

Samples Received
30-jun-2005 17:13:27

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2506300325	SITE 3 BIG TJ WASH 2				
06/30/05	Total Coliform Bacteria		2200		MPN/100 mL	2.0
07/01/05	Turbidity		0.30		NTU	0.050
	2506300326	SITE 4 HAINES CYN CRK 1				
06/30/05	Fecal Coliform Bacteria		80		MPN/100 mL	2.0
07/07/05	Kjeldahl Nitrogen		0.23		mg/l	0.20
06/30/05	Nitrate as NO3 by IC (calc)		10	45	mg/l	0.88
06/30/05	Nitrate as Nitrogen by IC		2.3	10	mg/l	0.20
06/30/05	Orthophosphate-P		0.032		mg/l	0.010
07/06/05	Silica		29		mg/l	0.50
06/30/05	Total Coliform Bacteria		2400		MPN/100 mL	2.0
07/06/05	Total phosphorus-P		0.033		mg/l	0.010
07/01/05	Turbidity		0.25		NTU	0.050
	2506300327	SITE 4 HAINES CYN CRK 2				
06/30/05	Fecal Coliform Bacteria		110		MPN/100 mL	2.0
07/07/05	Kjeldahl Nitrogen		0.21		mg/l	0.20
07/01/05	Nitrate as NO3 by IC (calc)		9.9	45	mg/l	0.88
07/01/05	Nitrate as Nitrogen by IC		2.3	10	mg/l	0.20
06/30/05	Orthophosphate-P		0.031		mg/l	0.010
07/06/05	Silica		30		mg/l	0.50
06/30/05	Total Coliform Bacteria		900		MPN/100 mL	2.0
07/06/05	Total phosphorus-P		0.030		mg/l	0.010
07/01/05	Turbidity		0.20		NTU	0.050

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**Laboratory
Data Report**
#151123

Applied Research Dept, MWH (Darren
Giles)
Darren Giles
327 West Maple Avenue
Monrovia, CA 91016

Samples Received
06/30/05

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
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SITE 1 INFLOW TO TJ POND 1 (2506300315) Sampled on 06/30/05 12:30

06/30/05 15:33			(ML/SM9221C)	Fecal Coliform Bacteria	50	MPNM	2.0	1
07/05/05 00:00	277837		(ML/EPA 547)	Glyphosate	ND	ug/l	6.0	1
07/06/05 00:00	277821		(ML/EPA 350.1)	Ammonia Nitrogen	ND	mg/l	0.050	1
06/30/05 21:20	277404		(ML/EPA 300.0)	Nitrite, Nitrogen by IC	ND	mg/l	0.20	2
06/30/05 21:20	277407		(E 300.0/SW9056)	Nitrate as Nitrogen by IC	4.6	mg/l	0.20	2
06/30/05 21:20	277399		(ML/EPA 300.0)	Nitrate as NO3 by IC (calc)	20	mg/l	0.88	2
06/30/05 18:30	277413		(4500P-E/365.2)	Orthophosphate-P	0.024	mg/l	0.010	1
07/06/05 00:00	277772		(EPA/ML 200.7)	Silica	34	mg/l	0.50	1
07/06/05 17:33	278169		(S4500PE/ 365.1)	Total phosphorus-P	0.042	mg/l	0.010	1
07/07/05 16:59	278159		(ML/EPA 351.2)	Kjeldahl Nitrogen	0.24	mg/l	0.20	1
06/30/05 15:33			(ML/SM9221B)	Total Coliform Bacteria	2400	MPNM	2.0	1
07/01/05 19:49	277688		(ML/EPA 180.1)	Turbidity	0.20	NTU	0.050	1

Diazinon/Chlorpyrifos by GCMS

07/15/05 00:00			(EPA 625 MODSUB)	Diazinon	ND	ng/l	5.0	1
07/15/05 00:00			(EPA 625 MODSUB)	Bolstar (Sulprofos)	ND	ng/l	10	1
07/15/05 00:00			(EPA 625 MODSUB)	Chlorpyrifos	ND	ng/l	5.0	1
07/15/05 00:00			(EPA 625 MODSUB)	Demeton	ND	ng/l	10	1
07/15/05 00:00			(EPA 625 MODSUB)	Dichlorvos	ND	ng/l	10	1
07/15/05 00:00			(EPA 625 MODSUB)	Disulfoton	ND	ng/l	10	1
07/15/05 00:00			(EPA 625 MODSUB)	Dimethoate	ND	ng/l	5.0	1
07/15/05 00:00			(EPA 625 MODSUB)	Ethoprop (Ethoprofos)	ND	ng/l	10	1
07/15/05 00:00			(EPA 625 MODSUB)	Fenchlorophos (Ronnell)	ND	ng/l	10	1
07/15/05 00:00			(EPA 625 MODSUB)	Fensulfothion	ND	ng/l	10	1
07/15/05 00:00			(EPA 625 MODSUB)	Fenthion	ND	ng/l	10	1
07/15/05 00:00			(EPA 625 MODSUB)	Merphos	ND	ng/l	10	1
07/15/05 00:00			(EPA 625 MODSUB)	Mevinphos (Phosdrin)	ND	ng/l	10	1
07/15/05 00:00			(EPA 625 MODSUB)	Malathion	ND	ng/l	5.0	1
07/15/05 00:00			(EPA 625 MODSUB)	Parathion-methyl	ND	ng/l	10	1
07/15/05 00:00			(EPA 625 MODSUB)	Phorate	ND	ng/l	10	1
07/15/05 00:00			(EPA 625 MODSUB)	Tokuthion	ND	ng/l	10	1



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**Laboratory
Data Report**
#151123

Applied Research Dept, MWH (Darren
Giles)
(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
	07/15/05 00:00		(EPA 625 MODSUB)	Tetrachlorovinphos (Stirophos)	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Trichloronate	ND	ng/l	10	1
SITE 1 INFLOW TO TJ POND 2 (2506300321)					Sampled on 06/30/05 12:40			
	06/30/05 15:38		(ML/SM9221C)	Fecal Coliform Bacteria	17	MPNM	2.0	1
	07/05/05 00:00	277837	(ML/EPA 547)	Glyphosate	ND	ug/l	6.0	1
	07/06/05 00:00	277821	(ML/EPA 350.1)	Ammonia Nitrogen	ND	mg/l	0.050	1
	06/30/05 21:32	277404	(ML/EPA 300.0)	Nitrite, Nitrogen by IC	ND	mg/l	0.20	2
	06/30/05 21:32	277407	(E 300.0/SW9056)	Nitrate as Nitrogen by IC	4.7	mg/l	0.20	2
	06/30/05 21:32	277399	(ML/EPA 300.0)	Nitrate as NO3 by IC (calc)	21	mg/l	0.88	2
	06/30/05 18:30	277413	(4500P-E/365.2)	Orthophosphate-P	0.024	mg/l	0.010	1
	07/06/05 00:00	277772	(EPA/ML 200.7)	Silica	34	mg/l	0.50	1
	07/06/05 17:33	278169	(S4500PE/ 365.1)	Total phosphorus-P	0.012	mg/l	0.010	1
	07/07/05 16:59	278159	(ML/EPA 351.2)	Kjeldahl Nitrogen	0.21	mg/l	0.20	1
	06/30/05 15:38		(ML/SM9221B)	Total Coliform Bacteria	3500	MPNM	2.0	1
	07/01/05 19:49	277688	(ML/EPA 180.1)	Turbidity	0.30	NTU	0.050	1
Diazinon/Chlorpyrifos by GCMS								
	07/15/05 00:00		(EPA 625 MODSUB)	Diazinon	ND	ng/l	5.0	1
	07/15/05 00:00		(EPA 625 MODSUB)	Bolstar (Sulprofos)	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Chlorpyrifos	ND	ng/l	5.0	1
	07/15/05 00:00		(EPA 625 MODSUB)	Demeton	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Dichlorvos	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Disulfoton	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Dimethoate	ND	ng/l	5.0	1
	07/15/05 00:00		(EPA 625 MODSUB)	Ethoprop (Ethoprofos)	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Fenchlorophos (Ronnell)	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Fensulfothion	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Fenthion	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Merphos	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Mevinphos (Phosdrin)	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Malathion	ND	ng/l	5.0	1
	07/15/05 00:00		(EPA 625 MODSUB)	Parathion-methyl	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Phorate	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Tokuthion	ND	ng/l	10	1



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**Laboratory
Data Report**
#151123

Applied Research Dept, MWH (Darren
Giles)
(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
	07/15/05 00:00		(EPA 625 MODSUB)	Tetrachlorovinphos (Stirophos)	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Trichloronate	ND	ng/l	10	1

SITE 2 OUTFLOW FROM TJ POND 1 (2506300322) Sampled on 06/30/05 11:00

06/30/05 15:49	(ML/SM9221C)	Fecal Coliform Bacteria	170	MPNM	2.0	1
07/05/05 00:00	277837 (ML/EPA 547)	Glyphosate	ND	ug/l	6.0	1
07/06/05 00:00	277821 (ML/EPA 350.1)	Ammonia Nitrogen	ND	mg/l	0.050	1
06/30/05 22:07	277404 (ML/EPA 300.0)	Nitrite, Nitrogen by IC	ND	mg/l	0.20	2
06/30/05 22:07	277407 (E 300.0/SW9056)	Nitrate as Nitrogen by IC	2.6	mg/l	0.20	2
06/30/05 22:07	277399 (ML/EPA 300.0)	Nitrate as NO3 by IC (calc)	12	mg/l	0.88	2
06/30/05 18:30	277413 (4500P-E/365.2)	Orthophosphate-P	0.028	mg/l	0.010	1
07/06/05 00:00	277772 (EPA/ML 200.7)	Silica	30	mg/l	0.50	1
07/06/05 17:33	278169 (S4500PE/ 365.1)	Total phosphorus-P	0.025	mg/l	0.010	1
07/07/05 16:59	278159 (ML/EPA 351.2)	Kjeldahl Nitrogen	ND	mg/l	0.20	1
06/30/05 15:49	(ML/SM9221B)	Total Coliform Bacteria	16000	MPNM	2.0	1
07/01/05 19:49	277688 (ML/EPA 180.1)	Turbidity	0.25	NTU	0.050	1

Diazinon/Chlorpyrifos by GCMS

07/15/05 00:00	(EPA 625 MODSUB)	Diazinon	ND	ng/l	5.0	1
07/15/05 00:00	(EPA 625 MODSUB)	Bolstar (Sulprofos)	ND	ng/l	10	1
07/15/05 00:00	(EPA 625 MODSUB)	Chlorpyrifos	ND	ng/l	5.0	1
07/15/05 00:00	(EPA 625 MODSUB)	Demeton	ND	ng/l	10	1
07/15/05 00:00	(EPA 625 MODSUB)	Dichlorvos	ND	ng/l	10	1
07/15/05 00:00	(EPA 625 MODSUB)	Disulfoton	ND	ng/l	10	1
07/15/05 00:00	(EPA 625 MODSUB)	Dimethoate	ND	ng/l	5.0	1
07/15/05 00:00	(EPA 625 MODSUB)	Ethoprop (Ethoprofos)	ND	ng/l	10	1
07/15/05 00:00	(EPA 625 MODSUB)	Fenchlorophos (Ronnell)	ND	ng/l	10	1
07/15/05 00:00	(EPA 625 MODSUB)	Fensulfothion	ND	ng/l	10	1
07/15/05 00:00	(EPA 625 MODSUB)	Fenthion	ND	ng/l	10	1
07/15/05 00:00	(EPA 625 MODSUB)	Merphos	ND	ng/l	10	1
07/15/05 00:00	(EPA 625 MODSUB)	Mevinphos (Phosdrin)	ND	ng/l	10	1
07/15/05 00:00	(EPA 625 MODSUB)	Malathion	ND	ng/l	5.0	1
07/15/05 00:00	(EPA 625 MODSUB)	Parathion-methyl	ND	ng/l	10	1
07/15/05 00:00	(EPA 625 MODSUB)	Phorate	ND	ng/l	10	1
07/15/05 00:00	(EPA 625 MODSUB)	Tokuthion	ND	ng/l	10	1



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Laboratory
Data Report
#151123

Applied Research Dept, MWH (Darren
Giles)
(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
	07/15/05 00:00		(EPA 625 MODSUB)	Tetrachlorovinphos (Stirophos)	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Trichloronate	ND	ng/l	10	1
SITE 2 OUTFLOW FROM TJ POND 2 (2506300323)					Sampled on 06/30/05 11:15			
	06/30/05 15:53		(ML/SM9221C)	Fecal Coliform Bacteria	170	MPNM	2.0	1
	07/05/05 00:00	277837	(ML/EPA 547)	Glyphosate	ND	ug/l	6.0	1
	07/06/05 00:00	277821	(ML/EPA 350.1)	Ammonia Nitrogen	ND	mg/l	0.050	1
	06/30/05 22:41	277404	(ML/EPA 300.0)	Nitrite, Nitrogen by IC	ND	mg/l	0.20	2
	06/30/05 22:41	277407	(E 300.0/SW9056)	Nitrate as Nitrogen by IC	2.6	mg/l	0.20	2
	06/30/05 22:41	277399	(ML/EPA 300.0)	Nitrate as NO3 by IC (calc)	12	mg/l	0.88	2
	06/30/05 18:30	277413	(4500P-E/365.2)	Orthophosphate-P	0.029	mg/l	0.010	1
	07/06/05 00:00	277772	(EPA/ML 200.7)	Silica	30	mg/l	0.50	1
	07/06/05 17:33	278169	(S4500PE/ 365.1)	Total phosphorus-P	0.040	mg/l	0.010	1
	07/07/05 16:59	278159	(ML/EPA 351.2)	Kjeldahl Nitrogen	0.34	mg/l	0.20	1
	06/30/05 15:53		(ML/SM9221B)	Total Coliform Bacteria	2400	MPNM	2.0	1
	07/01/05 19:49	277688	(ML/EPA 180.1)	Turbidity	0.25	NTU	0.050	1
Diazinon/Chlorpyrifos by GCMS								
	07/15/05 00:00		(EPA 625 MODSUB)	Diazinon	ND	ng/l	5.0	1
	07/15/05 00:00		(EPA 625 MODSUB)	Bolstar (Sulprofos)	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Chlorpyrifos	ND	ng/l	5.0	1
	07/15/05 00:00		(EPA 625 MODSUB)	Demeton	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Dichlorvos	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Disulfoton	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Dimethoate	ND	ng/l	5.0	1
	07/15/05 00:00		(EPA 625 MODSUB)	Ethoprop (Ethoprofos)	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Fenchlorophos (Ronnell)	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Fensulfothion	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Fenthion	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Merphos	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Mevinphos (Phosdrin)	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Malathion	ND	ng/l	5.0	1
	07/15/05 00:00		(EPA 625 MODSUB)	Parathion-methyl	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Phorate	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Tokuthion	ND	ng/l	10	1



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Data Report
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Applied Research Dept, MWH (Darren
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(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
	07/15/05 00:00		(EPA 625 MODSUB)	Tetrachlorovinphos (Stirophos)	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Trichloronate	ND	ng/l	10	1
SITE 3 BIG TJ WASH 1 (2506300324) Sampled on 06/30/05 13:30								
	06/30/05 15:57		(ML/SM9221C)	Fecal Coliform Bacteria	2	MPNM	2.0	1
	07/05/05 00:00	277837	(ML/EPA 547)	Glyphosate	ND	ug/l	6.0	1
	07/06/05 00:00	277821	(ML/EPA 350.1)	Ammonia Nitrogen	ND	mg/l	0.050	1
	06/30/05 22:53	277404	(ML/EPA 300.0)	Nitrite, Nitrogen by IC	ND	mg/l	0.20	2
	06/30/05 22:53	277407	(E 300.0/SW9056)	Nitrate as Nitrogen by IC	ND	mg/l	0.20	2
	06/30/05 22:53	277399	(ML/EPA 300.0)	Nitrate as NO3 by IC (calc)	ND	mg/l	0.88	2
	06/30/05 18:30	277413	(4500P-E/365.2)	Orthophosphate-P	ND	mg/l	0.010	1
	07/06/05 00:00	277772	(EPA/ML 200.7)	Silica	26	mg/l	0.50	1
	07/06/05 17:33	278169	(S4500PE/ 365.1)	Total phosphorus-P	0.013	mg/l	0.010	1
	07/07/05 16:59	278159	(ML/EPA 351.2)	Kjeldahl Nitrogen	ND	mg/l	0.20	1
	06/30/05 15:57		(ML/SM9221B)	Total Coliform Bacteria	16000	MPNM	2.0	1
	07/01/05 19:49	277688	(ML/EPA 180.1)	Turbidity	0.20	NTU	0.050	1
Diazinon/Chlorpyrifos by GCMS								
	07/15/05 00:00		(EPA 625 MODSUB)	Diazinon	ND	ng/l	5.0	1
	07/15/05 00:00		(EPA 625 MODSUB)	Bolstar (Sulprofos)	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Chlorpyrifos	ND	ng/l	5.0	1
	07/15/05 00:00		(EPA 625 MODSUB)	Demeton	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Dichlorvos	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Disulfoton	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Dimethoate	ND	ng/l	5.0	1
	07/15/05 00:00		(EPA 625 MODSUB)	Ethoprop (Ethoprophos)	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Fenchlorophos (Ronnell)	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Fensulfothion	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Fenthion	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Merphos	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Mevinphos (Phosdrin)	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Malathion	ND	ng/l	5.0	1
	07/15/05 00:00		(EPA 625 MODSUB)	Parathion-methyl	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Phorate	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Tokuthion	ND	ng/l	10	1



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Applied Research Dept, MWH (Darren
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(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
	07/15/05 00:00		(EPA 625 MODSUB)	Tetrachlorovinphos (Stirophos)	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Trichloronate	ND	ng/l	10	1
SITE 3 BIG TJ WASH 2 (2506300325) Sampled on 06/30/05 13:40								
	06/30/05 16:01		(ML/SM9221C)	Fecal Coliform Bacteria	13	MPNM	2.0	1
	07/05/05 00:00	277837	(ML/EPA 547)	Glyphosate	ND	ug/l	6.0	1
	07/06/05 00:00	277832	(ML/EPA 350.1)	Ammonia Nitrogen	ND	mg/l	0.050	1
	06/30/05 23:05	277404	(ML/EPA 300.0)	Nitrite, Nitrogen by IC	ND	mg/l	0.20	2
	06/30/05 23:05	277407	(E 300.0/SW9056)	Nitrate as Nitrogen by IC	ND	mg/l	0.20	2
	07/07/05 22:51		(ML/EPA 300.0)	Nitrate as NO3 by IC (calc)	ND	mg/l	0.44	1
	06/30/05 18:30	277413	(4500P-E/365.2)	Orthophosphate-P	ND	mg/l	0.010	1
	07/06/05 00:00	277772	(EPA/ML 200.7)	Silica	26	mg/l	0.50	1
	07/06/05 17:33	278169	(S4500PE/ 365.1)	Total phosphorus-P	ND	mg/l	0.010	1
	07/07/05 16:59	278159	(ML/EPA 351.2)	Kjeldahl Nitrogen	0.36	mg/l	0.20	1
	06/30/05 16:01		(ML/SM9221B)	Total Coliform Bacteria	2200	MPNM	2.0	1
	07/01/05 19:49	277688	(ML/EPA 180.1)	Turbidity	0.30	NTU	0.050	1
Diazinon/Chlorpyrifos by GCMS								
	07/15/05 00:00		(EPA 625 MODSUB)	Diazinon	ND	ng/l	5.0	1
	07/15/05 00:00		(EPA 625 MODSUB)	Bolstar (Sulprofos)	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Chlorpyrifos	ND	ng/l	5.0	1
	07/15/05 00:00		(EPA 625 MODSUB)	Demeton	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Dichlorvos	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Disulfoton	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Dimethoate	ND	ng/l	5.0	1
	07/15/05 00:00		(EPA 625 MODSUB)	Ethoprop (Ethoprofos)	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Fenchlorophos (Ronnell)	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Fensulfothion	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Fenthion	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Merphos	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Mevinphos (Phosdrin)	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Malathion	ND	ng/l	5.0	1
	07/15/05 00:00		(EPA 625 MODSUB)	Parathion-methyl	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Phorate	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Tokuthion	ND	ng/l	10	1



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#151123

Applied Research Dept, MWH (Darren
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(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
	07/15/05 00:00		(EPA 625 MODSUB)	Tetrachlorovinphos (Stirophos)	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Trichloronate	ND	ng/l	10	1
SITE 4 HAINES CYN CRK 1 (2506300326)					Sampled on 06/30/05 10:00			
	06/30/05 16:06		(ML/SM9221C)	Fecal Coliform Bacteria	80	MPNM	2.0	1
	07/05/05 00:00	277837	(ML/EPA 547)	Glyphosate	ND	ug/l	6.0	1
	07/06/05 00:00	277832	(ML/EPA 350.1)	Ammonia Nitrogen	ND	mg/l	0.050	1
	06/30/05 23:16	277404	(ML/EPA 300.0)	Nitrite, Nitrogen by IC	ND	mg/l	0.20	2
	06/30/05 23:16	277407	(E 300.0/SW9056)	Nitrate as Nitrogen by IC	2.3	mg/l	0.20	2
	06/30/05 23:16	277399	(ML/EPA 300.0)	Nitrate as NO3 by IC (calc)	10	mg/l	0.88	2
	06/30/05 18:30	277413	(4500P-E/365.2)	Orthophosphate-P	0.032	mg/l	0.010	1
	07/06/05 00:00	277772	(EPA/ML 200.7)	Silica	29	mg/l	0.50	1
	07/06/05 17:33	278169	(S4500PE/ 365.1)	Total phosphorus-P	0.033	mg/l	0.010	1
	07/07/05 16:59	278159	(ML/EPA 351.2)	Kjeldahl Nitrogen	0.23	mg/l	0.20	1
	06/30/05 16:06		(ML/SM9221B)	Total Coliform Bacteria	2400	MPNM	2.0	1
	07/01/05 19:21	277687	(ML/EPA 180.1)	Turbidity	0.25	NTU	0.050	1
Diazinon/Chlorpyrifos by GCMS								
	07/15/05 00:00		(EPA 625 MODSUB)	Diazinon	ND	ng/l	5.0	1
	07/15/05 00:00		(EPA 625 MODSUB)	Bolstar (Sulprofos)	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Chlorpyrifos	ND	ng/l	5.0	1
	07/15/05 00:00		(EPA 625 MODSUB)	Demeton	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Dichlorvos	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Disulfoton	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Dimethoate	ND	ng/l	5.0	1
	07/15/05 00:00		(EPA 625 MODSUB)	Ethoprop (Ethoprofos)	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Fenchlorophos (Ronnell)	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Fensulfothion	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Fenthion	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Merphos	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Mevinphos (Phosdrin)	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Malathion	ND	ng/l	5.0	1
	07/15/05 00:00		(EPA 625 MODSUB)	Parathion-methyl	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Phorate	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Tokuthion	ND	ng/l	10	1



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Applied Research Dept, MWH (Darren
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(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
	07/15/05 00:00		(EPA 625 MODSUB)	Tetrachlorovinphos (Stiropfos)	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Trichloronate	ND	ng/l	10	1

SITE 4 HAINES CYN CRK 2 (2506300327) Sampled on 06/30/05 10:15

06/30/05 16:11	(ML/SM9221C)	Fecal Coliform Bacteria	110	MPNM	2.0	1
07/05/05 00:00	277837 (ML/EPA 547)	Glyphosate	ND	ug/l	6.0	1
07/06/05 00:00	277832 (ML/EPA 350.1)	Ammonia Nitrogen	ND	mg/l	0.050	1
07/01/05 02:57	277405 (ML/EPA 300.0)	Nitrite, Nitrogen by IC	ND	mg/l	0.20	2
07/01/05 02:57	277408 (E 300.0/SW9056)	Nitrate as Nitrogen by IC	2.3	mg/l	0.20	2
07/01/05 02:57	277400 (ML/EPA 300.0)	Nitrate as NO3 by IC (calc)	9.9	mg/l	0.88	2
06/30/05 18:30	277413 (4500P-E/365.2)	Orthophosphate-P	0.031	mg/l	0.010	1
07/06/05 00:00	277772 (EPA/ML 200.7)	Silica	30	mg/l	0.50	1
07/06/05 17:33	278169 (S4500PE/ 365.1)	Total phosphorus-P	0.030	mg/l	0.010	1
07/07/05 16:59	278159 (ML/EPA 351.2)	Kjeldahl Nitrogen	0.21	mg/l	0.20	1
06/30/05 16:11	(ML/SM9221B)	Total Coliform Bacteria	900	MPNM	2.0	1
07/01/05 19:21	277687 (ML/EPA 180.1)	Turbidity	0.20	NTU	0.050	1

Diazinon/Chlorpyrifos by GCMS

07/15/05 00:00	(EPA 625 MODSUB)	Diazinon	ND	ng/l	5.0	1
07/15/05 00:00	(EPA 625 MODSUB)	Bolstar (Sulprofos)	ND	ng/l	10	1
07/15/05 00:00	(EPA 625 MODSUB)	Chlorpyrifos	ND	ng/l	5.0	1
07/15/05 00:00	(EPA 625 MODSUB)	Demeton	ND	ng/l	10	1
07/15/05 00:00	(EPA 625 MODSUB)	Dichlorvos	ND	ng/l	10	1
07/15/05 00:00	(EPA 625 MODSUB)	Disulfoton	ND	ng/l	10	1
07/15/05 00:00	(EPA 625 MODSUB)	Dimethoate	ND	ng/l	5.0	1
07/15/05 00:00	(EPA 625 MODSUB)	Ethoprop (Ethoprophos)	ND	ng/l	10	1
07/15/05 00:00	(EPA 625 MODSUB)	Fenchlorophos (Ronnell)	ND	ng/l	10	1
07/15/05 00:00	(EPA 625 MODSUB)	Pensulfotion	ND	ng/l	10	1
07/15/05 00:00	(EPA 625 MODSUB)	Fenthion	ND	ng/l	10	1
07/15/05 00:00	(EPA 625 MODSUB)	Merphos	ND	ng/l	10	1
07/15/05 00:00	(EPA 625 MODSUB)	Mevinphos (Phosdrin)	ND	ng/l	10	1
07/15/05 00:00	(EPA 625 MODSUB)	Malathion	ND	ng/l	5.0	1
07/15/05 00:00	(EPA 625 MODSUB)	Parathion-methyl	ND	ng/l	10	1
07/15/05 00:00	(EPA 625 MODSUB)	Phorate	ND	ng/l	10	1
07/15/05 00:00	(EPA 625 MODSUB)	Tokuthion	ND	ng/l	10	1



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#151123**

Applied Research Dept, MWH (Darren
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(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
	07/15/05 00:00		(EPA 625 MODSUB)	Tetrachlorovinphos (Stiropfos)	ND	ng/l	10	1
	07/15/05 00:00		(EPA 625 MODSUB)	Trichloronate	ND	ng/l	10	1



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Laboratory
QC Summary
#151123

Applied Research Dept, MWH (Darren
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QC Ref #277399 - Nitrate as NO3 by IC (calc) Analysis Date: 06/30/2005

2506300315	SITE 1 INFLOW TO TJ POND Analyzed by: gdt
2506300321	SITE 1 INFLOW TO TJ POND Analyzed by: gdt
2506300322	SITE 2 OUTFLOW FROM TJ PO Analyzed by: gdt
2506300323	SITE 2 OUTFLOW FROM TJ PO Analyzed by: gdt
2506300324	SITE 3 BIG TJ WASH 1 Analyzed by: gdt
2506300326	SITE 4 HAINES CYN CRK 1 Analyzed by: gdt

QC Ref #277400 - Nitrate as NO3 by IC (calc) Analysis Date: 07/01/2005

2506300327	SITE 4 HAINES CYN CRK 2 Analyzed by: gdt
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QC Ref #277404 - Nitrite, Nitrogen by IC Analysis Date: 06/30/2005

2506300315	SITE 1 INFLOW TO TJ POND Analyzed by: gdt
2506300321	SITE 1 INFLOW TO TJ POND Analyzed by: gdt
2506300322	SITE 2 OUTFLOW FROM TJ PO Analyzed by: gdt
2506300323	SITE 2 OUTFLOW FROM TJ PO Analyzed by: gdt
2506300324	SITE 3 BIG TJ WASH 1 Analyzed by: gdt
2506300325	SITE 3 BIG TJ WASH 2 Analyzed by: gdt
2506300326	SITE 4 HAINES CYN CRK 1 Analyzed by: gdt

QC Ref #277405 - Nitrite, Nitrogen by IC Analysis Date: 07/01/2005

2506300327	SITE 4 HAINES CYN CRK 2 Analyzed by: gdt
------------	--

QC Ref #277407 - Nitrate as Nitrogen by IC Analysis Date: 06/30/2005

2506300315	SITE 1 INFLOW TO TJ POND Analyzed by: gdt
2506300321	SITE 1 INFLOW TO TJ POND Analyzed by: gdt
2506300322	SITE 2 OUTFLOW FROM TJ PO Analyzed by: gdt
2506300323	SITE 2 OUTFLOW FROM TJ PO Analyzed by: gdt
2506300324	SITE 3 BIG TJ WASH 1 Analyzed by: gdt
2506300325	SITE 3 BIG TJ WASH 2 Analyzed by: gdt
2506300326	SITE 4 HAINES CYN CRK 1 Analyzed by: gdt



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Laboratory
QC Summary
#151123

Applied Research Dept, MWH (Darren
Giles)
(continued)

QC Ref #277408 - Nitrate as Nitrogen by IC Analysis Date: 07/01/2005

2506300327 SITE 4 HAINES CYN CRK 2 Analyzed by: gdt

QC Ref #277413 - Orthophosphate-P Analysis Date: 06/30/2005

2506300315 SITE 1 INFLOW TO TJ POND Analyzed by: jle
2506300321 SITE 1 INFLOW TO TJ POND Analyzed by: jle
2506300322 SITE 2 OUTFLOW FROM TJ PO Analyzed by: jle
2506300323 SITE 2 OUTFLOW FROM TJ PO Analyzed by: jle
2506300324 SITE 3 BIG TJ WASH 1 Analyzed by: jle
2506300325 SITE 3 BIG TJ WASH 2 Analyzed by: jle
2506300326 SITE 4 HAINES CYN CRK 1 Analyzed by: jle
2506300327 SITE 4 HAINES CYN CRK 2 Analyzed by: jle

QC Ref #277687 - Turbidity Analysis Date: 07/01/2005

2506300326 SITE 4 HAINES CYN CRK 1 Analyzed by: dyh
2506300327 SITE 4 HAINES CYN CRK 2 Analyzed by: dyh

QC Ref #277688 - Turbidity Analysis Date: 07/01/2005

2506300315 SITE 1 INFLOW TO TJ POND Analyzed by: dyh
2506300321 SITE 1 INFLOW TO TJ POND Analyzed by: dyh
2506300322 SITE 2 OUTFLOW FROM TJ PO Analyzed by: dyh
2506300323 SITE 2 OUTFLOW FROM TJ PO Analyzed by: dyh
2506300324 SITE 3 BIG TJ WASH 1 Analyzed by: dyh
2506300325 SITE 3 BIG TJ WASH 2 Analyzed by: dyh

QC Ref #277772 - Silica Analysis Date: 07/06/2005

2506300315 SITE 1 INFLOW TO TJ POND Analyzed by: wbh
2506300321 SITE 1 INFLOW TO TJ POND Analyzed by: wbh
2506300322 SITE 2 OUTFLOW FROM TJ PO Analyzed by: wbh
2506300323 SITE 2 OUTFLOW FROM TJ PO Analyzed by: wbh
2506300324 SITE 3 BIG TJ WASH 1 Analyzed by: wbh
2506300325 SITE 3 BIG TJ WASH 2 Analyzed by: wbh



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**Laboratory
QC Summary**
#151123

Applied Research Dept, MWH (Darren
Giles)
(continued)

2506300326 SITE 4 HAINES CYN CRK 1 Analyzed by: wbh
2506300327 SITE 4 HAINES CYN CRK 2 Analyzed by: wbh

QC Ref #277821 - Ammonia Nitrogen

Analysis Date: 07/06/2005

2506300315 SITE 1 INFLOW TO TJ POND Analyzed by: nina
2506300321 SITE 1 INFLOW TO TJ POND Analyzed by: nina
2506300322 SITE 2 OUTFLOW FROM TJ PO Analyzed by: nina
2506300323 SITE 2 OUTFLOW FROM TJ PO Analyzed by: nina
2506300324 SITE 3 BIG TJ WASH 1 Analyzed by: nina

QC Ref #277832 - Ammonia Nitrogen

Analysis Date: 07/06/2005

2506300325 SITE 3 BIG TJ WASH 2 Analyzed by: nina
2506300326 SITE 4 HAINES CYN CRK 1 Analyzed by: nina
2506300327 SITE 4 HAINES CYN CRK 2 Analyzed by: nina

QC Ref #277837 - Glyphosate

Analysis Date: 07/05/2005

2506300315 SITE 1 INFLOW TO TJ POND Analyzed by: phk
2506300321 SITE 1 INFLOW TO TJ POND Analyzed by: phk
2506300322 SITE 2 OUTFLOW FROM TJ PO Analyzed by: phk
2506300323 SITE 2 OUTFLOW FROM TJ PO Analyzed by: phk
2506300324 SITE 3 BIG TJ WASH 1 Analyzed by: phk
2506300325 SITE 3 BIG TJ WASH 2 Analyzed by: phk
2506300326 SITE 4 HAINES CYN CRK 1 Analyzed by: phk
2506300327 SITE 4 HAINES CYN CRK 2 Analyzed by: phk

QC Ref #278159 - Kjeldahl Nitrogen

Analysis Date: 07/07/2005

2506300315 SITE 1 INFLOW TO TJ POND Analyzed by: mal
2506300321 SITE 1 INFLOW TO TJ POND Analyzed by: mal
2506300322 SITE 2 OUTFLOW FROM TJ PO Analyzed by: mal
2506300323 SITE 2 OUTFLOW FROM TJ PO Analyzed by: mal
2506300324 SITE 3 BIG TJ WASH 1 Analyzed by: mal
2506300325 SITE 3 BIG TJ WASH 2 Analyzed by: mal
2506300326 SITE 4 HAINES CYN CRK 1 Analyzed by: mal
2506300327 SITE 4 HAINES CYN CRK 2 Analyzed by: mal



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Laboratory
QC Summary
#151123

Applied Research Dept, MWH (Darren
Giles)
(continued)

QC Ref #278169 - Total phosphorus-P

Analysis Date: 07/06/2005

2506300315	SITE 1 INFLOW TO TJ POND Analyzed by: mal
2506300321	SITE 1 INFLOW TO TJ POND Analyzed by: mal
2506300322	SITE 2 OUTFLOW FROM TJ PO Analyzed by: mal
2506300323	SITE 2 OUTFLOW FROM TJ PO Analyzed by: mal
2506300324	SITE 3 BIG TJ WASH 1 Analyzed by: mal
2506300325	SITE 3 BIG TJ WASH 2 Analyzed by: mal
2506300326	SITE 4 HAINES CYN CRK 1 Analyzed by: mal
2506300327	SITE 4 HAINES CYN CRK 2 Analyzed by: mal



Applied Research Dept, MWH (Darren
Giles)

QC Ref #277404 Nitrite, Nitrogen by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 25	06300293	MGL	0.0	(0-0)	
LCS1	Nitrite, Nitrogen by IC	1.0	1.04	MGL	104.0	(90-110)	
LCS2	Nitrite, Nitrogen by IC	1.0	1.03	MGL	103.0	(90-110)	0.97
MBLK	Nitrite, Nitrogen by IC	ND	<0.10	MGL			
MS	Nitrite, Nitrogen by IC	1.0	0.993	MGL	99.3	(90-110)	
MSD	Nitrite, Nitrogen by IC	1.0	0.995	MGL	99.5	(90-110)	0.20

QC Ref #277405 Nitrite, Nitrogen by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 25	06300319	MGL	0.0	(0-0)	
LCS1	Nitrite, Nitrogen by IC	1.0	1.04	MGL	104.0	(90-110)	
LCS2	Nitrite, Nitrogen by IC	1.0	1.04	MGL	104.0	(90-110)	0.00
MBLK	Nitrite, Nitrogen by IC	ND	<0.10	MGL			
MS	Nitrite, Nitrogen by IC	1.0	1.02	MGL	102.0	(90-110)	
MSD	Nitrite, Nitrogen by IC	1.0	1.03	MGL	103.0	(90-110)	0.98

QC Ref #277407 Nitrate as Nitrogen by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 25	06300293	MGL	0.0	(0-0)	
LCS1	Nitrate as Nitrogen by IC	2.5	2.49	MGL	99.6	(90-110)	
LCS2	Nitrate as Nitrogen by IC	2.5	2.5	MGL	100.0	(90-110)	0.40
MBLK	Nitrate as Nitrogen by IC	ND	<0.10	MGL			
MS	Nitrate as Nitrogen by IC	2.5	2.42	MGL	96.8	(90-110)	
MSD	Nitrate as Nitrogen by IC	2.5	2.42	MGL	96.8	(90-110)	0.00

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only, batch control is based on LCS. Criteria for duplicates
are advisory only, unless otherwise specified in the method.



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Laboratory
QC Report
#151123

Applied Research Dept, MWH (Darren
Giles)
(continued)

QC Ref #277408 Nitrate as Nitrogen by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 25	06300319	MGL	0.0	(0-0)	
LCS1	Nitrate as Nitrogen by IC	2.5	2.5	MGL	100.0	(90-110)	
LCS2	Nitrate as Nitrogen by IC	2.5	2.51	MGL	100.4	(90-110)	0.40
MBLK	Nitrate as Nitrogen by IC	ND	<0.10	MGL			
MS	Nitrate as Nitrogen by IC	2.5	2.33	MGL	93.2	(90-110)	
MSD	Nitrate as Nitrogen by IC	2.5	2.37	MGL	94.8	(90-110)	1.7

QC Ref #277413 Orthophosphate-P

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 25	06300176	MGL		(0-0)	
LCS1	Orthophosphate-P	0.5	0.497	MGL	99.4	(90-110)	
LCS2	Orthophosphate-P	0.5	0.498	MGL	99.6	(90-110)	0.20
MBLK	Orthophosphate-P	ND	<0.010	MGL			
MS	Orthophosphate-P	0.5	0.513	MGL	102.6	(80-120)	
MSD	Orthophosphate-P	0.5	0.516	MGL	103.2	(80-120)	0.58

QC Ref #277687 Turbidity

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
DUP	Turbidity	0.111	0.112	NTU		(0-20)	0.9

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only, batch control is based on LCS. Criteria for duplicates
are advisory only, unless otherwise specified in the method.



Applied Research Dept, MWH (Darren
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(continued)

QC Ref #277688

Turbidity

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
DUP	Turbidity	0.023	0.025	NTU		(0-20)	8.3

QC Ref #277772

Silica

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 25	06300195	MGL		(0-0)	
LCS1	Silica	21.4	20.8	MGL	97.2	(85-115)	
LCS2	Silica	21.4	21.0	MGL	98.1	(85-115)	0.96
MBLK	Silica	ND	<0.50	MGL			
MS	Silica	21.4	21.0	MGL	98.1	(70-130)	
MSD	Silica	21.4	20.8	MGL	97.2	(70-130)	0.96

QC Ref #277821

Ammonia Nitrogen

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 25	06300176	MGL		(0-0)	
LCS1	Ammonia Nitrogen	1.00	1.04	MGL	104.0	(90-110)	
LCS2	Ammonia Nitrogen	1.00	1.04	MGL	104.0	(90-110)	0.00
MBLK	Ammonia Nitrogen	ND	<0.050	MGL			
MS	Ammonia Nitrogen	1.00	1.06	MGL	106.0	(90-110)	
MSD	Ammonia Nitrogen	1.00	1.06	MGL	106.0	(90-110)	0.00

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only, batch control is based on LCS. Criteria for duplicates
are advisory only, unless otherwise specified in the method.



Applied Research Dept, MWH (Darren
Giles)
(continued)

QC Ref #277832

Ammonia Nitrogen

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 25	06300325	MGL		(0-0)	
LCS1	Ammonia Nitrogen	1.00	1.03	MGL	103.0	(90-110)	
LCS2	Ammonia Nitrogen	1.00	1.03	MGL	103.0	(90-110)	0.00
MBLK	Ammonia Nitrogen	ND	<0.050	MGL			
MS	Ammonia Nitrogen	1.00	1.01	MGL	101.0	(90-110)	
MSD	Ammonia Nitrogen	1.00	0.985	MGL	98.5	(90-110)	2.5

QC Ref #277837

Glyphosate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 25	06300274	UGL		(0-0)	
LCS1	Glyphosate	10	9.09	UGL	90.9	(70-130)	
MBLK	Glyphosate	ND	<6.0	UGL			
MS	Glyphosate	10	9.55	UGL	95.5	(70-130)	
MSD	Glyphosate	10	9.88	UGL	98.8	(70-130)	3.4

QC Ref #278159

Kjeldahl Nitrogen

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 25	06300321	MGL		(0-0)	
LCS1	Kjeldahl Nitrogen	4	4.20	MGL	105.0	(90-110)	
LCS2	Kjeldahl Nitrogen	4	3.80	MGL	95.0	(90-110)	10
MBLK	Kjeldahl Nitrogen	ND	<0.20	MGL			
MS	Kjeldahl Nitrogen	4	4.08	MGL	102.0	(90-110)	
MSD	Kjeldahl Nitrogen	4	3.94	MGL	98.5	(90-110)	3.5
RPD_LCS	Kjeldahl Nitrogen	105.000	95.000	MGL	10.0	(0-20)	
RPD_MS	Kjeldahl Nitrogen	102.000	98.500	MGL	3.5	(0-10)	

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only, batch control is based on LCS. Criteria for duplicates
are advisory only, unless otherwise specified in the method.



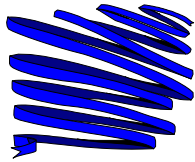
Applied Research Dept, MWH (Darren
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(continued)

QC Ref #278169

Total phosphorus-P

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 25	06300315	MGL		(0-0)	
LCS1	Total phosphorus-P	0.4	0.420	MGL	105.0	(90-110)	
LCS2	Total phosphorus-P	0.4	0.390	MGL	97.5	(90-110)	7.4
MBLK	Total phosphorus-P	ND	<0.010	MGL			
MS	Total phosphorus-P	0.4	0.390	MGL	97.5	(90-110)	
MSD	Total phosphorus-P	0.4	0.390	MGL	97.5	(90-110)	0.00
RPD_LCS	Total phosphorus-P	105.000	97.500	MGL	7.4	(0-10)	
RPD_MS	Total phosphorus-P	97.500	97.500	MGL	0.0	(0-10)	

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only, batch control is based on LCS. Criteria for duplicates
are advisory only, unless otherwise specified in the method.



CRG

Marine Laboratories, Inc.

2020 Del Amo Blvd. Suite 200, Torrance, CA 90501 • (310) 533-5190 • FAX (310) 533-5003 • mmercier@crglabs.com

July 18, 2005

MWH Laboratories
70 Royal Oaks Dr., Suite 100
Monrovia, CA 91016-3629

Re: CRG Project ID: P2502ay
 MWH Project: 151123
 MWH Sub PO: 99-17413

ATTN: Mr. Michael Lettona

CRG Laboratories is pleased to provide you with the enclosed analytical data report for your 151123 Project. According to the chain-of-custody, 8 wastewater samples were received intact and cool at CRG on June 5, 2005. Per your instructions, the samples were analyzed for:

- Organophosphorus Pesticides By GCMS Using EPA Method 625

Please don't hesitate to call if you have any questions and thank you very much for using our laboratory for your analytical needs.

Regards,
Misty B. Mercier
Project Manager

Reviewed and Approved _____

DATA REPORT

CRG Marine Laboratories, Inc.

2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

Organophosphorus Pesticides

Client: *MWH Laboratories*

CRG Project ID: *2502ay*

CRG ID#: 26191	Sample: 2506300315	SITE 1 INFLOW TO TJ POND 1	Date Sampled: 30-Jun-05 12:30
Replicate #: R1	Description: Project #151123 / PO #99-17413		Date Received: 05-Jul-05
Batch ID: 2502-14033	Matrix: Wastewater		Date Processed: 07-Jul-05
Instrument: GC/MS #2 Shimadzu QP2010	Analyst: D. Gonsman		Date Analyzed: 15-Jul-05

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DILUTION FACTOR	ACCEPTANCE RANGE
(PCB030)	Total	EPA 625	105	% Recovery			1	46 - 119%
(PCB112)	Total	EPA 625	102	% Recovery			1	52 - 123%
(PCB198)	Total	EPA 625	100	% Recovery			1	59 - 123%
(TCMX)	Total	EPA 625	103	% Recovery			1	40 - 110%
Bolstar (Sulprofos)	Total	EPA 625	ND	ng/L	10	20	1	NA
Chlorpyrifos	Total	EPA 625	ND	ng/L	5	10	1	NA
Demeton	Total	EPA 625	ND	ng/L	10	20	1	NA
Diazinon	Total	EPA 625	ND	ng/L	5	10	1	NA
Dichlorvos	Total	EPA 625	ND	ng/L	10	20	1	NA
Dimethoate	Total	EPA 625	ND	ng/L	5	10	1	NA
Disulfoton	Total	EPA 625	ND	ng/L	10	20	1	NA
Ethoprop (Ethoprofos)	Total	EPA 625	ND	ng/L	10	20	1	NA
Fenchlorphos (Ronnel)	Total	EPA 625	ND	ng/L	10	20	1	NA
Fensulfothion	Total	EPA 625	ND	ng/L	10	20	1	NA
Fenthion	Total	EPA 625	ND	ng/L	10	20	1	NA
Malathion	Total	EPA 625	ND	ng/L	5	10	1	NA
Merphos	Total	EPA 625	ND	ng/L	10	20	1	NA
Methyl Parathion	Total	EPA 625	ND	ng/L	10	20	1	NA
Mevinphos (Phosdrin)	Total	EPA 625	ND	ng/L	10	20	1	NA
Phorate	Total	EPA 625	ND	ng/L	10	20	1	NA
Tetrachlorvinphos (Stirofos)	Total	EPA 625	ND	ng/L	10	20	1	NA
Tokuthion	Total	EPA 625	ND	ng/L	10	20	1	NA
Trichloronate	Total	EPA 625	ND	ng/L	10	20	1	NA

MDL= Method Detection Limit (CFR 40 Part 136); RL= Minimum Level (SWRCB); E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261

26191 R1

CRG Marine Laboratories, Inc.

2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

Organophosphorus Pesticides

Client: *MWH Laboratories*

CRG Project ID: *2502ay*

CRG ID#: 26192	Sample: 2506300321	SITE 1 INFLOW TO TJ POND 2	Date Sampled: 30-Jun-05 12:40
Replicate #: R1	Description: Project #151123 / PO #99-17413		Date Received: 05-Jul-05
Batch ID: 2502-14033	Matrix: Wastewater		Date Processed: 07-Jul-05
Instrument: GC/MS #2 Shimadzu QP2010	Analyst: D. Gonsman		Date Analyzed: 15-Jul-05

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DILUTION FACTOR	ACCEPTANCE RANGE
(PCB030)	Total	EPA 625	96	% Recovery			1	46 - 119%
(PCB112)	Total	EPA 625	98	% Recovery			1	52 - 123%
(PCB198)	Total	EPA 625	96	% Recovery			1	59 - 123%
(TCMX)	Total	EPA 625	96	% Recovery			1	40 - 110%
Bolstar (Sulprofos)	Total	EPA 625	ND	ng/L	10	20	1	NA
Chlorpyrifos	Total	EPA 625	ND	ng/L	5	10	1	NA
Demeton	Total	EPA 625	ND	ng/L	10	20	1	NA
Diazinon	Total	EPA 625	ND	ng/L	5	10	1	NA
Dichlorvos	Total	EPA 625	ND	ng/L	10	20	1	NA
Dimethoate	Total	EPA 625	ND	ng/L	5	10	1	NA
Disulfoton	Total	EPA 625	ND	ng/L	10	20	1	NA
Ethoprop (Ethoprofos)	Total	EPA 625	ND	ng/L	10	20	1	NA
Fenchlorphos (Ronnel)	Total	EPA 625	ND	ng/L	10	20	1	NA
Fensulfothion	Total	EPA 625	ND	ng/L	10	20	1	NA
Fenthion	Total	EPA 625	ND	ng/L	10	20	1	NA
Malathion	Total	EPA 625	ND	ng/L	5	10	1	NA
Merphos	Total	EPA 625	ND	ng/L	10	20	1	NA
Methyl Parathion	Total	EPA 625	ND	ng/L	10	20	1	NA
Mevinphos (Phosdrin)	Total	EPA 625	ND	ng/L	10	20	1	NA
Phorate	Total	EPA 625	ND	ng/L	10	20	1	NA
Tetrachlorvinphos (Stirofos)	Total	EPA 625	ND	ng/L	10	20	1	NA
Tokuthion	Total	EPA 625	ND	ng/L	10	20	1	NA
Trichloronate	Total	EPA 625	ND	ng/L	10	20	1	NA

MDL= Method Detection Limit (CFR 40 Part 136); RL= Minimum Level (SWRCB); E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261

26192 R1

CRG Marine Laboratories, Inc.

2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

Organophosphorus Pesticides

Client: *MWH Laboratories*

CRG Project ID: *2502ay*

CRG ID#: 26193	Sample: 2506300322	SITE 2 OUTFLOW FR TJ POND1	Date Sampled: 30-Jun-05 11:00
Replicate #: R1	Description: Project #151123 / PO #99-17413		Date Received: 05-Jul-05
Batch ID: 2502-14033	Matrix: Wastewater		Date Processed: 07-Jul-05
Instrument: GC/MS #2 Shimadzu QP2010	Analyst: D. Gonsman		Date Analyzed: 15-Jul-05

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DILUTION FACTOR	ACCEPTANCE RANGE
(PCB030)	Total	EPA 625	93	% Recovery			1	46 - 119%
(PCB112)	Total	EPA 625	98	% Recovery			1	52 - 123%
(PCB198)	Total	EPA 625	92	% Recovery			1	59 - 123%
(TCMX)	Total	EPA 625	92	% Recovery			1	40 - 110%
Bolstar (Sulprofos)	Total	EPA 625	ND	ng/L	10	20	1	NA
Chlorpyrifos	Total	EPA 625	ND	ng/L	5	10	1	NA
Demeton	Total	EPA 625	ND	ng/L	10	20	1	NA
Diazinon	Total	EPA 625	ND	ng/L	5	10	1	NA
Dichlorvos	Total	EPA 625	ND	ng/L	10	20	1	NA
Dimethoate	Total	EPA 625	ND	ng/L	5	10	1	NA
Disulfoton	Total	EPA 625	ND	ng/L	10	20	1	NA
Ethoprop (Ethoprofos)	Total	EPA 625	ND	ng/L	10	20	1	NA
Fenchlorphos (Ronnel)	Total	EPA 625	ND	ng/L	10	20	1	NA
Fensulfothion	Total	EPA 625	ND	ng/L	10	20	1	NA
Fenthion	Total	EPA 625	ND	ng/L	10	20	1	NA
Malathion	Total	EPA 625	ND	ng/L	5	10	1	NA
Merphos	Total	EPA 625	ND	ng/L	10	20	1	NA
Methyl Parathion	Total	EPA 625	ND	ng/L	10	20	1	NA
Mevinphos (Phosdrin)	Total	EPA 625	ND	ng/L	10	20	1	NA
Phorate	Total	EPA 625	ND	ng/L	10	20	1	NA
Tetrachlorvinphos (Stirofos)	Total	EPA 625	ND	ng/L	10	20	1	NA
Tokuthion	Total	EPA 625	ND	ng/L	10	20	1	NA
Trichloronate	Total	EPA 625	ND	ng/L	10	20	1	NA

MDL= Method Detection Limit (CFR 40 Part 136); RL= Minimum Level (SWRCB); E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261

26193 R1

CRG Marine Laboratories, Inc.

2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

Organophosphorus Pesticides

Client: *MWH Laboratories*

CRG Project ID: *2502ay*

CRG ID#: 26194	Sample: 2506300323	SITE 2 OUTFLOW FR TJ POND2	Date Sampled: 30-Jun-05 11:15
Replicate #: R1	Description: Project #151123 / PO #99-17413		Date Received: 05-Jul-05
Batch ID: 2502-14033	Matrix: Wastewater		Date Processed: 07-Jul-05
Instrument: GC/MS #2 Shimadzu QP2010	Analyst: D. Gonsman		Date Analyzed: 15-Jul-05

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DILUTION FACTOR	ACCEPTANCE RANGE
(PCB030)	Total	EPA 625	95	% Recovery			1	46 - 119%
(PCB112)	Total	EPA 625	98	% Recovery			1	52 - 123%
(PCB198)	Total	EPA 625	94	% Recovery			1	59 - 123%
(TCMX)	Total	EPA 625	95	% Recovery			1	40 - 110%
Bolstar (Sulprofos)	Total	EPA 625	ND	ng/L	10	20	1	NA
Chlorpyrifos	Total	EPA 625	ND	ng/L	5	10	1	NA
Demeton	Total	EPA 625	ND	ng/L	10	20	1	NA
Diazinon	Total	EPA 625	ND	ng/L	5	10	1	NA
Dichlorvos	Total	EPA 625	ND	ng/L	10	20	1	NA
Dimethoate	Total	EPA 625	ND	ng/L	5	10	1	NA
Disulfoton	Total	EPA 625	ND	ng/L	10	20	1	NA
Ethoprop (Ethoprofos)	Total	EPA 625	ND	ng/L	10	20	1	NA
Fenchlorphos (Ronnel)	Total	EPA 625	ND	ng/L	10	20	1	NA
Fensulfothion	Total	EPA 625	ND	ng/L	10	20	1	NA
Fenthion	Total	EPA 625	ND	ng/L	10	20	1	NA
Malathion	Total	EPA 625	ND	ng/L	5	10	1	NA
Merphos	Total	EPA 625	ND	ng/L	10	20	1	NA
Methyl Parathion	Total	EPA 625	ND	ng/L	10	20	1	NA
Mevinphos (Phosdrin)	Total	EPA 625	ND	ng/L	10	20	1	NA
Phorate	Total	EPA 625	ND	ng/L	10	20	1	NA
Tetrachlorvinphos (Stirofos)	Total	EPA 625	ND	ng/L	10	20	1	NA
Tokuthion	Total	EPA 625	ND	ng/L	10	20	1	NA
Trichloronate	Total	EPA 625	ND	ng/L	10	20	1	NA

MDL= Method Detection Limit (CFR 40 Part 136); RL= Minimum Level (SWRCB); E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261

26194 R1

CRG Marine Laboratories, Inc.

2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

Organophosphorus Pesticides

Client: *MWH Laboratories*

CRG Project ID: *2502ay*

CRG ID#: 26195	Sample: 2506300324	SITE 3 BIG TJ WASH 1	Date Sampled: 30-Jun-05 13:30
Replicate #: R1	Description: Project #151123 / PO #99-17413		Date Received: 05-Jul-05
Batch ID: 2502-14033	Matrix: Wastewater		Date Processed: 07-Jul-05
Instrument: GC/MS #2 Shimadzu QP2010	Analyst: D. Gonsman		Date Analyzed: 15-Jul-05

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DILUTION FACTOR	ACCEPTANCE RANGE
(PCB030)	Total	EPA 625	97	% Recovery			1	46 - 119%
(PCB112)	Total	EPA 625	100	% Recovery			1	52 - 123%
(PCB198)	Total	EPA 625	96	% Recovery			1	59 - 123%
(TCMX)	Total	EPA 625	98	% Recovery			1	40 - 110%
Bolstar (Sulprofos)	Total	EPA 625	ND	ng/L	10	20	1	NA
Chlorpyrifos	Total	EPA 625	ND	ng/L	5	10	1	NA
Demeton	Total	EPA 625	ND	ng/L	10	20	1	NA
Diazinon	Total	EPA 625	ND	ng/L	5	10	1	NA
Dichlorvos	Total	EPA 625	ND	ng/L	10	20	1	NA
Dimethoate	Total	EPA 625	ND	ng/L	5	10	1	NA
Disulfoton	Total	EPA 625	ND	ng/L	10	20	1	NA
Ethoprop (Ethoprofos)	Total	EPA 625	ND	ng/L	10	20	1	NA
Fenchlorphos (Ronnel)	Total	EPA 625	ND	ng/L	10	20	1	NA
Fensulfothion	Total	EPA 625	ND	ng/L	10	20	1	NA
Fenthion	Total	EPA 625	ND	ng/L	10	20	1	NA
Malathion	Total	EPA 625	ND	ng/L	5	10	1	NA
Merphos	Total	EPA 625	ND	ng/L	10	20	1	NA
Methyl Parathion	Total	EPA 625	ND	ng/L	10	20	1	NA
Mevinphos (Phosdrin)	Total	EPA 625	ND	ng/L	10	20	1	NA
Phorate	Total	EPA 625	ND	ng/L	10	20	1	NA
Tetrachlorvinphos (Stirofos)	Total	EPA 625	ND	ng/L	10	20	1	NA
Tokuthion	Total	EPA 625	ND	ng/L	10	20	1	NA
Trichloronate	Total	EPA 625	ND	ng/L	10	20	1	NA

MDL= Method Detection Limit (CFR 40 Part 136); RL= Minimum Level (SWRCB); E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261

26195 R1

CRG Marine Laboratories, Inc.

2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

Organophosphorus Pesticides

Client: *MWH Laboratories*

CRG Project ID: *2502ay*

CRG ID#: 26196	Sample: 2506300325	SITE 3 BIG TJ WASH 2	Date Sampled: 30-Jun-05 13:40
Replicate #: R1	Description: Project #151123 / PO #99-17413		Date Received: 05-Jul-05
Batch ID: 2502-14033	Matrix: Wastewater		Date Processed: 07-Jul-05
Instrument: GC/MS #2 Shimadzu QP2010	Analyst: D. Gonsman		Date Analyzed: 15-Jul-05

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DILUTION FACTOR	ACCEPTANCE RANGE
(PCB030)	Total	EPA 625	92	% Recovery			1	46 - 119%
(PCB112)	Total	EPA 625	98	% Recovery			1	52 - 123%
(PCB198)	Total	EPA 625	96	% Recovery			1	59 - 123%
(TCMX)	Total	EPA 625	92	% Recovery			1	40 - 110%
Bolstar (Sulprofos)	Total	EPA 625	ND	ng/L	10	20	1	NA
Chlorpyrifos	Total	EPA 625	ND	ng/L	5	10	1	NA
Demeton	Total	EPA 625	ND	ng/L	10	20	1	NA
Diazinon	Total	EPA 625	ND	ng/L	5	10	1	NA
Dichlorvos	Total	EPA 625	ND	ng/L	10	20	1	NA
Dimethoate	Total	EPA 625	ND	ng/L	5	10	1	NA
Disulfoton	Total	EPA 625	ND	ng/L	10	20	1	NA
Ethoprop (Ethoprofos)	Total	EPA 625	ND	ng/L	10	20	1	NA
Fenchlorphos (Ronnel)	Total	EPA 625	ND	ng/L	10	20	1	NA
Fensulfothion	Total	EPA 625	ND	ng/L	10	20	1	NA
Fenthion	Total	EPA 625	ND	ng/L	10	20	1	NA
Malathion	Total	EPA 625	ND	ng/L	5	10	1	NA
Merphos	Total	EPA 625	ND	ng/L	10	20	1	NA
Methyl Parathion	Total	EPA 625	ND	ng/L	10	20	1	NA
Mevinphos (Phosdrin)	Total	EPA 625	ND	ng/L	10	20	1	NA
Phorate	Total	EPA 625	ND	ng/L	10	20	1	NA
Tetrachlorvinphos (Stirofos)	Total	EPA 625	ND	ng/L	10	20	1	NA
Tokuthion	Total	EPA 625	ND	ng/L	10	20	1	NA
Trichloronate	Total	EPA 625	ND	ng/L	10	20	1	NA

MDL= Method Detection Limit (CFR 40 Part 136); RL= Minimum Level (SWRCB); E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261

26196 R1

CRG Marine Laboratories, Inc.

2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

Organophosphorus Pesticides

Client: *MWH Laboratories*

CRG Project ID: *2502ay*

CRG ID#: 26197	Sample: 2506300326	SITE 4 HAINES CYN CRK 1	Date Sampled: 30-Jun-05 10:00
Replicate #: R1	Description: Project #151123 / PO #99-17413		Date Received: 05-Jul-05
Batch ID: 2502-14033	Matrix: Wastewater		Date Processed: 07-Jul-05
Instrument: GC/MS #2 Shimadzu QP2010	Analyst: D. Gonsman		Date Analyzed: 15-Jul-05

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DILUTION FACTOR	ACCEPTANCE RANGE
(PCB030)	Total	EPA 625	99	% Recovery			1	46 - 119%
(PCB112)	Total	EPA 625	100	% Recovery			1	52 - 123%
(PCB198)	Total	EPA 625	98	% Recovery			1	59 - 123%
(TCMX)	Total	EPA 625	98	% Recovery			1	40 - 110%
Bolstar (Sulprofos)	Total	EPA 625	ND	ng/L	10	20	1	NA
Chlorpyrifos	Total	EPA 625	ND	ng/L	5	10	1	NA
Demeton	Total	EPA 625	ND	ng/L	10	20	1	NA
Diazinon	Total	EPA 625	ND	ng/L	5	10	1	NA
Dichlorvos	Total	EPA 625	ND	ng/L	10	20	1	NA
Dimethoate	Total	EPA 625	ND	ng/L	5	10	1	NA
Disulfoton	Total	EPA 625	ND	ng/L	10	20	1	NA
Ethoprop (Ethoprofos)	Total	EPA 625	ND	ng/L	10	20	1	NA
Fenchlorphos (Ronnel)	Total	EPA 625	ND	ng/L	10	20	1	NA
Fensulfothion	Total	EPA 625	ND	ng/L	10	20	1	NA
Fenthion	Total	EPA 625	ND	ng/L	10	20	1	NA
Malathion	Total	EPA 625	ND	ng/L	5	10	1	NA
Merphos	Total	EPA 625	ND	ng/L	10	20	1	NA
Methyl Parathion	Total	EPA 625	ND	ng/L	10	20	1	NA
Mevinphos (Phosdrin)	Total	EPA 625	ND	ng/L	10	20	1	NA
Phorate	Total	EPA 625	ND	ng/L	10	20	1	NA
Tetrachlorvinphos (Stirofos)	Total	EPA 625	ND	ng/L	10	20	1	NA
Tokuthion	Total	EPA 625	ND	ng/L	10	20	1	NA
Trichloronate	Total	EPA 625	ND	ng/L	10	20	1	NA

MDL= Method Detection Limit (CFR 40 Part 136); RL= Minimum Level (SWRCB); E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261

26197 R1

CRG Marine Laboratories, Inc.

2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

Organophosphorus Pesticides

Client: *MWH Laboratories*

CRG Project ID: *2502ay*

CRG ID#: 26198	Sample: 2506300327	SITE 4 HAINES CYN CRK 2	Date Sampled: 30-Jun-05 10:15
Replicate #: R1	Description: Project #151123 / PO #99-17413		Date Received: 05-Jul-05
Batch ID: 2502-14033	Matrix: Wastewater		Date Processed: 07-Jul-05
Instrument: GC/MS #2 Shimadzu QP2010	Analyst: D. Gonsman		Date Analyzed: 15-Jul-05

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DILUTION FACTOR	ACCEPTANCE RANGE
(PCB030)	Total	EPA 625	94	% Recovery			1	46 - 119%
(PCB112)	Total	EPA 625	99	% Recovery			1	52 - 123%
(PCB198)	Total	EPA 625	100	% Recovery			1	59 - 123%
(TCMX)	Total	EPA 625	97	% Recovery			1	40 - 110%
Bolstar (Sulprofos)	Total	EPA 625	ND	ng/L	10	20	1	NA
Chlorpyrifos	Total	EPA 625	ND	ng/L	5	10	1	NA
Demeton	Total	EPA 625	ND	ng/L	10	20	1	NA
Diazinon	Total	EPA 625	ND	ng/L	5	10	1	NA
Dichlorvos	Total	EPA 625	ND	ng/L	10	20	1	NA
Dimethoate	Total	EPA 625	ND	ng/L	5	10	1	NA
Disulfoton	Total	EPA 625	ND	ng/L	10	20	1	NA
Ethoprop (Ethoprofos)	Total	EPA 625	ND	ng/L	10	20	1	NA
Fenchlorphos (Ronnel)	Total	EPA 625	ND	ng/L	10	20	1	NA
Fensulfothion	Total	EPA 625	ND	ng/L	10	20	1	NA
Fenthion	Total	EPA 625	ND	ng/L	10	20	1	NA
Malathion	Total	EPA 625	ND	ng/L	5	10	1	NA
Merphos	Total	EPA 625	ND	ng/L	10	20	1	NA
Methyl Parathion	Total	EPA 625	ND	ng/L	10	20	1	NA
Mevinphos (Phosdrin)	Total	EPA 625	ND	ng/L	10	20	1	NA
Phorate	Total	EPA 625	ND	ng/L	10	20	1	NA
Tetrachlorvinphos (Stirofos)	Total	EPA 625	ND	ng/L	10	20	1	NA
Tokuthion	Total	EPA 625	ND	ng/L	10	20	1	NA
Trichloronate	Total	EPA 625	ND	ng/L	10	20	1	NA

MDL= Method Detection Limit (CFR 40 Part 136); RL= Minimum Level (SWRCB); E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261

26198 R1

QUALITY CONTROL REPORT

CRG Marine Laboratories, Inc.

2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

Organophosphorus Pesticides

Client: *MWH Laboratories*

CRG Project ID: *2502ay*

CRG ID#: 26190	Sample: QAQC	Procedural Blank: Procedural Blank	Date Sampled:
Replicate #: B1	Description: Project #151123 / PO #99-17413		Date Received:
Batch ID: 2502-14033	Matrix: DI Water		Date Processed: 07-Jul-05
Instrument: GC/MS #2 Shimadzu QP2010	Analyst: D. Gonsman		Date Analyzed: 15-Jul-05

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DILUTION FACTOR	ACCEPTANCE RANGE
(PCB030)	Total	EPA 625	100	% Recovery			1	46 - 119%
(PCB112)	Total	EPA 625	100	% Recovery			1	52 - 123%
(PCB198)	Total	EPA 625	99	% Recovery			1	59 - 123%
(TCMX)	Total	EPA 625	100	% Recovery			1	40 - 110%
Bolstar (Sulprofos)	Total	EPA 625	ND	ng/L	10	20	1	NA
Chlorpyrifos	Total	EPA 625	ND	ng/L	5	10	1	NA
Demeton	Total	EPA 625	ND	ng/L	10	20	1	NA
Diazinon	Total	EPA 625	ND	ng/L	5	10	1	NA
Dichlorvos	Total	EPA 625	ND	ng/L	10	20	1	NA
Dimethoate	Total	EPA 625	ND	ng/L	5	10	1	NA
Disulfoton	Total	EPA 625	ND	ng/L	10	20	1	NA
Ethoprop (Ethoprofos)	Total	EPA 625	ND	ng/L	10	20	1	NA
Fenchlorphos (Ronnel)	Total	EPA 625	ND	ng/L	10	20	1	NA
Fensulfothion	Total	EPA 625	ND	ng/L	10	20	1	NA
Fenthion	Total	EPA 625	ND	ng/L	10	20	1	NA
Malathion	Total	EPA 625	ND	ng/L	5	10	1	NA
Merphos	Total	EPA 625	ND	ng/L	10	20	1	NA
Methyl Parathion	Total	EPA 625	ND	ng/L	10	20	1	NA
Mevinphos (Phosdrin)	Total	EPA 625	ND	ng/L	10	20	1	NA
Phorate	Total	EPA 625	ND	ng/L	10	20	1	NA
Tetrachlorvinphos (Stirofos)	Total	EPA 625	ND	ng/L	10	20	1	NA
Tokuthion	Total	EPA 625	ND	ng/L	10	20	1	NA
Trichloronate	Total	EPA 625	ND	ng/L	10	20	1	NA

MDL= Method Detection Limit (CFR 40 Part 136); RL= Minimum Level (SWRCB); E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261

26190 B1

CHAIN-OF-CUSTODY



MWH Laboratories
 A Division of MWH Americas, Inc.
 750 Royal Oaks Drive Suite 100
 Monrovia, CA 91016-3629
 Ph (626) 386-1100 Fax (626) 386-1095

Date

07/05/05

Submission Form & Purchase Order 99-17413

***REPORTING REQUIREMENTS: Do Not Combine Report with any other samples submitted under different MWH project numbers!**
 Report & Invoice must have the MWH Project Number **151123** Sub PO# **99-17413** and Job #

Report all quality control data according to Method. Include dates analyzed, date extracted (if extracted) and Method reference on the report.
Results must have Complete data & QC with Approval Signature. See reverse side for List of Terms and Conditions

Reports: Michael Lettona Sub-contracting Administrator
EMAIL TO: Michael.Lettona@mwhglobal.com
MWH Laboratories 750 Royal Oaks Dr. Monrovia, CA 91016
Phone (626) 386-1137 Fax (626) 386-1095
Invoices to: MWH LABORATORIES
Accounts Payable PO BOX 7009, Pasadena, CA 91109-7009

Provide in each Report
 the Specified State
 Certification # & Exp Date for
 requested tests + matrix

CA ELAP WW

Ship To **Misty B. Mercier**
CRG MARINE

2020 Del Amo Blvd
Suite 200
Torrance, CA 90501-1206

(310) 533-5190 x106 Fax (310) 533-5003

HOLDING TIME IS UP ON THURSDAY, 7/7. Please analyze ASAP. THANKS!

MWH Project # Report Due: Sub PO#
151123 07/20/05 99-17413

mg-

Use MWH
 Lab # for ID

Client Sample ID for reference only

Analysis Requested

Sample
 Date & Time

Matrix

Container

		Client Sample ID for reference only	Analysis Requested	Sample Date & Time	Matrix	Container
1	@DIAZEDD	2506300315	SITE 1 INFLOW TO TJ POND 1 DIAZINON & CHLORPYRIFOS by 625	06/30/05 12:30	ww	3 1L amber glass+ buffer+ascorbic+EDTA+DZU
2	@DIAZEDD	2506300321	SITE 1 INFLOW TO TJ POND 2 DIAZINON & CHLORPYRIFOS by 625	06/30/05 12:40	ww	3 1L amber glass+ buffer+ascorbic+EDTA+DZU
3	@DIAZEDD	2506300322	SITE 2 OUTFLOW FROM TJ POND1 DIAZINON & CHLORPYRIFOS by 625	06/30/05 11:00	ww	3 1L amber glass+ buffer+ascorbic+EDTA+DZU
4	@DIAZEDD	2506300323	SITE 2 OUTFLOW FROM TJ POND2 DIAZINON & CHLORPYRIFOS by 625	06/30/05 11:15	ww	3 1L amber glass+ buffer+ascorbic+EDTA+DZU
5	@DIAZEDD	2506300324	SITE 3 BIG TJ WASH 1 DIAZINON & CHLORPYRIFOS by 625	06/30/05 13:30	ww	3 1L amber glass+ buffer+ascorbic+EDTA+DZU
6	@DIAZEDD	2506300325	SITE 3 BIG TJ WASH 2 DIAZINON & CHLORPYRIFOS by 625	06/30/05 13:40	ww	3 1L amber glass+ buffer+ascorbic+EDTA+DZU
7	@DIAZEDD	2506300326	SITE 4 HAINES CYN CRK 1 DIAZINON & CHLORPYRIFOS by 625	06/30/05 10:00	ww	3 1L amber glass+ buffer+ascorbic+EDTA+DZU
8	@DIAZEDD	2506300327	SITE 4 HAINES CYN CRK 2 DIAZINON & CHLORPYRIFOS by 625	06/30/05 10:15	ww	3 1L amber glass+ buffer+ascorbic+EDTA+DZU

P2502ay

26191-26198

Relinquished by: Sample Control Date 07/05/05 Time 10:17 MUST HAVE NOTIFICATION IF TEMP IS GREATER THAN 6 OR LESS THAN 2 CELSIUS Page 1

Received by: Date 7/5/05 Time 16:00 An Acknowledgement of Receipt is requested to attn: Michael Lettona



CRG

Marine Laboratories, Inc.

SAMPLE RECEIPT FORM

CRG Project ID

P2502ay

CLIENT NAME

MWH

DATE RECEIVED

7/5/05

COURIER INFORMATION

- CRG
- OTHER*
- FEDEX
- UPS

TRACKING NUMBER

TEMPERATURE

6 °C

- BLUE ICE
- WET ICE
- NO ICE

Chain-of-Custody

- INCLUDED
- SIGNED
- NOT INCLUDED

SAMPLE MATRIX

- LIQUID
- SOLID
- OTHER*

CONDITION OF SAMPLES UPON ARRIVAL

	YES	NO*	NA
All sample containers intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
All samples listed on COC are present.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample ID on containers consistent with COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Correct containers used for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
All samples received within method holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

*NOTES

COMPLETED BY:

**BIG TUJUNGA WASH MITIGATION BANK
WATER QUALITY MONITORING PROGRAM
OCTOBER 2005 LABORATORY RESULTS**



MWH Laboratories

A Division of MWH Americas, Inc.

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: 626 386 1100
Fax: 626 386 1101
1 800 566 LABS (1 800 566 5227)

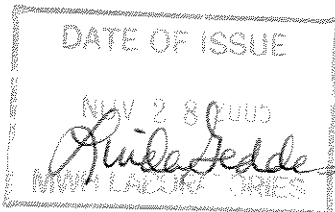
Laboratory Report

for

Applied Research Dept, MWH (Darren Giles)
327 West Maple Avenue

Monrovia , CA 91016

Attention: Darren Giles
Fax: (626) 359-3593



LXG Linda Geddes
Project Manager



Report#: 159681
BIG-TJ

Laboratory certifies that the test results meet all **NELAC** requirements unless noted in the Comments section or the Case Narrative. Following the cover page are Comments, QC Report, QC Summary, Data Report, Hits Report, totaling 20 page[s].



MWH Laboratories

CHAIN OF CUSTODY RECORD

MWHLABS USE ONLY:

750 Royal Oaks Drive Suite 100
Monrovia Ca 91016 (626) 386-1100

LOGIN COMMENTS:

SAMPLES CHECKED/LOGGED IN BY: [Signature]

SAMPLE TEMP, RECEIPT AT LAB 16.6 (Compliance: 4 +/- 2°C)

SAMPLES RECEIVED DAY OF COLLECTION?

BLUE ICE: FROZEN PARTIALLY FROZEN THAWED

TO BE COMPLETED BY SAMPLER:

TAT requested: **STANDARD**

PROJECT CODE: **Big TJ Sampling** PROJECT JOB # / P.O.#: **1342289.5620.051801** CLIENT CODE: **ARD-DG**

SAMPLERS: PRINTED NAME AND SIGNATURE: Darren Giles

COMPLIANCE SAMPLES: (Requires state forms) REGULATION: _____ (SDWA, Phase V, NPDES, FDA, ...)

NON-COMPLIANCE SAMPLES: REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES (check for yes)

TIME	DATE	SITE NAME or LOCATION	IDENTIFIER, STATE ID #	MATRIX	GRAB	COMP	ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)										SAMPLER COMMENTS	
							T-P	O-P4	TKN	NO2	NO3	Turbidity	Fecal Coll	Total Coll	Ammonia	Glyphosate		Diazinon
11:30	10/25	SITE 1	Inflow to TJ Pond #1		X		X	X	X	X	X	X	X	X	X	X		
11:40	10/25	SITE 1	Inflow to TJ Pond #2		X		X	X	X	X	X	X	X	X	X	X		
12:20	10/25	SITE 2	Outflow from TJ Pond #1		X		X	X	X	X	X	X	X	X	X	X		Bottle marked
12:40	10/25	SITE 2	Outflow from TJ Pond #2		X		X	X	X	X	X	X	X	X	X	X		as outflow to POND 2
13:20	10/25	SITE 3	Big TJ Wash #1		X		X	X	X	X	X	X	X	X	X	X		
13:30	10/25	SITE 3	Big TJ Wash #2		X		X	X	X	X	X	X	X	X	X	X		
10:00	10/25	SITE 4	Haines Canyon Creek #1		X		X	X	X	X	X	X	X	X	X	X		REG. 10/25/05
10:15	10/25	SITE 4	Haines Canyon Creek #2		X		X	X	X	X	X	X	X	X	X	X		15:16

* MATRIX TYPES: Reported by Volume:
 RSW = Raw Surface Water
 RGW = Raw Ground Water
 FW = Other Finished Water
 CFW = Chlor(am)inated Finished Water
 SW = Storm Water
 WW = Other Waste Water
 CWW = Chlorinated Waste Water

Reported by Weight:
 SO = Soil
 SL = Sludge

RELINQUISHED BY: [Signature] SIGNATURE: [Signature] PRINT NAME: D. Giles

RECEIVED BY: [Signature] SIGNATURE: Mike R COMPANY/TITLE: MWH ARD

SPECIAL INSTRUCTIONS: _____

DATE: 10/25/05 TIME: _____

DATE: 10/25/05 TIME: _____

MWH Laboratories
 750 Royal Oaks Drive, Monrovia, CA 91016
 PHONE: 626-386-1100/FAX: 626-386-1101

ACKNOWLEDGMENT OF SAMPLES RECEIVED

Applied Research Dept, MWH (Darren Giles) 327 West Maple Avenue Monrovia, CA 91016 Attn: Darren Giles Phone: (626) 303-5945	Customer Code: ARD-DG PO#: 1341410.5620.011801 Group#: 159681 Project#: BIG-TJ Proj Mgr: Linda Geddes Phone: (626) 386-1163
---	--

The following samples were received from you on **10/25/05**. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using MWH Laboratories.

Sample#	Sample Id	Tests Scheduled	Matrix	Sample Date
2510250143	SITE 1 INFLOW TO TJ POND 1	@DIAZEDD FECCOL NO3A OPO4	Water GLYPHOS NH3 T-P TKN	25-oct-2005 11:30:00 NO2-N NO3 TOTCOL TURB
2510250149	SITE 1 INFLOW TO TJ POND 2	@DIAZEDD FECCOL NO3A OPO4	Water GLYPHOS NH3 T-P TKN	25-oct-2005 11:45:00 NO2-N NO3 TOTCOL TURB
2510250150	SITE 2 OUTFLOW FRM TJ POUND 1	@DIAZEDD FECCOL NO3A OPO4	Water GLYPHOS NH3 T-P TKN	25-oct-2005 12:30:00 NO2-N NO3 TOTCOL TURB
2510250151	SITE 2 OUTFLOW FRM TJ POUND 2	@DIAZEDD FECCOL NO3A OPO4	Water GLYPHOS NH3 T-P TKN	25-oct-2005 12:40:00 NO2-N NO3 TOTCOL TURB
2510250152	SITE 3 BIG TJ WASH 1	@DIAZEDD FECCOL NO3A OPO4	Water GLYPHOS NH3 T-P TKN	25-oct-2005 13:20:00 NO2-N NO3 TOTCOL TURB
2510250153	SITE 3 BIG TJ WASH 2	@DIAZEDD FECCOL NO3A OPO4	Water GLYPHOS NH3 T-P TKN	25-oct-2005 13:30:00 NO2-N NO3 TOTCOL TURB
2510250154	SITE 4 HAINES CANYON CREEK 1	@DIAZEDD FECCOL NO3A OPO4	Water GLYPHOS NH3 T-P TKN	25-oct-2005 10:00:00 NO2-N NO3 TOTCOL TURB
2510250155	SITE 4 HAINES CANYON CREEK 2	@DIAZEDD FECCOL NO3A OPO4	Water GLYPHOS NH3 T-P TKN	25-oct-2005 10:15:00 NO2-N NO3 TOTCOL TURB

Test Acronym Description

Test Acronym	Description
@DIAZEDD	Diazinon/Chlorpyrifos by GCMS
FECCOL	Fecal Coliform Bacteria
GLYPHOS	Glyphosate
NH3	Ammonia Nitrogen
NO2-N	Nitrite, Nitrogen by IC

Applied Research Dept, MWH (Darren Giles)

327 West Maple Avenue

Monrovia, CA 91016

Attn: Darren Giles

Phone: (626) 303-5945

Customer Code: ARD-DG

PO#: 1341410.5620.011801

Group#: 159681

Project#: BIG-TJ

Proj Mgr: Linda Geddes

Phone: (626) 386-1163

Test Acronym Description

Test Acronym	Description
NO3	Nitrate as Nitrogen by IC
NO3A	Nitrate as NO3
OPO4	Orthophosphate-P
T-P	Total phosphorus-P
TKN	Kjeldahl Nitrogen
TOTCOL	Total Coliform Bacteria
TURB	Turbidity



Group Comments

Analytical results for Diazinon/Chlorpyrifos by GCMS are submitted by CRG Marine Laboratories, Torrance, CA.
ELAP 2261

(QC Ref#: 2510250149)

Test: Total phosphorus-P (S4500PE/ 365.1)

M1 - Matrix spike recovery was high, the method control sample recovery was acceptable.

(QC Ref#: 292533)

Test: Nitrite, Nitrogen by IC (ML/EPA 300.0)

QC Type: MS

Recovery above method limits. Default to LCS1, LCS2.

QC Type: MSD

Recovery above method limits. Default to LCS1, LCS2.

(QC Ref#: 293698)

Test: Kjeldahl Nitrogen (ML/EPA 351.2)

QC Type: MS

Recovery above method limits. Default to LCS1, LCS2.

QC Type: MSD

Recovery above method limits. Default to LCS1, LCS2.



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Laboratory
 Hits Report
 #159681

Applied Research Dept, MWH (Darren
 Giles)
 Darren Giles
 327 West Maple Avenue
 Monrovia, CA 91016

Samples Received
 25-oct-2005 15:45:58

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL	
	2510250143	SITE 1 INFLOW TO TJ POND 1					
11/09/05		Ammonia Nitrogen	0.08		mg/l	0.05	
10/25/05		Fecal Coliform Bacteria	50		MPN/100 mL	2	
11/02/05		Kjeldahl Nitrogen	0.35		mg/l	0.2	
10/25/05		Nitrate as NO3 (calc)	12	45	mg/l	0.88	
10/25/05		Nitrate as Nitrogen by IC	2.8	10	mg/l	0.2	
10/25/05		Orthophosphate-P	0.040		mg/l	0.01	
10/25/05		Total Coliform Bacteria	1400		MPN/100 mL	2	
10/25/05		Turbidity	0.50	5	NTU	0.05	
	2510250149	SITE 1 INFLOW TO TJ POND 2					
11/09/05		Ammonia Nitrogen	0.09		mg/l	0.05	
10/25/05		Fecal Coliform Bacteria	13		MPN/100 mL	2	
11/02/05		Kjeldahl Nitrogen	0.31		mg/l	0.2	
10/25/05		Nitrate as NO3 (calc)	12	45	mg/l	0.88	
10/25/05		Nitrate as Nitrogen by IC	2.8	10	mg/l	0.2	
10/25/05		Orthophosphate-P	0.039		mg/l	0.01	
10/25/05		Total Coliform Bacteria	1100		MPN/100 mL	2	
11/07/05		Total phosphorus-P	0.031		mg/l	0.01	
10/25/05		Turbidity	0.60	5	NTU	0.05	
	2510250150	SITE 2 OUTFLOW FRM TJ POUND 1					
11/09/05		Ammonia Nitrogen	0.09		mg/l	0.05	
10/25/05		Fecal Coliform Bacteria	50		MPN/100 mL	2	
11/02/05		Kjeldahl Nitrogen	0.30		mg/l	0.2	
10/25/05		Nitrate as NO3 (calc)	13	45	mg/l	0.88	
10/25/05		Nitrate as Nitrogen by IC	2.9	10	mg/l	0.2	
10/25/05		Orthophosphate-P	0.040		mg/l	0.01	

SUMMARY OF POSITIVE DATA ONLY.



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Laboratory
 Hits Report
 #159681

Applied Research Dept, MWH (Darren
 Giles)
 Darren Giles
 327 West Maple Avenue
 Monrovia, CA 91016

Samples Received
 25-oct-2005 15:45:58

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2510250150	SITE 2 OUTFLOW	FRM TJ POUND 1			
10/25/05		Total Coliform Bacteria	3000		MPN/100 mL	2
10/25/05		Turbidity	0.65	5	NTU	0.05
	2510250151	SITE 2 OUTFLOW	FRM TJ POUND 2			
11/09/05		Ammonia Nitrogen	0.09		mg/l	0.05
10/25/05		Fecal Coliform Bacteria	50		MPN/100 mL	2
11/02/05		Kjeldahl Nitrogen	0.28		mg/l	0.2
10/25/05		Nitrate as NO3 (calc)	13	45	mg/l	0.88
10/25/05		Nitrate as Nitrogen by IC	2.9	10	mg/l	0.2
10/25/05		Orthophosphate-P	0.040		mg/l	0.01
10/25/05		Total Coliform Bacteria	500		MPN/100 mL	2
10/25/05		Turbidity	0.70	5	NTU	0.05
	2510250152	SITE 3 BIG TJ WASH	1			
10/25/05		Fecal Coliform Bacteria	17		MPN/100 mL	2
11/02/05		Kjeldahl Nitrogen	0.24		mg/l	0.2
10/25/05		Total Coliform Bacteria	700		MPN/100 mL	2
10/25/05		Turbidity	3.5	5	NTU	0.05
	2510250153	SITE 3 BIG TJ WASH	2			
10/25/05		Fecal Coliform Bacteria	13		MPN/100 mL	2
11/02/05		Kjeldahl Nitrogen	0.24		mg/l	0.2
10/25/05		Total Coliform Bacteria	1600		MPN/100 mL	2
10/25/05		Turbidity	3.6	5	NTU	0.05
	2510250154	SITE 4 HAINES CANYON CREEK	1			

SUMMARY OF POSITIVE DATA ONLY.



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Laboratory
 Hits Report
 #159681

Applied Research Dept, MWH (Darren
 Giles)
 Darren Giles
 327 West Maple Avenue
 Monrovia, CA 91016

Samples Received
 25-oct-2005 15:45:58

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2510250154	SITE 4 HAINES CANYON CREEK 1				
10/25/05		Fecal Coliform Bacteria	80		MPN/100 mL	2
11/02/05		Kjeldahl Nitrogen	0.34		mg/l	0.2
10/25/05		Nitrate as NO3 (calc)	12	45	mg/l	0.88
10/25/05		Nitrate as Nitrogen by IC	2.8	10	mg/l	0.2
10/25/05		Orthophosphate-P	0.044		mg/l	0.01
10/25/05		Total Coliform Bacteria	1600		MPN/100 mL	2
10/25/05		Turbidity	1.7	5	NTU	0.05
	2510250155	SITE 4 HAINES CANYON CREEK 2				
10/25/05		Fecal Coliform Bacteria	130		MPN/100 mL	2
11/02/05		Kjeldahl Nitrogen	0.27		mg/l	0.2
10/25/05		Nitrate as NO3 (calc)	12	45	mg/l	0.88
10/25/05		Nitrate as Nitrogen by IC	2.8	10	mg/l	0.2
10/25/05		Orthophosphate-P	0.042		mg/l	0.01
10/25/05		Total Coliform Bacteria	2200		MPN/100 mL	2
10/25/05		Turbidity	0.50	5	NTU	0.05

SUMMARY OF POSITIVE DATA ONLY.



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Laboratory
Data Report
#159681

Applied Research Dept, MWH (Darren
Giles)
Darren Giles
327 West Maple Avenue
Monrovia, CA 91016

Samples Received
10/25/05

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
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SITE 1 INFLOW TO TJ POND 1 (2510250143) Sampled on 10/25/05 11:30

10/25/05 15:58			(ML/SM9221C)	Fecal Coliform Bacteria	50	MPNM	2	1
10/26/05 00:00	292801		(ML/EPA 547)	Glyphosate	ND	ug/l	6	1
11/09/05 00:00	294348		(ML/EPA 350.1)	Ammonia Nitrogen	0.08	mg/l	0.05	1
10/25/05 18:35	292532		(ML/EPA 300.0)	Nitrite, Nitrogen by IC	ND	mg/l	0.2	2
10/25/05 18:35	292535		(EPA/MW 300.0)	Nitrate as Nitrogen by IC	2.8	mg/l	0.2	2
10/25/05 18:35	292527		()	Nitrate as NO3 (calc)	12	mg/l	0.88	2
10/25/05 17:30	292617		(4500P-E/365.2)	Orthophosphate-P	0.040	mg/l	0.01	1
11/07/05 00:00	294153		(S4500PE/ 365.1)	Total phosphorus-P	ND	mg/l	0.01	1
11/02/05 00:00	293698		(ML/EPA 351.2)	Kjeldahl Nitrogen	0.35	mg/l	0.2	1
10/25/05 15:58			(ML/SM9221B)	Total Coliform Bacteria	1400	MPNM	2	1
10/25/05 16:11	292521		(ML/EPA 180.1)	Turbidity	0.50	NTU	0.05	1

Diazinon/Chlorpyrifos by GCMS

11/08/05 00:00			(EPA 625 MODSUB)	Diazinon	ND	ng/l	5	1
11/08/05 00:00			(EPA 625 MODSUB)	Bolstar (Sulprofos)	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Chlorpyrifos	ND	ng/l	5	1
11/08/05 00:00			(EPA 625 MODSUB)	Demeton	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Dichlorvos	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Disulfoton	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Dimethoate	ND	ng/l	5	1
11/08/05 00:00			(EPA 625 MODSUB)	Ethoprop (Ethoprofos)	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Fenchlorophos (Ronnell)	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Fensulfothion	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Fenthion	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Merphos	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Mevinphos (Phosdrin)	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Malathion	ND	ng/l	5	1
11/08/05 00:00			(EPA 625 MODSUB)	Parathion-methyl	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Phorate	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Tokuthion	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Tetrachlorovinphos (Stirophos)	ND	ng/l	10	1



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Laboratory
 Data Report
 #159681

Applied Research Dept, MWH (Darren
 Giles)
 (continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
	11/08/05 00:00		(EPA 625 MODSUB)	Trichloronate	ND	ng/l	10	1
SITE 1 INFLOW TO TJ POND 2 (2510250149)					Sampled on 10/25/05 11:45			
	10/25/05 15:58		(ML/SM9221C)	Fecal Coliform Bacteria	13	MPNM	2	1
	10/26/05 00:00	292801	(ML/EPA 547)	Glyphosate	ND	ug/l	6	1
	11/09/05 00:00	294348	(ML/EPA 350.1)	Ammonia Nitrogen	0.09	mg/l	0.05	1
	10/25/05 18:58	292532	(ML/EPA 300.0)	Nitrite, Nitrogen by IC	ND	mg/l	0.2	2
	10/25/05 18:58	292535	(EPA/MW 300.0)	Nitrate as Nitrogen by IC	2.8	mg/l	0.2	2
	10/25/05 18:58	292527	()	Nitrate as NO3 (calc)	12	mg/l	0.88	2
	10/25/05 17:30	292617	(4500P-E/365.2)	Orthophosphate-P	0.039	mg/l	0.01	1
	11/07/05 00:00	294153	(S4500PE/ 365.1)	Total phosphorus-P	0.031(Ml)	mg/l	0.01	1
	11/02/05 00:00	293698	(ML/EPA 351.2)	Kjeldahl Nitrogen	0.31	mg/l	0.2	1
	10/25/05 15:58		(ML/SM9221B)	Total Coliform Bacteria	1100	MPNM	2	1
	10/25/05 16:11	292521	(ML/EPA 180.1)	Turbidity	0.60	NTU	0.05	1
Diazinon/Chlorpyrifos by GCMS								
	11/08/05 00:00		(EPA 625 MODSUB)	Diazinon	ND	ng/l	5	1
	11/08/05 00:00		(EPA 625 MODSUB)	Bolstar (Sulprofos)	ND	ng/l	10	1
	11/08/05 00:00		(EPA 625 MODSUB)	Chlorpyrifos	ND	ng/l	5	1
	11/08/05 00:00		(EPA 625 MODSUB)	Demeton	ND	ng/l	10	1
	11/08/05 00:00		(EPA 625 MODSUB)	Dichlorvos	ND	ng/l	10	1
	11/08/05 00:00		(EPA 625 MODSUB)	Disulfoton	ND	ng/l	10	1
	11/08/05 00:00		(EPA 625 MODSUB)	Dimethoate	ND	ng/l	5	1
	11/08/05 00:00		(EPA 625 MODSUB)	Ethoprop (Ethoprophos)	ND	ng/l	10	1
	11/08/05 00:00		(EPA 625 MODSUB)	Fenchlorophos (Ronnel)	ND	ng/l	10	1
	11/08/05 00:00		(EPA 625 MODSUB)	Fensulfothion	ND	ng/l	10	1
	11/08/05 00:00		(EPA 625 MODSUB)	Fenthion	ND	ng/l	10	1
	11/08/05 00:00		(EPA 625 MODSUB)	Merphos	ND	ng/l	10	1
	11/08/05 00:00		(EPA 625 MODSUB)	Mevinphos (Phosdrin)	ND	ng/l	10	1
	11/08/05 00:00		(EPA 625 MODSUB)	Malathion	ND	ng/l	5	1
	11/08/05 00:00		(EPA 625 MODSUB)	Parathion-methyl	ND	ng/l	10	1
	11/08/05 00:00		(EPA 625 MODSUB)	Phorate	ND	ng/l	10	1
	11/08/05 00:00		(EPA 625 MODSUB)	Tokuthion	ND	ng/l	10	1
	11/08/05 00:00		(EPA 625 MODSUB)	Tetrachlorovinphos (Stirophos)	ND	ng/l	10	1
	11/08/05 00:00		(EPA 625 MODSUB)	Trichloronate	ND	ng/l	10	1



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Laboratory
 Data Report
 #159681

Applied Research Dept, MWH (Darren
 Giles)
 (continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
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SITE 2 OUTFLOW FRM TJ POUND 1 (2510250150)				Sampled on	10/25/05 12:30			
10/25/05 15:58			(ML/SM9221C)	Fecal Coliform Bacteria	50	MPNM	2	1
10/26/05 00:00	292801		(ML/EPA 547)	Glyphosate	ND	ug/l	6	1
11/09/05 00:00	294348		(ML/EPA 350.1)	Ammonia Nitrogen	0.09	mg/l	0.05	1
10/25/05 19:10	292532		(ML/EPA 300.0)	Nitrite, Nitrogen by IC	ND	mg/l	0.2	2
10/25/05 19:10	292535		(EPA/MW 300.0)	Nitrate as Nitrogen by IC	2.9	mg/l	0.2	2
10/25/05 19:10	292527		()	Nitrate as NO3 (calc)	13	mg/l	0.88	2
10/25/05 17:30	292617		(4500P-E/365.2)	Orthophosphate-P	0.040	mg/l	0.01	1
11/07/05 00:00	294153		(S4500PE/ 365.1)	Total phosphorus-P	ND	mg/l	0.01	1
11/02/05 00:00	293698		(ML/EPA 351.2)	Kjeldahl Nitrogen	0.30	mg/l	0.2	1
10/25/05 15:58			(ML/SM9221B)	Total Coliform Bacteria	3000	MPNM	2	1
10/25/05 16:11	292521		(ML/EPA 180.1)	Turbidity	0.65	NTU	0.05	1

Diazinon/Chlorpyrifos by GCMS

11/08/05 00:00			(EPA 625 MODSUB)	Diazinon	ND	ng/l	5	1
11/08/05 00:00			(EPA 625 MODSUB)	Bolstar (Sulprofos)	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Chlorpyrifos	ND	ng/l	5	1
11/08/05 00:00			(EPA 625 MODSUB)	Demeton	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Dichlorvos	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Disulfoton	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Dimethoate	ND	ng/l	5	1
11/08/05 00:00			(EPA 625 MODSUB)	Ethoprop (Ethoprophos)	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Fenchlorophos (Ronnel)	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Fensulfothion	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Fenthion	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Merphos	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Mevinphos (Phosdrin)	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Malathion	ND	ng/l	5	1
11/08/05 00:00			(EPA 625 MODSUB)	Parathion-methyl	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Phorate	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Tokuthion	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Tetrachlorovinphos (Stirophos)	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Trichloronate	ND	ng/l	10	1

Applied Research Dept, MWH (Darren
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 (continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
SITE 2 OUTFLOW FRM TJ POUND 2 (2510250151)					Sampled on 10/25/05 12:40			
	10/25/05 15:58		(ML/SM9221C)	Fecal Coliform Bacteria	50	MPNM	2	1
	10/26/05 00:00	292801	(ML/EPA 547)	Glyphosate	ND	ug/l	6	1
	11/09/05 00:00	294348	(ML/EPA 350.1)	Ammonia Nitrogen	0.09	mg/l	0.05	1
	10/25/05 19:22	292532	(ML/EPA 300.0)	Nitrite, Nitrogen by IC	ND	mg/l	0.2	2
	10/25/05 19:22	292535	(EPA/MW 300.0)	Nitrate as Nitrogen by IC	2.9	mg/l	0.2	2
	10/25/05 19:22	292527	()	Nitrate as NO3 (calc)	13	mg/l	0.88	2
	10/25/05 17:30	292617	(4500P-E/365.2)	Orthophosphate-P	0.040	mg/l	0.01	1
	11/07/05 00:00	294153	(S4500PE/ 365.1)	Total phosphorus-P	ND	mg/l	0.01	1
	11/02/05 00:00	293698	(ML/EPA 351.2)	Kjeldahl Nitrogen	0.28	mg/l	0.2	1
	10/25/05 15:58		(ML/SM9221B)	Total Coliform Bacteria	500	MPNM	2	1
	10/25/05 16:11	292521	(ML/EPA 180.1)	Turbidity	0.70	NTU	0.05	1
Diazinon/Chlorpyrifos by GCMS								
	11/08/05 00:00		(EPA 625 MODSUB)	Diazinon	ND	ng/l	5	1
	11/08/05 00:00		(EPA 625 MODSUB)	Bolstar (Sulprofos)	ND	ng/l	10	1
	11/08/05 00:00		(EPA 625 MODSUB)	Chlorpyrifos	ND	ng/l	5	1
	11/08/05 00:00		(EPA 625 MODSUB)	Demeton	ND	ng/l	10	1
	11/08/05 00:00		(EPA 625 MODSUB)	Dichlorvos	ND	ng/l	10	1
	11/08/05 00:00		(EPA 625 MODSUB)	Disulfoton	ND	ng/l	10	1
	11/08/05 00:00		(EPA 625 MODSUB)	Dimethoate	ND	ng/l	5	1
	11/08/05 00:00		(EPA 625 MODSUB)	Ethoprop (Ethoprofos)	ND	ng/l	10	1
	11/08/05 00:00		(EPA 625 MODSUB)	Fenchlorophos (Ronnel)	ND	ng/l	10	1
	11/08/05 00:00		(EPA 625 MODSUB)	Fensulfothion	ND	ng/l	10	1
	11/08/05 00:00		(EPA 625 MODSUB)	Fenthion	ND	ng/l	10	1
	11/08/05 00:00		(EPA 625 MODSUB)	Merphos	ND	ng/l	10	1
	11/08/05 00:00		(EPA 625 MODSUB)	Mevinphos (Phosdrin)	ND	ng/l	10	1
	11/08/05 00:00		(EPA 625 MODSUB)	Malathion	ND	ng/l	5	1
	11/08/05 00:00		(EPA 625 MODSUB)	Parathion-methyl	ND	ng/l	10	1
	11/08/05 00:00		(EPA 625 MODSUB)	Phorate	ND	ng/l	10	1
	11/08/05 00:00		(EPA 625 MODSUB)	Tokuthion	ND	ng/l	10	1
	11/08/05 00:00		(EPA 625 MODSUB)	Tetrachlorovinphos (Stirophos)	ND	ng/l	10	1
	11/08/05 00:00		(EPA 625 MODSUB)	Trichloronate	ND	ng/l	10	1



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(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
SITE 3 BIG TJ WASH 1 (2510250152) Sampled on 10/25/05 13:20								
	10/25/05 15:58		(ML/SM9221C)	Fecal Coliform Bacteria	17	MPNM	2	1
	10/26/05 00:00	292801	(ML/EPA 547)	Glyphosate	ND	ug/l	6	1
	11/09/05 00:00	294348	(ML/EPA 350.1)	Ammonia Nitrogen	ND	mg/l	0.05	1
	10/25/05 19:33	292532	(ML/EPA 300.0)	Nitrite, Nitrogen by IC	ND	mg/l	0.2	2
	10/25/05 19:33	292535	(EPA/MW 300.0)	Nitrate as Nitrogen by IC	ND	mg/l	0.2	2
	10/25/05 19:33	292527	()	Nitrate as NO3 (calc)	ND	mg/l	0.88	2
	10/25/05 17:30	292617	(4500P-E/365.2)	Orthophosphate-P	ND	mg/l	0.01	1
	11/07/05 00:00	294153	(S4500PE/ 365.1)	Total phosphorus-P	ND	mg/l	0.02	2
	11/02/05 00:00	293698	(ML/EPA 351.2)	Kjeldahl Nitrogen	0.24	mg/l	0.2	1
	10/25/05 15:58		(ML/SM9221B)	Total Coliform Bacteria	700	MPNM	2	1
	10/25/05 16:11	292521	(ML/EPA 180.1)	Turbidity	3.5	NTU	0.05	1

Diazinon/Chlorpyrifos by GCMS

11/08/05 00:00	(EPA 625 MODSUB)	Diazinon	ND	ng/l	5	1
11/08/05 00:00	(EPA 625 MODSUB)	Bolstar (Sulprofos)	ND	ng/l	10	1
11/08/05 00:00	(EPA 625 MODSUB)	Chlorpyrifos	ND	ng/l	5	1
11/08/05 00:00	(EPA 625 MODSUB)	Demeton	ND	ng/l	10	1
11/08/05 00:00	(EPA 625 MODSUB)	Dichlorvos	ND	ng/l	10	1
11/08/05 00:00	(EPA 625 MODSUB)	Disulfoton	ND	ng/l	10	1
11/08/05 00:00	(EPA 625 MODSUB)	Dimethoate	ND	ng/l	5	1
11/08/05 00:00	(EPA 625 MODSUB)	Ethoprop (Ethoprophos)	ND	ng/l	10	1
11/08/05 00:00	(EPA 625 MODSUB)	Fenchlorophos (Ronnel)	ND	ng/l	10	1
11/08/05 00:00	(EPA 625 MODSUB)	Fensulfothion	ND	ng/l	10	1
11/08/05 00:00	(EPA 625 MODSUB)	Fenthion	ND	ng/l	10	1
11/08/05 00:00	(EPA 625 MODSUB)	Merphos	ND	ng/l	10	1
11/08/05 00:00	(EPA 625 MODSUB)	Mevinphos (Phosdrin)	ND	ng/l	10	1
11/08/05 00:00	(EPA 625 MODSUB)	Malathion	ND	ng/l	5	1
11/08/05 00:00	(EPA 625 MODSUB)	Parathion-methyl	ND	ng/l	10	1
11/08/05 00:00	(EPA 625 MODSUB)	Phorate	ND	ng/l	10	1
11/08/05 00:00	(EPA 625 MODSUB)	Tokuthion	ND	ng/l	10	1
11/08/05 00:00	(EPA 625 MODSUB)	Tetrachlorovinphos (Stirophos)	ND	ng/l	10	1
11/08/05 00:00	(EPA 625 MODSUB)	Trichloronate	ND	ng/l	10	1



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Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
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SITE 3 BIG TJ WASH 2 (2510250153) Sampled on 10/25/05 13:30

10/25/05 15:58			(ML/SM9221C)	Fecal Coliform Bacteria	13	MPNM	2	1
10/27/05 00:00	292805		(ML/EPA 547)	Glyphosate	ND	ug/l	6	1
11/09/05 00:00	294348		(ML/EPA 350.1)	Ammonia Nitrogen	ND	mg/l	0.05	1
10/25/05 19:45	292532		(ML/EPA 300.0)	Nitrite, Nitrogen by IC	ND	mg/l	0.2	2
10/25/05 19:45	292535		(EPA/MW 300.0)	Nitrate as Nitrogen by IC	ND	mg/l	0.2	2
10/25/05 19:45	292527		()	Nitrate as NO3 (calc)	ND	mg/l	0.88	2
10/25/05 17:30	292617		(4500P-E/365.2)	Orthophosphate-P	ND	mg/l	0.01	1
11/07/05 00:00	294153		(S4500PE/ 365.1)	Total phosphorus-P	ND	mg/l	0.02	2
11/02/05 00:00	293698		(ML/EPA 351.2)	Kjeldahl Nitrogen	0.24	mg/l	0.2	1
10/25/05 15:58			(ML/SM9221B)	Total Coliform Bacteria	1600	MPNM	2	1
10/25/05 16:11	292521		(ML/EPA 180.1)	Turbidity	3.6	NTU	0.05	1

Diazinon/Chlorpyrifos by GCMS

11/08/05 00:00			(EPA 625 MODSUB)	Diazinon	ND	ng/l	5	1
11/08/05 00:00			(EPA 625 MODSUB)	Bolstar (Sulprofos)	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Chlorpyrifos	ND	ng/l	5	1
11/08/05 00:00			(EPA 625 MODSUB)	Demeton	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Dichlorvos	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Disulfoton	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Dimethoate	ND	ng/l	5	1
11/08/05 00:00			(EPA 625 MODSUB)	Ethoprop (Ethoprofos)	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Fenchlorophos (Ronnel)	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Fensulfothion	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Fenthion	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Merphos	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Mevinphos (Phosdrin)	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Malathion	ND	ng/l	5	1
11/08/05 00:00			(EPA 625 MODSUB)	Parathion-methyl	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Phorate	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Tokuthion	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Tetrachlorovinphos (Stirophos)	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Trichloronate	ND	ng/l	10	1



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Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
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SITE 4 HAINES CANYON CREEK 1 (2510250154) Sampled on 10/25/05 10:00

10/25/05 15:58			(ML/SM9221C)	Fecal Coliform Bacteria	80	MPNM	2	1
10/27/05 00:00	292805		(ML/EPA 547)	Glyphosate	ND	ug/l	6	1
11/09/05 00:00	294348		(ML/EPA 350.1)	Ammonia Nitrogen	ND	mg/l	0.05	1
10/25/05 21:41	292533		(ML/EPA 300.0)	Nitrite, Nitrogen by IC	ND	mg/l	0.2	2
10/25/05 21:41	292536		(EPA/MW 300.0)	Nitrate as Nitrogen by IC	2.8	mg/l	0.2	2
10/25/05 21:41	292528		()	Nitrate as NO3 (calc)	12	mg/l	0.88	2
10/25/05 17:30	292617		(4500P-E/365.2)	Orthophosphate-P	0.044	mg/l	0.01	1
11/07/05 00:00	294153		(S4500PE/ 365.1)	Total phosphorus-P	ND	mg/l	0.01	1
11/02/05 00:00	293698		(ML/EPA 351.2)	Kjeldahl Nitrogen	0.34	mg/l	0.2	1
10/25/05 15:58			(ML/SM9221B)	Total Coliform Bacteria	1600	MPNM	2	1
10/25/05 16:11	292521		(ML/EPA 180.1)	Turbidity	1.7	NTU	0.05	1

Diazinon/Chlorpyrifos by GCMS

11/08/05 00:00			(EPA 625 MODSUB)	Diazinon	ND	ng/l	5	1
11/08/05 00:00			(EPA 625 MODSUB)	Bolstar (Sulprofos)	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Chlorpyrifos	ND	ng/l	5	1
11/08/05 00:00			(EPA 625 MODSUB)	Demeton	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Dichlorvos	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Disulfoton	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Dimethoate	ND	ng/l	5	1
11/08/05 00:00			(EPA 625 MODSUB)	Ethoprop (Ethoprophos)	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Fenchlorophos (Ronnell)	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Fensulfothion	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Fenthion	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Merphos	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Mevinphos (Phosdrin)	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Malathion	ND	ng/l	5	1
11/08/05 00:00			(EPA 625 MODSUB)	Parathion-methyl	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Phorate	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Tokuthion	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Tetrachlorovinphos (Stirophos)	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Trichloronate	ND	ng/l	10	1



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Applied Research Dept, MWH (Darren
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Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
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SITE 4 HAINES CANYON CREEK 2 (2510250155) Sampled on 10/25/05 10:15

10/25/05 15:58			(ML/SM9221C)	Fecal Coliform Bacteria	130	MPNM	2	1
10/27/05 00:00	292805		(ML/EPA 547)	Glyphosate	ND	ug/l	6	1
11/09/05 00:00	294348		(ML/EPA 350.1)	Ammonia Nitrogen	ND	mg/l	0.05	1
10/25/05 19:56	292532		(ML/EPA 300.0)	Nitrite, Nitrogen by IC	ND	mg/l	0.2	2
10/25/05 19:56	292535		(EPA/MW 300.0)	Nitrate as Nitrogen by IC	2.8	mg/l	0.2	2
10/25/05 19:56	292527		()	Nitrate as NO3 (calc)	12	mg/l	0.88	2
10/25/05 17:30	292617		(4500P-E/365.2)	Orthophosphate-P	0.042	mg/l	0.01	1
11/07/05 00:00	294153		(S4500PE/ 365.1)	Total phosphorus-P	ND	mg/l	0.01	1
11/02/05 00:00	293698		(ML/EPA 351.2)	Kjeldahl Nitrogen	0.27	mg/l	0.2	1
10/25/05 15:58			(ML/SM9221B)	Total Coliform Bacteria	2200	MPNM	2	1
10/25/05 16:11	292521		(ML/EPA 180.1)	Turbidity	0.50	NTU	0.05	1

Diazinon/Chlorpyrifos by GCMS

11/08/05 00:00			(EPA 625 MODSUB)	Diazinon	ND	ng/l	5	1
11/08/05 00:00			(EPA 625 MODSUB)	Bolstar (Sulprofos)	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Chlorpyrifos	ND	ng/l	5	1
11/08/05 00:00			(EPA 625 MODSUB)	Demeton	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Dichlorvos	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Disulfoton	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Dimethoate	ND	ng/l	5	1
11/08/05 00:00			(EPA 625 MODSUB)	Ethoprop (Ethoprophos)	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Fenchlorophos (Ronnel)	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Fensulfothion	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Fenthion	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Merphos	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Mevinphos (Phosdrin)	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Malathion	ND	ng/l	5	1
11/08/05 00:00			(EPA 625 MODSUB)	Parathion-methyl	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Phorate	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Tokuthion	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Tetrachlorovinphos (Stirophos)	ND	ng/l	10	1
11/08/05 00:00			(EPA 625 MODSUB)	Trichloronate	ND	ng/l	10	1



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QC Ref #292521 - Turbidity

Analysis Date: 10/25/2005

2510250143	SITE 1 INFLOW TO TJ POND Analyzed by: sar
2510250149	SITE 1 INFLOW TO TJ POND Analyzed by: sar
2510250150	SITE 2 OUTFLOW FRM TJ PO Analyzed by: sar
2510250151	SITE 2 OUTFLOW FRM TJ POU Analyzed by: sar
2510250152	SITE 3 BIG TJ WASH 1 Analyzed by: sar
2510250153	SITE 3 BIG TJ WASH 2 Analyzed by: sar
2510250154	SITE 4 HAINES CANYON CREE Analyzed by: sar
2510250155	SITE 4 HAINES CANYON CREE Analyzed by: sar

QC Ref #292527 - Nitrate as NO3 (calc)

Analysis Date: 10/25/2005

2510250143	SITE 1 INFLOW TO TJ POND Analyzed by: gdt
2510250149	SITE 1 INFLOW TO TJ POND Analyzed by: gdt
2510250150	SITE 2 OUTFLOW FRM TJ PO Analyzed by: gdt
2510250151	SITE 2 OUTFLOW FRM TJ POU Analyzed by: gdt
2510250152	SITE 3 BIG TJ WASH 1 Analyzed by: gdt
2510250153	SITE 3 BIG TJ WASH 2 Analyzed by: gdt
2510250155	SITE 4 HAINES CANYON CREE Analyzed by: gdt

QC Ref #292528 - Nitrate as NO3 (calc)

Analysis Date: 10/25/2005

2510250154	SITE 4 HAINES CANYON CREE Analyzed by: gdt
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QC Ref #292532 - Nitrite, Nitrogen by IC

Analysis Date: 10/25/2005

2510250143	SITE 1 INFLOW TO TJ POND Analyzed by: gdt
2510250149	SITE 1 INFLOW TO TJ POND Analyzed by: gdt
2510250150	SITE 2 OUTFLOW FRM TJ PO Analyzed by: gdt
2510250151	SITE 2 OUTFLOW FRM TJ POU Analyzed by: gdt
2510250152	SITE 3 BIG TJ WASH 1 Analyzed by: gdt
2510250153	SITE 3 BIG TJ WASH 2 Analyzed by: gdt
2510250155	SITE 4 HAINES CANYON CREE Analyzed by: gdt



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(continued)

QC Ref #292533 - Nitrite, Nitrogen by IC Analysis Date: 10/25/2005
2510250154 SITE 4 HAINES CANYON CREEAnalyzed by: gdt

QC Ref #292535 - Nitrate as Nitrogen by IC Analysis Date: 10/25/2005
2510250143 SITE 1 INFLOW TO TJ POND Analyzed by: gdt
2510250149 SITE 1 INFLOW TO TJ POND Analyzed by: gdt
2510250150 SITE 2 OUTFLOW FRM TJ POAnalyzed by: gdt
2510250151 SITE 2 OUTFLOW FRM TJ POUAnalyzed by: gdt
2510250152 SITE 3 BIG TJ WASH 1 Analyzed by: gdt
2510250153 SITE 3 BIG TJ WASH 2 Analyzed by: gdt
2510250155 SITE 4 HAINES CANYON CREEAnalyzed by: gdt

QC Ref #292536 - Nitrate as Nitrogen by IC Analysis Date: 10/25/2005
2510250154 SITE 4 HAINES CANYON CREEAnalyzed by: gdt

QC Ref #292617 - Orthophosphate-P Analysis Date: 10/25/2005
2510250143 SITE 1 INFLOW TO TJ POND Analyzed by: dis
2510250149 SITE 1 INFLOW TO TJ POND Analyzed by: dis
2510250150 SITE 2 OUTFLOW FRM TJ POAnalyzed by: dis
2510250151 SITE 2 OUTFLOW FRM TJ POUAnalyzed by: dis
2510250152 SITE 3 BIG TJ WASH 1 Analyzed by: dis
2510250153 SITE 3 BIG TJ WASH 2 Analyzed by: dis
2510250154 SITE 4 HAINES CANYON CREEAnalyzed by: dis
2510250155 SITE 4 HAINES CANYON CREEAnalyzed by: dis

QC Ref #292801 - Glyphosate Analysis Date: 10/26/2005
2510250143 SITE 1 INFLOW TO TJ POND Analyzed by: phk
2510250149 SITE 1 INFLOW TO TJ POND Analyzed by: phk
2510250150 SITE 2 OUTFLOW FRM TJ POAnalyzed by: phk
2510250151 SITE 2 OUTFLOW FRM TJ POUAnalyzed by: phk
2510250152 SITE 3 BIG TJ WASH 1 Analyzed by: phk



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Laboratory
QC Summary
#159681

Applied Research Dept, MWH (Darren
Giles)
(continued)

QC Ref #292805 - Glyphosate

Analysis Date: 10/27/2005

2510250153	SITE 3 BIG TJ WASH 2	Analyzed by: phk
2510250154	SITE 4 HAINES CANYON CREE	Analyzed by: phk
2510250155	SITE 4 HAINES CANYON CREE	Analyzed by: phk

QC Ref #293698 - Kjeldahl Nitrogen

Analysis Date: 11/02/2005

2510250143	SITE 1 INFLOW TO TJ POND	Analyzed by: bxr
2510250149	SITE 1 INFLOW TO TJ POND	Analyzed by: bxr
2510250150	SITE 2 OUTFLOW FRM TJ PO	Analyzed by: bxr
2510250151	SITE 2 OUTFLOW FRM TJ POU	Analyzed by: bxr
2510250152	SITE 3 BIG TJ WASH 1	Analyzed by: bxr
2510250153	SITE 3 BIG TJ WASH 2	Analyzed by: bxr
2510250154	SITE 4 HAINES CANYON CREE	Analyzed by: bxr
2510250155	SITE 4 HAINES CANYON CREE	Analyzed by: bxr

QC Ref #294153 - Total phosphorus-P

Analysis Date: 11/07/2005

2510250143	SITE 1 INFLOW TO TJ POND	Analyzed by: bxr
2510250149	SITE 1 INFLOW TO TJ POND	Analyzed by: bxr
2510250150	SITE 2 OUTFLOW FRM TJ PO	Analyzed by: bxr
2510250151	SITE 2 OUTFLOW FRM TJ POU	Analyzed by: bxr
2510250152	SITE 3 BIG TJ WASH 1	Analyzed by: bxr
2510250153	SITE 3 BIG TJ WASH 2	Analyzed by: bxr
2510250154	SITE 4 HAINES CANYON CREE	Analyzed by: bxr
2510250155	SITE 4 HAINES CANYON CREE	Analyzed by: bxr

QC Ref #294348 - Ammonia Nitrogen

Analysis Date: 11/09/2005

2510250143	SITE 1 INFLOW TO TJ POND	Analyzed by: clv
2510250149	SITE 1 INFLOW TO TJ POND	Analyzed by: clv
2510250150	SITE 2 OUTFLOW FRM TJ PO	Analyzed by: clv
2510250151	SITE 2 OUTFLOW FRM TJ POU	Analyzed by: clv
2510250152	SITE 3 BIG TJ WASH 1	Analyzed by: clv
2510250153	SITE 3 BIG TJ WASH 2	Analyzed by: clv
2510250154	SITE 4 HAINES CANYON CREE	Analyzed by: clv
2510250155	SITE 4 HAINES CANYON CREE	Analyzed by: clv



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Laboratory
QC Summary
#159681

Applied Research Dept, MWH (Darren
Giles)
(continued)



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Laboratory
QC Report
#159681

Applied Research Dept, MWH (Darren
Giles)

QC Ref #292521 Turbidity

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
DUP	Turbidity	0.15	0.15	NTU		(0-20)	0.0
MRL_CHK	Turbidity	0.0500	0.048	NTU	96.0	(50-150)	

QC Ref #292532 Nitrite, Nitrogen by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 25	10250296	MGL		(0-0)	
LCS1	Nitrite, Nitrogen by IC	1.0	1.08	MGL	108.0	(90-110)	
LCS2	Nitrite, Nitrogen by IC	1.0	1.07	MGL	107.0	(90-110)	0.93
MBLK	Nitrite, Nitrogen by IC	ND	<0.1	MGL			
MS	Nitrite, Nitrogen by IC	1.0	1.06	MGL	106.0	(90-110)	
MSD	Nitrite, Nitrogen by IC	1.0	1.06	MGL	106.0	(90-110)	0.00

QC Ref #292533 Nitrite, Nitrogen by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 25	10250154	MGL		(0-0)	
LCS1	Nitrite, Nitrogen by IC	1.0	1.08	MGL	108.0	(90-110)	
LCS2	Nitrite, Nitrogen by IC	1.0	1.06	MGL	106.0	(90-110)	1.9
MBLK	Nitrite, Nitrogen by IC	ND	<0.1	MGL			
MS	Nitrite, Nitrogen by IC	1.0	1.14	MGL	<u>114.0</u>	(90-110)	
MSD	Nitrite, Nitrogen by IC	1.0	1.41	MGL	<u>141.0</u>	(90-110)	21

QC Ref #292535 Nitrate as Nitrogen by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 25	10250296	MGL		(0-0)	
LCS1	Nitrate as Nitrogen by IC	2.5	2.61	MGL	104.4	(90-110)	
LCS2	Nitrate as Nitrogen by IC	2.5	2.61	MGL	104.4	(90-110)	0.00

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only, batch control is based on LCS. Criteria for duplicates
are advisory only, unless otherwise specified in the method.



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Laboratory
QC Report
#159681

Applied Research Dept, MWH (Darren
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(continued)

MBLK	Nitrate as Nitrogen by IC	ND	<0.1	MGL			
MS	Nitrate as Nitrogen by IC	2.5	2.33	MGL	93.2	(90-110)	
MSD	Nitrate as Nitrogen by IC	2.5	2.31	MGL	92.4	(90-110)	0.86

QC Ref #292536 Nitrate as Nitrogen by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 25	10250154	MGL		(0-0)	
LCS1	Nitrate as Nitrogen by IC	2.5	2.65	MGL	106.0	(90-110)	
LCS2	Nitrate as Nitrogen by IC	2.5	2.62	MGL	104.8	(90-110)	1.1
MBLK	Nitrate as Nitrogen by IC	ND	<0.1	MGL			
MS	Nitrate as Nitrogen by IC	2.5	2.5	MGL	100.0	(90-110)	
MSD	Nitrate as Nitrogen by IC	2.5	2.49	MGL	99.6	(90-110)	0.40

QC Ref #292617 Orthophosphate-P

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 25	10250301	MGL		(0-0)	
LCS1	Orthophosphate-P	0.5	0.518	MGL	103.6	(90-110)	
LCS2	Orthophosphate-P	0.5	0.514	MGL	102.8	(90-110)	0.78
MBLK	Orthophosphate-P	ND	<0.01	MGL			
MRL_CHK	Orthophosphate-P	0.010	0.012	MGL	120.0	(50-150)	
MS	Orthophosphate-P	0.5	0.504	MGL	100.8	(80-120)	
MSD	Orthophosphate-P	0.5	0.501	MGL	100.2	(80-120)	0.60

QC Ref #292801 Glyphosate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 25	10240019	UGL		(0-0)	
LCS1	Glyphosate	10	10.5	UGL	105.0	(82-115)	
MBLK	Glyphosate	ND	<6	UGL			
MRL_CHK	Glyphosate	6.00	4.89	UGL	81.5	(50-150)	

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only, batch control is based on LCS. Criteria for duplicates
are advisory only, unless otherwise specified in the method.



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Laboratory
QC Report
#159681

Applied Research Dept, MWH (Darren
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(continued)

MS	Glyphosate	10	10.3	UGL	103.0	(82-115)	
MSD	Glyphosate	10	10.5	UGL	105.0	(82-115)	1.9

QC Ref #292805 Glyphosate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 25	10250153	UGL		(0-0)	
LCS1	Glyphosate	10	10.7	UGL	107.0	(82-115)	
MBLK	Glyphosate	ND	<6	UGL			
MRL_CHK	Glyphosate	6.00	5.20	UGL	86.7	(50-150)	
MS	Glyphosate	10	10.2	UGL	102.0	(82-115)	
MSD	Glyphosate	10	10.1	UGL	101.0	(82-115)	0.99

QC Ref #293698 Kjeldahl Nitrogen

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 25	10250635	MGL		(0-0)	
LCS1	Kjeldahl Nitrogen	4	4.28	MGL	107.0	(90-110)	
LCS2	Kjeldahl Nitrogen	4	4.35	MGL	108.7	(90-110)	1.6
MBLK	Kjeldahl Nitrogen	ND	<0.2	MGL			
MS	Kjeldahl Nitrogen	4	4.55	MGL	<u>113.8</u>	(90-110)	
MSD	Kjeldahl Nitrogen	4	4.54	MGL	<u>113.5</u>	(90-110)	0.22
RPD_LCS	Kjeldahl Nitrogen	107.000	108.750	MGL	1.6	(0-20)	
RPD_MS	Kjeldahl Nitrogen	113.750	113.500	MGL	0.2	(0-10)	

QC Ref #294153 Total phosphorus-P

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 25	10250319	MGL		(0-0)	
LCS1	Total phosphorus-P	0.4	0.395	MGL	98.8	(90-110)	
LCS2	Total phosphorus-P	0.4	0.419	MGL	104.7	(90-110)	5.9
MBLK	Total phosphorus-P	ND	<0.01	MGL			

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only, batch control is based on LCS. Criteria for duplicates
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QC Report
#159681

Applied Research Dept, MWH (Darren
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(continued)

MS	Total phosphorus-P	0.4	0.415	MGL	103.7	(90-110)	
MSD	Total phosphorus-P	0.4	0.432	MGL	108.0	(90-110)	4.0
RPD_LCS	Total phosphorus-P	98.750	104.750	MGL	5.9	(0-10)	
RPD_MS	Total phosphorus-P	103.750	108.000	MGL	4.0	(0-10)	

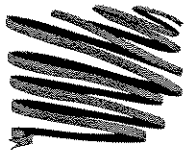
QC Ref #294348

Ammonia Nitrogen

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 25	10210217	MGL		(0-0)	
LCS1	Ammonia Nitrogen	1.00	0.99	MGL	99.0	(90-110)	
LCS2	Ammonia Nitrogen	1.00	0.97	MGL	97.0	(90-110)	2.0
MBLK	Ammonia Nitrogen	ND	<0.05	MGL			
MS	Ammonia Nitrogen	1.00	0.97	MGL	97.0	(90-110)	
MSD	Ammonia Nitrogen	1.00	0.92	MGL	92.0	(90-110)	5.3

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only, batch control is based on LCS. Criteria for duplicates
are advisory only, unless otherwise specified in the method.

159681
ARD-DG



CRG

Marine Laboratories, Inc.

2020 Del Amo Blvd. Suite 200, Torrance, CA 90501 • (310) 533-5190 • FAX (310) 533-5003 • mmercier@crqlabs.com

November 12, 2005

MWH Laboratories
750 Royal Oaks Dr., Suite 100
Monrovia, CA 91016-3629

Re: CRG Project ID: P2502as
 MWH Project: 159681
 MWH Sub PO: 99-19196

ATTN: Mr. Michael Lettona

CRG Laboratories is pleased to provide you with the enclosed analytical data report for your 159681 Project. According to the chain-of-custody, 8 wastewater samples were received intact and cool at CRG on October 27, 2005. Per your instructions, the samples were analyzed for:

- Organophosphorus Pesticides By GCMS Using EPA Method 625

Please don't hesitate to call if you have any questions and thank you very much for using our laboratory for your analytical needs.

Regards,
Misty B. Mercier
Project Manager

Misty B. Mercier

Digitally signed by Misty B. Mercier
DN: CN = Misty B. Mercier, C = US, O =
CRG Marine Laboratories, Inc., OU =
Project Manager
Date: 2005.11.12 15:02:57 -08'00'

Reviewed and Approved

DATA REPORT

CRG Marine Laboratories, Inc.

2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

Organophosphorus Pesticides

Client: MWH Laboratories

CRG Project ID: 2502az

CRG ID#: 32503 **Sample Description:** 2510250148 **SITE:** 1 INFLOW TO T.J POND 1 **Date Sampled:** 25-Oct-05 11:30
Replicate #: R1 **Project #:** 159681 / PO #99-19196
Batch ID: 2502az-15051 **Matrix:** Wastewater
Instrument: GC/MS #2 Shimadzu QP2010 **Analyst:** D. Gonsman

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DILUTION FACTOR	ACCEPTANCE RANGE
(PCB030)	Total	EPA 625(m)	89	% Recovery			1	46 - 119%
(PCB112)	Total	EPA 625(m)	89	% Recovery			1	52 - 123%
(PCB198)	Total	EPA 625(m)	97	% Recovery			1	59 - 123%
(TCMX)	Total	EPA 625(m)	83	% Recovery			1	40 - 110%
Bolstar (Sulprofos)	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Chlorpyrifos	Total	EPA 625(m)	ND	ng/L	5	10	1	NA
Demeton	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Diazinon	Total	EPA 625(m)	ND	ng/L	5	10	1	NA
Dichlorvos	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Dimethoate	Total	EPA 625(m)	ND	ng/L	5	10	1	NA
Disulfoton	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Ethoprop (Ethoprofos)	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Fenchlorphos (Ronnel)	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Fensulfthion	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Fenthion	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Malathion	Total	EPA 625(m)	ND	ng/L	5	10	1	NA
Merphos	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Methyl Parathion	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Mevinphos (Phosdrin)	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Phorate	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Tetrachlorvinphos (Strofos)	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Tokuthion	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Trichloronate	Total	EPA 625(m)	ND	ng/L	10	20	1	NA

MDL= Method Detection Limit (CFR 40 Part 136); RL= Minimum Level (SWRCB); E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261
32503 RI

CRG Marine Laboratories, Inc.
Organophosphorus Pesticides

2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

Client: MWH Laboratories **CRG Project ID:** 2502az
CRG ID#: 32504 **Sample Description:** 2510250149 SITE 1 INFLOW TO TJ POND 2 **Date Sampled:** 25-Oct-05 11:45
Replicate #: R1 **Project #:** 159681 / PO #99-19196 **Date Received:** 27-Oct-05
Batch ID: 2502az-15051 **Matrix:** Wastewater **Date Processed:** 28-Nov-05
Instrument: GC/MS #2 Shimadzu QP2010 **Analyst:** D. Gonsman **Date Analyzed:** 08-Nov-05

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DILUTION FACTOR	ACCEPTANCE RANGE
(PCB030)	Total	EPA 625(m)	95	% Recovery			1	46 - 119%
(PCB112)	Total	EPA 625(m)	97	% Recovery			1	52 - 123%
(PCB198)	Total	EPA 625(m)	97	% Recovery			1	59 - 123%
(TCMX)	Total	EPA 625(m)	82	% Recovery			1	40 - 110%
Bolistar (Sulprofos)	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Chlorpyrifos	Total	EPA 625(m)	ND	ng/L	5	10	1	NA
Demeton	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Diazinon	Total	EPA 625(m)	ND	ng/L	5	10	1	NA
Dichlorvos	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Dimethoate	Total	EPA 625(m)	ND	ng/L	5	10	1	NA
Disulfoton	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Ethoprop (Ethoprofos)	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Fenchlorphos (Ronnel)	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Fensulfothion	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Fenthion	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Malathion	Total	EPA 625(m)	ND	ng/L	5	10	1	NA
Merphos	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Methyl Parathion	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Mevinphos (Phosdrin)	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Phorate	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Tetrachlorvinphos (Stirofos)	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Tokuthion	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Trichloronate	Total	EPA 625(m)	ND	ng/L	10	20	1	NA

MDL= Method Detection Limit (CFR 40 Part 136); RL= Minimum Level (SWRCB); E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

32504 RI
 California ELAP Certificate # 2261

CRG Marine Laboratories, Inc.

2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

Organophosphorus Pesticides

Client: **MWH Laboratories**

CRG Project ID: **2502az**

CRG ID#: 32505 **Sample Description:** 2510250150 **SITE:** 2 OUTFLOW FR TJ POND1 **Date Sampled:** 25-Oct-05 **12:30**
Replicate #: R1 **Project #:** 159681 / PO #99-19196
Batch ID: 2502az-15051 **Matrix:** Wastewater
Instrument: GC/MS #2 Shimadzu QP2010 **Analyst:** D. Gonsman
Date Processed: 28-Nov-05
Date Analyzed: 08-Nov-05

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DILUTION FACTOR	ACCEPTANCE RANGE
(PCB030)	Total	EPA 625(m)	96	% Recovery			1	46 - 119%
(PCB112)	Total	EPA 625(m)	90	% Recovery			1	52 - 123%
(PCB198)	Total	EPA 625(m)	98	% Recovery			1	59 - 123%
(TCMX)	Total	EPA 625(m)	94	% Recovery			1	40 - 110%
Bolstar (Sulprofos)	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Chlorpyrifos	Total	EPA 625(m)	ND	ng/L	5	10	1	NA
Demeton	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Diazinon	Total	EPA 625(m)	ND	ng/L	5	10	1	NA
Dichlorvos	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Dimethoate	Total	EPA 625(m)	ND	ng/L	5	10	1	NA
Disulfoton	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Ethoprop (Ethoprofos)	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Fenchlorphos (Ronnel)	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Fensulfothion	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Fenthion	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Malathion	Total	EPA 625(m)	ND	ng/L	5	10	1	NA
Merphos	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Methyl Parathion	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Mevinphos (Phosdrin)	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Phorate	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Tetrachlorvinphos (Stirofos)	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Tokuthion	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Trichloronate	Total	EPA 625(m)	ND	ng/L	10	20	1	NA

MDL= Method Detection Limit (CFR 40 Part 136); RL= Minimum Level (SWRCB); E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261
32505 RI

CRG Marine Laboratories, Inc.

2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

Organophosphorus Pesticides

Client: MWH Laboratories

CRG Project ID: 2502az

CRG ID#: 32506	Sample Description: 2510250151	Date Sampled: 25-Oct-05	12:40
Replicate #: R1	Project #159881 / PO #99-19196	Date Received: 27-Oct-05	
Batch ID: 2502az-15051	Matrix: Wastewater	Date Processed: 28-Nov-05	
Instrument: GC/MS #2 Shimadzu QP2010	Analyst: D. Gonsman	Date Analyzed: 08-Nov-05	

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DILUTION FACTOR	ACCEPTANCE RANGE
(PCB030)	Total	EPA 625(m)	90	% Recovery			1	46 - 119%
(PCB112)	Total	EPA 625(m)	89	% Recovery			1	52 - 123%
(PCB198)	Total	EPA 625(m)	97	% Recovery			1	59 - 123%
(TCMX)	Total	EPA 625(m)	85	% Recovery			1	40 - 110%
Bolstar (Sulprofos)	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Chlorpyrifos	Total	EPA 625(m)	ND	ng/L	5	10	1	NA
Demeton	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Diazinon	Total	EPA 625(m)	ND	ng/L	5	10	1	NA
Dichlorvos	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Dimethoate	Total	EPA 625(m)	ND	ng/L	5	10	1	NA
Disulfoton	Total	EPA 625(m)	ND	ng/L	5	10	1	NA
Ethoprop (Ethoprofos)	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Fenchlorphos (Ronnel)	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Fensulfothion	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Fenthion	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Malathion	Total	EPA 625(m)	ND	ng/L	5	10	1	NA
Merphos	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Methyl Parathion	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Mevinphos (Phosdrin)	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Phorate	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Tetrachlorvinphos (Stirofos)	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Tokuthion	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Trichloronate	Total	EPA 625(m)	ND	ng/L	10	20	1	NA

MDL= Method Detection Limit (CFR 40 Part 136); RL= Minimum Level (SWRCB); E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261
32506 RI

CRG Marine Laboratories, Inc.

2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

Organophosphorus Pesticides

Client: MWH Laboratories

CRG Project ID: 2502az

CRG ID#: 32507	Sample Description: 2510250152	Date Sampled: 25-Oct-05	13:20
Replicate #: R1	Project #159881 / PO #99-19196	Date Received: 27-Oct-05	
Batch ID: 2502az-15051	Matrix: Wastewater	Date Processed: 28-Nov-05	
Instrument: GC/MS #2 Shimadzu QP2010	Analyst: D. Gonsman	Date Analyzed: 08-Nov-05	

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DILUTION FACTOR	ACCEPTANCE RANGE
(PCB030)	Total	EPA 625(m)	94	% Recovery			1	46 - 119%
(PCB112)	Total	EPA 625(m)	91	% Recovery			1	52 - 123%
(PCB198)	Total	EPA 625(m)	99	% Recovery			1	59 - 123%
(TCMX)	Total	EPA 625(m)	88	% Recovery			1	40 - 110%
Bolstar (Sulprofos)	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Chlorpyrifos	Total	EPA 625(m)	ND	ng/L	5	10	1	NA
Demeton	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Diazinon	Total	EPA 625(m)	ND	ng/L	5	10	1	NA
Dichlorvos	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Dimethoate	Total	EPA 625(m)	ND	ng/L	5	10	1	NA
Disulfoton	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Ethoprop (Ethoprofos)	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Fenchlorphos (Ronnel)	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Fensulfothion	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Fenthion	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Malathion	Total	EPA 625(m)	ND	ng/L	5	10	1	NA
Merphos	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Methyl Parathion	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Mevinphos (Phosdrin)	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Phorate	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Tetrachlorvinphos (Stirofos)	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Tokuthion	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Trichloronate	Total	EPA 625(m)	ND	ng/L	10	20	1	NA

MDL= Method Detection Limit (CFR 40 Part 136); RL= Minimum Level (SWRCB); E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261
32507 RI

CRG Marine Laboratories, Inc.

2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crgliabs@sbcglobal.net

Organophosphorus Pesticides

Client: MWH Laboratories

CRG Project ID: 2502az

CRG ID#: 32508 Replicate #: R1 Batch ID: 2502az-15051 Instrument: GC/MS #2 Shimadzu QP2010	Sample Description: 2510250153 SITE 3 BIG TJ WASH 2 Project #159681 / PO #99-19196 Matrix: Wastewater Analyst: D. Gonsman	Date Sampled: 25-Oct-05 13:30 Date Received: 27-Oct-05 Date Processed: 28-Nov-05 Date Analyzed: 08-Nov-05
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CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DILUTION FACTOR	ACCEPTANCE RANGE
(PCB030)	Total	EPA 625(m)	85	% Recovery			1	46 - 119%
(PCB112)	Total	EPA 625(m)	90	% Recovery			1	52 - 123%
(PCB198)	Total	EPA 625(m)	99	% Recovery			1	59 - 123%
(TCMX)	Total	EPA 625(m)	86	% Recovery			1	40 - 110%
Bolstar (Sulprofos)	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Chlorpyrifos	Total	EPA 625(m)	ND	ng/L	5	10	1	NA
Demeton	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Diazinon	Total	EPA 625(m)	ND	ng/L	5	10	1	NA
Dichlorvos	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Dimethoate	Total	EPA 625(m)	ND	ng/L	5	10	1	NA
Disulfoton	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Ethoprop (Ethoprofos)	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Fenchlorphos (Ronnel)	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Fensulfothion	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Fenthion	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Malathion	Total	EPA 625(m)	ND	ng/L	5	10	1	NA
Merphos	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Methyl Parathion	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Mevinphos (Phosdrin)	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Phorate	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Tetrachlorvinphos (Stirofos)	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Tokuthion	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Trichloronate	Total	EPA 625(m)	ND	ng/L	10	20	1	NA

MDL= Method Detection Limit (CFR 40 Part 136); RL= Minimum Level (SWRCB); E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261
32508 RI

CRG Marine Laboratories, Inc.

2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

Organophosphorus Pesticides

Client: MWH Laboratories

CRG Project ID: 2502az

CRG ID#: 32509 **Sample ID:** 2510250154 **Site:** SITE 4 HAINES CYN CRK 1 **Date Sampled:** 25-Oct-05 10:00
Replicate #: R1 **Description:** Project #159881 / PO #99-19196
Batch ID: 2502az-15051 **Matrix:** Wastewater
Instrument: GC/MS #2 Shimadzu QP2010 **Analyst:** D. Gonsman **Date Processed:** 28-Nov-05
Date Analyzed: 08-Nov-05

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DILUTION FACTOR	ACCEPTANCE RANGE
(PCB030)	Total	EPA 625(m)	85	% Recovery			1	46 - 119%
(PCB112)	Total	EPA 625(m)	86	% Recovery			1	52 - 123%
(PCB198)	Total	EPA 625(m)	97	% Recovery			1	59 - 123%
(TCMX)	Total	EPA 625(m)	85	% Recovery			1	40 - 110%
Bolstar (Sulprofos)	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Chlorpyrifos	Total	EPA 625(m)	ND	ng/L	5	10	1	NA
Demeton	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Diazinon	Total	EPA 625(m)	ND	ng/L	5	10	1	NA
Dichlorvos	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Dimethoate	Total	EPA 625(m)	ND	ng/L	5	10	1	NA
Disulfoton	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Ethoprop (Ethoprofos)	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Fenchlorphos (Ronnel)	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Fensulfothion	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Fenthion	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Malathion	Total	EPA 625(m)	ND	ng/L	5	10	1	NA
Merphos	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Methyl Parathion	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Mevinphos (Phosdrin)	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Phorate	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Tetrachlorvinphos (Stirofos)	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Tokuthion	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Trichloronate	Total	EPA 625(m)	ND	ng/L	10	20	1	NA

MDL= Method Detection Limit (CFR 40 Part 136); RL= Minimum Level (SWRCB); E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261
32509 RI

CRG Marine Laboratories, Inc.

2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

Organophosphorus Pesticides

Client: MWH Laboratories

CRG Project ID: 2502az

CRG ID#: 32510 **Sample Description:** 2510250155 **SITE:** 4 HAINES CYN CRK 2 **Date Sampled:** 25-Oct-05 **10:15**
Replicate #: R1 **Project #:** 159681 / PO #99-19196
Batch ID: 2502az-15051 **Matrix:** Wastewater
Instrument: GC/MS #2 Shimadzu QP2010 **Analyst:** D. Gonsman

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DILUTION FACTOR	ACCEPTANCE RANGE
(PCB030)	Total	EPA 625(m)	101	% Recovery			1	46 - 119%
(PCB112)	Total	EPA 625(m)	100	% Recovery			1	52 - 123%
(PCB198)	Total	EPA 625(m)	108	% Recovery			1	59 - 123%
(TCMX)	Total	EPA 625(m)	97	% Recovery			1	40 - 110%
Bolstar (Sulprofos)	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Chlorpyrifos	Total	EPA 625(m)	ND	ng/L	5	10	1	NA
Demeton	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Diazinon	Total	EPA 625(m)	ND	ng/L	5	10	1	NA
Dichlorvos	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Dimethoate	Total	EPA 625(m)	ND	ng/L	5	10	1	NA
Disulfoton	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Ethoprop (Ethoprofos)	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Fenchlorphos (Ronnel)	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Fensulfothion	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Fenthion	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Malathion	Total	EPA 625(m)	ND	ng/L	5	10	1	NA
Merphos	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Methyl Parathion	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Mevinphos (Phosdrin)	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Phorate	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Tetrachlorvinphos (Stirofos)	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Tekuthion	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Trichloronate	Total	EPA 625(m)	ND	ng/L	10	20	1	NA

MDL= Method Detection Limit (CFR 40 Part 136); **RL=** Minimum Level (SWRCB); **E=** Estimated Value below the RL and above the MDL; **ND=** Not Detected; **NA=** Not Applicable.

California ELAP Certificate # 2261
 32510 RI

QUALITY CONTROL REPORT

CRG Marine Laboratories, Inc.

2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

Organophosphorus Pesticides

Client: MWH Laboratories

CRG Project ID: 2502az

CRG ID#: 32502 **Sample Description:** QA/QC Procedural Blank **Date Sampled:**
Replicate #: B1 **Project #:** 159681 / PO #99-19196 **Date Received:**
Batch ID: 2502az-15051 **Matrix:** DI Water **Date Processed:** 28-Nov-05
Instrument: GC/MS #2 Shimadzu QP2010 **Analyst:** D. Gonsman **Date Analyzed:** 08-Nov-05

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DILUTION FACTOR	ACCEPTANCE RANGE
(PCB030)	Total	EPA 625(m)	99	% Recovery			1	46 - 119%
(PCB112)	Total	EPA 625(m)	91	% Recovery			1	52 - 123%
(PCB198)	Total	EPA 625(m)	95	% Recovery			1	59 - 123%
(TCMX)	Total	EPA 625(m)	96	% Recovery			1	40 - 110%
Bolstar (Sulprofos)	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Chlorpyrifos	Total	EPA 625(m)	ND	ng/L	5	10	1	NA
Demeton	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Diazinon	Total	EPA 625(m)	ND	ng/L	5	10	1	NA
Dichlorvos	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Dimethoate	Total	EPA 625(m)	ND	ng/L	5	10	1	NA
Disulfoton	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Ethoprop (Ethoprofos)	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Fenchlorphos (Ronnel)	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Fensulfathion	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Fenthion	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Malathion	Total	EPA 625(m)	ND	ng/L	5	10	1	NA
Merphos	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Methyl Parathion	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Mevinphos (Phosdrin)	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Phorate	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Tetrachlorvinphos (Stirofos)	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Tokuthion	Total	EPA 625(m)	ND	ng/L	10	20	1	NA
Trichloronate	Total	EPA 625(m)	ND	ng/L	10	20	1	NA

MDL= Method Detection Limit (CFR 40 Part 136); RL= Minimum Level (SWRCB); E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261

32502 BI

CHAIN-OF-CUSTODY



MWH Laboratories
A Division of MWH Americas, Inc.
750 Royal Oaks Drive Suite 100
Monrovia, CA 91016-3629
Ph (626) 386-1100 Fax (626) 386-1095

Ship To **Misty B. Mercier**
CRG MARINE

2020 Del Amo Blvd
Suite 200
Torrance, CA 90501-1206

(310) 533-5190 x106 Fax (310) 533-5003

MWH Project # **Report Due:** Sub PO#
159681 11/10/05 99-19196



Client Sample ID for reference only

Date **10/26/05** **Submittal Form & Purchase Order 99-19196**

***REPORTING REQUIREMENTS: Do Not Combine Report with any other samples submitted under different MWH project numbers!**
Report & Invoice must have the MWH Project Number **159681** and Job #

Report all quality control data according to Method. Include dates analyzed, date extracted (if extracted) and Method reference on the report.
Results must have Complete data & QC with Approval Signature. See reverse side for List of Terms and Conditions

Reports: Michael Lettona Sub-contracting Administrator
EMAIL TO: Michael.Lettona@mwhglobal.com
MWH Laboratories 750 Royal Oaks Dr. Ste. 100, Monrovia, CA 91016
Phone (626) 386-1137 Fax (626) 386-1095
Invoices to: MWH LABORATORIES
Accounts Payable PO BOX 6610, Broomfield, CO 80021

Provide in each Report
the Specified State
Certification # & Exp Date for
requested tests + matrix

CA ELAP WW

P250242
32503-32510

	Client Sample ID for reference only	Analysis Requested	Sample Date & Time	Matrix	Container
1	2510250143	SITE 1 INFLOW TO TJ POND 1 DIAZINON & CHLORPYRIFOS by 625	10/25/05 11:30	WW	3 1L amber glass+ buffer+ascorbic+EDTA+DZU
2	2510250149	SITE 1 INFLOW TO TJ POND 2 DIAZINON & CHLORPYRIFOS by 625	10/25/05 11:45	WW	3 1L amber glass+ buffer+ascorbic+EDTA+DZU
3	2510250150	SITE 2 OUTFLOW FRM TJ POUND1 DIAZINON & CHLORPYRIFOS by 625	10/25/05 12:30	WW	3 1L amber glass+ buffer+ascorbic+EDTA+DZU
4	2510250151	SITE 2 OUTFLOW FRM TJ POUND2 DIAZINON & CHLORPYRIFOS by 625	10/25/05 12:40	WW	3 1L amber glass+ buffer+ascorbic+EDTA+DZU
5	2510250152	SITE 3 BIG TJ WASH 1 DIAZINON & CHLORPYRIFOS by 625	10/25/05 13:20	WW	3 1L amber glass+ buffer+ascorbic+EDTA+DZU
6	2510250153	SITE 3 BIG TJ WASH 2 DIAZINON & CHLORPYRIFOS by 625	10/25/05 13:30	WW	3 1L amber glass+ buffer+ascorbic+EDTA+DZU
7	2510250154	SITE 4 HAINES CANYON CREEK 1 DIAZINON & CHLORPYRIFOS by 625	10/25/05 10:00	WW	3 1L amber glass+ buffer+ascorbic+EDTA+DZU
8	2510250155	SITE4 HAINES CANYON CREEK 2 DIAZINON & CHLORPYRIFOS by 625	10/25/05 10:15	WW	3 1L amber glass+ buffer+ascorbic+EDTA+DZU

Relinquished by:

Received by:

Sample Control Date **10/26/05** Time **1339** MUST HAVE NOTIFICATION IF TEMP IS GREATER THAN 6 OR LESS THAN 2 CELSIUS
Page 1
Date **10/27/05** Time **1650**
An Acknowledgement of Receipt is requested to attain: Michael Lettona

**BIG TUJUNGA WASH MITIGATION BANK
WATER QUALITY MONITORING PROGRAM
DECEMBER 2005 LABORATORY RESULTS**



MWH Laboratories

A Division of MWH Americas, Inc.

750 Royal Oaks Drive
Suite 100
Monrovia, California 91016-3629
Tel: 626 568 6400
Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory Report

for

Applied Research Dept, MWH (Darren Giles)
327 West Maple Avenue

Monrovia , CA 91016

Attention: Darren Giles
Fax: (626) 359-3593



LXG Linda Geddes
Project Manager

Report#: 164120
BIG-TJ

Laboratory certifies that the test results meet all **NELAC** requirements unless noted in the Comments section or the Case Narrative. Following the cover page are Comments, QC Report, QC Summary, Data Report, Hits Report, totaling 19 page[s].



MWH Laboratories

A Division of MWH Americas, Inc.

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Report
Comments
#164120

Group Comments

Analytical results for Diazinon/Chlorpyrifos by GCMS are submitted by CRG Marine Laboratories, Torrance, CA.
ELAP 2261

(QC Ref#: 300757)

Test: Nitrite, Nitrogen by IC (ML/EPA 300.0)

QC Type: LCS1

Results high biased. Data not affected since all results are "ND".

QC Type: LCS2

Results high biased. Data not affected since all results are "ND".



A Division of MWH Americas, Inc.

750 Royal Oaks Drive
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 Tel: 626 568 6400
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 1 800 566 LABS (1 800 566 5227)

Laboratory
 Hits Report
 #164120

Applied Research Dept, MWH (Darren
 Giles)
 Darren Giles
 327 West Maple Avenue
 Monrovia, CA 91016

Samples Received
 22-dec-2005 14:34:23

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
2512220091 SITE 1 INFLOW TO TJ POND 1						
12/22/05		Fecal Coliform Bacteria	30		MPN/100 mL	2
01/12/06		Kjeldahl Nitrogen	0.23		mg/l	0.2
12/22/05		Nitrate as NO3 (calc)	17	45	mg/l	0.88
12/22/05		Nitrate as Nitrogen by IC	3.9	10	mg/l	0.2
12/22/05		Orthophosphate-P	0.027		mg/l	0.01
12/22/05		Total Coliform Bacteria	500		MPN/100 mL	2
01/09/06		Total phosphorus-P	0.086		mg/l	0.01
12/22/05		Turbidity	0.55	5	NTU	0.05
2512220095 SITE 1 INFLOW TO TJ POND 2						
12/27/05		Ammonia Nitrogen	0.06		mg/l	0.05
12/22/05		Fecal Coliform Bacteria	13		MPN/100 mL	2
01/12/06		Kjeldahl Nitrogen	0.37		mg/l	0.2
12/22/05		Nitrate as NO3 (calc)	17	45	mg/l	0.88
12/22/05		Nitrate as Nitrogen by IC	3.9	10	mg/l	0.2
12/22/05		Orthophosphate-P	0.028		mg/l	0.01
12/22/05		Total Coliform Bacteria	2800		MPN/100 mL	2
01/09/06		Total phosphorus-P	0.083		mg/l	0.01
12/22/05		Turbidity	0.60	5	NTU	0.05
2512220096 SITE 2 OUTFLOW FROM TJ POND 1						
12/27/05		Ammonia Nitrogen	0.08		mg/l	0.05
12/22/05		Fecal Coliform Bacteria	2		MPN/100 mL	2
01/12/06		Kjeldahl Nitrogen	0.56		mg/l	0.2
12/22/05		Nitrate as NO3 (calc)	15	45	mg/l	0.88
12/22/05		Nitrate as Nitrogen by IC	3.4	10	mg/l	0.2
12/22/05		Orthophosphate-P	0.028		mg/l	0.01

SUMMARY OF POSITIVE DATA ONLY.



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Laboratory
 Hits Report
 #164120

Applied Research Dept, MWH (Darren
 Giles)
 Darren Giles
 327 West Maple Avenue
 Monrovia, CA 91016

Samples Received
 22-dec-2005 14:34:23

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
2512220096 SITE 2 OUTFLOW FROM TJ POND 1						
12/22/05		Total Coliform Bacteria	7000		MPN/100 mL	2
01/09/06		Total phosphorus-P	0.051		mg/l	0.01
12/22/05		Turbidity	0.50	5	NTU	0.05
2512220097 SIT2 2 OUTFLOW FROM TJ POND 2						
12/27/05		Ammonia Nitrogen	0.07		mg/l	0.05
12/22/05		Fecal Coliform Bacteria	13		MPN/100 mL	2
01/12/06		Kjeldahl Nitrogen	0.25		mg/l	0.2
12/22/05		Nitrate as NO3 (calc)	15	45	mg/l	0.88
12/22/05		Nitrate as Nitrogen by IC	3.4	10	mg/l	0.2
12/22/05		Orthophosphate-P	0.027		mg/l	0.01
12/22/05		Total Coliform Bacteria	16000		MPN/100 mL	2
01/09/06		Total phosphorus-P	0.083		mg/l	0.01
12/22/05		Turbidity	0.35	5	NTU	0.05
2512220098 SIT2 3 BIG TJ WASH 1						
01/03/06		Ammonia Nitrogen	0.17		mg/l	0.05
12/22/05		Fecal Coliform Bacteria	2		MPN/100 mL	2
01/12/06		Kjeldahl Nitrogen	0.25		mg/l	0.2
12/22/05		Total Coliform Bacteria	2200		MPN/100 mL	2
01/09/06		Total phosphorus-P	0.067		mg/l	0.01
12/22/05		Turbidity	0.90	5	NTU	0.05
2512220099 SITE 3 BIG TJ WASH 2						
01/03/06		Ammonia Nitrogen	0.16		mg/l	0.05
12/22/05		Fecal Coliform Bacteria	7		MPN/100 mL	2

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Applied Research Dept, MWH (Darren
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 Darren Giles
 327 West Maple Avenue
 Monrovia, CA 91016

Samples Received
 22-dec-2005 14:34:23

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
2512220099 SITE 3 BIG TJ WASH 2						
01/12/06		Kjeldahl Nitrogen	0.21		mg/l	0.2
12/22/05		Total Coliform Bacteria	1700		MPN/100 mL	2
01/09/06		Total phosphorus-P	0.010		mg/l	0.01
12/22/05		Turbidity	0.95	5	NTU	0.05
2512220100 SITE 4 HAINES CANYON CREEK 1						
01/03/06		Ammonia Nitrogen	0.15		mg/l	0.05
12/22/05		Fecal Coliform Bacteria	11		MPN/100 mL	2
01/12/06		Kjeldahl Nitrogen	0.26		mg/l	0.2
12/22/05		Nitrate as NO3 (calc)	15	45	mg/l	0.88
12/22/05		Nitrate as Nitrogen by IC	3.4	10	mg/l	0.2
12/22/05		Orthophosphate-P	0.030		mg/l	0.01
12/22/05		Total Coliform Bacteria	260		MPN/100 mL	2
01/09/06		Total phosphorus-P	0.054		mg/l	0.01
12/22/05		Turbidity	0.60	5	NTU	0.05
2512220101 SITE 4 HAINES CANYON CREEK 2						
01/03/06		Ammonia Nitrogen	0.08		mg/l	0.05
12/22/05		Fecal Coliform Bacteria	8		MPN/100 mL	2
01/12/06		Kjeldahl Nitrogen	0.27		mg/l	0.2
12/22/05		Nitrate as NO3 (calc)	15	45	mg/l	0.88
12/22/05		Nitrate as Nitrogen by IC	3.4	10	mg/l	0.2
12/22/05		Orthophosphate-P	0.032		mg/l	0.01
12/22/05		Total Coliform Bacteria	280		MPN/100 mL	2
01/09/06		Total phosphorus-P	0.083		mg/l	0.01
12/22/05		Turbidity	0.90	5	NTU	0.05

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Laboratory
 Data Report
 #164120

Applied Research Dept, MWH (Darren
 Giles)
 Darren Giles
 327 West Maple Avenue
 Monrovia, CA 91016

Samples Received
 12/22/05

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
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SITE 1 INFLOW TO TJ POND 1 (2512220091) Sampled on 12/22/05 10:00

12/22/05 16:30			(ML/SM9221C)	Fecal Coliform Bacteria	30	MPNM	2	1
12/23/05 00:00	300874		(ML/EPA 547)	Glyphosate	ND	ug/l	6	1
12/27/05 00:02	300950		(ML/EPA 350.1)	Ammonia Nitrogen	ND	mg/l	0.05	1
12/22/05 19:24	300757		(ML/EPA 300.0)	Nitrite, Nitrogen by IC	ND	mg/l	0.2	2
12/22/05 19:24	300759		(EPA/MW 300.0)	Nitrate as Nitrogen by IC	3.9	mg/l	0.2	2
12/22/05 19:24	300754		()	Nitrate as NO3 (calc)	17	mg/l	0.88	2
12/22/05 18:15	300807		(4500P-E/365.2)	Orthophosphate-P	0.027	mg/l	0.01	1
01/09/06 15:06	302102		(S4500PE/ 365.1)	Total phosphorus-P	0.086	mg/l	0.01	1
01/12/06 14:04	302713		(ML/EPA 351.2)	Kjeldahl Nitrogen	0.23	mg/l	0.2	1
12/22/05 16:30			(ML/SM9221B)	Total Coliform Bacteria	500	MPNM	2	1
12/22/05 17:52	300764		(ML/EPA 180.1)	Turbidity	0.55	NTU	0.05	1

Diazinon/Chlorpyrifos by GCMS

12/30/05 00:00			(EPA 625 MODSUB)	Diazinon	ND	ng/l	10	1
12/30/05 00:00			(EPA 625 MODSUB)	Bolstar (Sulprofos)	ND	ng/l	20	1
12/30/05 00:00			(EPA 625 MODSUB)	Chlorpyrifos	ND	ng/l	10	1
12/30/05 00:00			(EPA 625 MODSUB)	Demeton	ND	ng/l	20	1
12/30/05 00:00			(EPA 625 MODSUB)	Dichlorvos	ND	ng/l	20	1
12/30/05 00:00			(EPA 625 MODSUB)	Disulfoton	ND	ng/l	20	1
12/30/05 00:00			(EPA 625 MODSUB)	Dimethoate	ND	ng/l	10	1
12/30/05 00:00			(EPA 625 MODSUB)	Ethoprop (Ethoprophos)	ND	ng/l	20	1
12/30/05 00:00			(EPA 625 MODSUB)	Fenchlorophos (Ronnell)	ND	ng/l	20	1
12/30/05 00:00			(EPA 625 MODSUB)	Fensulfothion	ND	ng/l	20	1
12/30/05 00:00			(EPA 625 MODSUB)	Fenthion	ND	ng/l	20	1
12/30/05 00:00			(EPA 625 MODSUB)	Merphos	ND	ng/l	20	1
12/30/05 00:00			(EPA 625 MODSUB)	Mevinphos (Phosdrin)	ND	ng/l	20	1
12/30/05 00:00			(EPA 625 MODSUB)	Malathion	ND	ng/l	10	1
12/30/05 00:00			(EPA 625 MODSUB)	Parathion-methyl	ND	ng/l	20	1
12/30/05 00:00			(EPA 625 MODSUB)	Phorate	ND	ng/l	20	1
12/30/05 00:00			(EPA 625 MODSUB)	Tokuthion	ND	ng/l	20	1
12/30/05 00:00			(EPA 625 MODSUB)	Tetrachlorovinphos (Stirophos)	ND	ng/l	20	1



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Laboratory
Data Report
#164120

Applied Research Dept, MWH (Darren
Giles)
(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
	12/30/05 00:00		(EPA 625 MODSUB)	Trichloronate	ND	ng/l	20	1
SITE 1 INFLOW TO TJ POND 2 (2512220095)					Sampled on 12/22/05 10:15			
	12/22/05 16:30		(ML/SM9221C)	Fecal Coliform Bacteria	13	MPNM	2	1
	12/23/05 00:00	300874	(ML/EPA 547)	Glyphosate	ND	ug/l	6	1
	12/27/05 00:02	300950	(ML/EPA 350.1)	Ammonia Nitrogen	0.06	mg/l	0.05	1
	12/22/05 19:58	300757	(ML/EPA 300.0)	Nitrite, Nitrogen by IC	ND	mg/l	0.2	2
	12/22/05 19:58	300759	(EPA/MW 300.0)	Nitrate as Nitrogen by IC	3.9	mg/l	0.2	2
	12/22/05 19:58	300754	()	Nitrate as NO3 (calc)	17	mg/l	0.88	2
	12/22/05 18:15	300807	(4500P-E/365.2)	Orthophosphate-P	0.028	mg/l	0.01	1
	01/09/06 15:06	302102	(S4500PE/ 365.1)	Total phosphorus-P	0.083	mg/l	0.01	1
	01/12/06 14:04	302713	(ML/EPA 351.2)	Kjeldahl Nitrogen	0.37	mg/l	0.2	1
	12/22/05 16:30		(ML/SM9221B)	Total Coliform Bacteria	2800	MPNM	2	1
	12/22/05 17:52	300764	(ML/EPA 180.1)	Turbidity	0.60	NTU	0.05	1
Diazinon/Chlorpyrifos by GCMS								
	12/30/05 00:00		(EPA 625 MODSUB)	Diazinon	ND	ng/l	5	1
	12/30/05 00:00		(EPA 625 MODSUB)	Bolstar (Sulprofos)	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Chlorpyrifos	ND	ng/l	5	1
	12/30/05 00:00		(EPA 625 MODSUB)	Demeton	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Dichlorvos	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Disulfoton	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Dimethoate	ND	ng/l	5	1
	12/30/05 00:00		(EPA 625 MODSUB)	Ethoprop (Ethoprophos)	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Fenchlorophos (Ronnell)	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Fensulfothion	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Fenthion	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Merphos	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Mevinphos (Phosdrin)	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Malathion	ND	ng/l	5	1
	12/30/05 00:00		(EPA 625 MODSUB)	Parathion-methyl	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Phorate	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Tokuthion	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Tetrachlorovinphos (Stirophos)	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Trichloronate	ND	ng/l	10	1



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Laboratory
 Data Report
 #164120

Applied Research Dept, MWH (Darren
 Giles)
 (continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
SITE 2 OUTFLOW FROM TJ POND 1 (2512220096)					Sampled on 12/22/05 11:00			
	12/22/05 16:30		(ML/SM9221C)	Fecal Coliform Bacteria	2	MPNM	2	1
	12/23/05 00:00	300874	(ML/EPA 547)	Glyphosate	ND	ug/l	6	1
	12/27/05 00:02	300950	(ML/EPA 350.1)	Ammonia Nitrogen	0.08	mg/l	0.05	1
	12/22/05 20:10	300757	(ML/EPA 300.0)	Nitrite, Nitrogen by IC	ND	mg/l	0.2	2
	12/22/05 20:10	300759	(EPA/MW 300.0)	Nitrate as Nitrogen by IC	3.4	mg/l	0.2	2
	12/22/05 20:10	300754	()	Nitrate as NO3 (calc)	15	mg/l	0.88	2
	12/22/05 18:15	300807	(4500P-E/365.2)	Orthophosphate-P	0.028	mg/l	0.01	1
	01/09/06 15:06	302102	(S4500PE/ 365.1)	Total phosphorus-P	0.051	mg/l	0.01	1
	01/12/06 14:04	302713	(ML/EPA 351.2)	Kjeldahl Nitrogen	0.56	mg/l	0.2	1
	12/22/05 16:30		(ML/SM9221B)	Total Coliform Bacteria	7000	MPNM	2	1
	12/22/05 17:52	300764	(ML/EPA 180.1)	Turbidity	0.50	NTU	0.05	1
Diazinon/Chlorpyrifos by GCMS								
	12/30/05 00:00		(EPA 625 MODSUB)	Diazinon	ND	ng/l	5	1
	12/30/05 00:00		(EPA 625 MODSUB)	Bolstar (Sulprofos)	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Chlorpyrifos	ND	ng/l	5	1
	12/30/05 00:00		(EPA 625 MODSUB)	Demeton	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Dichlorvos	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Disulfoton	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Dimethoate	ND	ng/l	5	1
	12/30/05 00:00		(EPA 625 MODSUB)	Ethoprop (Ethoprofos)	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Fenchlorophos (Ronnell)	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Fensulfothion	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Fenthion	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Merphos	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Mevinphos (Phosdrin)	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Malathion	ND	ng/l	5	1
	12/30/05 00:00		(EPA 625 MODSUB)	Parathion-methyl	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Phorate	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Tokuthion	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Tetrachlorovinphos (Stirophos)	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Trichloronate	ND	ng/l	10	1

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 Applied Research Dept, MWH (Darren
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 (continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
SIT2 2 OUTFLOW FROM TJ POND 2 (2512220097)					Sampled on 12/22/05 11:20			
	12/22/05 16:30		(ML/SM9221C)	Fecal Coliform Bacteria	13	MPNM	2	1
	12/23/05 00:00	300874	(ML/EPA 547)	Glyphosate	ND	ug/l	6	1
	12/27/05 00:02	300950	(ML/EPA 350.1)	Ammonia Nitrogen	0.07	mg/l	0.05	1
	12/22/05 20:22	300757	(ML/EPA 300.0)	Nitrite, Nitrogen by IC	ND	mg/l	0.2	2
	12/22/05 20:22	300759	(EPA/MW 300.0)	Nitrate as Nitrogen by IC	3.4	mg/l	0.2	2
	12/22/05 20:22	300754	()	Nitrate as NO3 (calc)	15	mg/l	0.88	2
	12/22/05 18:15	300807	(4500P-E/365.2)	Orthophosphate-P	0.027	mg/l	0.01	1
	01/09/06 15:06	302102	(S4500PE/ 365.1)	Total phosphorus-P	0.083	mg/l	0.01	1
	01/12/06 14:04	302713	(ML/EPA 351.2)	Kjeldahl Nitrogen	0.25	mg/l	0.2	1
	12/22/05 16:30		(ML/SM9221B)	Total Coliform Bacteria	16000	MPNM	2	1
	12/22/05 17:52	300764	(ML/EPA 180.1)	Turbidity	0.35	NTU	0.05	1
Diazinon/Chlorpyrifos by GCMS								
	12/30/05 00:00		(EPA 625 MODSUB)	Diazinon	ND	ng/l	5	1
	12/30/05 00:00		(EPA 625 MODSUB)	Bolstar (Sulprofos)	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Chlorpyrifos	ND	ng/l	5	1
	12/30/05 00:00		(EPA 625 MODSUB)	Demeton	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Dichlorvos	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Disulfoton	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Dimethoate	ND	ng/l	5	1
	12/30/05 00:00		(EPA 625 MODSUB)	Ethoprop (Ethoprofos)	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Fenchlorophos (Ronnell)	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Fensulfothion	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Fenthion	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Merphos	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Mevinphos (Phosdrin)	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Malathion	ND	ng/l	5	1
	12/30/05 00:00		(EPA 625 MODSUB)	Parathion-methyl	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Phorate	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Tokuthion	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Tetrachlorovinphos (Stirophos)	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Trichloronate	ND	ng/l	10	1

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 Applied Research Dept, MWH (Darren
 Giles)
 (continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
SIT2 3 BIG TJ WASH 1 (2512220098) Sampled on 12/22/05 12:30								
	12/22/05 16:30		(ML/SM9221C)	Fecal Coliform Bacteria	2	MPNM	2	1
	12/23/05 00:00	300874	(ML/EPA 547)	Glyphosate	ND	ug/l	6	1
	01/03/06 00:00	301490	(ML/EPA 350.1)	Ammonia Nitrogen	0.17	mg/l	0.05	1
	12/22/05 20:33	300757	(ML/EPA 300.0)	Nitrite, Nitrogen by IC	ND	mg/l	0.2	2
	12/22/05 20:33	300759	(EPA/MW 300.0)	Nitrate as Nitrogen by IC	ND	mg/l	0.2	2
	12/22/05 20:33	300754	()	Nitrate as NO3 (calc)	ND	mg/l	0.88	2
	12/22/05 18:15	300807	(4500P-E/365.2)	Orthophosphate-P	ND	mg/l	0.01	1
	01/09/06 15:06	302102	(S4500PE/ 365.1)	Total phosphorus-P	0.067	mg/l	0.01	1
	01/12/06 14:04	302713	(ML/EPA 351.2)	Kjeldahl Nitrogen	0.25	mg/l	0.2	1
	12/22/05 16:30		(ML/SM9221B)	Total Coliform Bacteria	2200	MPNM	2	1
	12/22/05 17:52	300764	(ML/EPA 180.1)	Turbidity	0.90	NTU	0.05	1
Diazinon/Chlorpyrifos by GCMS								
	12/30/05 00:00		(EPA 625 MODSUB)	Diazinon	ND	ng/l	5	1
	12/30/05 00:00		(EPA 625 MODSUB)	Bolstar (Sulprofos)	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Chlorpyrifos	ND	ng/l	5	1
	12/30/05 00:00		(EPA 625 MODSUB)	Demeton	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Dichlorvos	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Disulfoton	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Dimethoate	ND	ng/l	5	1
	12/30/05 00:00		(EPA 625 MODSUB)	Ethoprop (Ethoprofos)	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Fenchlorophos (Ronnell)	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Fensulfothion	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Fenthion	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Merphos	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Mevinphos (Phosdrin)	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Malathion	ND	ng/l	5	1
	12/30/05 00:00		(EPA 625 MODSUB)	Parathion-methyl	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Phorate	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Tokuthion	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Tetrachlorovinphos (Stirophos)	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Trichloronate	ND	ng/l	10	1

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(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
SITE 3 BIG TJ WASH 2 (2512220099) Sampled on 12/22/05 12:45								
	12/22/05 16:30		(ML/SM9221C)	Fecal Coliform Bacteria	7	MPNM	2	1
	12/23/05 00:00	300874	(ML/EPA 547)	Glyphosate	ND	ug/l	6	1
	01/03/06 00:00	301490	(ML/EPA 350.1)	Ammonia Nitrogen	0.16	mg/l	0.05	1
	12/22/05 20:45	300757	(ML/EPA 300.0)	Nitrite, Nitrogen by IC	ND	mg/l	0.2	2
	12/22/05 20:45	300759	(EPA/MW 300.0)	Nitrate as Nitrogen by IC	ND	mg/l	0.2	2
	12/22/05 20:45	300754	()	Nitrate as NO3 (calc)	ND	mg/l	0.88	2
	12/22/05 18:15	300807	(4500P-E/365.2)	Orthophosphate-P	ND	mg/l	0.01	1
	01/09/06 15:06	302102	(S4500PE/ 365.1)	Total phosphorus-P	0.010	mg/l	0.01	1
	01/12/06 14:04	302713	(ML/EPA 351.2)	Kjeldahl Nitrogen	0.21	mg/l	0.2	1
	12/22/05 16:30		(ML/SM9221B)	Total Coliform Bacteria	1700	MPNM	2	1
	12/22/05 17:52	300764	(ML/EPA 180.1)	Turbidity	0.95	NTU	0.05	1
Diazinon/Chlorpyrifos by GCMS								
	12/30/05 00:00		(EPA 625 MODSUB)	Diazinon	ND	ng/l	5	1
	12/30/05 00:00		(EPA 625 MODSUB)	Bolstar (Sulprofos)	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Chlorpyrifos	ND	ng/l	5	1
	12/30/05 00:00		(EPA 625 MODSUB)	Demeton	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Dichlorvos	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Disulfoton	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Dimethoate	ND	ng/l	5	1
	12/30/05 00:00		(EPA 625 MODSUB)	Ethoprop (Ethoprophos)	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Fenchlorophos (Ronnell)	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Fensulfothion	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Fenthion	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Merphos	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Mevinphos (Phosdrin)	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Malathion	ND	ng/l	5	1
	12/30/05 00:00		(EPA 625 MODSUB)	Parathion-methyl	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Phorate	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Tokuthion	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Tetrachlorovinphos (Stirophos)	ND	ng/l	10	1
	12/30/05 00:00		(EPA 625 MODSUB)	Trichloronate	ND	ng/l	10	1



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Applied Research Dept, MWH (Darren
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 (continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
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SITE 4 HAINES CANYON CREEK 1 (2512220100) Sampled on 12/22/05 08:30

12/22/05 16:30			(ML/SM9221C)	Fecal Coliform Bacteria	11	MPNM	2	1
12/23/05 00:00	300874		(ML/EPA 547)	Glyphosate	ND	ug/l	6	1
01/03/06 00:00	301490		(ML/EPA 350.1)	Ammonia Nitrogen	0.15	mg/l	0.05	1
12/22/05 21:20	300757		(ML/EPA 300.0)	Nitrite, Nitrogen by IC	ND	mg/l	0.2	2
12/22/05 21:20	300759		(EPA/MW 300.0)	Nitrate as Nitrogen by IC	3.4	mg/l	0.2	2
12/22/05 21:20	300754		()	Nitrate as NO3 (calc)	15	mg/l	0.88	2
12/22/05 18:15	300807		(4500P-E/365.2)	Orthophosphate-P	0.030	mg/l	0.01	1
01/09/06 15:06	302102		(S4500PE/ 365.1)	Total phosphorus-P	0.054	mg/l	0.01	1
01/12/06 14:04	302713		(ML/EPA 351.2)	Kjeldahl Nitrogen	0.26	mg/l	0.2	1
12/22/05 16:30			(ML/SM9221B)	Total Coliform Bacteria	260	MPNM	2	1
12/22/05 17:52	300764		(ML/EPA 180.1)	Turbidity	0.60	NTU	0.05	1

Diazinon/Chlorpyrifos by GCMS

12/30/05 00:00			(EPA 625 MODSUB)	Diazinon	ND	ng/l	5	1
12/30/05 00:00			(EPA 625 MODSUB)	Bolstar (Sulprofos)	ND	ng/l	10	1
12/30/05 00:00			(EPA 625 MODSUB)	Chlorpyrifos	ND	ng/l	5	1
12/30/05 00:00			(EPA 625 MODSUB)	Demeton	ND	ng/l	10	1
12/30/05 00:00			(EPA 625 MODSUB)	Dichlorvos	ND	ng/l	10	1
12/30/05 00:00			(EPA 625 MODSUB)	Disulfoton	ND	ng/l	10	1
12/30/05 00:00			(EPA 625 MODSUB)	Dimethoate	ND	ng/l	5	1
12/30/05 00:00			(EPA 625 MODSUB)	Ethoprop (Ethoprofos)	ND	ng/l	10	1
12/30/05 00:00			(EPA 625 MODSUB)	Fenchlorophos (Ronnell)	ND	ng/l	10	1
12/30/05 00:00			(EPA 625 MODSUB)	Fensulfothion	ND	ng/l	10	1
12/30/05 00:00			(EPA 625 MODSUB)	Fenthion	ND	ng/l	10	1
12/30/05 00:00			(EPA 625 MODSUB)	Merphos	ND	ng/l	10	1
12/30/05 00:00			(EPA 625 MODSUB)	Mevinphos (Phosdrin)	ND	ng/l	10	1
12/30/05 00:00			(EPA 625 MODSUB)	Malathion	ND	ng/l	5	1
12/30/05 00:00			(EPA 625 MODSUB)	Parathion-methyl	ND	ng/l	10	1
12/30/05 00:00			(EPA 625 MODSUB)	Phorate	ND	ng/l	10	1
12/30/05 00:00			(EPA 625 MODSUB)	Tokuthion	ND	ng/l	10	1
12/30/05 00:00			(EPA 625 MODSUB)	Tetrachlorovinphos (Stirophos)	ND	ng/l	10	1
12/30/05 00:00			(EPA 625 MODSUB)	Trichloronate	ND	ng/l	10	1



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Applied Research Dept, MWH (Darren
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 (continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
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SITE 4 HAINES CANYON CREEK 2 (2512220101) Sampled on 12/22/05 08:45

12/22/05 16:30			(ML/SM9221C)	Fecal Coliform Bacteria	8	MPNM	2	1
12/23/05 00:00	300874		(ML/EPA 547)	Glyphosate	ND	ug/l	6	1
01/03/06 00:00	301490		(ML/EPA 350.1)	Ammonia Nitrogen	0.08	mg/l	0.05	1
12/22/05 21:43	300757		(ML/EPA 300.0)	Nitrite, Nitrogen by IC	ND	mg/l	0.2	2
12/22/05 21:43	300759		(EPA/MW 300.0)	Nitrate as Nitrogen by IC	3.4	mg/l	0.2	2
12/22/05 21:43	300754		()	Nitrate as NO3 (calc)	15	mg/l	0.88	2
12/22/05 18:15	300807		(4500P-E/365.2)	Orthophosphate-P	0.032	mg/l	0.01	1
01/09/06 15:06	302102		(S4500PE/ 365.1)	Total phosphorus-P	0.083	mg/l	0.01	1
01/12/06 14:04	302713		(ML/EPA 351.2)	Kjeldahl Nitrogen	0.27	mg/l	0.2	1
12/22/05 16:30			(ML/SM9221B)	Total Coliform Bacteria	280	MPNM	2	1
12/22/05 17:52	300767		(ML/EPA 180.1)	Turbidity	0.90	NTU	0.05	1

Diazinon/Chlorpyrifos by GCMS

12/30/05 00:00			(EPA 625 MODSUB)	Diazinon	ND	ng/l	5	1
12/30/05 00:00			(EPA 625 MODSUB)	Bolstar (Sulprofos)	ND	ng/l	10	1
12/30/05 00:00			(EPA 625 MODSUB)	Chlorpyrifos	ND	ng/l	5	1
12/30/05 00:00			(EPA 625 MODSUB)	Demeton	ND	ng/l	10	1
12/30/05 00:00			(EPA 625 MODSUB)	Dichlorvos	ND	ng/l	10	1
12/30/05 00:00			(EPA 625 MODSUB)	Disulfoton	ND	ng/l	10	1
12/30/05 00:00			(EPA 625 MODSUB)	Dimethoate	ND	ng/l	5	1
12/30/05 00:00			(EPA 625 MODSUB)	Ethoprop (Ethoprofos)	ND	ng/l	10	1
12/30/05 00:00			(EPA 625 MODSUB)	Fenchlorophos (Ronnell)	ND	ng/l	10	1
12/30/05 00:00			(EPA 625 MODSUB)	Fensulfothion	ND	ng/l	10	1
12/30/05 00:00			(EPA 625 MODSUB)	Fenthion	ND	ng/l	10	1
12/30/05 00:00			(EPA 625 MODSUB)	Merphos	ND	ng/l	10	1
12/30/05 00:00			(EPA 625 MODSUB)	Mevinphos (Phosdrin)	ND	ng/l	10	1
12/30/05 00:00			(EPA 625 MODSUB)	Malathion	ND	ng/l	5	1
12/30/05 00:00			(EPA 625 MODSUB)	Parathion-methyl	ND	ng/l	10	1
12/30/05 00:00			(EPA 625 MODSUB)	Phorate	ND	ng/l	10	1
12/30/05 00:00			(EPA 625 MODSUB)	Tokuthion	ND	ng/l	10	1
12/30/05 00:00			(EPA 625 MODSUB)	Tetrachlorovinphos (Stirophos)	ND	ng/l	10	1
12/30/05 00:00			(EPA 625 MODSUB)	Trichloronate	ND	ng/l	10	1



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QC Summary
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QC Ref #300754 - Nitrate as NO3 (calc) Analysis Date: 12/22/2005

2512220091	SITE 1 INFLOW TO TJ POND 1
2512220095	SITE 1 INFLOW TO TJ POND 2
2512220096	SITE 2 OUTFLOW FROM TJ POND 1
2512220097	SIT2 2 OUTFLOW FROM TJ POND 2
2512220098	SIT2 3 BIG TJ WASH 1
2512220099	SITE 3 BIG TJ WASH 2
2512220100	SITE 4 HAINES CANYON CREEK 1
2512220101	SITE 4 HAINES CANYON CREEK 2

QC Ref #300757 - Nitrite, Nitrogen by IC Analysis Date: 12/22/2005

2512220091	SITE 1 INFLOW TO TJ POND 1
2512220095	SITE 1 INFLOW TO TJ POND 2
2512220096	SITE 2 OUTFLOW FROM TJ POND 1
2512220097	SIT2 2 OUTFLOW FROM TJ POND 2
2512220098	SIT2 3 BIG TJ WASH 1
2512220099	SITE 3 BIG TJ WASH 2
2512220100	SITE 4 HAINES CANYON CREEK 1
2512220101	SITE 4 HAINES CANYON CREEK 2

QC Ref #300759 - Nitrate as Nitrogen by IC Analysis Date: 12/22/2005

2512220091	SITE 1 INFLOW TO TJ POND 1
2512220095	SITE 1 INFLOW TO TJ POND 2
2512220096	SITE 2 OUTFLOW FROM TJ POND 1
2512220097	SIT2 2 OUTFLOW FROM TJ POND 2
2512220098	SIT2 3 BIG TJ WASH 1
2512220099	SITE 3 BIG TJ WASH 2
2512220100	SITE 4 HAINES CANYON CREEK 1
2512220101	SITE 4 HAINES CANYON CREEK 2

QC Ref #300764 - Turbidity Analysis Date: 12/22/2005

2512220091	SITE 1 INFLOW TO TJ POND 1
2512220095	SITE 1 INFLOW TO TJ POND 2
2512220096	SITE 2 OUTFLOW FROM TJ POND 1
2512220097	SIT2 2 OUTFLOW FROM TJ POND 2
2512220098	SIT2 3 BIG TJ WASH 1
2512220099	SITE 3 BIG TJ WASH 2



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QC Summary
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Applied Research Dept, MWH (Darren
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(continued)

2512220100 SITE 4 HAINES CANYON CREEK 1

QC Ref #300767 - Turbidity

Analysis Date: 12/22/2005

2512220101 SITE 4 HAINES CANYON CREEK 2

QC Ref #300807 - Orthophosphate-P

Analysis Date: 12/22/2005

2512220091 SITE 1 INFLOW TO TJ POND 1
2512220095 SITE 1 INFLOW TO TJ POND 2
2512220096 SITE 2 OUTFLOW FROM TJ POND 1
2512220097 SIT2 2 OUTFLOW FROM TJ POND 2
2512220098 SIT2 3 BIG TJ WASH 1
2512220099 SITE 3 BIG TJ WASH 2
2512220100 SITE 4 HAINES CANYON CREEK 1
2512220101 SITE 4 HAINES CANYON CREEK 2

QC Ref #300874 - Glyphosate

Analysis Date: 12/23/2005

2512220091 SITE 1 INFLOW TO TJ POND 1
2512220095 SITE 1 INFLOW TO TJ POND 2
2512220096 SITE 2 OUTFLOW FROM TJ POND 1
2512220097 SIT2 2 OUTFLOW FROM TJ POND 2
2512220098 SIT2 3 BIG TJ WASH 1
2512220099 SITE 3 BIG TJ WASH 2
2512220100 SITE 4 HAINES CANYON CREEK 1
2512220101 SITE 4 HAINES CANYON CREEK 2

QC Ref #300950 - Ammonia Nitrogen

Analysis Date: 12/27/2005

2512220091 SITE 1 INFLOW TO TJ POND 1
2512220095 SITE 1 INFLOW TO TJ POND 2
2512220096 SITE 2 OUTFLOW FROM TJ POND 1
2512220097 SIT2 2 OUTFLOW FROM TJ POND 2



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QC Summary
#164120

Applied Research Dept, MWH (Darren
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(continued)

QC Ref #301490 - Ammonia Nitrogen

Analysis Date: 01/03/2006

2512220098	SIT2 3 BIG TJ WASH 1
2512220099	SITE 3 BIG TJ WASH 2
2512220100	SITE 4 HAINES CANYON CREEK 1
2512220101	SITE 4 HAINES CANYON CREEK 2

QC Ref #302102 - Total phosphorus-P

Analysis Date: 01/09/2006

2512220091	SITE 1 INFLOW TO TJ POND 1
2512220095	SITE 1 INFLOW TO TJ POND 2
2512220096	SITE 2 OUTFLOW FROM TJ POND 1
2512220097	SIT2 2 OUTFLOW FROM TJ POND 2
2512220098	SIT2 3 BIG TJ WASH 1
2512220099	SITE 3 BIG TJ WASH 2
2512220100	SITE 4 HAINES CANYON CREEK 1
2512220101	SITE 4 HAINES CANYON CREEK 2

QC Ref #302713 - Kjeldahl Nitrogen

Analysis Date: 01/12/2006

2512220091	SITE 1 INFLOW TO TJ POND 1
2512220095	SITE 1 INFLOW TO TJ POND 2
2512220096	SITE 2 OUTFLOW FROM TJ POND 1
2512220097	SIT2 2 OUTFLOW FROM TJ POND 2
2512220098	SIT2 3 BIG TJ WASH 1
2512220099	SITE 3 BIG TJ WASH 2
2512220100	SITE 4 HAINES CANYON CREEK 1
2512220101	SITE 4 HAINES CANYON CREEK 2

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QC Ref #300757 Nitrite, Nitrogen by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 25	12220091	MGL		(0-0)	
LCS1	Nitrite, Nitrogen by IC	1.0	1.11	MGL	<u>111.0</u>	(90-110)	
LCS2	Nitrite, Nitrogen by IC	1.0	1.11	MGL	<u>111.0</u>	(90-110)	
MBLK	Nitrite, Nitrogen by IC	ND	<0.1	MGL			
MS	Nitrite, Nitrogen by IC	0.500	0.511	MGL	102.2	(90-110)	
MSD	Nitrite, Nitrogen by IC	0.500	0.518	MGL	103.6	(90-110)	

QC Ref #300759 Nitrate as Nitrogen by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 25	12220091	MGL		(0-0)	
LCS1	Nitrate as Nitrogen by IC	2.5	2.71	MGL	108.4	(90-110)	
LCS2	Nitrate as Nitrogen by IC	2.5	2.66	MGL	106.4	(90-110)	
MBLK	Nitrate as Nitrogen by IC	ND	<0.1	MGL			
MS	Nitrate as Nitrogen by IC	1.25	1.2	MGL	96.0	(90-110)	
MSD	Nitrate as Nitrogen by IC	1.25	1.22	MGL	97.6	(90-110)	

QC Ref #300764 Turbidity

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
DUP	Turbidity	0.10	0.10	NTU		(0-20)	0.0
MRL_CHK	Turbidity	0.0500	0.054	NTU	108.0	(50-150)	

QC Ref #300767 Turbidity

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
DUP	Turbidity	0.30	0.30	NTU		(0-20)	0.0
MRL_CHK	Turbidity	0.0500	0.054	NTU	108.0	(50-150)	

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only, batch control is based on LCS. Criteria for duplicates
are advisory only, unless otherwise specified in the method.

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(continued)

QC Ref #300807

Orthophosphate-P

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 25	12220114	MGL		(0-0)	
LCS1	Orthophosphate-P	0.5	0.512	MGL	102.4	(90-110)	
LCS2	Orthophosphate-P	0.5	0.508	MGL	101.6	(90-110)	
MBLK	Orthophosphate-P	ND	<0.01	MGL			
MRL_CHK	Orthophosphate-P	0.010	0.009	MGL	90.0	(50-150)	
MS	Orthophosphate-P	0.5	0.493	MGL	98.6	(80-120)	
MSD	Orthophosphate-P	0.5	0.493	MGL	98.6	(80-120)	

QC Ref #300874

Glyphosate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 25	12220091	UGL		(0-0)	
LCS1	Glyphosate	10	9.40	UGL	94.0	(82-115)	
MBLK	Glyphosate	ND	<6	UGL			
MRL_CHK	Glyphosate	6.00	6.35	UGL	105.8	(50-150)	
MS	Glyphosate	10	10.5	UGL	105.0	(82-115)	
MSD	Glyphosate	10	10.5	UGL	105.0	(82-115)	

QC Ref #300950

Ammonia Nitrogen

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 25	12200278	MGL		(0-0)	
LCS1	Ammonia Nitrogen	1.00	0.94	MGL	94.0	(90-110)	
LCS2	Ammonia Nitrogen	1.00	0.95	MGL	95.0	(90-110)	
MBLK	Ammonia Nitrogen	ND	<0.05	MGL			
MS	Ammonia Nitrogen	1.00	0.93	MGL	93.0	(90-110)	
MSD	Ammonia Nitrogen	1.00	0.93	MGL	93.0	(90-110)	

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only, batch control is based on LCS. Criteria for duplicates
are advisory only, unless otherwise specified in the method.

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(continued)

QC Ref #301490

Ammonia Nitrogen

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 25	12220155	MGL		(0-0)	
LCS1	Ammonia Nitrogen	1.00	1.07	MGL	107.0	(90-110)	
LCS2	Ammonia Nitrogen	1.00	1.08	MGL	108.0	(90-110)	
MBLK	Ammonia Nitrogen	ND	<0.05	MGL			
MS	Ammonia Nitrogen	1.00	0.93	MGL	93.0	(90-110)	
MSD	Ammonia Nitrogen	1.00	0.92	MGL	92.0	(90-110)	

QC Ref #302102

Total phosphorus-P

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 25	12220101	MGL		(0-0)	
LCS1	Total phosphorus-P	0.4	0.401	MGL	100.2	(90-110)	
LCS2	Total phosphorus-P	0.4	0.401	MGL	100.2	(90-110)	
MBLK	Total phosphorus-P	ND	<0.01	MGL			
MS	Total phosphorus-P	0.4	0.417	MGL	104.2	(90-110)	
MSD	Total phosphorus-P	0.4	0.387	MGL	96.8	(90-110)	
RPD_LCS	Total phosphorus-P	100.250	100.250	MGL	0.0	(0-10)	
RPD_MS	Total phosphorus-P	104.250	96.750	MGL	7.5	(0-10)	

QC Ref #302713

Kjeldahl Nitrogen

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 25	12220275	MGL		(0-0)	
LCS1	Kjeldahl Nitrogen	4	4.56	MGL	<u>114.0</u>	(90-110)	
LCS2	Kjeldahl Nitrogen	4	4.27	MGL	106.7	(90-110)	
MBLK	Kjeldahl Nitrogen	ND	<0.2	MGL			
MS	Kjeldahl Nitrogen	4	4.39	MGL	109.7	(90-110)	
MSD	Kjeldahl Nitrogen	4	4.47	MGL	<u>111.8</u>	(90-110)	

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only, batch control is based on LCS. Criteria for duplicates
are advisory only, unless otherwise specified in the method.



MWH Laboratories

A Division of MWH Americas, Inc.

750 Royal Oaks Drive
Suite 100
Monrovia, California 91016-3629
Tel: 626 568 6400
Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory
QC Report
#164120

Applied Research Dept, MWH (Darren
Giles)
(continued)

RPD_LCS	Kjeldahl Nitrogen	114.000	106.750	MGL	6.6	(0-20)
RPD_MS	Kjeldahl Nitrogen	109.750	111.750	MGL	1.8	(0-10)

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only, batch control is based on LCS. Criteria for duplicates
are advisory only, unless otherwise specified in the method.



MWH Laboratories

750 Royal Oaks Drive Suite 100
Monrovia Ca 91016 (626) 386-1100

CHAIN OF CUSTODY RECORD

MWHLABS USE ONLY:

LOGIN COMMENTS:

SAMPLES CHECKED/LOGGED IN BY: WJD 1/64/20
 SAMPLE TEMP, RECEIPT AT LAB 15 (Compliance: 4 +/- 2°C)
 SAMPLES RECEIVED DAY OF COLLECTION? (check for yes)
 BLUE ICE: FROZEN PARTIALLY FROZEN THAWED

TO BE COMPLETED BY SAMPLER:

TAT requested: STANDARD	REGULATION: _____ (SDWA, Phase V, NPDES, FDA, ...)
PROJECT CODE	NON-COMPLIANCE SAMPLES <input type="checkbox"/> (check for yes)
PROJECT JOB # / P.O.#	REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES
1342289.5620.051801 ARD-DG	

SAMPLER(S): PRINTED NAME AND SIGNATURE		ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)											SAMPLER COMMENTS							
TIME	DATE	SITE NAME or LOCATION	IDENTIFIER, STATE ID #	MATRIX	GRAB	COMP	T-P	O-P4	TKN	NO2	NO3	Turbidity		Fecal Coll	Total Coll	Ammonia	Glyphosate	Diazinon		
		Darren Giles <i>Darren Giles</i>																		
1000	12/22	SITE 1	Inflow to TJ Pond #1		X		X	X	X	X	X	X	X	X	X	X	X			
1015	12/22	SITE 1	Inflow to TJ Pond #2		X		X	X	X	X	X	X	X	X	X	X	X			
1100	12/22	SITE 2	Outflow from TJ Pond #1		X		X	X	X	X	X	X	X	X	X	X	X			
1120	12/22	SITE 2	Outflow from TJ Pond #2		X		X	X	X	X	X	X	X	X	X	X	X			
1230	12/22	SITE 3	Big TJ Wash #1		X		X	X	X	X	X	X	X	X	X	X	X			
1245	12/22	SITE 3	Big TJ Wash #2		X		X	X	X	X	X	X	X	X	X	X	X			
8:30	12/22	SITE 4	Haines Canyon Creek #1		X		X	X	X	X	X	X	X	X	X	X	X			
8:45	12/22	SITE 4	Haines Canyon Creek #2		X		X	X	X	X	X	X	X	X	X	X	X			

* **MATRIX TYPES:** Reported by Volume: _____
 RSW = Raw Surface Water
 RGW = Raw Ground Water
 FW = Other Finished Water
 CFW = Chlor(am)inated Finished Water
 SW = Storm Water
 WW = Other Waste Water
 CWW = Chlorinated Waste Water
 Reported by Weight: _____
 SO = Soil
 SL = Sludge

RELINQUISHED BY: _____	PRINT NAME: <u>D. GILES</u>	COMPANY/TITLE: <u>MWH ARD</u>	DATE: <u>12/22/05</u>	TIME: _____
RECEIVED BY: _____	SIGNATURE: <u>[Signature]</u>		DATE: <u>12/22/05</u>	TIME: <u>13:05</u>
SPECIAL INSTRUCTIONS: _____				

MWH Laboratories
 750 Royal Oaks Drive, Monrovia, CA 91016
 PHONE: 626-386-1100/FAX: 626-386-1101

ACKNOWLEDGMENT OF SAMPLES RECEIVED

Applied Research Dept, MWH (Darren Giles)	Customer Code: ARD-DG
327 West Maple Avenue	PO#: 1342289.5620.051801
Monrovia, CA 91016	Group#: 164120
Attn: Darren Giles	Project#: BIG-TJ
Phone: (626) 303-5945	Proj Mgr: Linda Geddes
	Phone: (626) 386-1163

The following samples were received from you on 12/22/05. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using MWH Laboratories.

Sample#	Sample Id	Tests Scheduled	Matrix	Sample Date
2512220091	SITE 1 INFLOW TO TJ POND 1	@DIAZEDD FECCOL NO3A OPO4	Water GLYPHOS NH3 T-P TKN	22-dec-2005 10:00:00 NO2-N NO3 TOTCOL TURB
2512220095	SITE 1 INFLOW TO TJ POND 2	@DIAZEDD FECCOL NO3A OPO4	Water GLYPHOS NH3 T-P TKN	22-dec-2005 10:15:00 NO2-N NO3 TOTCOL TURB
2512220096	SITE 2 OUTFLOW FROM TJ POND 1	@DIAZEDD FECCOL NO3A OPO4	Water GLYPHOS NH3 T-P TKN	22-dec-2005 11:00:00 NO2-N NO3 TOTCOL TURB
2512220097	SIT2 2 OUTFLOW FROM TJ POND 2	@DIAZEDD FECCOL NO3A OPO4	Water GLYPHOS NH3 T-P TKN	22-dec-2005 11:20:00 NO2-N NO3 TOTCOL TURB
2512220098	SIT2 3 BIG TJ WASH 1	@DIAZEDD FECCOL NO3A OPO4	Water GLYPHOS NH3 T-P TKN	22-dec-2005 12:30:00 NO2-N NO3 TOTCOL TURB
2512220099	SITE 3 BIG TJ WASH 2	@DIAZEDD FECCOL NO3A OPO4	Water GLYPHOS NH3 T-P TKN	22-dec-2005 12:45:00 NO2-N NO3 TOTCOL TURB
2512220100	SITE 4 HAINES CANYON CREEK 1	@DIAZEDD FECCOL NO3A OPO4	Water GLYPHOS NH3 T-P TKN	22-dec-2005 08:30:00 NO2-N NO3 TOTCOL TURB
2512220101	SITE 4 HAINES CANYON CREEK 2	@DIAZEDD FECCOL NO3A OPO4	Water GLYPHOS NH3 T-P TKN	22-dec-2005 08:45:00 NO2-N NO3 TOTCOL TURB

Test Acronym Description

Test Acronym	Description	REVIEWED	TAG
@DIAZEDD	Diazinon/Chlorpyrifos by GCMS		
FECCOL	Fecal Coliform Bacteria		
GLYPHOS	Glyphosate		
NH3	Ammonia Nitrogen		
NO2-N	Nitrite, Nitrogen by IC		
		REVIEWED	TAG

12-22-05

Applied Research Dept, MWH (Darren Giles)	
327 West Maple Avenue	Customer Code: ARD-DG
Monrovia, CA 91016	PO#: 1342289.5620.051801
Attn: Darren Giles	Group#: 164120
Phone: (626) 303-5945	Project#: BIG-TJ
	Proj Mgr: Linda Geddes
	Phone: (626) 386-1163

Test Acronym Description

Test Acronym	Description
NO3	Nitrate as Nitrogen by IC
NO3A	Nitrate as NO3 (calc)
OPO4	Orthophosphate-P
T-P	Total phosphorus-P
TKN	Kjeldahl Nitrogen
TOTCOL	Total Coliform Bacteria
TURB	Turbidity



CRG

Marine Laboratories, Inc.

2020 Del Amo Blvd. Suite 200, Torrance, CA 90501 • (310) 533-5190 • FAX (310) 533-5003 • mmercier@crglabs.com

January 3, 2006

MWH Laboratories
70 Royal Oaks Dr., Suite 100
Monrovia, CA 91016-3629

Re: CRG Project ID: P2502ba
MWH Project: 164120
MWH Sub PO: 99-20661

ATTN: Mr. Michael Lettona

CRG Laboratories is pleased to provide you with the enclosed analytical data report for your 164120 Project. According to the chain-of-custody, 8 wastewater samples were received intact and cool at CRG on December 23, 2005. Per your instructions, the samples were analyzed for:

- Diazinon & Chlorpyrifos By GCMS Using EPA Method 625m

Please don't hesitate to call if you have any questions and thank you very much for using our laboratory for your analytical needs.

Regards,
Misty B. Mercier
Project Manager

Misty B. Mercier

Digitally signed by Misty B. Mercier
DN: CN = Misty B. Mercier, C = US,
O = CRG Marine Laboratories, Inc.
Date: 2006.01.13 09:11:47 -08'00'

Reviewed and Approved

DATA REPORT

CRG Marine Laboratories, Inc.

2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

Organophosphorus Pesticides

Client: MWH Laboratories

CRG Project ID: 2502ba

CRG ID#: 33714	Sample: 251220091	Date Sampled: 22-Dec-05	10:00
Replicate #: R1	Description: Project # 164120 / PO 99-20661	Date Received: 23-Dec-05	
Batch ID: 2502ba-15148	Matrix: Waste Water	Date Processed: 23-Dec-05	
Instrument: GC/MS #3 Agilent 6890/5973	Analyst: D. Gonsman	Date Analyzed: 30-Dec-05	

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DILUTION FACTOR	ACCEPTANCE RANGE
(PCB030)	Total	EPA 625m	100	% Recovery			1	46 - 119%
(PCB112)	Total	EPA 625m	97	% Recovery			1	52 - 123%
(PCB198)	Total	EPA 625m	90	% Recovery			1	59 - 123%
(TCMX)	Total	EPA 625m	98	% Recovery			1	40 - 110%
Bolstar (Sulprofos)	Total	EPA 625m	ND	ng/L	10	20	1	NA
Chlorpyrifos	Total	EPA 625m	ND	ng/L	5	10	1	NA
Demeton	Total	EPA 625m	ND	ng/L	10	20	1	NA
Diazinon	Total	EPA 625m	ND	ng/L	5	10	1	NA
Dichlorvos	Total	EPA 625m	ND	ng/L	10	20	1	NA
Dimethoate	Total	EPA 625m	ND	ng/L	5	10	1	NA
Disulfoton	Total	EPA 625m	ND	ng/L	10	20	1	NA
Ethoprop (Ethoprofos)	Total	EPA 625m	ND	ng/L	10	20	1	NA
Fenchlorphos (Ronnell)	Total	EPA 625m	ND	ng/L	10	20	1	NA
Fensulfothion	Total	EPA 625m	ND	ng/L	10	20	1	NA
Fenthion	Total	EPA 625m	ND	ng/L	10	20	1	NA
Malathion	Total	EPA 625m	ND	ng/L	5	10	1	NA
Merphos	Total	EPA 625m	ND	ng/L	10	20	1	NA
Methyl Parathion	Total	EPA 625m	ND	ng/L	10	20	1	NA
Mevinphos (Phosdrin)	Total	EPA 625m	ND	ng/L	10	20	1	NA
Phorate	Total	EPA 625m	ND	ng/L	10	20	1	NA
Tetrachlorvinphos (Stirofos)	Total	EPA 625m	ND	ng/L	10	20	1	NA
Tokuthion	Total	EPA 625m	ND	ng/L	10	20	1	NA
Trichloronate	Total	EPA 625m	ND	ng/L	10	20	1	NA

MDL = Method Detection Limit (CFR 40 Part 136); RL = Minimum Level (SWRCB); E = Estimated Value below the RL and above the MDL; ND = Not Detected; NA = Not Applicable.

California ELAP Certificate # 2261
33714 RI

CRG Marine Laboratories, Inc.

2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

Organophosphorus Pesticides

Client: MWH Laboratories

CRG Project ID: 2502ba

CRG ID#: 33715 **Sample Description:** 251220095 **Site:** SITE 1 INFLOW TO TJ POND 2 **Date Sampled:** 22-Dec-05 10:15
Replicate #: R1 **Project #:** 164120 / PO 99-20661
Batch ID: 2502ba-15148 **Matrix:** Waste Water
Instrument: GC/MS #3 Agilent 6890/5973 **Analyst:** D. Gonsman

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DILUTION FACTOR	ACCEPTANCE RANGE
(PCB030)	Total	EPA 625m	100	% Recovery			1	46 - 119%
(PCB112)	Total	EPA 625m	103	% Recovery			1	52 - 123%
(PCB198)	Total	EPA 625m	95	% Recovery			1	59 - 123%
(TCMX)	Total	EPA 625m	99	% Recovery			1	40 - 110%
Bolstar (Sulprofos)	Total	EPA 625m	ND	ng/L	10	20	1	NA
Chlorpyrifos	Total	EPA 625m	ND	ng/L	5	10	1	NA
Demeton	Total	EPA 625m	ND	ng/L	10	20	1	NA
Diazinon	Total	EPA 625m	ND	ng/L	5	10	1	NA
Dichlorvos	Total	EPA 625m	ND	ng/L	10	20	1	NA
Dimethoate	Total	EPA 625m	ND	ng/L	5	10	1	NA
Disulfoton	Total	EPA 625m	ND	ng/L	10	20	1	NA
Ethoprop (Ethoprofos)	Total	EPA 625m	ND	ng/L	10	20	1	NA
Fenchlorphos (Rannel)	Total	EPA 625m	ND	ng/L	10	20	1	NA
Fensulfothion	Total	EPA 625m	ND	ng/L	10	20	1	NA
Fenthion	Total	EPA 625m	ND	ng/L	10	20	1	NA
Malathion	Total	EPA 625m	ND	ng/L	5	10	1	NA
Merphos	Total	EPA 625m	ND	ng/L	10	20	1	NA
Methyl Parathion	Total	EPA 625m	ND	ng/L	10	20	1	NA
Mevinphos (Phosdrin)	Total	EPA 625m	ND	ng/L	10	20	1	NA
Phorate	Total	EPA 625m	ND	ng/L	10	20	1	NA
Tetrachlorvinphos (Stirofos)	Total	EPA 625m	ND	ng/L	10	20	1	NA
Tokuthion	Total	EPA 625m	ND	ng/L	10	20	1	NA
Trichloronate	Total	EPA 625m	ND	ng/L	10	20	1	NA

MDL= Method Detection Limit (CFR 40 Part 136); RL= Minimum Level (SWRCB); E= Estimated Value below the RL, and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261
33715 R1

CRG Marine Laboratories, Inc.

2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

Chlorinated Hydrocarbons Residues

Client: MWH Laboratories

CRG Project ID: 2502ba

CRG ID#: 33716 **Sample Description:** 251220096 **SITE 2 OUTFLOW FRM TJ POUND** **Date Sampled:** 22-Dec-05 **11:00**
Replicate #: R1 **Project #:** 164120 / PO 99-20661
Batch ID: 2502ba-15148 **Matrix:** Waste Water
Instrument: GC/MS #3 Agilent 6890/5973 **Analyst:** D. Gonsman **Date Received:** 23-Dec-05
Date Processed: 23-Dec-05
Date Analyzed: 30-Dec-05

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DILUTION FACTOR	ACCEPTANCE RANGE
(PCB030)	Total	EPA 625m	98	% Recovery			1	46 - 119%
(PCB112)	Total	EPA 625m	98	% Recovery			1	52 - 123%
(PCB186)	Total	EPA 625m	86	% Recovery			1	59 - 123%
(TCMX)	Total	EPA 625m	97	% Recovery			1	40 - 110%
Bolstar (Sulprofos)	Total	EPA 625m	ND	ng/L	10	20	1	NA
Chlorpyrifos	Total	EPA 625m	ND	ng/L	5	10	1	NA
Demeton	Total	EPA 625m	ND	ng/L	10	20	1	NA
Diazinon	Total	EPA 625m	ND	ng/L	5	10	1	NA
Dichlorvos	Total	EPA 625m	ND	ng/L	10	20	1	NA
Dimethoate	Total	EPA 625m	ND	ng/L	5	10	1	NA
Disulfoton	Total	EPA 625m	ND	ng/L	10	20	1	NA
Ethoprop (Ethoprosfos)	Total	EPA 625m	ND	ng/L	10	20	1	NA
Fenchlorphos (Rommel)	Total	EPA 625m	ND	ng/L	10	20	1	NA
Fensulfthion	Total	EPA 625m	ND	ng/L	10	20	1	NA
Fenthion	Total	EPA 625m	ND	ng/L	10	20	1	NA
Malathion	Total	EPA 625m	ND	ng/L	5	10	1	NA
Merphos	Total	EPA 625m	ND	ng/L	10	20	1	NA
Methyl Parathion	Total	EPA 625m	ND	ng/L	10	20	1	NA
Mevinphos (Phosdrin)	Total	EPA 625m	ND	ng/L	10	20	1	NA
Phorate	Total	EPA 625m	ND	ng/L	10	20	1	NA
Tetrachlorvinphos (Stirofos)	Total	EPA 625m	ND	ng/L	10	20	1	NA
Tokuthion	Total	EPA 625m	ND	ng/L	10	20	1	NA
Trichloronate	Total	EPA 625m	ND	ng/L	10	20	1	NA

MDL= Method Detection Limit (CFR 40 Part 136); **RL=** Minimum Level (SWRCB); **E=** Estimated Value below the RL and above the MDL; **ND=** Not Detected; **NA=** Not Applicable.

CRG Marine Laboratories, Inc.

2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

Organophosphorus Pesticides

Client: MWH Laboratories

CRG Project ID: 2502ba

CRG ID#: 33717
Replicate #: R1
Batch ID: 2502ba-15148
Instrument: GC/MS #3 Agilent 6890/5973
Sample Description: 251220097 SITE 2 OUTFLOW FRM TJ POUND
Matrix: Waste Water
Analyst: D. Gonsman
Date Sampled: 22-Dec-05 11:20
Date Received: 23-Dec-05
Date Processed: 23-Dec-05
Date Analyzed: 30-Dec-05

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DILUTION FACTOR	ACCEPTANCE RANGE
(PCB030)	Total	EPA 625m	100	% Recovery			1	46 - 119%
(PCB112)	Total	EPA 625m	103	% Recovery			1	52 - 123%
(PCB198)	Total	EPA 625m	89	% Recovery			1	59 - 123%
(TCMX)	Total	EPA 625m	102	% Recovery			1	40 - 110%
Bolstar (Sulprofos)	Total	EPA 625m	ND	ng/L	10	20	1	NA
Chlorpyrifos	Total	EPA 625m	ND	ng/L	5	10	1	NA
Demeton	Total	EPA 625m	ND	ng/L	10	20	1	NA
Diazinon	Total	EPA 625m	ND	ng/L	5	10	1	NA
Dichlorvos	Total	EPA 625m	ND	ng/L	10	20	1	NA
Dimethoate	Total	EPA 625m	ND	ng/L	5	10	1	NA
Disulfoton	Total	EPA 625m	ND	ng/L	10	20	1	NA
Ethoprop (Ethopropfos)	Total	EPA 625m	ND	ng/L	10	20	1	NA
Fenchlorphos (Ronnel)	Total	EPA 625m	ND	ng/L	10	20	1	NA
Fensulfothion	Total	EPA 625m	ND	ng/L	10	20	1	NA
Fenthion	Total	EPA 625m	ND	ng/L	10	20	1	NA
Malathion	Total	EPA 625m	ND	ng/L	10	20	1	NA
Merphos	Total	EPA 625m	ND	ng/L	5	10	1	NA
Methyl Parathion	Total	EPA 625m	ND	ng/L	10	20	1	NA
Mevinphos (Phosdrin)	Total	EPA 625m	ND	ng/L	10	20	1	NA
Phorate	Total	EPA 625m	ND	ng/L	10	20	1	NA
Tetrachlorvinphos (Stirofos)	Total	EPA 625m	ND	ng/L	10	20	1	NA
Tokuthion	Total	EPA 625m	ND	ng/L	10	20	1	NA
Trichloronate	Total	EPA 625m	ND	ng/L	10	20	1	NA

MDL= Method Detection Limit (CFR 40 Part 136); RL= Minimum Level (SWRCB); E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261
33717 R1

CRG Marine Laboratories, Inc.

2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

Organophosphorus Pesticides

Client: MWH Laboratories

CRG Project ID: 2502ba

CRG ID#: 33718 **Sample Description:** 251220098 **Site:** SITE 3 BIG TJ WASH 1 **Date Sampled:** 22-Dec-05 12:30
Replicate #: R1 **Project #:** 164120 / PO 99-20661
Batch ID: 2502ba-15148 **Matrix:** Waste Water **Date Received:** 23-Dec-05
Instrument: GC/MS #3 Agilent 6890/5973 **Analyst:** D. Gonsman **Date Processed:** 23-Dec-05
Date Analyzed: 30-Dec-05

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DILUTION FACTOR	ACCEPTANCE RANGE
(PCB030)	Total	EPA 625m	98	% Recovery			1	46 - 119%
(PCB112)	Total	EPA 625m	99	% Recovery			1	52 - 123%
(PCB198)	Total	EPA 625m	88	% Recovery			1	59 - 123%
(TCMX)	Total	EPA 625m	100	% Recovery			1	40 - 110%
Bolstar (Sulprofos)	Total	EPA 625m	ND	ng/L	10	20	1	NA
Chlorpyrifos	Total	EPA 625m	ND	ng/L	5	10	1	NA
Demeton	Total	EPA 625m	ND	ng/L	10	20	1	NA
Diazinon	Total	EPA 625m	ND	ng/L	5	10	1	NA
Dichlorvos	Total	EPA 625m	ND	ng/L	10	20	1	NA
Dimethoate	Total	EPA 625m	ND	ng/L	5	10	1	NA
Disulfoton	Total	EPA 625m	ND	ng/L	10	20	1	NA
Ethoprop (Ethopropos)	Total	EPA 625m	ND	ng/L	10	20	1	NA
Fenchlorphos (Rommel)	Total	EPA 625m	ND	ng/L	10	20	1	NA
Fensulfthion	Total	EPA 625m	ND	ng/L	10	20	1	NA
Fenthion	Total	EPA 625m	ND	ng/L	10	20	1	NA
Malathion	Total	EPA 625m	ND	ng/L	5	10	1	NA
Merphos	Total	EPA 625m	ND	ng/L	10	20	1	NA
Methyl Parathion	Total	EPA 625m	ND	ng/L	10	20	1	NA
Mevinphos (Phosdrin)	Total	EPA 625m	ND	ng/L	10	20	1	NA
Phorate	Total	EPA 625m	ND	ng/L	10	20	1	NA
Tetrachlorvinphos (Stirofos)	Total	EPA 625m	ND	ng/L	10	20	1	NA
Tokuthion	Total	EPA 625m	ND	ng/L	10	20	1	NA
Trichloronate	Total	EPA 625m	ND	ng/L	10	20	1	NA

MDL= Method Detection Limit (CFR 40 Part 136); **RL=** Minimum Level (SWRCB); **E=** Estimated Value below the RL, and above the MDL; **ND=** Not Detected; **NA=** Not Applicable.

California ELAP Certificate # 2261
 33718 R1

CRG Marine Laboratories, Inc.

2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbglobal.net

Organophosphorus Pesticides

Client: MWH Laboratories

CRG Project ID: 2502ba

CRG ID#: 33719	Sample: 251220099	Date Sampled: 22-Dec-05	12:45
Replicate #: R1	Description: Project # 164120 / PO 99-20661	Date Received: 23-Dec-05	
Batch ID: 2502ba-15148	Matrix: Waste Water	Date Processed: 23-Dec-05	
Instrument: GC/MS #3 Agilent 6890/5973	Analyst: D. Gonsman	Date Analyzed: 30-Dec-05	

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DILUTION FACTOR	ACCEPTANCE RANGE
(PCB030)	Total	EPA 625m	101	% Recovery			1	46 - 119%
(PCB112)	Total	EPA 625m	104	% Recovery			1	52 - 123%
(PCB198)	Total	EPA 625m	89	% Recovery			1	59 - 123%
(TCMX)	Total	EPA 625m	101	% Recovery			1	40 - 110%
Bolstar (Sulprofos)	Total	EPA 625m	ND	ng/L	10	20	1	NA
Chlorpyrifos	Total	EPA 625m	ND	ng/L	5	10	1	NA
Demeton	Total	EPA 625m	ND	ng/L	10	20	1	NA
Diazinon	Total	EPA 625m	ND	ng/L	5	10	1	NA
Dichlorvos	Total	EPA 625m	ND	ng/L	10	20	1	NA
Dimethoate	Total	EPA 625m	ND	ng/L	5	10	1	NA
Disulfoton	Total	EPA 625m	ND	ng/L	10	20	1	NA
Ethoprop (Ethoprophos)	Total	EPA 625m	ND	ng/L	10	20	1	NA
Fenchlorphos (Ronnell)	Total	EPA 625m	ND	ng/L	10	20	1	NA
Fensulfthion	Total	EPA 625m	ND	ng/L	10	20	1	NA
Fenthion	Total	EPA 625m	ND	ng/L	10	20	1	NA
Malathion	Total	EPA 625m	ND	ng/L	5	10	1	NA
Merphos	Total	EPA 625m	ND	ng/L	10	20	1	NA
Methyl Parathion	Total	EPA 625m	ND	ng/L	10	20	1	NA
Mevinphos (Phosdrin)	Total	EPA 625m	ND	ng/L	10	20	1	NA
Phorate	Total	EPA 625m	ND	ng/L	10	20	1	NA
Tetrachlorvinphos (Stirofos)	Total	EPA 625m	ND	ng/L	10	20	1	NA
Tokuthion	Total	EPA 625m	ND	ng/L	10	20	1	NA
Trichloronate	Total	EPA 625m	ND	ng/L	10	20	1	NA

MDL = Method Detection Limit (CFR 40 Part 136); RL = Minimum Level (SWRCB); E = Estimated Value below the RL and above the MDL; ND = Not Detected; NA = Not Applicable.

CRG Marine Laboratories, Inc.

2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

Organophosphorus Pesticides

Client: MWH Laboratories

CRG Project ID: 2502ba

CRG ID#: 33720	Sample Description: 251220100	Date Sampled: 22-Dec-05	08:30
Replicate #: R1	Project # 164120 / PO 99-20661	Date Received: 23-Dec-05	
Batch ID: 2502ba-15148	Matrix: Waste Water	Date Processed: 23-Dec-05	
Instrument: GC/MS #3 Agilent 6890/5973	Analyst: D. Gonsman	Date Analyzed: 30-Dec-05	

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DILUTION FACTOR	ACCEPTANCE RANGE
(PCB030)	Total	EPA 625m	97	% Recovery			1	46 - 119%
(PCB112)	Total	EPA 625m	99	% Recovery			1	52 - 123%
(PCB198)	Total	EPA 625m	87	% Recovery			1	59 - 123%
(TCMX)	Total	EPA 625m	96	% Recovery			1	40 - 110%
Bolstar (Sulprofos)	Total	EPA 625m	ND	ng/L	10	20	1	NA
Chlorpyrifos	Total	EPA 625m	ND	ng/L	5	10	1	NA
Demeton	Total	EPA 625m	ND	ng/L	10	20	1	NA
Diazinon	Total	EPA 625m	ND	ng/L	5	10	1	NA
Dichlorvos	Total	EPA 625m	ND	ng/L	10	20	1	NA
Dimethoate	Total	EPA 625m	ND	ng/L	5	10	1	NA
Disulfoton	Total	EPA 625m	ND	ng/L	10	20	1	NA
Ethoprop (Ethoprofos)	Total	EPA 625m	ND	ng/L	10	20	1	NA
Fenchlorphos (Ronnel)	Total	EPA 625m	ND	ng/L	10	20	1	NA
Fensulfothion	Total	EPA 625m	ND	ng/L	10	20	1	NA
Fenthion	Total	EPA 625m	ND	ng/L	10	20	1	NA
Malathion	Total	EPA 625m	ND	ng/L	5	10	1	NA
Merphos	Total	EPA 625m	ND	ng/L	10	20	1	NA
Methyl Parathion	Total	EPA 625m	ND	ng/L	10	20	1	NA
Mevinphos (Phosdrin)	Total	EPA 625m	ND	ng/L	10	20	1	NA
Phorate	Total	EPA 625m	ND	ng/L	10	20	1	NA
Tetrachlorvinphos (Stirofos)	Total	EPA 625m	ND	ng/L	10	20	1	NA
Tokuthion	Total	EPA 625m	ND	ng/L	10	20	1	NA
Trichloronate	Total	EPA 625m	ND	ng/L	10	20	1	NA

MDL= Method Detection Limit (CFR 40 Part 136); RL= Minimum Level (SWRCB); E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261
33720 R1

CRG Marine Laboratories, Inc.

2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

Organophosphorus/Pesticides

Client: MWH Laboratories

CRG Project ID: 2502ba

CRG ID#: 33721 **Sample:** 251220101 **SITE:** 4 HAINES CANYON CREEK **Date Sampled:** 22-Dec-05 **08:45**
Replicate #: R1 **Description:** Project # 164120 / PO 99-20661
Batch ID: 2502ba-15148 **Matrix:** Waste Water **Date Received:** 23-Dec-05
Instrument: GC/MS #3 Agilent 6890/5973 **Analyst:** D. Gonsman **Date Processed:** 23-Dec-05
Date Analyzed: 30-Dec-05

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DILUTION FACTOR	ACCEPTANCE RANGE
(PCB030)	Total	EPA 625m	105	% Recovery			1	46 - 119%
(PCB112)	Total	EPA 625m	103	% Recovery			1	52 - 123%
(PCB198)	Total	EPA 625m	93	% Recovery			1	59 - 123%
(TCMX)	Total	EPA 625m	102	% Recovery			1	40 - 110%
Bolstar (Sulprofos)	Total	EPA 625m	ND	ng/L	10	20	1	NA
Chlorpyrifos	Total	EPA 625m	ND	ng/L	5	10	1	NA
Demeton	Total	EPA 625m	ND	ng/L	10	20	1	NA
Diazinon	Total	EPA 625m	ND	ng/L	5	10	1	NA
Dichlorvos	Total	EPA 625m	ND	ng/L	10	20	1	NA
Dimethoate	Total	EPA 625m	ND	ng/L	5	10	1	NA
Disulfoton	Total	EPA 625m	ND	ng/L	10	20	1	NA
Ethoprop (Ethoprofos)	Total	EPA 625m	ND	ng/L	10	20	1	NA
Fenchlorphos (Ronnel)	Total	EPA 625m	ND	ng/L	10	20	1	NA
Fensulfothion	Total	EPA 625m	ND	ng/L	10	20	1	NA
Fenthion	Total	EPA 625m	ND	ng/L	10	20	1	NA
Malathion	Total	EPA 625m	ND	ng/L	5	10	1	NA
Merphos	Total	EPA 625m	ND	ng/L	10	20	1	NA
Methyl Parathion	Total	EPA 625m	ND	ng/L	10	20	1	NA
Mevinphos (Phosdrin)	Total	EPA 625m	ND	ng/L	10	20	1	NA
Phorate	Total	EPA 625m	ND	ng/L	10	20	1	NA
Tetrachlorvinphos (Stirofos)	Total	EPA 625m	ND	ng/L	10	20	1	NA
Tokuthion	Total	EPA 625m	ND	ng/L	10	20	1	NA
Trichloronate	Total	EPA 625m	ND	ng/L	10	20	1	NA

MDL= Method Detection Limit (CFR 40 Part 136); RL= Minimum Level (SWRCB); E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261
33721 R1

QUALITY CONTROL REPORT

CRG Marine Laboratories, Inc.

2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

Organophosphorus Pesticides

Client: MWH Laboratories

CRG Project ID: 2502ba

CRG ID#: 33713	Sample Description: Project # 164120 / PO 99-20661	Date Sampled: Procedural Blank	Date Received:
Replicate #: B1	Matrix: DI Water		Date Processed: 23-Dec-05
Batch ID: 2502ba-15148	Analyst: D. Gonsman		Date Analyzed: 30-Dec-05
Instrument: GC/MS #3 Agilent 6890/5973			

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DILUTION FACTOR	ACCEPTANCE RANGE
(PCB030)	Total	EPA 625m	99	% Recovery			1	46 - 119%
(PCB112)	Total	EPA 625m	99	% Recovery			1	52 - 123%
(PCB198)	Total	EPA 625m	94	% Recovery			1	59 - 123%
(TCMX)	Total	EPA 625m	101	% Recovery			1	40 - 110%
Bolstar (Sulprofos)	Total	EPA 625m	ND	ng/L	10	20	1	NA
Chlorpyrifos	Total	EPA 625m	ND	ng/L	5	10	1	NA
Demeton	Total	EPA 625m	ND	ng/L	10	20	1	NA
Diazinon	Total	EPA 625m	ND	ng/L	5	10	1	NA
Dichlorvos	Total	EPA 625m	ND	ng/L	10	20	1	NA
Dimethoate	Total	EPA 625m	ND	ng/L	5	10	1	NA
Disulfoton	Total	EPA 625m	ND	ng/L	10	20	1	NA
Ethoprop (Ethoprofos)	Total	EPA 625m	ND	ng/L	10	20	1	NA
Fenchlorphos (Ronnal)	Total	EPA 625m	ND	ng/L	10	20	1	NA
Fensulfothion	Total	EPA 625m	ND	ng/L	10	20	1	NA
Fenthion	Total	EPA 625m	ND	ng/L	10	20	1	NA
Malathion	Total	EPA 625m	ND	ng/L	5	10	1	NA
Merphos	Total	EPA 625m	ND	ng/L	10	20	1	NA
Methyl Parathion	Total	EPA 625m	ND	ng/L	10	20	1	NA
Mevinphos (Phosdrin)	Total	EPA 625m	ND	ng/L	10	20	1	NA
Phorate	Total	EPA 625m	ND	ng/L	10	20	1	NA
Tetrachlorirphos (Stirofos)	Total	EPA 625m	ND	ng/L	10	20	1	NA
Tokuthion	Total	EPA 625m	ND	ng/L	10	20	1	NA
Trichloronate	Total	EPA 625m	ND	ng/L	10	20	1	NA

MDL= Method Detection Limit (CFR 40 Part 136); RL= Minimum Level (SWRCB); E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261
33713 B1

CHAIN-OF-CUSTODY



MWH Laboratories
A Division of MWH Americas, Inc.
750 Royal Oaks Drive Suite 100
Monrovia, CA 91016-3629
Ph (626) 386-1100 Fax (626) 386-1095

Ship To **Misty B. Mercier**
CRG MARINE

2020 Del Amo Blvd
Suite 200
Torrance, CA 90501-1206

(310) 533-5190 x106 Fax (310) 533-5003

MWH Project # **164120** Report Due: **01/06/06** Sub PO# **99-20661**



RBC

Client Sample ID for reference only

Container

			Analysis Requested	Sample Date & Time	Matrix	Container
1	@DIAZEDD	251220091	SITE 1 INFLOW TO TJ POND 1 DIAZINON & CHLORPYRIFOS by 625	12/22/05 10:00	WW 3	1L amber glass+ buffer+ascorbic+EDTA+DZU
2	@DIAZEDD	251220095	SITE 1 INFLOW TO TJ POND 2 DIAZINON & CHLORPYRIFOS by 625	12/22/05 10:15	WW 3	1L amber glass+ buffer+ascorbic+EDTA+DZU
3	@DIAZEDD	251220096	SITE 2 OUTFLOW FRM TJ POUND1 DIAZINON & CHLORPYRIFOS by 625	12/22/05 11:00	WW 3	1L amber glass+ buffer+ascorbic+EDTA+DZU
4	@DIAZEDD	251220097	SITE 2 OUTFLOW FRM TJ POUND2 DIAZINON & CHLORPYRIFOS by 625	12/22/05 11:20	WW 3	1L amber glass+ buffer+ascorbic+EDTA+DZU
5	@DIAZEDD	251220098	SITE 3 BIG TJ WASH 1 DIAZINON & CHLORPYRIFOS by 625	12/22/05 12:30	WW 3	1L amber glass+ buffer+ascorbic+EDTA+DZU
6	@DIAZEDD	251220099	SITE 3 BIG TJ WASH 2 DIAZINON & CHLORPYRIFOS by 625	12/22/05 12:45	WW 3	1L amber glass+ buffer+ascorbic+EDTA+DZU
7	@DIAZEDD	251220100	SITE 4 HAINES CANYON CREEK 1 DIAZINON & CHLORPYRIFOS by 625	12/22/05 08:30	WW 3	1L amber glass+ buffer+ascorbic+EDTA+DZU
8	@DIAZEDD	251220101	SITE 4 HAINES CANYON CREEK 2 DIAZINON & CHLORPYRIFOS by 625	12/22/05 8:45	WW 3	1L amber glass+ buffer+ascorbic+EDTA+DZU

Handwritten: 1509-10-11-12
1509-10-11-12

Handwritten signature: [Signature]

Relinquished by:

Sample Control

Date 12/22/05

Time 12:30

Time 09:45

Date

Time

Time

Date

Time

Time

Date

Page 1

An Acknowledgement of Receipt is requested to attn: Michael Lettona

Date 12/22/05 **Submittal Form & Purchase Order** 99-20661
***REPORTING REQUIREMENTS: Do Not Combine Report with any other samples submitted under different MWH project numbers!**
Report & Invoice must have the MWH Project Number **164120** Sub PO# **99-20661** and Job # **Find Out**
Report all quality control data according to Method. Include dates analyzed, date extracted (if extracted) and Method reference on the report.
Results must have Complete data & QC with Approval Signature. See reverse side for List of Terms and Conditions

Reports: Michael Lettona Sub-contracting Administrator
EMAIL TO: Michael.Lettona@mwhglobal.com
MWH Laboratories 750 Royal Oaks Dr. Ste. 100, Monrovia, CA 91016
Phone (626) 386-1137 Fax (626) 386-1095
Invoices to: MWH LABORATORIES
Accounts Payable PO BOX 6610, Broomfield, CO 80021

Provide in each Report
the Specified State
Certification # & Exp Date for
requested tests + matrix

CA ELAP WW

CRG Project ID
 p2502ba

CLIENT NAME MWH DATE RECEIVED 12/23/05


COURIER INFORMATION		
<input type="checkbox"/> CRG	<input checked="" type="checkbox"/> FEDEX	TRACKING NUMBER <u>6912 3663 5340</u>
<input type="checkbox"/> OTHER*	<input type="checkbox"/> UPS	

TEMPERATURE
<u>6</u> °C <input checked="" type="checkbox"/> BLUE ICE
<input type="checkbox"/> WET ICE
<input type="checkbox"/> NO ICE

Chain-of-Custody
<input checked="" type="checkbox"/> INCLUDED
<input checked="" type="checkbox"/> SIGNED
<input type="checkbox"/> NOT INCLUDED

SAMPLE MATRIX
<input checked="" type="checkbox"/> LIQUID
<input type="checkbox"/> SOLID
<input type="checkbox"/> OTHER*

CONDITION OF SAMPLES UPON ARRIVAL			
	YES	NO*	NA
All sample containers intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
All samples listed on COC are present.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample ID on containers consistent with COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Correct containers used for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
All samples received within method holding time.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

*NOTES
<p style="text-align: right;">COMPLETED BY: </p>

