Del Monte Foods, Inc.
Cultivating Good Food for a Better Life

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August 19, 2014

Mr. Scott J. Hatton, P.E.
Water Resource Control Engineer
Central Valley Regional Water Quality Control Board
1685 E Street
Fresno, California 93706-2020

SUBJECT: **Del Monte Foods, Inc. Plant #24, Kings County, California**
Tentative Waste Discharge Requirements 18 July 2014

Dear Mr. Hatton:

This letter presents Del Monte Foods Inc.'s (Del Monte's) comments in regard to the subject Tentative Waste Discharge Requirements forwarded to us under cover of your July 16, 2014 Notice.

We appreciate many of the changes that you offer in the updated Tentative Waste Discharge Requirements (WDR) and for closely reviewing/ considering our various requests to modify the plant's existing Monitoring and Reporting Program (MRP). In particular, we appreciate those changes/ updates that will allow us to eliminate existing facility redundant/ unnecessary environmental testing/ costs and regulatory reporting.

Below we offer some general comments, but the bulk of our comments/ far reaching concerns focus on the Annual Average Effluent Electrical Conductivity (EC) Limit found at the top of Page 19 of the Tentative WDR that reads:

> ***As determined by collecting samples from monitoring location EEF-001, the electrical conductivity of wastewater discharged to the LAA, prior to mixing with irrigation water, shall not exceed an annual average of 1,000 umhos/cm.***

We are particularly concerned about this limit because our current factory tomato processing operations and treatment systems will not be able to consistently meet this strict limitation. More specifically, without making significant and very costly changes to our existing factory tomato peeling operations, historical factory discharge data indicates that our factory may be able to achieve this strict standard in only one out of every four years (achieve compliance about 25% of the time).

We have closely reviewed all of our available discharge/ monitoring data and based on this strong technical data our site qualifies for an exception of the 1,000 umhos/cm EC Limit consistent with Part IV, Industrial Wastewater, Pages IV-13 – IV-14, of the *Water Quality Control Plan for the Tulare Lake Basin Second Edition* for the following reasons:

- Our new 158-acre farm site, modified high yield/ dry matter production double crop rotations, and revised agronomic based fertilizer/ amendment practices will result in much lower mass emissions of

salts being potentially leached to the shallow aquifer and will further allow conservation of very limited area groundwater supplies as well as preserve/ protect beneficial uses; and

- Our effluent exhibits a disproportionate increase in EC of the discharge over the EC of the source water due to unavoidable concentrations of organic dissolved solids from the raw locally grown tomatoes that we process. On some days, as little as 7% of measured EC in our process water, can directly be attributed to fixed dissolved solids (typically about 38 – 40% of measured effluent EC at our factory can be directly attributed to fixed salts found in our recycled processing waters).

In consideration of the above regulatory factors and the analyses we present in this letter, we request a modified Annual Average Effluent EC Limit of 2,000 umhos/cm. Most importantly, allowing this level of conductivity in our process water will not in any way be injurious to the high nitrogen/ salt uptake capacity forage/ silage crops (alfalfa, cotton, sorghum, sudan grass, and wheat) that we purposely grow at our land application site to achieve maximize recycling of our processing waters.[1,2,3]

WDR GENERAL COMMENTS

Page 2, Item 6, Source Water Quality Table, Plant Well #4, Arsenic Quality
Fix typo. The average arsenic quality of our Plant Well #4 water during 2013 was 0.068 parts per million (mg/L) and not 0.68 mg/L as reflected in the Source Water Quality Table.

Page 12, Item 42, Crop Tissue Analysis for 2010 – 2013
Fix typo. Change "Mean Nitrogen Uptake lbs N/~~acre~~" to "Mean Nitrogen Uptake lbs N/ton."

For completeness, you may want to add the following table to Item 42 of the WDR. We did not include this data with our original Application/ Report of Waste Discharge. It includes the amounts of salts and potassium that our crops actually removed from our land application site in 2013.

Crop	Dry Matter Yield		Salt Uptake*		Potassium Uptake*	
	Average	Range	Average	Range	Average	Range
	(tons/ac)		(lbs/ac)			
Alfalfa	5.90	---	1,405	---	415	---
Cotton	2.00	---	204	---	44	---
Sorghum	5.27	4.61 – 5.92	899	577 – 1,134	253	199 – 331
Sudan Grass	1.72	0.44 – 2.36	424	77 – 661	126	71 – 158
Wheat (Grain)	2.15	1.33 – 2.95	274	11 – 620	23	11 – 34
Wheat Straw	0.86	0.72 – 1.37	91	24 – 156	54	31 – 87
Wheat (Silage)	3.94	3.08 – 4.66	1,508	690 – 2,712	173	134 – 219

* ***Crop testing completed by Precision Agricultural Lab, Madera, CA***

[1] Ayers R.S. and Westcott. 1994 (Reprinted). Water Quality for Agriculture. FAO Irrigation and Drainage Paper 29 Rev. 1. Chapter 1 and Chapter 5. Food and Agriculture Organization of the United Nations Rome.
[2] California League of Food Processors (CLFP). 2007. Manual of Good Practice for Land Application of Food Processing/Rinse Water (Second Edition). p. 4-1 – 4-8.
[3] Central Valley Regional Water Quality Control Board. 2014. Tentative Waste Discharge Requirements for Del Monte Foods, Inc. and Mr. Ralph Alcala Plant #24, Kings County. p. 11, Finding 36.

The above site specific crop uptake data demonstrate that the forage/ silage crops that we annually grow/ harvest at our land application site have measurable ability to remove large amounts of fixed salts as well as potassium land applied in our processing waters. In particular, please note that K (a major plant nutrient) represents about 38–65% of all fixed salts land applied at our land application site on an annual basis (our process water also contains smaller amounts of sodium, chloride and other salts). This data provides a good benchmark for you to weigh/ factor our request for an Annual Average Effluent EC limit of 2,000 uhmos/cm.

Page 19, Item D4, Land Application Area Specifications, BOD Loading Limitation

The specified 100 pounds per acre per day BOD loading limit is very conservative and most sites with well drained soils and proper irrigation methods have the ability to effectively manage much higher amounts of biochemical oxygen demand (BOD) as we demonstrated through study at the former Del Monte Kingsburg Plant #25 land application site.[4] Specifically, at the Del Monte Kingsburg Plant #25 land application site, our lysimeter/ leaching study showed that we could safely load this site with BOD at more than 200 lbs/acre-day.

Accordingly, we request that this item be modified to allow us to submit a study to gain a higher BOD loading rate if we choose to do so in the future without the WDR having to be re-opened/ re-issued to include a demonstrated higher BOD loading limit for our site.

We suggest that Condition D4 be re-written to read: "...shall not exceed 100 pounds per acre per day unless the permittee can demonstrate through technical analyses that the site can adequately treat higher daily loadings of BOD.

Page 20, Item E5, Feeding of Tomato Pumice and Wet Wastes

Our plant by-products may be suitable for feeding various animals (typically mixed with other feed ingredients for different animal type consumption). Therefore, we request that this permit item be rewritten to read: "Tomato pumice and tomato wet wastes shall be hauled off-site and used as cattle and/or other acceptable animal feed."

Page 20, Item F, Groundwater Limitations, First Paragraph

For completeness, we request the word "significantly" be inserted in the first paragraph of this Item as follows: "Release of waste constituents associated with the discharge shall not significantly cause..."

Page 21, Povisions, Item 3, Work Plan to Modify Groundwater Monitoring Well Network

We are in general agreement with this proviso but we do seek to meet with the Water Board as soon as possible to closely review those apparent deficiencies in the "Monitoring Well Network Modifications Work Plan"[5] that we previously submitted to the Water Board in April 2014 as part of our Application/ Report of Waste Discharge. With respect to proper placement of background wells, if it is your intention to require us to drill additional monitoring wells not on our permitted properties, this may be difficult to achieve because our neighbors have in the past been very reluctant to allow us to drill any additional monitoring wells on their properties. Typically, monitoring wells drilled on private adjoining properties require challenging special access agreements, releases, and insurance.

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[4] Brown and Caldwell. April 2010. BOD Loading Study Report for Del Monte Kingsburg Plant #25.

[5] Ground Zero Analysis, Inc. March 31, 2014. Work Plan Monitoring Well Network Modifications. Del Monte Plant 24, 10652 Jackson Ave., Hanford, CA.

Page 21, Provisions, Item 4, Salinity Management Plan
We agree to develop a Salinity Management Plan. However, it is no longer necessary to "Fully Evaluate Pre-Treatment/ Source Reduction Options for Process Wastewater Nitrogen Treatment" because we purchased the new 158-acre farm site to address the nitrogen in our process water. Studies of this nature are very expensive and this particular study will provide no benefit at this time. Note that we did not complete this study some four years ago because we determined that land application of our processing waters across more farm land was most technically correct and cost effective for our seasonal factory operations.

MRP GENERAL COMMENTS

Page 5, Groundwater Monitoring, First Paragraph, Replacement of Dry Monitoring Wells
In consideration of our significant on-going drought, requiring the replacement of a monitoring well that remains dry for more than two consecutive dry sampling events is somewhat strict. This is particularly true for historical monitoring wells that were likely drilled during wetter times. Therefore, this proviso should be changed to read: "If a groundwater monitoring well(s) are dry for more than ~~two~~ four consecutive sampling events..."

Page 8, Item B5, Feeding of Tomato Pumice and Wet Wastes
Refer to our previous Feeding of Tomato Pumice and Wet Wastes comment above. Please change this item to read: "Location and quantity of tomato pumice and tomato wet wastes hauled off-site and used as cattle and/or other acceptable animal feed."

ANNUAL EFFLUENT CONDUCTIVITY LIMIT

As presented in our leading letter paragraphs, we request a modified Annual Average Effluent EC Limit of 2,000 uhmos/cm. Our large 1,235-acre farm/ recycling site has the ability to properly assimilate the amounts of salts/ nutrients in our discharged processing waters. Tables and Figures referenced below are attached.

Current Flow and Salt Discharges
Current factory effluent flow and loading conditions are presented/ factored in Tables 1 – 3, and these tables were developed utilizing the raw process water quality data presented in Attachment #1. Data for 2010 – 2013 are presented because these years include worst and best year operational data. These factory years also represent operating conditions following our installation of two evaporation units[6] designed/operated to recycle potassium hydroxide (KOH) used in our peeling operations and to reduce annual fixed salt discharges to our land application site. The major operating conditions associated with each of these years are detailed in the table below:

[6] Capital Cost ~$1.65M.

Year	Processing Factors*
2010	419K Raw Tons Processed 2,043 GPD KOH Used for Peeling Average Tomato Quality
2011	390K Raw Tons Processed 2,035 GPD KOH Used for Peeling Poor Tomato Quality
2012	376.2K Raw Tons Processed 1,445 GPD KOH Used for Peeling Average Tomato Quality
2013	350K Raw Tons Processed 1,439 GPD KOH Used for Peeling Good Tomato Quality

**GPD = Gallons per Day (average daily lye use rates)*

The total daily flow versus process water electrical conductivity (EC) and total dissolved solids (TDS) correlations/ graphs presented in Attachment #2 strongly suggest that the quality of the tomatoes that we process have the greatest impact on measured EC at our factory (more so than other processing factors that we can control/ influence on a daily basis to some extent). We state this because daily flows at our factory were poorly correlated with both measured EC and TDS.

The operating/ quality data in Table 1 indicate that it is highly unlikely that even under the best of conditions our current factory operations could consistently achieve an Annual Average Effluent EC limit of 1,000 uhmos/cm. More specifically, during 2010 – 2013, annual average EC measurements ranged 957 – 2,011 uhmos/cm. In only 2013, the factory was able to achieve an annual average EC < 1,000 uhmos/cm.

All of this data indicates that the factory would likely have to abandon existing KOH tomato peeling operations and/or install a complicated/ expensive salt treatment system to consistently meet an Annual Effluent EC limit of 1,000 uhmos/cm.

Please note that in 2010 we did complete a baseline engineering feasibility study for source separation and treatment of major salt streams at our factory.[7] Specifically, this study determined that this source separation and treatment would cost upwards of $10-12M to implement/ construct. This capital cost is substantial given the seasonal nature of our factory and the low margin products that we produce.

Process Water Effluent Salt Profile

Attached Tables 3 and 4 profile salts in our land applied processing waters. We specifically developed the salt profile in Table 3 to show that by far the major salt in our land applied processing waters is potassium (K). This is further demonstrated in the process water flow and quality mass basis calculations presented in Table 2.

In 1997, the plant replaced sodium hydroxide (NaOH) with KOH for tomato peeling operations. Potassium hydroxide, while much more expensive than sodium hydroxide, improves soil structure and substitutes the phytotoxic sodium ion for potassium, an essential plant nutrient. We specifically made this change to mitigate the negative impacts that sodium may have on soil structure, crop growth, and shallow groundwater quality.

[7] CDM. 2011. Water Balance Study for Del Monte Hanford Tomato Processing Plant.

The CA League of Food Processors "Manual of Good Practice for Land Application of Food Processing/Rinse Water (Second Edition)[8] recommends that this product substitution be implemented at all operations that lye peel fruits and vegetables.

Although we switched peeling agents, our processing waters still do contain some amounts of sodium and chloride (mostly related to factory sanitation/ cleaning chemicals). However, the Na and Cl data, for 2010-2013 presented in Table 3, indicates that (except for in 2011) our discharges on a yearly annual basis contained less than 175 mg/L of both Na and Cl.

Nevertheless, we are confident that through better source control, employee training, and improved clean-up techniques to be addressed in our Salinity Management Plan[9] that we can further control sodium and chloride discharges in our effluent and the presence of these salts in our processing waters should not serve as sole basis for denying our request for a higher Annual Average Effluent EC limit.

Revised Process Water Loading Projections

Per your specific request we revised and expanded our process water loading projections and crop balances for our proposed/ expanded land application site to reflect high/moderate production and worst case poor/fair processing tomatoes (Table 2, 4, 5, 6, and 7). However, it is terribly important to recognize that our loadings in every year will not be worst case (as particularly depicted in the past four years of operating data in Tables 1 and 2).

Note that our revised process water loadings are not much different than those that we originally presented to you in our April 2014 Application/ Report of Waste Discharge and they still closely match site capacity to accept our process water flows and quality. Our projections are based on current knowledge and were derived assuming:

- Vegetable/ tomato packing amounts/ volumes at the plant will not significantly increase in the near future (the amounts packed will be similar to those packed in the past four years).
- Process water flows and quality will not change much from that presented in Tables 2 and 4 for high/ moderate production and worst case poor/ fair processing tomatoes (based on average plant process water flows and quality for worst case CYs 2010-2011).
- Site crop yields and nitrogen, fixed salts, and K uptake rates will be similar as in CYs 2010 – 2013 (for nitrogen) and in CY 2013 (for fixed salts and K) as documented in the crop summary data found in Attachment #3.
- 1,235 acres will be utilized for land application in most years.
- No more than 90 lbs N/acre of commercial fertilizer will be applied across most sites on a yearly basis.
- Most site fields will be double-cropped each year (at least 75% of the site will be double-cropped each year).
- Net process wastewater nitrogen loading (Net WW N Loading) = Gross process wastewater nitrogen loading (Gross WW N Loading) x 0.65 (assumes that 35% of applied process wastewater nitrogen will be lost to the atmosphere due to volatilization and/or denitrification).

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[8] California League of Food Processors. 2007. Manual of Good Practice for Land Application of Food Processing/Rinse Water (Second Edition). p. 8-3.

[9] Required per Tentative WDR Provision G4.

- Net fertilizer N loading = Gross fertilizer N loading x 0.70 (assumes that 30% of applied fertilizer nitrogen will be lost to the atmosphere due to volatilization and/or denitrification).

It is projected that, when new Site 12 is in-place and ready to receive process waters, gross process wastewater loadings on a total (ac-ft and MG) and per acre basis (ac-in/ac) in worst case will range and average as follows (Table 5, 6, and 7):

Projected Gross Process Wastewater Hydraulic Loading Across Site Fields		
(ac-ft)*	**(MG)***	**(ac-in/ac)***
13.97 – 117.30	4.55 – 38.22	Range = 3.12 – 11.55 and Average = 8.85

**"ac-ft" = acre-feet; "MG" = million gallons; and "ac-in/ac" = acre-inches/acre*

Projected gross and net process wastewater and nitrogen fertilizer loadings on a per acre basis (lbs/ac) are shown in Tables 5 and 6 and are summarized below:

Projected Gross Process Wastewater and Fertilizer Nitrogen Loading		
Wastewater	**Fertilizer**	**Total**
------ lbs/ac* ------		
Range 72 – 229 ***Average*** 175	***Range*** 30 – 90 ***Average*** 40	***Range*** 162 – 259 ***Average*** 211

**"lbs/ac" = pounds per acre*

Projected gross per acre loadings of BOD, fixed salts, and K are shown in Tables 5 and 7 and ranged and averaged as summarized below:

Projected Gross Process Wastewater Fixed Salts, K and BOD Loadings		
Parameter	**Average**	**Range**
	------ lbs/ac* -----	
Fixed Salts, NVDS	2,020	852 - 2,579
Potassium, K	963	448 – 1,180
	----- lbs/ac/day* -----	
Biochemical Oxygen Demand, BOD	20	1 – 65

**"lbs/ac" = pounds per acre; and "lbs/ac/day" = pounds per acre per day*

Based on the projected/ simulated crop balances presented in Table 6 and 7, none of the above annual and/or daily loadings raise any obvious concerns from an agronomic loading stand-point.

Current Site Shallow Groundwater Quality

In this section, we briefly discuss historical site groundwater quality data for K, EC, TDS, and Cl to broadly evaluate current and proposed irrigation interactions with land and groundwater. As you are aware, at every land application site and farming operation some salts/ nutrients will be leached to the water table (this is unavoidable in most cases and necessary to keep a healthy rooting zone). In review of the attached trends graphs, please keep in mind that the whole basis of our land expansion project is to reduce per acre mass

loadings of nutrients/ salts (thus reducing the potential for any unused nutrients/ salts to be leached to the shallow groundwater). This is turn should result in improvement of site groundwater quality over time.

Three different secondary maximum contaminant levels (SMCLs)[10] designated recommended, upper, and short term are listed in Title 22[11] for EC, TDS and Cl. Title 22 does not list any standards for K. The recommended, upper, and short term SMCLs for EC, TDS, and Cl equal:

Parameter	Recommended	Upper	Short Term
EC, uhmos/cm	900	1,600	2,200
TDS, mg/L	500	1,000	1,500
Cl, mg/L	250	500	600

North Fields

In the North Field area, monitoring well MW-12 is up-gradient of existing land application fields and monitoring wells MW-4 and MW-9 are down-gradient of land application fields.[12]

Potassium (K)

During all of 2013, K was not detected in North Field monitoring wells (K < 2 mg/L in all monitoring wells) (Table 8). Concerning trends over time for this parameter in North Field groundwater are not displayed/ evident. This data indicates that our K inputs to North Fields are being effectively recycled/ assimilated. This is an important finding in that K represents 38-65% of all fixed salts annually land applied at the site.

Electrical Conductivity (EC) and Total Dissolved Solids (TDS)

Electrical conductivity and TDS follow similar quality trends in North Field monitoring wells with general improving and/or stable total salt quality. This is particularly evident over the past year at down-gradient monitoring wells MW-4 and MW-9. In 2013, concentrations of EC at North Field down-gradient well MW-4 and MW-9 at times ranged higher (1,700 – 2,100 mg/L) than the secondary recommended upper EC standard (Table 8). Similarly, in 2013, concentrations of TDS at North Field down-gradient wells MW-4 and MW-9 at times ranged higher (1,100 – 1,400 mg/L) than the secondary recommended upper TDS standard (Table 8). It is particularly important to note that at the start of land application operations North Field down-gradient groundwater contained moderate concentrations of EC/ TDS (Table 8).

Chloride (Cl)

In 2013, the Cl secondary drinking water standard set at 250 mg/L was consistently met at North Field up-gradient and down-gradient wells. Since May 2000, there have been some small increases in Cl at down-gradient wells MW-4 and MW-9. This trend data reflects that the factory will focus on reducing Cl discharges. This specific source reduction will be studied as part of the required factory Salinity Management Plan. Again, it is important to note, that at the start of land application operations, North Field down-gradient groundwater contained 110 – 280 mg Cl/L (Table 8).

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[10] Aesthetic based set to preserve taste, odor, or appearance of drinking water.

[11] CCR Title 22, Division 4, Chapter 15. Domestic Water Quality and Monitoring Regulations, Article 16. Secondary Water Standards (a) Section 64449.

[12] Del Monte. 2014. Application/ Report of Waste Discharge, New Process Water Recycling Area/ Field, Del Monte Foods Plant #24, Hanford, California.

South Fields

In the South Field area, groundwater conditions are less consistent and straight forward. However, well MW-14 is consistently measured with the highest water levels. Other wells (MW-1, MW-2, MW-13, and MW-15) show elevations that are very close in elevation. For best purposes of analysis, well MW-14 is up-gradient of South Field land application activities and wells MW-6, MW-13, and MW-15 are down-gradient of land application fields. Shallow groundwater quality up-gradient of South Fields is generally poor from a salt stand-point and this certainly is not related to current or past factory land application activities.

Potassium (K)

During 2013, small amounts of K were only detected in down-gradient well MW-15 (Table 8). Concerning trends over time for this parameter in South Field groundwater are not displayed/ evident. As at the North Fields, this data indicates that our K inputs to South Fields are being effectively recycled/ assimilated.

Electrical Conductivity (EC) and Total Dissolved Solids (TDS)

Electrical conductivity and TDS follow similar quality trends in South Field monitoring wells. In 2013, concentrations of EC in both up-gradient well MW-14 and down-gradient well MW-15 consistently were higher than the secondary short term EC and TDS standards (Table 8). The lowest EC (713 uhmos/cm, average) and TDS (448 mg TDS/L, average) concentrations were logged at down-gradient well MW-13.

Chloride (Cl)

In 2013, at up-gradient well MW-14, Cl concentrations ranged 440 – 500 mg/L, and at down-gradient well MW-15 Cl concentrations equaled 1,100 mg/L (Table 8). During 2013, Cl concentrations at down-gradient well MW-13 ranged 32-49 mg/L (Table 8). At down-gradient monitoring wells MW-6 and MW-13, chlorides have not measurably increased since May 2000. This data is very conflicting but does not reflect that our on-going site land application practices are unreasonably leaching Cl to the shallow South Field groundwater. In particular, this data does indicate that shallow site area groundwater on a localized basis does contain fairly high concentrations of Cl (likely due to natural soil/ groundwater conditions).

Overall, the above historical groundwater quality data does not reflect wide-spread groundwater contamination related to our past and/or current land application activities. Our process water represents a very valuable water and fertilizer source and not a source of pollution. We are confident that our new 158-acre farm site, double crops, and revised agronomic based fertilizer practices will only result in improving groundwater quality at our land application site moving forward.

Based on the above, we request that the Central Valley Regional Water Quality Control Board re-evaluate the need for a strict Annual Effluent EC Limit of 1,000 uhmos/cm for our land application site/ operations as well as consider all of our other comments.

We appreciate the opportunity to comment on the Tentative WDR and seek to work with you on our differences. Our only goal here is to do the right thing as needed/ necessary to protect our business and employees and preserve/ protect beneficial uses for current as well as future peoples of the state.

If you have any questions regarding our comments, please do not hesitate to contact me at (925) 944-7318 or at tim.ruby@delmonte.com.

Sincerely,

DEL MONTE FOODS, INC.

Timothy P. Ruby

Timothy P. Ruby
Environmental Water Manager

Encl: Tables 1-8
Site Groundwater Quality Trends Graphs
Attachments 1-3

cc: Ron Melot, Del Monte Director of Tomato Operations
Carolyn Pande, Plant #24 Environmental Manger
Ron Melkonian, Plant #24 Engineering Manager
Ron Pitts, Plant #24 Production Manager

TABLES
(TABLES #1 - #8)

Table 1. Process Water Conductivity and Salts

CY 2010
(419K Raw Tons; 2,043 GPD Peel Agent; Average Tomato Quality)

Month	Sample Day	EC uhmos/cm	TDS	VDS	NVDS	NVDS % of TDS
			------ mg/L ------			
Jan	6-Jan					
	13-Jan					
	20-Jan					
	27-Jan					
Feb	3-Feb					
	10-Feb	1,900	2,600			
	19-Feb					
	24-Feb					
Mar	3-Mar	4,000	3,000	1,300	1,700	57
	10-Mar					
	17-Mar	1,600	1,700	980	720	42
	24-Mar	2,100	2,400	1,400	1,000	42
Apr	7-Apr	1,800	2,700	2,000	700	26
	14-Apr					
	21-Apr	760	1,000	650	350	35
	28-Apr	420				
May	5-May	720	730	410	320	44
	12-May	1,900				
	21-May	750				
	26-May	540				
Jun	4-Jun					
	9-Jun	1,200	1,500	1,400	100	7
	16-Jun	490				
	23-Jun	490				
Jul	7-Jul					
	14-Jul	870	980	640	340	35
	21-Jul	1,000	1,100	670	430	39
	30-Jul	1,900	2,200	1,500	700	32
Aug	6-Aug	2,300	2,700	1,800	900	33
	11-Aug	2,300	2,700	1,800	900	43
	19-Aug		2,800	1,600	1,200	38
	20-Aug	2,400	2,600	1,600	1,000	44
	25-Aug	2,200	2,500	1,400	1,100	44
Sep	1-Sep	3,100	3,300	1,900	1,400	42
	8-Sep	2,000	1,900	1,100	800	42
	17-Sep	2,200	2,300	1,200	1,100	48
	22-Sep	1,700	2,220	1,400	820	37
Oct	1-Oct	2,400	2,800	1,500	1,300	46
	6-Oct	2,000	1,800	1,100	700	39
Nov						
	17-Nov	1,300	2,100	1,500	600	29
Dec						
	15-Dec	960	1,100	630	470	43
MIN		420	730	410	100	7
MAX		4,000	3,300	2,000	1,700	57
MEAN		**1,631**	2,114	1,282	811	39
STD DEV		857	726	446	388	10

CY 2011
(390.6K Raw Tons; 2,035 GPD Peel Agent; Poor Tomato Quality)

Month	Sample Day	EC uhmos/cm	TDS	VDS	NVDS	NVDS % of TDS
			------ mg/L ------			
Jan	5-Jan					
	12-Jan	2,800	6,100	4,400	1,700	28
	21-Jan					
	26-Jan					
Feb	4-Feb					
	9-Feb	940	860	520	340	40
	16-Feb					
	23-Feb					
Mar	2-Mar					
	11-Mar					
	18-Mar					
	23-Mar					
Apr	6-Apr					
	15-Apr					
	20-Apr	1,700	2,500	1,800	700	28
	27-Apr					
May	4-May					
	11-May	2,000	1,900	1,100	800	42
	18-May	890				
	25-May	1,000				
Jun	1-Jun					
	8-Jun					
	22-Jun	480	510	250	260	51
	29-Jun					
Jul	8-Jul					
	13-Jul	990	990	470	520	53
	20-Jul	1,900	2,500	1,400	1,100	44
	27-Jul	1,600	1,700	1,100	600	35
Aug	3-Aug	1,300	1,600	960	660	41
	10-Aug	1,400	1,700	960	740	44
	17-Aug	2,100	2,000	1,100	880	44
	24-Aug	2,300	2,400	1,400	1,100	46
	31-Aug	2,200	3,000	1,800	1,200	40
Sep	7-Sep	2,400	2,900	1,600	1,300	45
	14-Sep	2,600	3,000	1,900	1,100	37
	23-Sep	2,900	3,300	1,800	1,500	45
	28-Sep	3,800	4,200	1,800	2,400	57
Oct	5-Oct	3,800	5,000	2,000	3,000	60
	12-Oct	9,100				
	19-Oct	2,400				
	26-Oct	2,100				
Nov	4-Nov	570				
	9-Nov	450				
	16-Nov	2,000	4,600	3,600	1,000	22
Dec	2-Dec	680				
	7-Dec	420				
	14-Dec	1,500	2,000	1,300	700	35
MIN		420	510	250	260	22
MAX		9,100	6,100	4,400	3,000	60
MEAN		**2,011**	2,638	1,563	1,080	42
STD DEV		1,646	1,439	979	670	10

CY 2012
(376.2K Raw Tons; 1,445 GPD Peel Agent; Average Tomato Quality)

Month	Sample Day	EC uhmos/cm	TDS	VDS	NVDS	NVDS % of TDS
			------ mg/L ------			
Jan	4-Jan	390				
	11-Jan	6,600				
	20-Jan	610				
	27-Jan	1,100	1,000	490	510	51
Feb	3-Feb	460				
	8-Feb	490				
	22-Feb	410				
	29-Feb	530				
Mar	14-Mar	400				
	21-Mar	810	760	370	390	51
	28-Mar	620				
Apr	4-Apr	520				
	11-Apr	980	920	500	420	46
	18-Apr	2,200	5,100	4,200	900	18
	27-Apr	440				
May	2-May	980	1,200	770	430	36
	9-May	380				
	16-May	640	610	380	230	38
	25-May	840	1,100	760	340	31
	30-May	920				
Jun	6-Jun	610				
	13-Jun	360				
	20-Jun	640				
	27-Jun	490				
Jul	6-Jul	580				
	11-Jul	3,100	3,300	1,900	1,400	42
	18-Jul	1,700	2,100	1,300	830	40
	25-Jul	2,400	3,100	2,000	1,100	35
Aug	1-Aug	2,000	2,000	1,200	800	40
	8-Aug	2,600	4,700	3,600	1,100	23
	15-Aug	1,800	2,000	1,200	800	40
	22-Aug	1,500	1,800	1,100	700	39
	31-Aug	2,200	2,900	1,900	1,000	34
Sep	5-Sep	3,000	3,100	1,800	1,300	42
	14-Sep	1,500	1,700	1,100	600	35
	21-Sep	2,800	3,400	1,200	2,200	65
	26-Sep	1,400	2,000	1,400	600	30
Oct	5-Oct	2,200				
	10-Oct	420				
	17-Oct	420				
	26-Oct	970				
	31-Oct	440				
Nov	7-Nov	2,300				
	14-Nov	890				
	20-Nov	470				
	28-Nov	1,800				
Dec	7-Dec	530				
	12-Dec	620				
	18-Dec	750				
MIN		360	610	370	230	18
MAX		6,600	5,100	4,200	2,200	65
MEAN		**1,241**	2,252	1,430	824	39
STD DEV		1,120	1,287	1,015	468	10

CY 2013
(350K Raw Tons; 1,439 GPD Peel Agent; Good Tomato Quality)

Month	Sample Day	EC uhmos/cm	TDS	VDS	NVDS	NVDS % of TDS
			------ mg/L ------			
Jan	9-Jan	740				
	18-Jan	550				
	23-Jan	540	750	590	160	21
	30-Jan	460				
Feb	6-Feb	500				
	13-Feb	560	460	200	260	57
	20-Feb	350				
	27-Feb	480				
Mar	6-Mar	370				
	13-Mar	4,300	7,800	5,600	2,200	28
	20-Mar	1,000	1,500	1,100	400	27
	27-Mar	440				
Apr	5-Apr	1,400	2,100	1,500	600	29
	10-Apr	430				
	17-Apr	450				
	24-Apr	490				
May	1-May	520	440	290	150	34
	8-May	840	920	600	320	35
	15-May	500	320	50	270	84
	22-May	1,300	2,000	1,200	800	40
	29-May	480				
Jun	5-Jun	330				
	12-Jun	720	1,800	1,500	300	17
	21-Jun	620				
	28-Jun	360				
Jul	3-Jul	410				
	10-Jul	2,200	3,100	2,300	800	26
	17-Jul	2,100	2,900	2,200	700	24
	24-Jul	2,300	2,800	1,800	1,000	36
	31-Jul	1,400	1,800	1,100	700	39
Aug	7-Aug	1,300	1,500	840	660	44
	16-Aug	1,500	2,100	1,500	600	29
	21-Aug	1,700	2,100	1,400	700	33
	28-Aug	1,400	1,700	1,200	500	29
Sep	4-Sep	1,600	1,900	1,100	800	42
	11-Sep	1,700	2,000	1,400	600	30
	20-Sep	810	950	600	350	37
	25-Sep	1,600	1,800	1,200	600	33
Oct	2-Oct	1,400				
	9-Oct	290				
	16-Oct	310				
	16-Oct	460				
Nov	1-Nov	490				
	6-Nov	490				
	13-Nov	1,100	2,900	2,500	400	14
	20-Nov	740				
Dec	4-Dec	940				
	11-Dec	1,100	1,900	1,100	800	42
	18-Dec	800	860	540	320	37
MIN		290	320	50	150	14
MAX		4,300	7,800	5,600	2,200	84
MEAN		**957**	1,936	1,336	600	35
STD DEV		730	1,451	1,087	405	14

Summary Statistics for 2010 - 2013

Years 2010 - 2013	EC uhmos/cm	TDS	VDS	NVDS	NVDS % of TDS
		------ mg/L ------			
MIN	290	320	50	100	7
MAX	9,100	7,800	5,600	3,000	84
MEAN	**1,367**	2,212	1,394	815	38
STD DEV	1,151	1,257	905	509	11

Summary Statistics for 2010 - 2011

Years 2010 - 2011	EC uhmos/cm	TDS	VDS	NVDS	NVDS % of TDS
		------ mg/L ------			
MIN	420	510	250	100	7
MAX	9,100	6,100	4,400	3,000	60
MEAN	**1,821**	2,352	1,413	936	40
STD DEV	1,315	1,125	747	548	10

NOTES:
uhmos/cm = Micromhos per Centimeter
mg/L = Milligrams per Liter (Parts per Million)
EC = Electrical Conductivity; TDS = Total Dissolved Solids; VDS = Volatile Dissolved Solids; and NVDS = Non-Volatile Dissolved Solids.
MIN = Minimum (Lowest Data Point)
MAX = Maximum (Highest Data Point)
MEAN = Arithmetic Mean (Central Tendency or Value Near Middle of Data Set)
STD DEV= Standard Deviation (Average Amount Data Deviates from the Mean)
GPD = Gallons per Day

Table2. Historical and Design/ Permit Process Wastewater Flows and Quality on a Concentration and Mass Basis

CY 2010

(Raw Tons Process = 419K Tons; Mean Peeling Agent Use = 2,043 GPD; and Tomato Quality = Average)

Month	Flow				Total N		P		K		Fixed Salts		BOD	
	Mean	Max	Total	Total	Mean	Total	Mean	Total	Mean	Total	Mean*	Total	Mean	Total
	--MGD--		MG	Ac-Ft	mg/L	lbs	mg/L	lbs	mg/L	lbs	mg/L	lbs	mg/L	lbs
Jan	0.0989	0.5155	2.3729	7.2822	120	2,375							6	119
Feb	0.1611	0.5635	4.5113	13.8447	120	4,515							965	36,307
Mar	0.2594	0.5925	6.2260	19.1070	111	5,764							2,216	115,065
Apr	0.1406	0.4756	3.5147	10.7863	75	2,198							1,402	41,096
May	0.1999	0.3820	5.9956	18.3999	22	1,100							1,545	77,255
Jun	0.1178	0.2909	3.5326	10.8412	82	2,416					100		950	27,989
Jul	1.5251	2.6708	45.7535	140.4129	73	27,856	17	6,487	510	194,608	490	186,976	1,700	648,694
Aug	2.8723	3.5009	89.0405	273.2561	94	69,804	21	15,817	613	455,212	1,020	757,450	2,560	1,901,050
Sep	2.6900	3.0708	80.6996	247.6587	97	65,284	19	12,990	555	373,534	1,030	693,226	2,350	1,581,631
Oct	0.7839	2.5457	24.3003	74.5751	100	20,266	19	3,749	550	111,465	1,000	202,665	2,500	506,661
Nov	0.2042	0.5865	3.2667	10.0252	37	1,008	6	150	60	1,635	600	16,347	970	26,427
Dec	0.1718	0.5605	3.4369	10.5475	36	1,032							298	8,542
TOTALS			272.6506	836.7366		203,618		39,193		1,136,455		1,856,663		4,970,837
LIMITS (Jun. - Oct.)	3.5	4.5												
LIMITS (Nov. - May)	0.5													
MEAN (Jun. - Oct.)	1.5978				89		19		557		728		2,012	
MEAN (Nov. -May)	0.1766				74		6		60		600		970	
MEAN lbs/Ac-Ft (Jun. - Oct)					242		52		1,514		1,978		5,468	
MEAN lbs/Ac-Ft (Nov. - May)					201		16		163		1,631		2,636	
MEAN lbs/MG (Jun. - Oct)					742		158		4,645		6,072		16,780	
MEAN lbs/MG (Nov. - May)					617		50		500		5,004		8,090	

CY 2011

(Raw Tons Process = 390.6K Tons; Mean Peeling Agent Use = 2,035 GPD; and Tomato Quality = Poor)

Month	Flow				Total N		P		K		Fixed Salts		BOD	
	Mean	Max	Total	Total	Mean	Total	Mean	Total	Mean	Total	Mean	Total	Mean	Total
	--MGD--		MG	Ac-Ft	mg/L	lbs	mg/L	lbs	mg/L	lbs	mg/L	lbs	mg/L	lbs
Jan	0.1112	0.3428	2.5566	7.8459	40.2	857	12.0	256	160	3,412	1,700	36,247	1,833	39,083
Feb	0.0434	0.2239	1.2146	3.7275	13.1	133	4.4	45	36	365	340	3,444	461	4,670
Mar	0.0956	1.0532	2.1986	6.7473	7.7	141	4.4	81	36	660	340	6,234	486	8,911
Apr	0.0758	0.4057	2.1221	6.5125	24.6	435	11.0	195	59	1,044	700	12,389	2,620	46,370
May	0.3217	1.5570	7.0763	21.7164	53.0	3,128	15.0	885	160	9,443	800	47,213	1,403	82,800
Jun	0.1183	0.4047	3.5503	10.8955	2.1	62	1.4	41	3	86	260	7,698	63	1,865
Jul	1.8693	3.0126	48.6014	149.1527	82.5	33,440	15.1	6,121	242	98,091	740	299,948	1,833	742,980
Aug	2.8916	3.5782	89.6388	275.0922	97.2	72,666	15.8	11,812	498	372,299	916	684,790	2,260	1,689,548
Sep	2.8801	3.4951	86.4024	265.1600	132.6	95,551	19.8	14,268	783	564,227	1,575	1,134,939	2,550	1,837,520
Oct	1.2507	3.0274	16.2586	49.8960	66.8	9,058	22.0	2,983	1,300	176,276	3,000	406,790	1,175	159,326
Nov	0.1758	0.4954	3.9553	12.1384	45.2	1,491	16.0	528	170	5,608	1,000	32,987	1,982	65,381
Dec	0.0862	0.5169	2.4989	7.6689	34.2	713	13.0	271	2	42	700	14,589	1,541	32,116
TOTALS			266.0739	816.5533		217,675		37,485		1,231,551		2,687,270		4,710,570
LIMITS (Jun. - Oct.)	3.5	4.5												
LIMITS (Nov. - May)	0.5													
MEAN (Jun. - Oct.)	1.8020				76		15		565		1,298		1,576	
MEAN (Nov. -May)	0.1300				31		11		89		797		1,475	
MEAN lbs/Ac-Ft (Jun. - Oct)					207		41		1,535		3,527		4,283	
MEAN lbs/Ac-Ft (Nov. - May)					84		30		242		2,166		4,008	
MEAN lbs/MG (Jun. - Oct)					634		125		4,712		10,825		13,144	
MEAN lbs/MG (Nov. - May)					259		92		742		6,647		12,302	

CY 2012

(Raw Tons Process = 376.2K Tons; Mean Peeling Agent Use = 1,445 GPD; and Tomato Quality = Average)

Month	Flow				Total N		P		K		Fixed Salts		BOD	
	Mean	Max	Total	Total	Mean	Total	Mean*	Total	Mean*	Total	Mean*	Total	Mean	Total
	--MGD--		MG	Ac-Ft	mg/L	lbs	mg/L	lbs	mg/L	lbs	mg/L	lbs	mg/L	lbs
Jan	0.2611	0.7783	5.2218	16.0252	7.2	314	6	253	22	958	510	22,210	337	14,676
Feb	0.0613	0.3077	1.7790	5.4596	4.7	70	7	105	51	757	460	6,825	634	9,407
Mar	0.0900	0.7242	2.4300	7.4574	11.2	227	5	109	26	527	390	7,904	1,880	38,100
Apr	0.1436	0.4809	4.1646	12.7807	32.7	1,136	11	372	87	3,022	660	22,924	1,583	54,982
May	0.2134	0.5358	6.6165	20.3054	32.6	1,799	6	315	45	2,483	333	18,375	1,350	74,495
Jun	0.1618	0.5818	4.8545	14.8980	2.4	97	21	854	566	22,915	1,036	41,944	42	1,700
Jul	1.9445	2.8556	58.3342	179.0216	70.2	34,153	19	9,244	878	427,153	1,110	540,023	1,690	822,197
Aug	2.3796	2.7513	73.7664	226.3815	149.3	91,851	24	14,765	532	327,293	880	541,386	2,600	1,599,551
Sep	2.3040	2.8647	69.1209	212.1249	114.4	65,948	19	10,665	548	315,905	1,175	677,350	1,950	1,124,113
Oct	0.1418	0.8245	3.6879	11.3178	8.0	246	21	649	566	17,409	1,036	31,864	207	6,367
Nov	0.0822	0.3071	1.9732	6.0555	9.4	155	7	117	51	839	460	7,570	186	3,061
Dec	0.1266	0.5455	3.9250	12.0454	4.8	157	7	232.415	51	1,669	460	15,058	46	1,506
TOTALS			235.8740	723.8729		196,152		37,679		1,120,930		1,933,434		3,750,155
LIMITS (Jun. - Oct.)	3.5	4.5												
LIMITS (Nov. - May)	0.5													
MEAN (Jun. - Oct.)	1.3863				69		21		618		1,047		1,298	
MEAN (Nov. -May)	0.1397				15		7		48		468		859	
MEAN lbs/Ac-Ft (Jun. - Oct)					188		57		1,679		2,845		3,527	
MEAN lbs/Ac-Ft (Nov. - May)					41		19		130		1,272		2,334	
MEAN lbs/MG (Jun. - Oct)					575		175		5,154		8,732		10,825	
MEAN lbs/MG (Nov. - May)					125		58		400		3,903		7,164	

*P, K, and Fixed Salts data for Feb, Jun, Oct, Nov, and Dec estimated since this testing was not completed during these months.

CY 2013

(Raw Tons Process = 350K Tons; Mean Peeling Agent Use = 1,439 GPD; and Tomato Quality = Good)

Month	Flow				Total N		P		K		Fixed Salts		BOD	
	Mean	Max	Total	Total	Mean	Total	Mean*	Total	Mean*	Total	Mean*	Total	Mean	Total
	--MGD--		MG	Ac-Ft	mg/L	lbs	mg/L	lbs	mg/L	lbs	mg/L	lbs	mg/L	lbs
Jan	0.0642	0.3527	1.9914	6.1114	6.4	106	3.1	51	33	548	160	2,657	48	797
Feb	0.1084	0.3876	2.0591	6.3192	4.5	77	2.2	38	14	240	260	4,465	517	8,878
Mar	0.1027	0.2778	2.8751	8.8234	26.7	640	16.5	396	165	3,956	1,300	31,172	1,259	30,189
Apr	0.0908	0.4189	2.7244	8.3609	25.4	577	11.0	250	140	3,181	600	13,633	196	4,453
May	0.1925	0.4037	5.9686	18.3170	13.9	692	4.0	199	33	1,643	385	19,165	181	9,010
Jun	0.2751	0.6592	7.9781	24.4840	8.6	572	5.0	333	48	3,194	300	19,961	198	13,174
Jul	1.8832	2.8508	58.3777	179.1551	95.5	46,496	20.0	9,737	550	267,779	800	389,496	940	457,658
Aug	2.2330	2.6616	69.2243	212.4422	67.3	38,854	13.8	7,967	365	210,726	615	355,058	1,650	952,596
Sep	2.4278	2.9810	72.8327	223.5160	77.8	47,258	12.3	7,471	297	180,405	588	357,166	1,725	1,047,808
Oct	0.0975	0.2528	3.0228	9.2767	13.4	338	12.3	310	297	7,487	588	14,824	262	6,605
Nov	0.0683	0.4146	1.9821	6.0829	11.7	193	6.1	101	120	1,984	400	6,612	754	12,464
Dec	0.1078	0.3535	3.3420	10.2563	25.6	714	6.3	176	77	2,146	560	15,608	980	27,315
TOTALS			232.3783	713.1450		136,518		27,029		683,289		1,229,817		2,570,947
LIMITS (Jun. - Oct.)	3.5	4.5												
LIMITS (Nov. - May)	0.5													
MEAN (Jun. - Oct.)	1.3833				53		13		311		578		955	
MEAN (Nov. -May)	0.1050				16		7		83		524		562	
MEAN lbs/Ac-Ft (Jun. - Oct)					144		35		845		1,571		2,595	
MEAN lbs/Ac-Ft (Nov. - May)					43		19		226		1,424		1,527	
MEAN lbs/MG (Jun. - Oct)					442		108		2,594		4,821		7,965	
MEAN lbs/MG (Nov. - May)					133		58		692		4,370		4,687	

NOTES:

Total N = Total Nitrogen (Nitrate plus Total Kjeldahl Nitrogen); P = Total Phosphorus; K = Potassium; Fixed Salts = Total Dissolved Solids minus Volatile Dissolved Solids; and BOD = Biochemical Oxygen Demand.

Blank Cells = No Data
MGD = Million Gallons/Day
MG = Million Gallons

mg/L = parts per million
lbs = pounds
Ac-Ft = acre feet

One Ac-Ft of Water = 325,850 Gallons
Mean = Arithmetic Mean (Central Tendency or Value Near Middle of Data Set)
Limits = Current Site Order Discharge Limits

Table2. Historical and Design/ Permit Process Wastewater Flows and Quality on a Concentration and Mass Basis

Design Process Water Quality (Average Flow/Quality 2010-2011)
(High/ Moderate Production and Worst Case Poor/Fair Tomatoes Assumed)

Month	Flow				Total N		P		K		Fixed Salts		BOD	
	Mean	Max	Total	Total	Mean	Total	Mean	Total	Mean	Total	Mean	Total	Mean	Total
	--MGD--		MG	Ac-Ft	mg/L	lbs	mg/L	lbs	mg/L	lbs	mg/L	lbs	mg/L	lbs
Jan	0.1050	0.42915	2.4648	7.5641	40	822	12	247	160	3,289	1,700	34,945	1,378	28,326
Feb	0.1023	0.3937	2.8630	8.7861	49	1,170	4	96	36	860	340	8,118	713	17,024
Mar	0.1775	0.82285	4.2123	12.9271	69	2,424	4	141	36	1,265	1,140	40,049	1,447	50,834
Apr	0.1082	0.44065	2.8184	8.6494	51	1,199	11	259	59	1,387	583	13,704	1,909	44,872
May	0.2608	0.9695	6.5360	20.0582	45	2,453	15	818	160	8,722	560	30,526	1,474	80,347
Jun	0.1180	0.3478	3.5415	10.8683	43	1,270	1	30	3	89	180	5,316	507	14,975
Jul	1.6972	2.8417	47.1775	144.7828	78	30,690	16	6,295	310	121,973	615	241,978	1,767	695,244
Aug	2.8819	3.53955	89.3397	274.1742	95	70,784	18	13,412	549	409,056	968	721,250	2,410	1,795,673
Sep	2.7850	3.28295	83.5510	256.4094	115	80,134	21	14,633	669	466,169	1,303	907,950	2,450	1,707,198
Oct	1.0173	2.78655	20.2795	62.2355	78	13,192	22	3,721	800	135,304	1,667	281,941	1,617	273,484
Nov	0.1900	0.54095	3.6110	11.0818	43	1,295	11	331	115	3,463	800	24,093	2,212	66,616
Dec	0.1290	0.5387	2.9679	9.1082	67	1,658	13	321.7797	2	50	585	14,480	920	22,772
TOTALS			269.3623	826.6450		207,091		40,303		1,151,626		2,324,349		4,797,366
LIMITS (Jun. - Oct.)	3.5	4.5												
LIMITS (Nov. - May)	0.5													
MEAN (Jun. - Oct.)	1.6999				82		16		466		947		1,750	
MEAN (Nov. -May)	0.1533				52		10		81		815		1,436	
	MEAN lbs/Ac-Ft (Jun. - Oct)				223		43		1,266		2,574		4,756	
	MEAN lbs/Ac-Ft (Nov. - May)				141		27		220		2,215		3,902	
	MEAN lbs/MG (Jun. - Oct)				684		133		3,886		7,898		14,595	
	MEAN lbs/MG (Nov. - May)				434		83		676		6,797		11,976	

NOTES:
Total N = Total Nitrogen (Nitrate plus Total Kjeldahl Nitrogen); P = Total Phosphorus; K = Potassium; Fixed Salts = Total Dissolved Solids minus Volatile Dissolved Solids; and BOD = Biochemical Oxygen Demand.

Blank Cells = No Data
MGD = Million Gallons/Day
MG = Million Gallons
mg/L = parts per million
lbs = pounds
Ac-Ft = acre feet
One Ac-Ft of Water = 325,850 Gallons
Mean = Arithmetic Mean (Central Tendency or Value Near Middle of Data Set)
Limits = Current Site Order Discharge Limits

Table 3. Process Water Salt Profile (Based on Yearly Average Salt Concentrations)

Salt Profile for 2010 (Major Measured Salts)

Total Fixed	F	HCO_3	Ca	Mg	Na	K	SO_4	P	NO_3-N	Al	As	Fe	Mn	Cl	Others
------ mg/L ------															
811	0.76	210	30	15	140	528	73	19	0.59	8	0.049	12	0.38	157	
------ *% of Fixed Salts* ------															
100	0.1	25.9	3.7	1.8	17.3	**65.1**	9.0	2.3	0.07	1.0	0.006	1.5	0.05	19.36	-47.2

Salt Profile for 2011 (Major Measured Salts)

Total Fixed	F	HCO_3	Ca	Mg	Na	K	SO_4	P	NO_3-N	Al	As	Fe	Mn	Cl	Others
------ mg/L ------															
1,080	1	360	30	13	174	434	33	15	0.25	16	0.054	22	0.48	**184**	
------ *% of Fixed Salts* ------															
100	0.1	33.3	2.8	1.2	16.1	**40.2**	3.1	1.4	0.02	1.5	0.005	2.0	0.04	17.04	-18.8

Salt Profile for 2012 (Major Measured Salts)

Total Fixed	F	HCO_3	Ca	Mg	Na	K	SO_4	P	NO_3-N	Al	As	Fe	Mn	Cl	Others
------ mg/L ------															
824	1.02	145	21	15	146	376	33	16	0.29	17	0.051	25	1	150	
------ *% of Fixed Salts* ------															
100	0.1	17.6	2.5	1.8	17.7	**45.6**	4.0	1.9	0.04	2.1	0.006	3.0	0.12	18.20	-14.8

Salt Profile for 2013 (Major Measured Salts)

Total Fixed	F	HCO_3	Ca	Mg	Na	K	SO_4	P	NO_3-N	Al	As	Fe	Mn	Cl	Others
------ mg/L ------															
600	1	196	16	11	157	229	77	11	0.3	10	0.064	16	0.4	160	
------ *% of Fixed Salts* ------															
100	0.2	32.7	2.7	1.8	26.2	**38.2**	12.8	1.8	0.05	1.7	0.011	2.7	0.07	26.67	-47.5

Basin Plan Discharge to Good GW Quality Waters Cl Limit = 175 mg/L

NOTES:

Total Fixed = Total Dissolved Solids minus Volatile Dissolved Solids; Cl = Chloride; HCO_3 = Bicarbonate; Ca = Calcium; Mg = Magnesium; Na = Sodium; K = Potassium; SO_4 = Sulfate; P = Total Phosphorus; NO_3-N = Nitrate-Nitrogen; Al = Aluminum; As = Arsenic; Fe = Iron; Mn = Manganese; and F = Fluoride.

Table 4. Projected Process Water Quality (High/Moderate Production and Worst Case Poor/Fair Tomato Quality)[1]

Off-Season Process Water (Nov. - May) Average Quality																							
Month	EC	BOD5	NO_3-N	TKN	Total-N	TDS	VDS	NVDS	Al	As	HCO_3	Ca	CO_3	Cl	F	Fe	Mg	Mn	Na	K	SiO_2	SO_4	Total-P
	uhmos/cm	------ mg/L ------																					
Jan	2,800	1,378	0.22	40	40	6,100	4,400	1,700	0.82	0.0095	<3	7	<2	650	0.9	2.5	8	0.1	490	160	31	29	12
Feb	1,420	713	0.13	49	49	1,730	520	340	0.82	0.0095	<3	11	<2	120	0.9	2.5	2	0.1	190	36	31	29	4
Mar	2,567	1,447	0.24	69	69	2,367	1,227	1,140	0.82	0.0095	<3	9	<2	468	0.9	2.5	6	0.1	380	36	31	29	4
Apr	1,170	1,909	1.36	50	51	2,067	1,483	583	0.82	0.0095	<3	12	<2	250	0.9	2.5	5	0.1	300	59	31	29	11
May	1,114	1,474	0.32	45	45	1,315	755	560	0.82	0.0095	<3	10	<2	360	0.9	2.5	7	0.1	330	160	31	29	15
Nov	1,080	2,212	0.22	43	43	3,350	2,550	800	0.82	0.0095	<3	19	<2	360	0.9	2.5	7	0.1	285	115	31	29	11
Dec	890	920	0.19	67	67	1,550	965	585	0.82	0.0095	<3	210	<2	220	0.9	2.5	12	0.1	410	2	31	29	13
MEAN	**1,577**	**1,436**	**0.38**	**52**	**52**	**2,640**	**1,700**	**815**	**0.82**	**0.028**	**<3**	**39.7**	**<2**	**347**	**0.9**	**2.5**	**7**	**0.1**	**341**	**81**	**31**	**29**	**10**

Fresh Pack Season Process Water (Jun. - Oct.) Average Quality																							
Month	EC	BOD5	NO_3-N	TKN	Total-N	TDS	VDS	NVDS	Al	As	HCO_3	Ca	CO_3	Cl	F	Fe	Mg	Mn	Na	K	SiO_2	SO_4	Total-P
	uhmos/cm	------ mg/L ------																					
Jun	665	507	1.22	42	43	1,005	825	180	12	0.06	270	2	<2	19	0.7	20	1	0.6	110	3	98	35	1
Jul	1,377	1,767	0.18	78	78	1,578	963	615	12	0.06	270	25	<2	89	0.7	20	12	0.6	81	310	98	35	16
Aug	2,056	2,410	0.36	96	95	2,400	1,442	968	12	0.07	150	31	<2	119	0.9	17	17	0.4	117	549	96	30	18
Sep	2,588	2,450	0.24	115	115	2,888	1,588	1,303	16	0.08	360	27	<2	163	1.2	23	16	0.5	121	669	110	43	21
Oct	3,633	1,617	0.38	78	78	3,200	1,533	1,667	16	0.08	360	30	<2	163	1.2	23	16	0.5	130	800	110	37	22
MEAN	**2,064**	**1,750**	**0.48**	**82**	**82**	**2,214**	**1,270**	**947**	**13.6**	**0.07**	**282**	**23**	**<2**	**111**	**0.9**	**21**	**12**	**0.5**	**112**	**466**	**102**	**36**	**16**

Yearly (Jan. - Dec.) Average Quality																							
Year 2013	EC	BOD5	NO_3-N	TKN	Total-N	TDS	VDS	NVDS	Al	As	HCO_3	Ca	CO_3	Cl	F	Fe	Mg	Mn	Na	K	SiO_2	SO_4	Total-P
	uhmos/cm	------ mg/L ------																					
MEAN	**1,821**	**1,573**	**0.38**	**74**	**74**	**2,352**	**1,413**	**936**	**11.00**	**0.051**	**260**	**30**	**<2**	**174**	**0.9**	**16**	**13**	**0.4**	**162**	**470**	**77**	**34**	**16**

NOTES:

"Blank Cells" = no data

"uhmos/cm" = micromhos per centimeter

"mg/L" = milligrams per liter (parts per million)

EC = electrical conductivity; NO_3-N = nitrate-nitrogen; BOD5 = Five day, 20° Celsius biochemical oxygen demand; TKN = total Kjeldahl nitrogen; Total-N = total nitrogen; TDS = total dissolved solids; VDS = volatile dissolved solids; NVDS = non-volatile dissolved solids; Al = aluminum; As = arsenic; HCO_3 = bicarbonate; Ca = calcium; CO_3 = carbonate; Cl = chloride; F = fluoride; Fe = iron; Mg = magnesium; Mn = manganese; Na = sodium; K = potassium; SiO_2 = silicon dioxide; SO_4 = sulfate; and Total-P = total phosphorus.

[1] Twenty-four (24) hour composite samples collected at plant pumping station during 2010 - 2011 (high/moderate production and worst case poor/fair tomato quality).

Table 5. Projected/ Simulated Hydraulic, Nitrogen, Salts, BOD, and K Loadings at Land Application Site (High/Moderate Production and Worst Case Poor/Fair Tomato Quality)

Month	Field 15 (15 Acres)											
	Crop	Loading	Fertilizer	WW Quality				Total Field Loadings				
		WW	N	N	Fixed Salts	BOD	K	WW Nitrogen	Total Nitrogen	Fixed Salts	K	BOD
		ac-ft	lbs/ac	----- mg/L -----				----- lbs/ac ----				lb/ac/day
Jan	Alfalfa											
Feb	Alfalfa											
Mar	Alfalfa											
Apr	Alfalfa	1.08		51	583	1,909	59	9.98	9.98	114	12	12
May	Alfalfa	1.82		45	560	1,474	160	14.84	14.84	185	53	16
Jun	Alfalfa	1.36		43	180	507	3	10.59	10.59	44	1	4
Jul	Alfalfa	2.92		78	615	1,767	310	41.26	41.26	325	164	31
Aug	Alfalfa	2.58		95	968	2,410	549	44.41	44.41	452	257	38
Sep	Alfalfa	2.71		115	1,303	2,450	669	56.46	56.46	640	328	40
Oct	Alfalfa	1.50		78	1,667	1,617	800	21.20	21.20	453	217	15
Nov	Alfalfa											
Dec	Alfalfa											
TOTAL		13.97	0	--	--	--	--	199	199	2,214	1,032	--

Month	Field 16E (78.5 Acres)											
	Crop	Loading	Fertilizer	WW Quality				Total Field Loadings				
		WW	N	N	Fixed Salts	BOD	K	WW Nitrogen	Total Nitrogen	Fixed Salts	K	BOD
		ac-ft	lbs/ac	----- mg/L -----				----- lbs/ac ----				lb/ac/day
Jan	Wheat											
Feb	Wheat	2.20	30	49	340	713	36	3.73	33.73	26	3	2
Mar	Wheat	2.59		69	1,140	1,447	36	6.19	6.19	102	3	4
Apr	Wheat	1.08		51	583	1,909	59	1.91	1.91	22	2	2
May		1.82		45	560	1,474	160	2.84	2.84	35	10	3
Jun	Sorghum	1.36		43	180	507	3	2.02	2.02	8	0.1	1
Jul	Sorghum	12.89		78	615	1,767	310	34.81	34.81	274	138	26
Aug	Sorghum	20.88		95	968	2,410	549	68.67	68.67	700	397	58
Sep	Sorghum	19.52		115	1,303	2,450	669	77.71	77.71	881	452	55
Oct		4.67		78	1,667	1,617	800	12.61	12.61	270	129	9
Nov	Wheat											
Dec	Wheat											
TOTAL		67.01	30	--	--	--	--	210	240	2,318	1,135	--

Month	Field 16W (78.5 Acres)											
	Crop	Loading	Fertilizer	WW Quality				Total Field Loadings				
		WW	N	N	Fixed Salts	BOD	K	WW Nitrogen	Total Nitrogen	Fixed Salts	K	BOD
		ac-ft	lbs/ac	----- mg/L -----				----- lbs/ac ----				lb/ac/day
Jan												
Feb		2.20		49	340	713	36	3.73	3.73	26	3	2
Mar		2.59	30	69	1,140	1,447	36	6.19	36.19	102	3	5
Apr	Sorghum											
May	Sorghum	1.82		45	560	1,474	160	2.84	2.84	35	10	3
Jun	Sorghum	1.36		43	180	507	3	2.02	2.02	8	0.1	1
Jul	Sorghum	8.89		78	615	1,767	310	24.01	24.01	189	95	18
Aug	Sorghum	16.88		95	968	2,410	549	55.51	55.51	566	321	47
Sep	Sorghum	15.52		115	1,303	2,450	669	61.79	61.79	700	359	44
Oct	Sorghum	4.67		78	1,667	1,617	800	12.61	12.61	270	129	9
Nov	Sorghum											
Dec												
TOTAL		53.93	30	--	--	--	--	169	199	1,896	921	--

Month	Field 17N (80 Acres)											
	Crop	Loading	Fertilizer	WW Quality				Total Field Loadings				
		WW	N	N	Fixed Salts	BOD	K	WW Nitrogen	Total Nitrogen	Fixed Salts	K	BOD
		ac-ft	lbs/ac	----- mg/L -----				----- lbs/ac ----				lb/ac/day
Jan	Wheat	3.78		40	1,700	1,378	160	5.14	5.14	218	21	6
Feb	Wheat	2.18		49	340	713	36	3.63	3.63	25	3	2
Mar	Wheat	2.59		69	1,140	1,447	36	6.07	6.07	100	3	4
Apr	Sorghum											
May	Sorghum	1.82		45	560	1,474	160	2.78	2.78	35	10	3
Jun	Sorghum	1.36		43	180	507	3	1.99	1.99	8	0.1	1
Jul	Sorghum	12.89		78	615	1,767	310	34.15	34.15	269	136	26
Aug	Sorghum	20.88		95	968	2,410	549	67.38	67.38	687	389	57
Sep		19.52		115	1,303	2,450	669	76.26	76.26	864	444	54
Oct		4.67		78	1,667	1,617	800	12.37	12.37	264	127	9
Nov	Wheat		30						30.00			
Dec	Wheat											
TOTAL		69.69	30	--	--	--	--	210	240	2,471	1,132	--

Month	Field 17S (80 Acres)											
	Crop	Loading	Fertilizer	WW Quality				Total Field Loadings				
		WW	N	N	Fixed Salts	BOD	K	WW Nitrogen	Total Nitrogen	Fixed Salts	K	BOD
		ac-ft	lbs/ac	----- mg/L -----				----- lbs/ac ----				lb/ac/day
Jan	Wheat	3.78	30	40	1,700	1,378	160	5.14	35.14	218	21	6
Feb	Wheat	2.20		49	340	713	36	3.66	3.66	25	3	2
Mar	Wheat						36					
Apr	Wheat											
May	Sorghum	1.82		45	560	1,474	160	2.78	2.78	35	10	3
Jun	Sorghum	1.36		43	180	507	3	1.99	1.99	8	0	1
Jul	Sorghum	12.89		78	615	1,767	310	34.15	34.15	269	136	26
Aug	Sorghum	20.88		95	968	2,410	549	67.38	67.38	687	389	57
Sep	Sorghum	19.52		115	1,303	2,450	669	76.26	76.26	864	444	54
Oct		4.67		78	1,667	1,617	800	12.37	12.37	264	127	9
Nov												
Dec												
TOTAL		67.12	30	--	--	--	--	204	234	2,371	1,129	--

Month	Field 22E (75 Acres)											
	Crop	Loading	Fertilizer	WW Quality				Total Field Loadings				
		WW	N	N	Fixed Salts	BOD	K	WW Nitrogen	Total Nitrogen	Fixed Salts	K	BOD
		ac-ft	lbs/ac	----- mg/L -----				----- lbs/ac ----				lb/ac/day
Jan												
Feb												
Mar												
Apr	Sorghum	1.08		51	583	1,909	59	2.00	2.00	23	2	2
May	Sorghum	1.82		45	560	1,474	160	2.97	2.97	37	11	3
Jun	Sorghum		30						30.00			
Jul	Sorghum	6.89		78	615	1,767	3	19.47	19.47	154	1	15
Aug	Sorghum	16.88		95	968	2,410	310	58.11	58.11	592	190	49
Sep		15.52		115	1,303	2,450	549	64.67	64.67	733	309	46
Oct		4.67		78	1,667	1,617	669	13.20	13.20	282	113	9
Nov												
Dec												
TOTAL		46.86	30	--	--	--	--	160	190	1,820	625	--

Table 5. Projected/ Simulated Hydraulic, Nitrogen, Salts, BOD, and K Loadings at Land Application Site (High/Moderate Production and Worst Case Poor/Fair Tomato Quality)

Month	Field 22W (75 Acres)											
	Crop	Loading	Fertilizer	WW Quality				Total Field Loadings				
		WW	N	N	Fixed Salts	BOD	K	WW Nitrogen	Total Nitrogen	Fixed Salts	K	BOD
		ac-ft	lbs/ac	----- mg/L -----				----- lbs/ac ----				lb/ac/day
Jan	Wheat											
Feb	Wheat											
Mar	Wheat		30						30.00			
Apr	Wheat	1.08		51	583	1,909	59	2.00	2.00	23	2	2
May	Wheat	1.82		45	560	1,474	160	2.97	2.97	37	11	3
Jun	Wheat											
Jul		10.89		78	615	1,767	310	30.78	30.78	243	122	23
Aug	Sorghum	20.88		95	968	2,410	549	71.87	71.87	732	415	61
Sep	Sorghum	19.52		115	1,303	2,450	669	81.34	81.34	922	473	58
Oct	Sorghum	4.67		78	1,667	1,617	800	13.20	13.20	282	135	9
Nov												
Dec												
TOTAL		58.86	30	--	--	--	--	202	232	2,238	1,159	--

Month	Field 23 (158 Acres)											
	Crop	Loading	Fertilizer	WW Quality				Total Field Loadings				
		WW	N	N	Fixed Salts	BOD	K	WW Nitrogen	Total Nitrogen	Fixed Salts	K	BOD
		ac-ft	lbs/ac	----- mg/L -----				----- lbs/ac ----				lb/ac/day
Jan	Wheat		30						30.00			
Feb	Wheat											
Mar	Wheat											
Apr	Cotton		30						30.00			
May	Cotton		30						30.00			
Jun	Cotton											
Jul	Cotton											
Aug	Cotton	16.88		95	968	2,410	549	27.58	27.58	281	159	23
Sep	Cotton	19.52		115	1,303	2,450	669	38.61	38.61	437	225	27
Oct		4.67		78	1,667	1,617	800	6.27	6.27	134	64	4
Nov	Wheat											
Dec	Wheat											
TOTAL		41.07	90	--	--	--	--	72	162	852	448	--

Month	Field 24 (41 Acres)											
	Crop	Loading	Fertilizer	WW Quality				Total Field Loadings				
		WW	N	N	Fixed Salts	BOD	K	WW Nitrogen	Total Nitrogen	Fixed Salts	K	BOD
		ac-ft	lbs/ac	----- mg/L -----				----- lbs/ac ----				lb/ac/day
Jan	Wheat											
Feb	Wheat		30						30.00			
Mar	Wheat											
Apr	Wheat	1.08		51	583	1,909	59	3.65	3.65	42	4	5
May	Wheat	1.82		45	560	1,474	160	5.43	5.43	68	19	6
Jun	Wheat											
Jul	Sudan	12.89		43	615	1,767	310	36.74	36.74	525	265	50
Aug	Sudan	6.00		78.0	968	2,410	549	31.02	31.02	385	218	32
Sep	Sudan	6.00		95	1,303	2,450	669	37.78	37.78	518	266	32
Oct	Sudan	4.67		115	1,667	1,617	800	35.60	35.60	516	248	17
Nov	Wheat											
Dec	Wheat											
TOTAL		32.46	30	--	--	--	--	150	180	2,054	1,020	--

Month	Field 25 (79 Acres)											
	Crop	Loading	Fertilizer	WW Quality				Total Field Loadings				
		WW	N	N	Fixed Salts	BOD	K	WW Nitrogen	Total Nitrogen	Fixed Salts	K	BOD
		ac-ft	lbs/ac	----- mg/L -----				----- lbs/ac ----				lb/ac/day
Jan	Wheat											
Feb	Wheat		30						30.00			
Mar	Wheat											
Apr	Wheat	1.08		51	583	1,909	59	1.89	1.89	22	2	2
May	Wheat	1.82		45	560	1,474	160	2.82	2.82	35	10	3
Jun	Sudan											
Jul	Sudan	12.89		43	615	1,767	310	19.07	19.07	273	137	26
Aug	Sudan	19.08		78.0	968	2,410	549	51.20	51.20	635	360	53
Sep	Sudan	17.41		95	1,303	2,450	669	56.90	56.90	780	401	49
Oct		4.67		115	1,667	1,617	800	18.47	18.47	268	129	9
Nov	Wheat											
Dec	Wheat											
TOTAL		56.95	30	--	--	--	--	150	180	2,013	1,039	--

Month	Field 29 (157 Acres)											
	Crop	Loading	Fertilizer	WW Quality				Total Field Loadings				
		WW	N	N	Fixed Salts	BOD	K	WW Nitrogen	Total Nitrogen	Fixed Salts	K	BOD
		ac-ft	lbs/ac	----- mg/L -----				----- lbs/ac ----				lb/ac/day
Jan	Wheat											
Feb	Wheat											
Mar	Wheat		30						30.00			
Apr	Cotton											
May	Cotton		30						30.00			
Jun	Cotton		30						30.00			
Jul	Cotton											
Aug	Cotton	23.08		78.0	968	2,410	549	31.16	31.16	387	219	32
Sep	Cotton	21.41		95	1,303	2,450	669	35.21	35.21	483	248	30
Oct	Cotton	4.67		115	1,667	1,617	800	9.30	9.30	135	65	4
Nov												
Dec	Wheat											
TOTAL		49.16	90	--	--	--	--	76	166	1,004	532	--

Month	Field 30E (80 Acres)											
	Crop	Loading	Fertilizer	WW Quality				Total Field Loadings				
		WW	N	N	Fixed Salts	BOD	K	WW Nitrogen	Total Nitrogen	Fixed Salts	K	BOD
		ac-ft	lbs/ac	----- mg/L -----				----- lbs/ac ----				lb/ac/day
Jan	Wheat											
Feb	Wheat		30						30.00			
Mar	Wheat	2.59		69	1,140	1,447	36	6.07	6.07	100	3	4
Apr	Wheat	1.08		51	583	1,909	59	1.87	1.87	21	2	2
May												
Jun	Sorghum	1.36		43	180	507	3	1.99	1.99	8	0.1	1
Jul	Sorghum	12.89		78.0	615	1,767	310	34.15	34.15	269	136	26
Aug	Sorghum	21.09		95	968	2,410	549	68.06	68.06	693	393	58
Sep	Sorghum	21.41		115	1,303	2,450	669	83.64	83.64	948	487	59
Oct		4.67		78	1,667	1,617	800	12.37	12.37	264	127	9
Nov	Wheat	5.54		43	800	2,212	115	8.09	8.09	151	22	14
Dec	Wheat	4.55		67	585	920	2	10.36	10.36	90	0.3	5
TOTAL		75.18	30	--	--	--	--	227	257	2,546	1,170	--

Table 5. Projected/ Simulated Hydraulic, Nitrogen, Salts, BOD, and K Loadings at Land Application Site (High/Moderate Production and Worst Case Poor/Fair Tomato Quality)

Month	Field 30W (80 Acres)											
	Crop	Loading	Fertilizer	WW Quality				Total Field Loadings				
		WW	N	N	Fixed Salts	BOD	K	WW Nitrogen	Total Nitrogen	Fixed Salts	K	BOD
		ac-ft	lbs/ac	----- mg/L -----				----- lbs/ac ----				lb/ac/day
Jan	Wheat											
Feb	Wheat		30						30.00			
Mar	Wheat	2.56		69	1,140	1,447	36	6.00	6.00	99	3	4
Apr	Sorghum	1.08		51	583	1,909	59	1.87	1.87	21	2	2
May	Sorghum	1.82		45	560	1,474	160	2.78	2.78	35	10	3
Jun	Sorghum	1.35		43	180	507	3	1.97	1.97	8	0.1	1
Jul	Sorghum	12.89		78.0	615	1,767	310	34.15	34.15	269	136	26
Aug	Sorghum	21.09		95	968	2,410	549	68.06	68.06	693	393	58
Sep	Sorghum	21.41		115	1,303	2,450	669	83.64	83.64	948	487	59
Oct	Sorghum	4.67		78	1,667	1,617	800	12.37	12.37	264	127	9
Nov	Sorghum	5.54		43	800	2,212	115	8.09	8.09	151	22	14
Dec	Wheat	4.55		67	585	920	2	10.36	10.36	90	0.3	5
TOTAL		76.96	30	--	--	--	--	229	259	2,579	1,180	--

Month	Field 12 (New) (158 Acres)											
	Crop	Loading	Fertilizer	WW Quality				Total Field Loadings				
		WW	N	N	Fixed Salts	BOD	K	WW Nitrogen	Total Nitrogen	Fixed Salts	K	BOD
		ac-ft	lbs/ac	----- mg/L -----				----- lbs/ac ----				lb/ac/day
Jan	Wheat											
Feb	Wheat		30						30.00			
Mar	Wheat											
Apr	Wheat											
May	Wheat	1.82		45	560	1,474	160	1.41	1.41	18	5	2
Jun	Wheat	1.36		43	180	507	3	1.01	1.01	4	0.1	0
Jul		24.96		78.0	615	1,767	310	33.49	33.49	264	133	25
Aug	Sorghum	47.08		95	968	2,410	549	76.93	76.93	784	445	65
Sep	Sorghum	37.41		115	1,303	2,450	669	74.00	74.00	838	430	53
Oct	Sorghum	4.67										
Nov												
Dec												
TOTAL		117.30	30	--	--	--	--	187	217	1,908	1,013	--

NOTES:
"lbs/ac" = pounds per acre
"WW" = process wastewater
"ac-ft" = acre-feet of process wastewater applied
"N" = Nitrogen
"mg/L" = parts per million
"lb/ac/day" = pounds per acre/ day
"Total N Applied" = Fertilizer N plus process wastewater N
"BOD" = Biochemical Oxygen Demand
"Fixed Salts" = Total Dissolved Solids minus Volatile Dissolved Solids
"K" = Potassium

PRODUCTION SCHEDULES TYPICALLY CHANGE ANNUALLY DEPENDING ON SALES, PRODUCT DEMANDS, AND OTHER MARKET FORCES. FURTHER, PROCESS WATER QUALITY IS SUBJECT TO CHANGE DEPENDING ON THE TYPE AND QUALITY OF TOMATOES BEING PROCESSED. THEREFORE, THE DISTRIBUTION AND QUALITY OF FLOWS IN THIS TABLE SHOULD BE CONSIDERED AS BEST ESTIMATES BASED ON PAST PLANT DISCHARGES DURING THE YEARS 2010 - 2013.

Table 6. Projected/ Simulated Site Process Water Nitrogen/ Crop Balance (High/Moderate Production and Worst Case Poor/Fair Tomato Quality)

Field	Size	Gross WW Hydraulic Loading[1]			Gross WW and Fertilizer N Loading[1]			Net WW and Fertilizer N Loading[2,3]			Crop N Uptake[4]	N Balance[5,6]
					WW	Fertilizer	Total	WW	Fertilizer	Total		
	(ac)	(ac-ft)	(MG)	(ac-in/ac)	------ lbs/ac ------							
15	15	13.97	4.55	11.18	199		199	129		129	241	**-112**
16E	78.5	67.01	21.84	10.25	210	30	240	137	21	158	259	**-102**
16W	78.5	53.93	17.57	8.25	169	30	199	110	21	131	158	**-27**
17N	80	69.69	22.71	10.46	210	30	240	137	21	158	259	**-102**
17S	80	67.12	21.87	10.07	204	30	234	133	21	154	259	**-105**
22E	75	46.86	15.27	7.50	160	30	190	104	21	125	158	**-33**
22W	75	58.86	19.18	9.42	202	30	232	131	21	152	259	**-107**
23	158	41.07	13.38	3.12	72	90	162	47	63	110	202	**-92**
24	41	32.46	10.58	9.50	150	30	180	98	21	119	161	**-43**
25	79	56.95	18.56	8.65	150	30	180	98	21	119	161	**-43**
29	157	49.16	16.02	3.76	76	90	166	49	63	112	202	**-90**
30E	80	75.18	24.50	11.28	227	30	257	148	21	169	259	**-90**
30W	80	76.96	25.08	11.55	229	30	259	149	21	170	259	**-89**
12 (New)	158	117.30	38.22	8.91	187	30	211	122	21	143	259	**-116**
Totals	**1,235**	**826.52**	**269.32**	--	--	--	--	--	--	--	--	--
Mean	--	--	--	**8.85**	**175**	**40**	**211**	**113**	**28**	**139**	**221**	--

NOTES:
"ac" = acres
"ac-ft" = acre-feet
"MG" = million gallons
"ac-in/ac" = acre-inches/acre
"lbs/ac" = pounds per acre
"WW" = Plant Process Wastewater

[1] Projected gross hydraulic and nitrogen loadings at land application site projected by month in Table 5.

[2] Net WW N Loading = Gross WW N loading x 0.65 (assumes that 35% of applied nitrogen will be lost due to volatilization and/or denitrification).

[3] Net fertilizer N Loading = Gross Fertilizer N loading X 0.70 (assumes that 30% of applied nitrogen will be lost due to volatilization and/or denitrification).

[4] Historical site crop data summarized in Attachment #3.

[5] Net Total N applied (lbs/ac) minus Crop N uptake (lbs/ac).

[6] Positive numbers indicate N applied in excess of crop N uptake/ utilization and negative numbers indicate less nitrogen applied than utilized.

Table 7. Projected/ Simulated Site Process Water Salt and Potassium / Crop Balance (High/Moderate Production and Worst Case Poor/Fair Tomato Quality)

Field	Size	Gross WW Hydraulic Loading[1]			Gross WW Fixed Salts and K Loading[1]		Projected Crop Uptake[2]		Fixed Salts and K Balance[3,4]	
					Fixed Salts	Potassium	Fixed Salts	Potassium	Fixed Salts	Potassium
	(ac)	(ac-ft)	(MG)	(ac-in/ac)	------ lbs/ac ------					
15	15	13.97	4.55	11.18	2,214	1,032	1,405	415	809	617
16E	78.5	67.01	21.84	10.25	2,318	1,135	2,407	426	-89	709
16W	78.5	53.93	17.57	8.25	1,896	921	899	253	997	668
17N	80	69.69	22.71	10.46	2,471	1,132	2,407	426	64	706
17S	80	67.12	21.87	10.07	2,371	1,129	2,407	426	-36	703
22E	75	46.86	15.27	7.50	1,820	625	899	253	921	372
22W	75	58.86	19.18	9.42	2,238	1,159	2,407	426	-169	733
23	158	41.07	13.38	3.12	852	448	1,712	217	-860	231
24	41	32.46	10.58	9.50	2,054	1,020	1,932	299	122	721
25	79	56.95	18.56	8.65	2,013	1,039	1,932	299	81	740
29	157	49.16	16.02	3.76	1,004	532	1,712	217	-708	315
30E	80	75.18	24.50	11.28	2,546	1,170	2,407	426	139	744
30W	80	76.96	25.08	11.55	2,579	1,180	2,407	426	172	754
12 (New)	158	117.30	38.22	8.91	1,908	1,013	2,407	426	-499	587
Totals	**1,235**	**826.52**	**269.32**	--	--	--		--	--	--
Mean	--	--	--	**8.85**	**2,020**	**963**	**1,918**	**353**	--	--

NOTES:
"ac" = acres
"ac-ft" = acre-feet
"MG" = million gallons
"ac-in/ac" = acre-inches/acre
"lbs/ac" = pounds per acre
"WW" = Plant Process Wastewater
[1] Gross hydraulic and fixed salts and K loadings at land application site projected by month in Table 5.
[2] Historical site crop data summarized in Attachment #3.
[3] Gross fixed salts and K applied (lbs/ac) minus Crop Uptake (lbs/ac).
[4] Positive numbers indicate fixed salts and K applied in excess of crop uptake/ utilization and negative numbers indicate less salts/ K applied than utilized.

Table 8. Average/ Range Groundwater Quality at Site North and South Fields in Years 2000 and 2013[1]

Well and Standards	EC Mean	EC Range	Cl Mean	Cl Range	K Mean	K Range	TDS Mean	TDS Range
	---- uhmos/cm ----		------ mg/L ------					
North Fields								
Average GW Quality Measured During 2000 (Start of Operations)								
MW12 - Upgradient	901	882 - 933	35	9 - 83	15	4 - 32	599	500 - 730
MW4 - Down Gradient	1,620	1,560 - 1,680	190	160 - 280	5	2 - 12	1,108	1,000 - 1,300
MW9 - Down Gradient	1,360	1,322 - 1,397	135	110 - 130	3	2 - 5	847	700 - 1,000
Average GW Quality Measured During 2013								
MW12 - Upgradient	455	440 - 470	13	12 - 13	<2	<2	318	300 - 340
MW4 - Down Gradient	1,925	1,800 - 2,100	228	210 - 240	<2	<2	1,275	1,200 - 1,400
MW9 - Down Gradient	1,700	1,700	148	140 - 150	<2	<2	1,100	1,100
South Fields								
Average GW Quality Measured During 2000 (Start of Operations)								
MW14 - Upgradient	5,739	5,486 - 5,905	722	320 - 880	16	5 - 47	3,936	3,670 - 4,200
MW6 - Down Gradient	1,060	992 - 1,245	38	21 - 65	8	2 - 18	716	450 - 980
MW13- Down Gradient	337	262 - 560	35	9 - 67	3	1 - 7	239	60 - 430
MW15 - Down Gradient	3,758	1,945 - 5,842	801	380 - 1,390	18	5 - 73	2,489	1,250 - 4,190
Average GW Quality Measured During 2013								
MW14 - Upgradient	5,000	4,800 - 5,100	470	440 - 500	<2	<2	3,250	3,000 - 3,600
MW6 - Down Gradient*	NS	NS	NS	NS	NS	NS	NS	NS
MW13- Down Gradient	713	580 - 840	40	32 - 49	<2	<2	448	360 - 540
MW15 - Down Gradient	5,850	5,500 - 6,100	1,100	1,100	2.7	2.6 - 2.8	3,950	3,800 - 4,200
Title 22 Standards[2]								
MCL Primary								
MCL (Secondary Recommended)	900		250				500	
MCL (Secondary Upper)	1,600		500				1,000	
MCL (Secondary Short Term)	2,200		600				1,500	

NOTES:

* ***Monitoring Well #6 could not be sampled in 2013 because it was dry during all sampling months (dry due to on-going drought).***

"mg/L" = parts per million

"NS" = Not Sampled

"MCL" = maximum contaminant level found in CCR Title 22, Chapter 15.

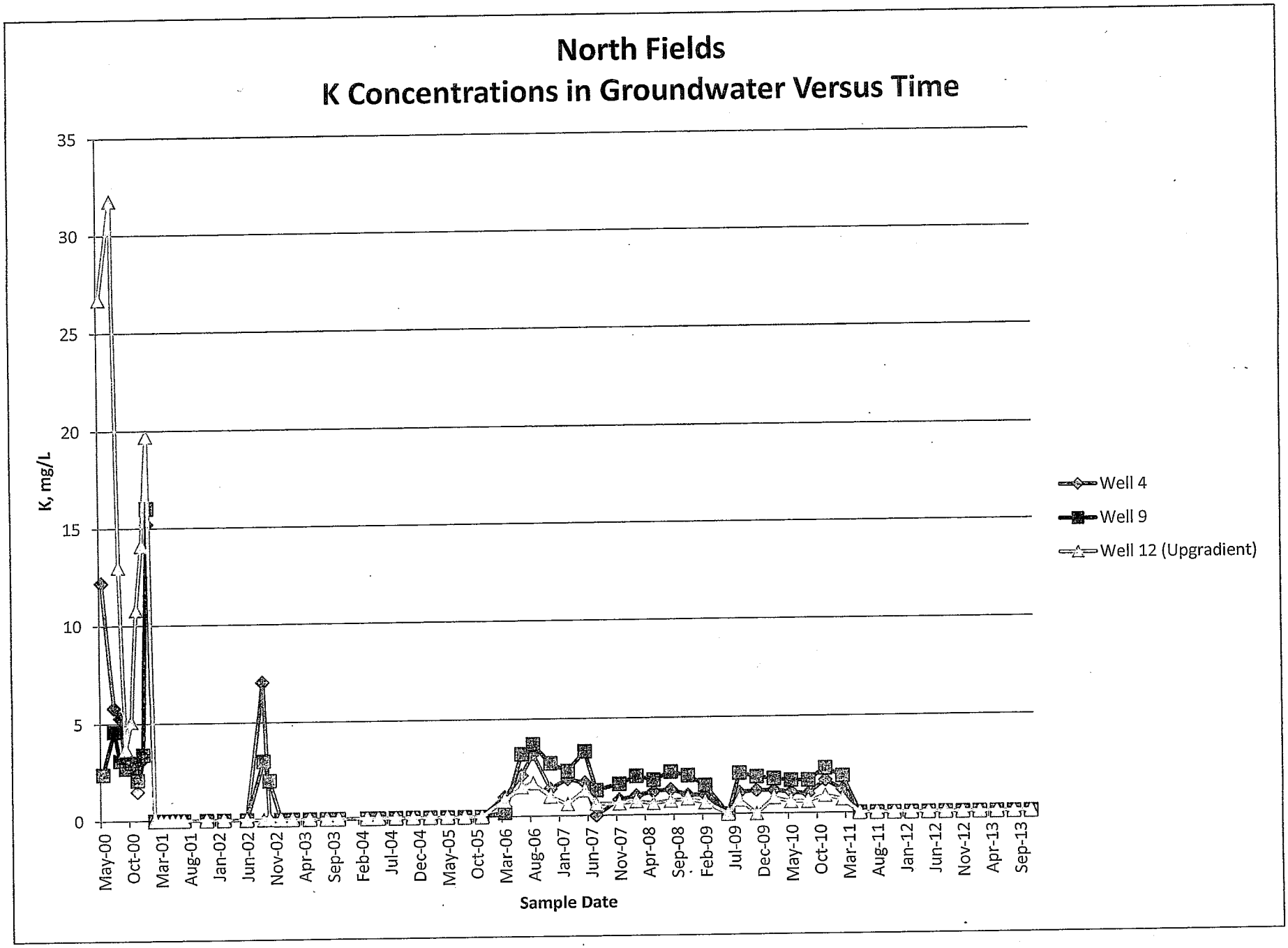
EC = electrical conductivity; NO_3-N = nitrate-nitrogen, Fe = iron; Cl = chloride; K = potassium; and TDS = total dissolved solids

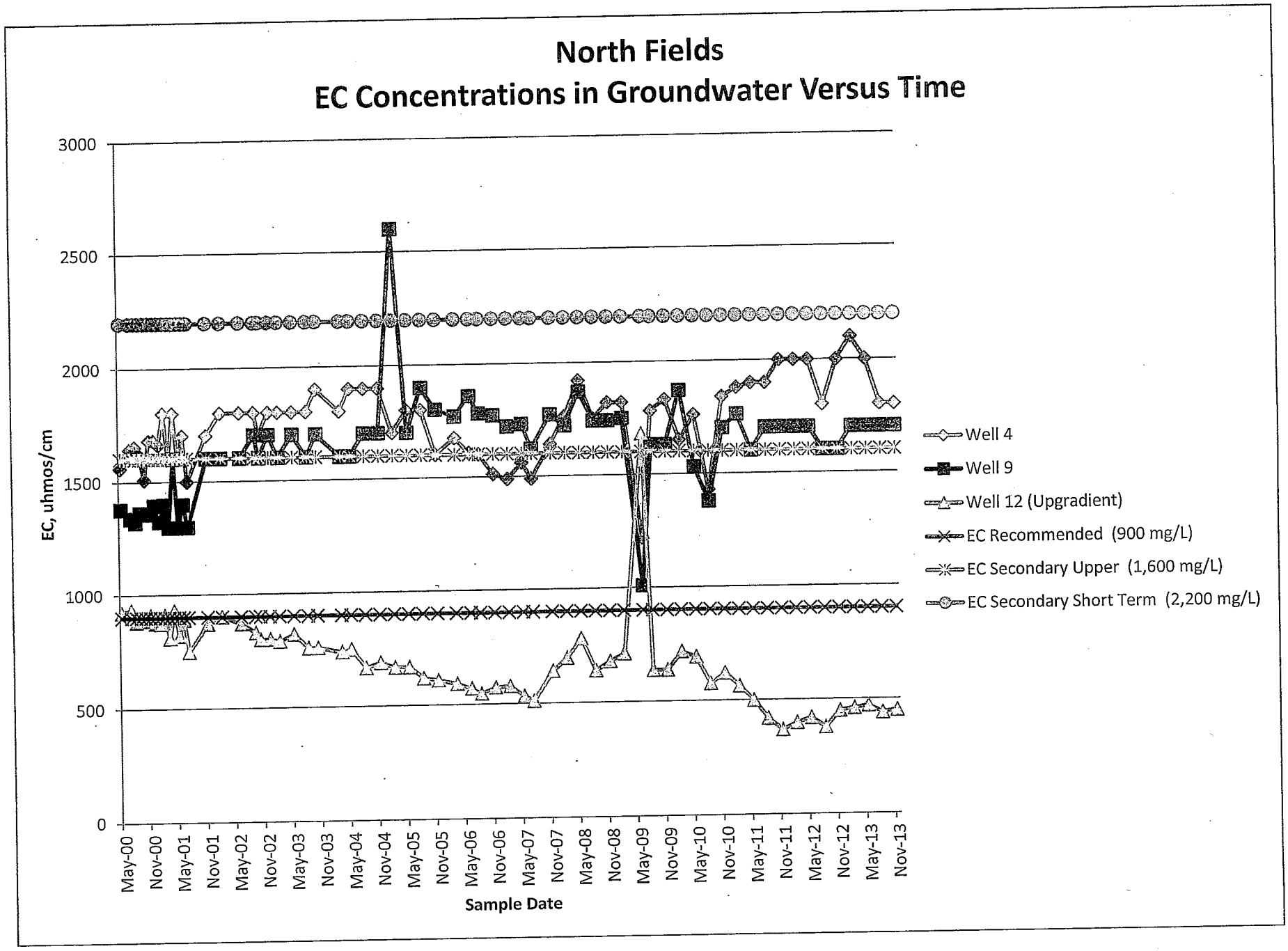
[1] Based on groundwater elevation and quality data in Table 7 and Appendix G of Report of Waste Discharge.

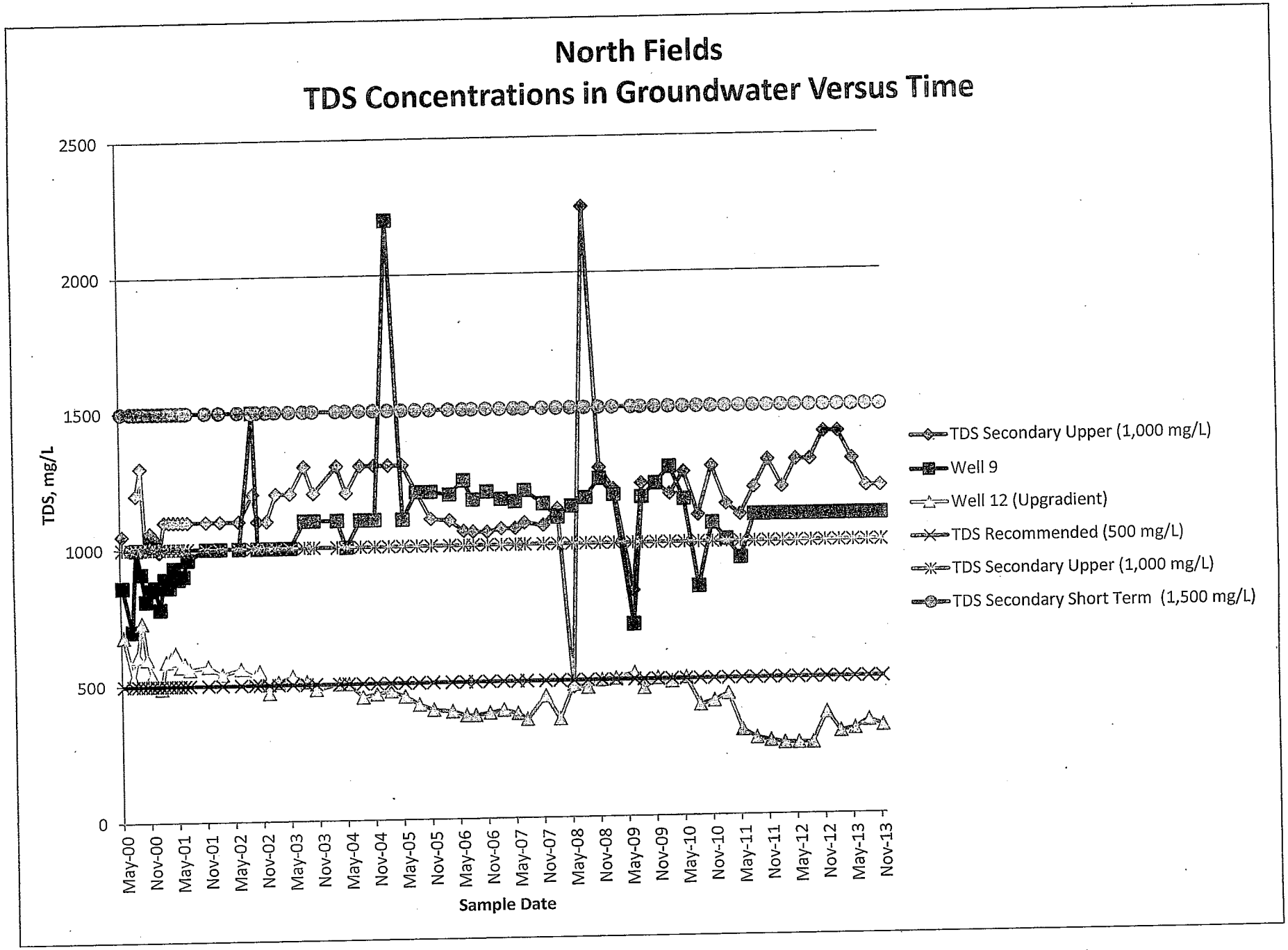
[2] Drinking water standards found in CCR Title 22, Chapter 15.

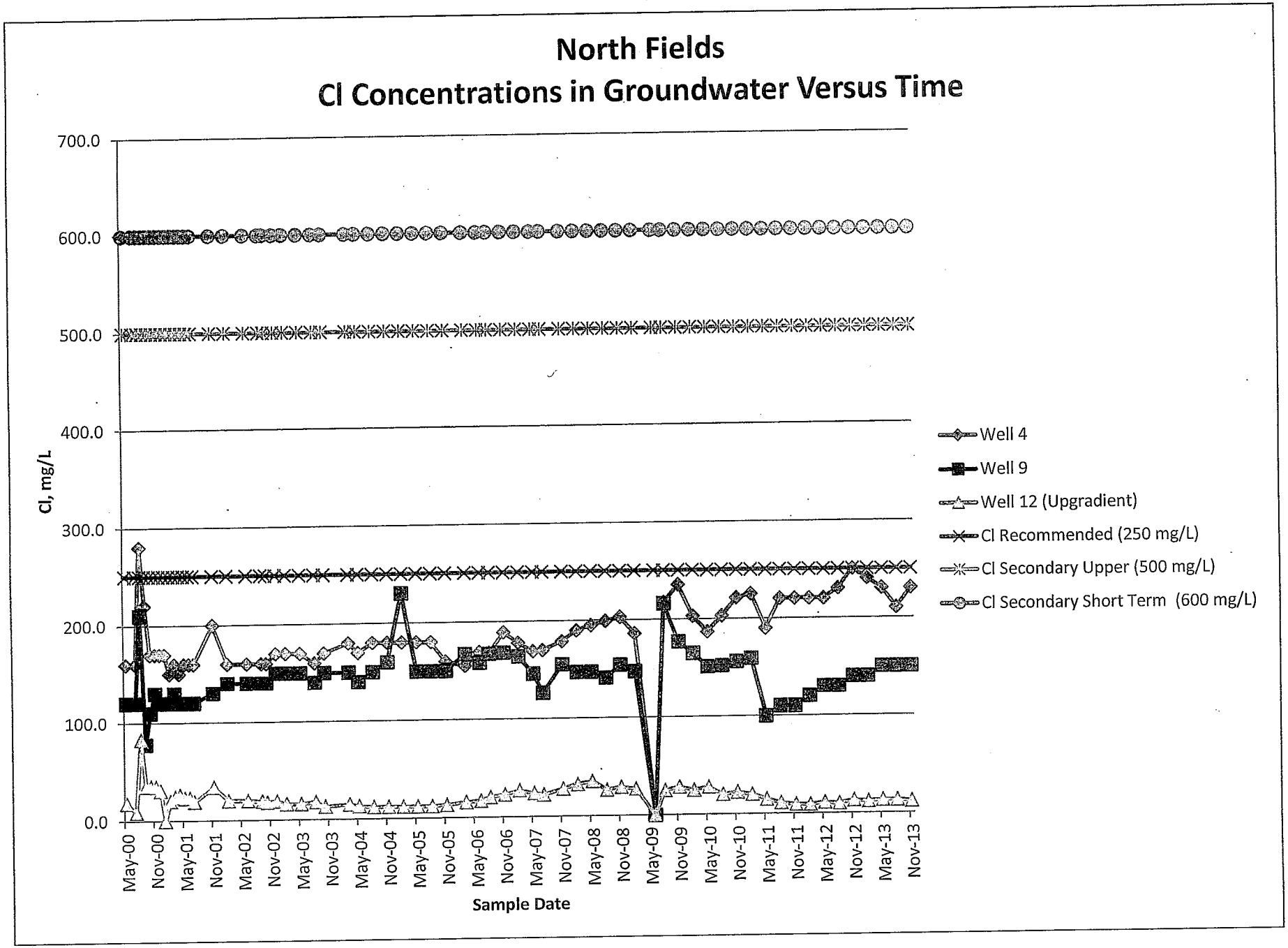
SITE GROUNDWATER QUALITY TRENDS GRAPHS (NORTH AND SOUTH SITE FIELDS)

NORTH FIELDS

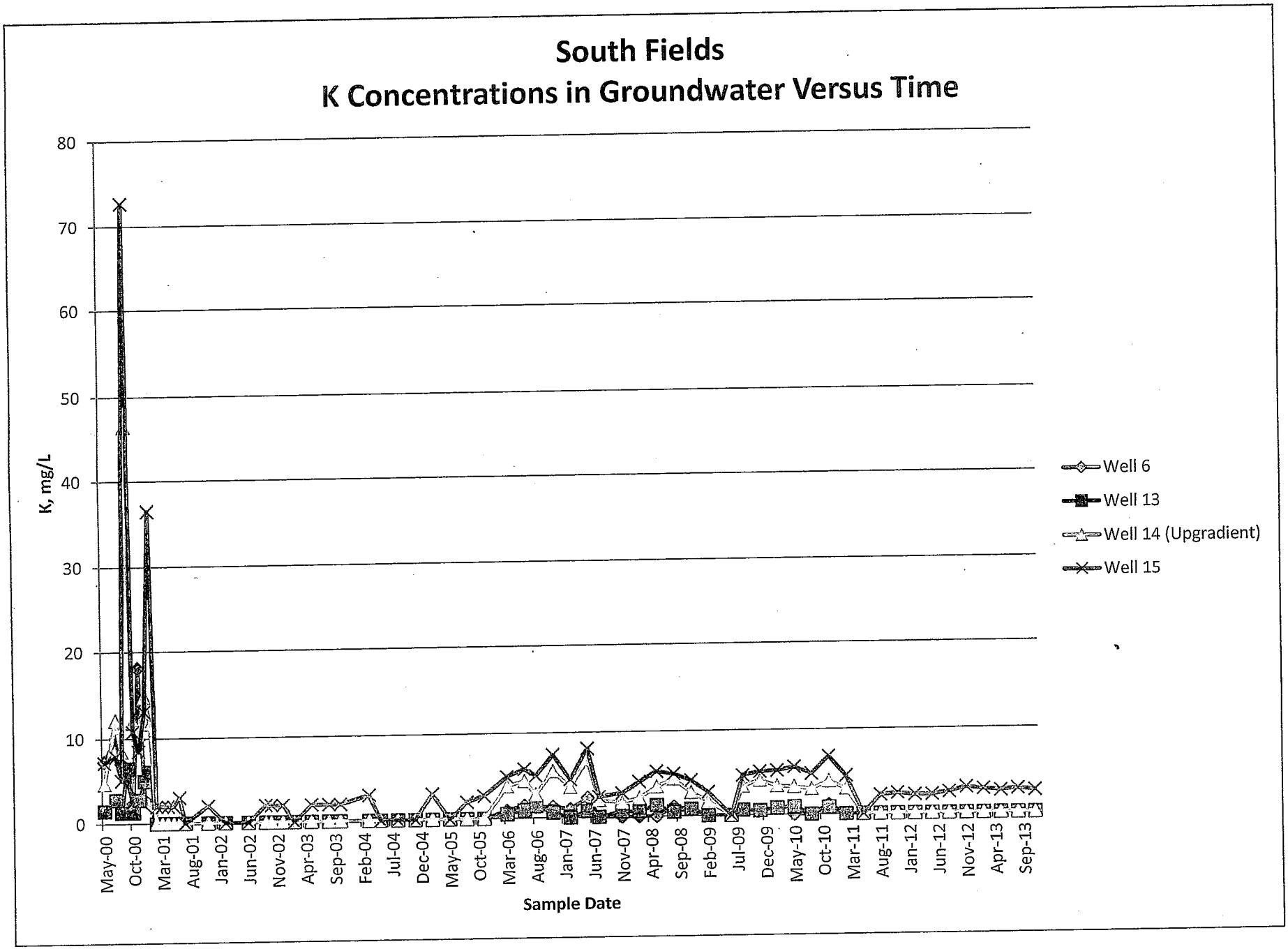

North Fields
K Concentrations in Groundwater Versus Time
K, mg/L
35
30
25
20
15
10
5
0
May-00
Oct-00
Mar-01
Aug-01
Jan-02
Jun-02
Nov-02
Apr-03
Sep-03
Feb-04
Jul-04
Dec-04
May-05
Oct-05
Mar-06
Aug-06
Jan-07
Jun-07
Nov-07
Apr-08
Sep-08
Feb-09
Jul-09
Dec-09
May-10
Oct-10
Mar-11
Aug-11
Jan-12
Jun-12
Nov-12
Apr-13
Sep-13
Sample Date
Well 4
Well 9
Well 12 (Upgradient)

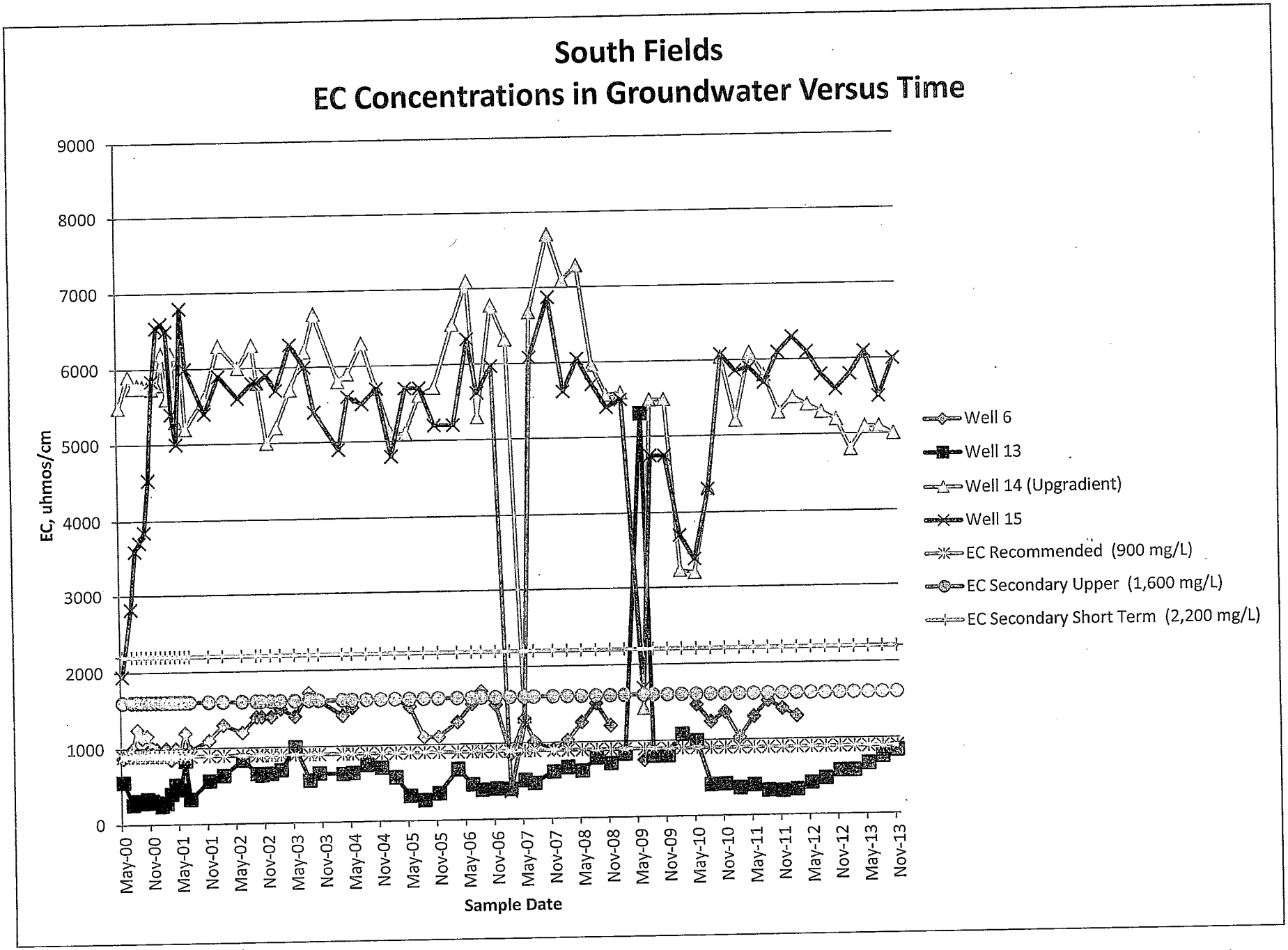

North Fields
EC Concentrations in Groundwater Versus Time
EC, uhmos/cm
3000
2500
2000
1500
1000
500
0
May-00
Nov-00
May-01
Nov-01
May-02
Nov-02
May-03
Nov-03
May-04
Nov-04
May-05
Nov-05
May-06
Nov-06
May-07
Nov-07
May-08
Nov-08
May-09
Nov-09
May-10
Nov-10
May-11
Nov-11
May-12
Nov-12
May-13
Nov-13
Sample Date
Well 4
Well 9
Well 12 (Upgradient)
EC Recommended (900 mg/L)
EC Secondary Upper (1,600 mg/L)
EC Secondary Short Term (2,200 mg/L)

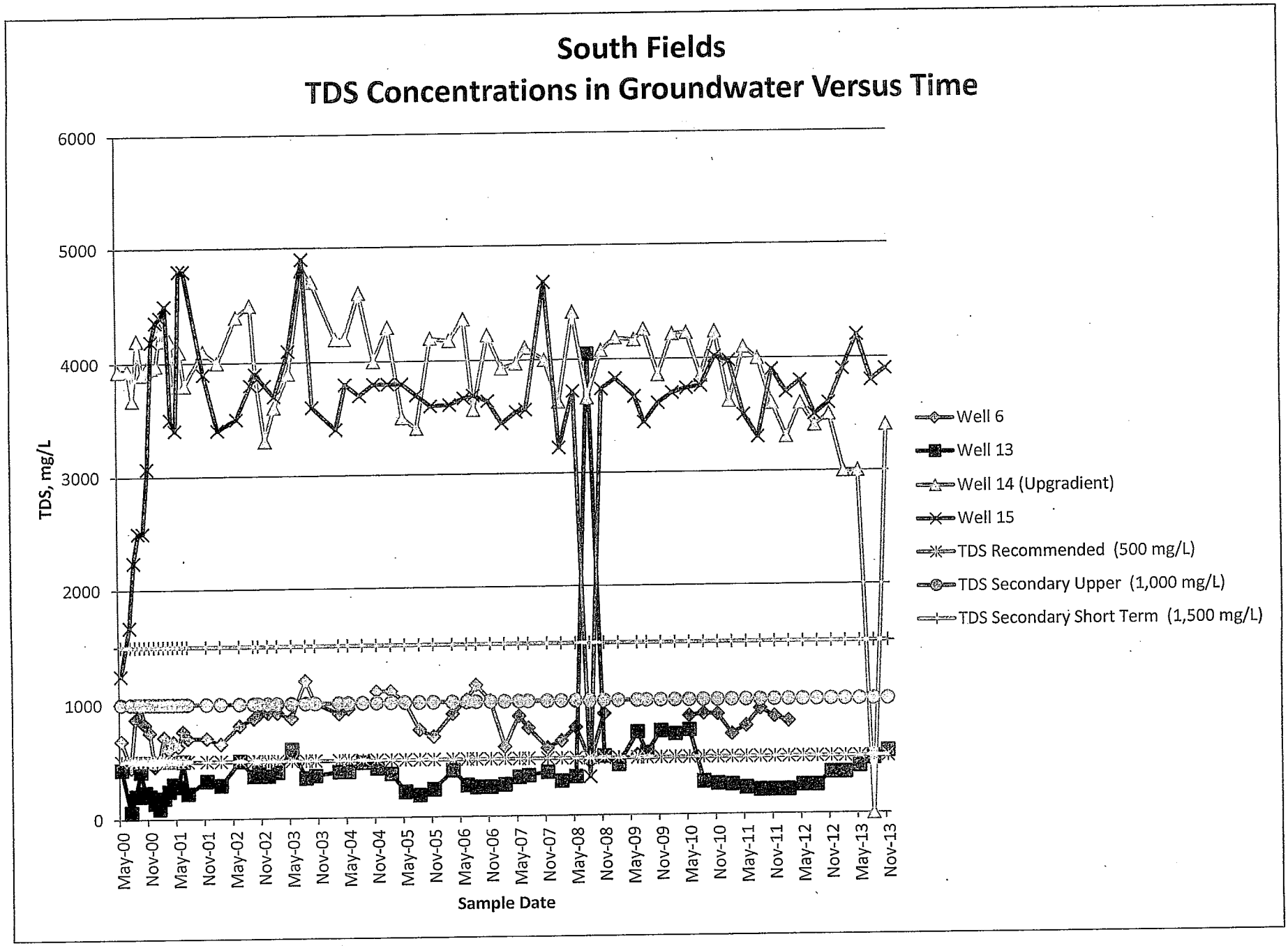

North Fields
TDS Concentrations in Groundwater Versus Time
TDS, mg/L
2500
2000
1500
1000
500
0
May-00
Nov-00
May-01
Nov-01
May-02
Nov-02
May-03
Nov-03
May-04
Nov-04
May-05
Nov-05
May-06
Nov-06
May-07
Nov-07
May-08
Nov-08
May-09
Nov-09
May-10
Nov-10
May-11
Nov-11
May-12
Nov-12
May-13
Nov-13
Sample Date
TDS Secondary Upper (1,000 mg/L)
Well 9
Well 12 (Upgradient)
TDS Recommended (500 mg/L)
TDS Secondary Upper (1,000 mg/L)
TDS Secondary Short Term (1,500 mg/L)

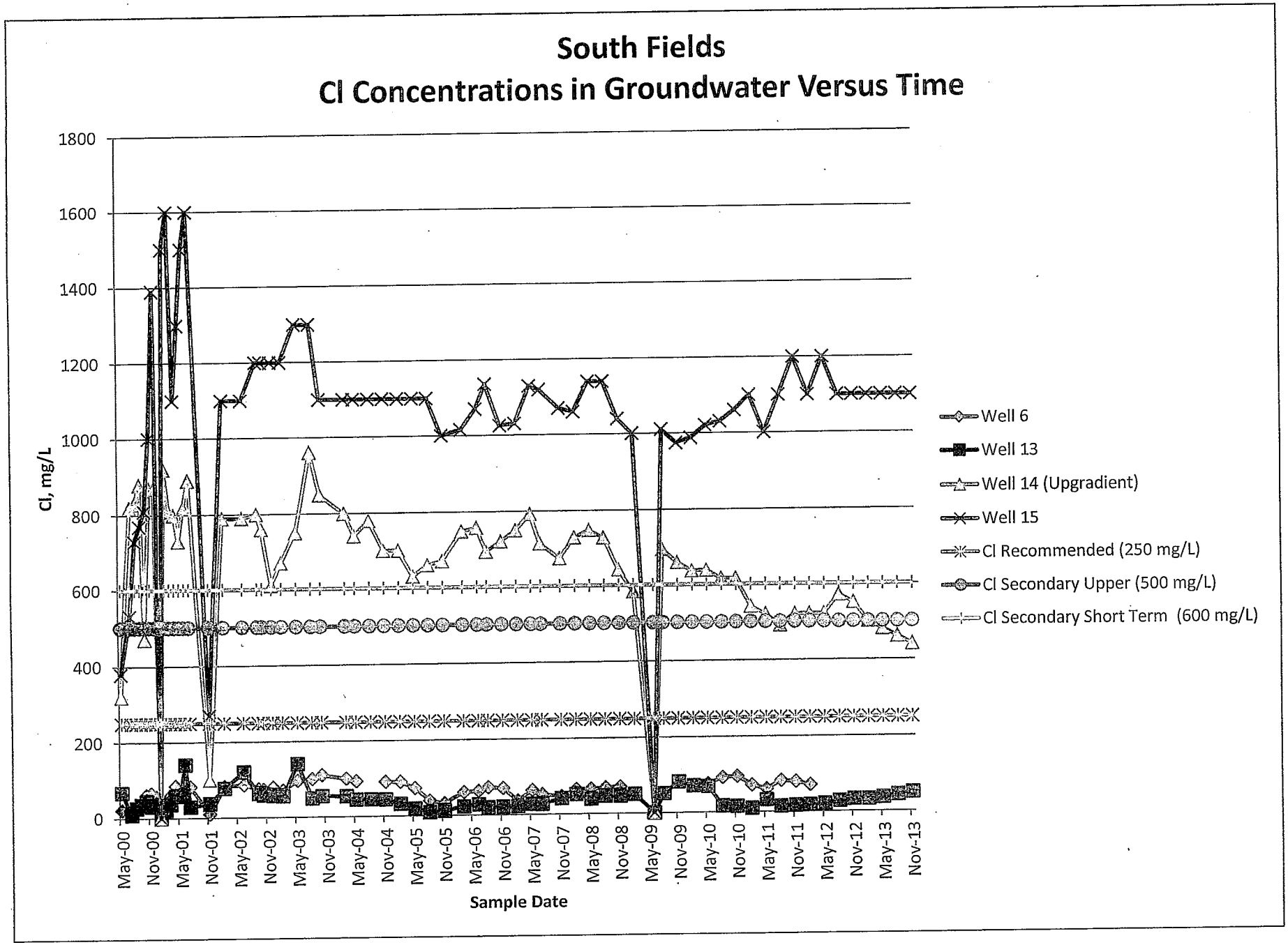

North Fields
Cl Concentrations in Groundwater Versus Time
Cl, mg/L
700.0
600.0
500.0
400.0
300.0
200.0
100.0
0.0
May-00
Nov-00
May-01
Nov-01
May-02
Nov-02
May-03
Nov-03
May-04
Nov-04
May-05
Nov-05
May-06
Nov-06
May-07
Nov-07
May-08
Nov-08
May-09
Nov-09
May-10
Nov-10
May-11
Nov-11
May-12
Nov-12
May-13
Nov-13
Sample Date
Well 4
Well 9
Well 12 (Upgradient)
Cl Recommended (250 mg/L)
Cl Secondary Upper (500 mg/L)
Cl Secondary Short Term (600 mg/L)

SOUTH FIELDS


South Fields
K Concentrations in Groundwater Versus Time
K, mg/L
80
70
60
50
40
30
20
10
0
May-00
Oct-00
Mar-01
Aug-01
Jan-02
Jun-02
Nov-02
Apr-03
Sep-03
Feb-04
Jul-04
Dec-04
May-05
Oct-05
Mar-06
Aug-06
Jan-07
Jun-07
Nov-07
Apr-08
Sep-08
Feb-09
Jul-09
Dec-09
May-10
Oct-10
Mar-11
Aug-11
Jan-12
Jun-12
Nov-12
Apr-13
Sep-13
Sample Date
Well 6
Well 13
Well 14 (Upgradient)
Well 15


South Fields
EC Concentrations in Groundwater Versus Time
EC, uhmos/cm
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
May-00
Nov-00
May-01
Nov-01
May-02
Nov-02
May-03
Nov-03
May-04
Nov-04
May-05
Nov-05
May-06
Nov-06
May-07
Nov-07
May-08
Nov-08
May-09
Nov-09
May-10
Nov-10
May-11
Nov-11
May-12
Nov-12
May-13
Nov-13
Sample Date
Well 6
Well 13
Well 14 (Upgradient)
Well 15
EC Recommended (900 mg/L)
EC Secondary Upper (1,600 mg/L)
EC Secondary Short Term (2,200 mg/L)


South Fields
TDS Concentrations in Groundwater Versus Time
TDS, mg/L
6000
5000
4000
3000
2000
1000
0
May-00
Nov-00
May-01
Nov-01
May-02
Nov-02
May-03
Nov-03
May-04
Nov-04
May-05
Nov-05
May-06
Nov-06
May-07
Nov-07
May-08
Nov-08
May-09
Nov-09
May-10
Nov-10
May-11
Nov-11
May-12
Nov-12
May-13
Nov-13
Sample Date
Well 6
Well 13
Well 14 (Upgradient)
Well 15
TDS Recommended (500 mg/L)
TDS Secondary Upper (1,000 mg/L)
TDS Secondary Short Term (1,500 mg/L)


South Fields
Cl Concentrations in Groundwater Versus Time
Cl, mg/L
1800
1600
1400
1200
1000
800
600
400
200
0
May-00
Nov-00
May-01
Nov-01
May-02
Nov-02
May-03
Nov-03
May-04
Nov-04
May-05
Nov-05
May-06
Nov-06
May-07
Nov-07
May-08
Nov-08
May-09
Nov-09
May-10
Nov-10
May-11
Nov-11
May-12
Nov-12
May-13
Nov-13
Sample Date
Well 6
Well 13
Well 14 (Upgradient)
Well 15
Cl Recommended (250 mg/L)
Cl Secondary Upper (500 mg/L)
Cl Secondary Short Term (600 mg/L)

ATTACHMENTS
(ATTACHMENTS #1 - #3)

ATTACHMENT #1
PROCESS WASTEWATER QUALITY DATA DURING 2010 - 2013

Del Monte Hanford, CA -- Process Wastewater Quality Data During 2010 - 2013[1,2]

CY 2010

Month	Sample Day	EC	BOD5	NO_3-N	TKN	Total-N	TDS	VDS	NVDS	Al	As	HCO_3	Ca	CO_3	Cl	F	Fe	Mg	Mn	Na	K	SiO_2	SO_4	Total-P
		uhmos/cm	------ mg/L ------																					
Jan	6-Jan		10																					
	13-Jan		<5																					
	20-Jan		<5																					
	27-Jan		<5																					
Monthly Mean			10																					
Feb	3-Feb		28																					
	10-Feb	1,900	3,800	0.11	120	120	2,600																	
	19-Feb		10																					
	24-Feb		22																					
Monthly Mean		1,900	965	0.11	120	120	2600																	
Mar	3-Mar	4,000	4,200	<5	140	140	3,000	1,300	1,700															
	10-Mar		260																					
	17-Mar	1,600	3,500	<5	93	93	1,700	980	720															
	24-Mar	2,100	3,100	<5	99	99	2,400	1,400	1,000															
	31-Mar		18																					
Monthly Mean		2,567	2,216	<5	111	111	2,367	1,227	1,140															
Apr	7-Apr	1,800	3,400	<5	110	110	2,700	2,000	700															
	14-Apr		23																					
	21-Apr	760	1,300	3.1	40	43	1,000	650	350															
	28-Apr	420	72																					
Monthly Mean		1,387	1,402	<5	87	88	2,022	1,292	730															
May	5-May	720	650	<10	22	22	730	410	320															
	12-May	1,900	4,600																					
	21-May	750	460																					
	26-May	540	470																					
Monthly Mean		978	1,545	<10	22	22	730	410	320															
Jun	4-Jun		40																					
	9-Jun	1,200	2,600	2.3	82	84	1,500	1,400	100															
	16-Jun	490	580																					
	23-Jun	490	580																					
	30-Jun		<5																					
Monthly Mean		727	950	2.3	82	84	1,500	1,400	100															
Jul	7-Jul		<5																					
	14-Jul	870	1,000	0.13	44	44	980	640	340															
	21-Jul	1,000	1,500	0.34	65	65	1,100	670	430															
	30-Jul	1,900	2,600	<0.25	110	110	2,200	1,500	700	12	0.062	270	43	<3.0	89	0.71	20	20	0.61	110	510	98	57	17
Monthly Mean		1,257	1,700	0.24	73	73	1,427	937	490	12	0.062	270	43	<3.0	89	0.71	20	20	0.61	110	510	98	57	17
Aug	6-Aug	2,300	2,000	0.26	110	110	2,700	1,800	900				25		120			13			670			17
	11-Aug	2,300	2,700	0.69	140	141	2,700	1,800	900				33		120			18		120	630			25
	19-Aug		3,100	0.72	7.1	8	2,800	1,600	1,200															
	20-Aug	2,400	2,400	0.17	100	100	2,600	1,600	1,000				36		180			16		130	570			21
	25-Aug	2,200	2,600	0.47	110	110	2,500	1,400	1,100	9	0.07	150	31	<3.0	110	0.74	12	16	0.34	120	580	82	31	22
Monthly Mean		2,300	2,560	0.46	93	94	2,660	1,640	1,020	9	0.07	150	31	<3.0	133	0.74	12	16	0.34	123	613	82	31	21
Sep	1-Sep	3,100	2,800	0.21	130	130	3,300	1,900	1,400				39		200			15		150	850			25
	8-Sep	2,000	2,600	0.12	86	86	1,900	1,100	800				28		170			17		120	490			
	17-Sep	2,200	2,300	0.69	94	94	2,300	1,200	1,100				28		170			16		140	490			
	22-Sep	1,700	1,700	0.19	76	76	2,200	1,400	820				24		120			13		120	390			
Monthly Mean		2,250	2,350	0.30	97	97	2,425	1,400	1,030				30		165			15		133	555			25
Oct	1-Oct	2,400	3,100	0.47	120	120	2,800	1,500	1,300				22		170			16		150	630			
	6-Oct	2,000	1,900	0.16	80	80	1,800	1,100	700				41		180			11		130	470			
	13-Oct		<5																					
	20-Oct		<5																					
	27-Oct		<5																					
Monthly Mean		2,200	2,500	0.32	100	100	2,300	1,300	1,000				32		175			14		140	550			
Nov	5-Nov		<5																					
	10-Nov		<5	0.15	37	37																		
	17-Nov	1,300	2,900				2,100	1,500	600	1.6	0.016	<3	12	<3	260	0.84	5	4	0.18	250	60	38	38	5.5
Monthly Mean		1,300	2,900	0.15	37	37	2,100	1,500	600	1.6	0.016	<3	22	<3	260	0.84	5	4	0.18	250	60	38	38	6
Dec	1-Dec		27																					
	8-Dec		7.3																					
	15-Dec	960	860	0.27			1,100	630	470															
Monthly Mean		960	298	0.27																				
ANNUAL MEAN		1,631	1,606	0.59	88	88	2,113	1,282	811	8	0.049	210	30	<3.0	157	0.76	12	15	0.38	140	528	73	42	19

Del Monte Hanford, CA -- Process Wastewater Quality Data During 2010 - 2013[1,2]

CY 2011

Month	Sample Day	EC	BOD5	NO_3-N	TKN	Total-N	TDS	VDS	NVDS	Al	As	HCO_3	Ca	CO_3	Cl	F	Fe	Mg	Mn	Na	K	SiO_2	SO_4	Total-P
		uhmos/cm	------ mg/L ------																					
Jan	5-Jan		<5																					
	12-Jan	2,800	4,600	0.18	74	74.2	6,100	4,400	1,700				11		650			8.2		490	160			12
	21-Jan		560																					
	26-Jan		340	0.26	5.8	6.1																		
Monthly Mean		2,800	1,833	0.22	40	40	6,100	4,400	1,700				11		650			8		490	160			12
Feb	4-Feb		260																					
	9-Feb	940	1,200	0.11	20	20.1	860	520	340				4.5		120			1.7		190	36			4.4
	16-Feb		340	0.17	5.9	6.1																		
	23-Feb		44																					
Monthly Mean		940	461	0.14	13	13	860	520	340				5		120			2		190	36			4
Mar	2-Mar		1,200	0.21	9.5	9.7																		
	11-Mar		590																					
	18-Mar		140	0.27	5.4	5.7																		
	23-Mar		<5																					
	30-Mar		13																					
Monthly Mean			486	0.24	7	8																		
Apr	6-Apr		170																					
	15-Apr		110	0.6	4.1	4.7																		
	20-Apr	1,700	2,600	0.38	44	44.4	2,500	1,800	700				12		250			4.9		300	59			11
	27-Apr		7,600																					
Monthly Mean		1,700	2,620	0.49	24	25	2,500	1,800	700				12		250			5		300	59			11
May	4-May		830																					
	11-May	2,000	2,200	0.54	88	88.5	1,900	1,100	800				9.7		360			7.4		330	160			15
	18-May	890	880	0.26	40	40.3																		
	25-May	1,000	1,700	0.16	30	30.2																		
Monthly Mean		1,297	1,403	0.32	53	53	1,900	1,100	800				10		360			7		330	160			15
Jun	1-Jun		25																					
	8-Jun		14																					
	15-Jun		<5																					
	22-Jun	480	200	0.14	1.9	2.1	510	250	260				2		19			0.26		110	2.9			1.4
	29-Jun		13																					
Monthly Mean		480	63	0.14	2	2	510	250	260				2		19			0.26		110	3			1
Jul	8-Jul		<5.0																					
	13-Jul	990	1,100	0.15	37	37.2	990	470	520				11		110			3.5		86	98		18	6.3
	20-Jul	1,900	2,300	0.12	110	110.1	2,500	1,400	1,100				13		83			7.1		40	230		34	22
	27-Jul	1,600	2,100	0.14	100	100.1	1,700	1,100	600				34		74			18		89	400		31	17
Monthly Mean		1,497	1,833	0.14	82	82	1,730	990	740				19		89			9.53		72	243		28	15
Aug	3-Aug	1,300	1,800	0.12	82	82.1	1,600	960	660				24		81			14		98	340		22	14
	10-Aug	1,400	1,800	0.14	63	63.1	1,700	960	740				24		84			11		100	330		24	10
	17-Aug	2,100	2,400	0.52	110	110.5	2,000	1,100	880				37		100			19		110	560		34	17
	24-Aug	2,300	2,300	0.15	110	100.2	2,400	1,400	1,100				34		130			26		130	660		32	19
	31-Aug	2,200	3,000	<0.10	130	130	3,000	1,800	1,200	15	0.077	<3.7	34	<1.8	150	1	21	20	0.44	130	600	110	36	19
Monthly Mean		1,860	2,260	0.23	99	97	2,140	1,244	916	15	0.077	<3.7	31	<1.8	109	1	21	18	0.44	114	498	110	30	16
Sep	7-Sep	2,400	2,800	0.21	150	150.2	2,900	1,600	1,300				9.2		160			0.77		45	73		40	21
	14-Sep	2,600	2,000	<0.10	120	120	3,000	1,900	1,100				35		150			25		130	710		43	18
	23-Sep	2,900	2,500	0.13	130	130.1	3,300	1,800	1,500	16	0.081	360	28	<1.8	150	1.2	23	21	0.52	140	950	110	27	21
	28-Sep	3,800	2,900	0.13	130	130.1	4,200	1,800	2,400				24		180			24		120	1,400		61	19
Monthly Mean		2,925	2,550	0.16	133	133	3,350	1,775	1,575	16	0.081	360	24	<1.8	160	1	23	18	0.52	109	783	110	43	20
Oct	5-Oct	3,800	2,900	0.66	150	150.7	5,000	2,000	3,000				27		140			20		110	1,300		37	22
	12-Oct	9,100	350	<0.10	34	34																		
	19-Oct	2,400	1,300	0.29	58	58.3																		
	26-Oct	2,100	150	0.30	24	24.3																		
Monthly Mean		4,350	1,175	0.42	67	67	5,000	2,000	3,000				27		140			20		110	1,300		37	22
Nov	4-Nov	570	1,200	0.26	2.6	2.9																		
	9-Nov	450	46	0.16	2.2	2.4																		
	16-Nov	2,000	4,700	0.31	130	130.3	4,600	3,600	1,000				25		460			9.7		320	170			16
Monthly Mean		1,007	1,982	0.24	45	45	4,600	3,600	1,000				25		460			10		320	170			16
Dec	2-Dec	680	24																					
	7-Dec	420	3,000																					
	14-Dec	1,500	1,600	0.11	67	67.1	2,000	1,300	700	<0.050	0.0029	<3.7	210	<1.8	220	1	<0.05	12	<0.01	410	<2.0	24	20	13
Monthly Mean		867	1,541	0.11	67	67	2,000	1,300	700	<0.050	0.003	<3.7	210	<1.8	220	1	<0.05	12	<0.01	410	<2.0	24	20	13
ANNUAL MEAN		2,011	1,509	0.25	65	65	2,638	1,563	1,080	16	0.054	360	30	<1.8	184	1	22	13	0.48	174	434	81	33	15

Del Monte Hanford, CA -- Process Wastewater Quality Data During 2010 - 2013[1,2]

CY 2012

Month	Sample Day	EC	BOD5	NO_3-N	TKN	Total-N	TDS	VDS	NVDS	Al	As	HCO_3	Ca	CO3	Cl	F	Fe	Mg	Mn	Na	K	SiO_2	SO_4	Total-P
		uhmos/cm	------ mg/L ------																					
Jan	4-Jan	390	7.6	0.12	2.3	2.4																		
	11-Jan	6,600	380	0.18	3.4	3.6																		
	20-Jan	610	200	0.16	6.5	6.7																		
	27-Jan	1,100	760	0.13	16	16.1	1,000	490	510				6.8		180			2.4		200	22			5.8
Monthly Mean		**2,175**	**337**	**0.15**	**7**	**7**	**1,000**	**490**	**510**				**7**		**180**			**2**		**200**	**22**			**6**
Feb	3-Feb	460	78	<0.10	5.7	5.7																		
	8-Feb	490	74	<0.10	4.5	4.5																		
	22-Feb	410	2,300	<0.10	3.3	3.3																		
	29-Feb	530	82	1.8	3.4	5.2																		
Monthly Mean		**473**	**634**	**1.80**	**4**	**5**																		
Mar	14-Mar	400	40	<0.10	2.4	2.4																		
	21-Mar	810	400	<0.10	19	19	760	370	390				6.3		93			1.9		160	26			5.4
	28-Mar	620	5,200	0.2	12	12.2																		
Monthly Mean		**610**	**1,880**	**0.2**	**11**	**11**	**760**	**370**	**390**				**6**		**93**			**2**		**160**	**26**			**5**
Apr	4-Apr	520	250	1.1	10	11.1																		
	11-Apr	980	860	<0.10	50	50	920	500	420				8		120			3.5		150	64			8.4
	18-Apr	2,200	5,200	0.34	67	67.3	5,100	4,200	900				6.5		510			5.5		410	110			13
	27-Apr	440	22	0.15	2.1	2.3																		
Monthly Mean		**1,035**	**1,583**	**0.5**	**32**	**33**	**3,010**	**2,350**	**660**				**7**		**315**			**5**		**280**	**87**			**11**
May	2-May	980	1,100	0.2	25	25.2	1,200	770	430	0.78	0.0051	<3	4.2	<3	140	1	5.2	2.2	0.08	170	47	24	9.9	5.4
	9-May	380	<5	<0.10	1.4	1.4																		
	16-May	640	700	0.16	27	27.2	610	380	230				9.6		66			4.9		120	36			5.9
	25-May	840	1,300	0.24	37	37.2	1,100	760	340				4.3		120			2.8		150	53			5.8
	30-May	920	2,300	0.24	72	72.2																		
Monthly Mean		**752**	**1,350**	**0.2**	**32**	**33**	**970**	**637**	**333**				**6**		**109**	**1**	**5**	**3**	**0.08**	**147**	**45**	**24**	**10**	**6**
Jun	6-Jun	610	64	0.13	1.5	1.6																		
	13-Jun	360	<5	0.17	1.1	1.3																		
	20-Jun	640	47	0.2	1.2	1.4																		
	27-Jun	490	15	0.6	4.5	5.1																		
Monthly Mean		**525**	**42**	**0.3**	**2**	**2**																		
Jul	6-Jul	580	160	0.22	6.2	6.4																		
	11-Jul	3,100	1,300	0.21	64	64.2	3,300	1,900	1,400				25		110			8.1		130	900		29	13
	18-Jul	1,700	1,900	0.41			2,100	1,300	830				24		88			14		100	410		27	
	25-Jul	2,400	3,400	<0.10	140	140	3,100	2,000	1,100				34		150			21		120	630		42	25
Monthly Mean		**1,945**	**1,690**	**0.3**	**70**	**70**	**2,833**	**1,733**	**1,110**				**28**		**116**			**14**		**117**	**647**		**33**	**19**
Aug	1-Aug	2,000	1,600	0.12	110	110.1	2,000	1,200	800				25		130			21		120	530		26	16
	8-Aug	2,600	5,200	0.83	300	300.8	4,700	3,600	1,100				35		180			28		110	630		68	45
	15-Aug	1,800	2,900	0.24	130	130.2	2,000	1,200	800	29	0.081	120	36	<3	160	0.95	42	34	0.87	120	460	160	32	22
	22-Aug	1,500	1,100	0.22	75	75.2	1,800	1,100	700				27		120			19		110	380		27	14
	31-Aug	2,200	2,200	0.11	130	130.1	2,900	1,900	1,000				41		140			35		120	660		34	23
Monthly Mean		**2,020**	**2,600**	**0.30**	**149**	**149**	**2,680**	**1,800**	**880**	**29**	**0.081**	**120**	**33**	**<3**	**146**	**1**	**42**	**27**	**0.87**	**116**	**532**	**160**	**37**	**24**
Sep	5-Sep	3,000	2,400	0.1	140	140.1	3,100	1,800	1,300	20	0.066	170	41	<30	120	1.1	29	28	0.64	110	740	120	38	22
	14-Sep	1,500	1,300	<0.10	78	78	1,700	1,100	600				21		130			22		120	320		28	13
	21-Sep	2,800	2,600	<0.10	150	150	3,400	1,200	2,200				25		170			21		150	840		38	25
	26-Sep	1,400	1,500	0.32	89	89.3	2,000	1,400	600				19		120			16		110	290		28	14
Monthly Mean		**2,175**	**1,950**	**0.21**	**114**	**114**	**2,550**	**1,375**	**1,175**	**20**	**0.066**	**170**	**27**	**<30**	**135**	**1**	**29**	**22**	**0.64**	**123**	**548**	**120**	**33**	**19**
Oct	5-Oct	2,200	170	0.28	11	11.3																		
	10-Oct	420	10	0.11	3.3	3.4																		
	17-Oct	420	26	0.16	3.5	3.6																		
	26-Oct	970	810	0.11	19	19.1																		
	31-Oct	440	17	0.12	2.7	2.8																		
Monthly Mean		**890**	**207**	**0.16**	**8**	**8**																		
Nov	7-Nov	2,300	25	0.11	3.4	3.5																		
	14-Nov	890	11	0.26	2.6	2.9																		
	20-Nov	470	7	0.20	2.6	2.8																		
	28-Nov	1,800	700	0.37	28	28.4																		
Monthly Mean		**1,365**	**186**	**0.24**	**9**	**9**																		
Dec	7-Dec	530	200	<0.10	10	10.0																		
	12-Dec	620	23	0.10	2.7	2.8																		
	18-Dec	750	130	0.14	1.4	1.5																		
Monthly Mean		**633**	**46**	**0.12**	**5**	**5**																		
ANNUAL MEAN		**1,241**	**1,087**	**0.29**	**39**	**39**	**2,252**	**1,430**	**824**	**17**	**0.051**	**145**	**21**	**<3**	**150**	**1.02**	**25**	**15**	**1**	**146**	**376**	**101**	**33**	**16**

Del Monte Hanford, CA -- Process Wastewater Quality Data During 2010 - 2013[1,2]

CY 2013

Month	Sample Day	EC	BOD5	NO_3-N	TKN	Total-N	TDS	VDS	NVDS	Al	As	HCO_3	Ca	CO3	Cl	F	Fe	Mg	Mn	Na	K	SiO_2	SO_4	Total-P
		uhmos/cm	------ mg/L ------																					
Jan	9-Jan	740	13	0.36	2.8	3.2																		
	18-Jan	550	42	<0.1	1.7	1.7																		
	23-Jan	540	390	0.11	19	19.1	750	590	160				4.3		53			2.0		110	33			3.1
	30-Jan	460	10	<0.1	1.7	1.7																		
Monthly Mean		**573**	**48**	**0.24**	**6**	**6**	**750**	**590**	**160**				**4**		**53**			**2**		**110**	**33**			**3**
Feb	6-Feb	500	370	0.27	1.5	1.8																		
	13-Feb	560	250	0.17	9.8	10.0	460	200	260				3.3		72			1.0		120	14			2.2
	20-Feb	350	5,000	1.1	2.2	3.3																		
	27-Feb	480	47	<0.1	2.9	2.9																		
Monthly Mean		**473**	**517**	**0.51**	**4**	**5**	**460**	**200**	**260**				**3**		**72**			**1**		**120**	**14**			**2**
Mar	6-Mar	370	14	<0.1	2.8	2.8																		
	13-Mar	4,300	11,000	0.34	26.0	26.3	7,800	5,600	2,200				14.0		1,200			11.0		840	230			21
	20-Mar	1,000	1,400	0.14	72.0	72.1	1,500	1,100	400				7.5		110			5.5		140	100			12
	27-Mar	440	71	<0.1	5.5	5.5																		
Monthly Mean		**1,528**	**1,259**	**0.24**	**27**	**27**	**4,650**	**3,350**	**1,300**				**11**		**655**			**8**		**490**	**165**			**17**
Apr	5-Apr	1,400	1,500	0.45	90.0	90.5	2,100	1,500	600	0.73	0.028	<3	10	<3	250	0.88	2.9	7.1	0.12	240	140	31	26	11
	10-Apr	430	53	<0.1	2.8	2.8																		
	17-Apr	450	56	<0.1	4.3	4.3																		
	24-Apr	490	57	<0.1	3.9	3.9																		
Monthly Mean		**693**	**196**	**0.45**	**25**	**25**	**2,100**	**1,500**	**600**	**0.73**	**0.028**	**<3**	**10**	**<3**	**250**	**0.88**	**3**	**7**	**0.12**	**240**	**140**	**31**	**26**	**11**
May	1-May	520	260	0.22	12.0	12.2	440	290	150				5.3		53			1.3		110	19			2.5
	8-May	840	650	<0.1	23.0	23.0	920	600	320				5.1		120			2.6		150	51			3.9
	15-May	500	36	0.11	3.2	3.3	320	50	270				3.1		43			0.8		96	5			0.9
	22-May	1,300	1,500	1.20	27.0	28.2	2,000	1,200	800				20.0		220			3.9		210	56			8.8
	29-May	480	13	0.16	2.4	2.6																		
Monthly Mean		**728**	**181**	**0.42**	**14**	**14**	**920**	**535**	**385**				**8**		**109**			**2**		**142**	**33**			**4**
Jun	5-Jun	330	12	0.16	1.6	1.8																		
	12-Jun	720	2,000	0.26	28	28.3	1,800	1,500	300				5.6		79			2.8		120	48			5.0
	21-Jun	620	47	0.15	2.7	2.9																		
	28-Jun	360	90	0.28	<1.0	1.3																		
Monthly Mean		**508**	**198**	**0.21**	**11**	**9**	**1,800**	**1,500**	**300**				**6**		**79**			**3**		**120**	**48**			**5**
Jul	3-Jul	410	37	0.24	1.9	2.1																		
	10-Jul	2,200	3,300	0.29	120.0	120.3	3,100	2,300	800				48.0		140			23.0		140	550		35	20.0
	17-Jul	2,100	3,600	<0.1	140.0	140.0	2,900	2,200	700				37.0		120			35.0		120	650		35	34.0
	24-Jul	2,300	3,300	0.13	140.0	140.1	2,800	1,800	1,000	19	0.086	81	27.0	<3	150	1.1	28.0	23.0	0.69	110	630	120	37	25.0
	31-Jul	1,400	1,500	<0.1	75.0	75.0	1,800	1,100	700				24.0		140			9.9		120	280		26	15.0
Monthly Mean		**1,682**	**940**	**0.22**	**95**	**96**	**2,650**	**1,850**	**800**	**19**	**0.086**	**81**	**34**		**138**	**1.10**	**28**	**23**	**0.69**	**123**	**528**	**120**	**33**	**24**
Aug	7-Aug	1,300	1,700	0.16	61.0	61.2	1,500	840	660				28.0		91			20.0		87	320		29	14.0
	16-Aug	1,500	1,800	<0.1	74.0	74.0	2,100	1,500	600				13.0		110			11.0		100	390		24	15.0
	21-Aug	1,700	1,600	<0.1	72.0	72.0	2,100	1,400	700	10.0	0.078	310	20.0	<3	100	1.2	17.0	14.0	0.38	100	430	81	24	14.0
	28-Aug	1,400	1,500	<0.1	62.0	62.0	1,700	1,200	500				24.0		99			18.0		99	320		27	12.0
Monthly Mean		**1,475**	**1,650**	**0.16**	**67**	**67**	**1,850**	**1,235**	**615**	**10**	**0.078**	**310**	**21**	**<3**	**100**	**1.2**	**17.0**	**15.8**	**0.38**	**97**	**365**	**81**	**26**	**14**
Sep	4-Sep	1,600	2,100	0.41	95.0	95.4	1,900	1,100	800				21.0		130			21.0		120	350		25	16.0
	11-Sep	1,700	1,900	<0.1	97.0	97.0	2,000	1,400	600				18.0		130			20.0		120	380		28	15.0
	20-Sep	810	1,100	0.36	42.0	42.4	950	600	350				13.0		99			11.0		110	77		17	7.2
	25-Sep	1,600	1,800	0.15	76.0	76.2	1,800	1,200	600				17.0		110			13.0		110	380		23	11.0
Monthly Mean		**1,428**	**1,725**	**0.31**	**78**	**78**	**1,663**	**1,075**	**588**				**17**		**117**			**16**		**115**	**297**		**23**	**12**
Oct	2-Oct	1,400	990	0.23	44.0	44.2																		
	9-Oct	290	12	<0.1	2.6	2.6																		
	16-Oct	310	23	<0.1	2.3	2.3																		
	23-Oct	460	22	<0.1	4.5	4.5																		
Monthly Mean		**615**	**262**	**0.23**	**13**	**13**																		
Nov	1-Nov	490	15	<0.1	2.7	2.7																		
	6-Nov	490	23	<0.1	4.0	4.0																		
	13-Nov	1,100	2,900	0.19	38.0	38.0	2,900	2,500	400				7.5		140			3.9		170	120			6.1
	20-Nov	740	77	<0.1	2.1	2.1																		
Monthly Mean		**705**	**754**	**0.19**	**12**	**12**	**2,900**	**2,500**	**400**				**7.5**		**140**			**3.9**		**170**	**120**			**6.1**
Dec	4-Dec	940	210	<0.1	2.8	2.8																		
	11-Dec	1,100	1,900	0.32	43	43.3	1,900	1,100	800				16.0		130			4.1		160	89			7.9
	18-Dec	800	830	0.15	31.0	31.2	860	540	320				7.2		120			3.0		120	65			4.7
Monthly Mean		**947**	**980**	**0.24**	**26**	**26**	**1,380**	**820**	**560**				**12**		**125**			**4**		**140**	**77**			**6**
ANNUAL MEAN		**957**	**1,166**	**0.30**	**33**	**32**	**1,936**	**1,336**	**600**	**10**	**0.064**	**196**	**16**	**<3**	**160**	**1**	**16**	**11**	**0.40**	**157**	**229**	**77**	**27**	**11**

Del Monte Hanford, CA -- Process Wastewater Quality Data During 2010 - 2013[1,2]

NOTES:
"Blank Cells" = no data
"uhmos/cm" = micromhos/cm
"mg/L" = milligrams per liter (parts per million)
EC = Electrical Conductivity; BOD5 = Five Day Biochemical Oxygen Demand; NO_3-N = Nitrate-Nitrogen; TKN = Total Kjeldahl Nitrogen; Total-N = Total Nitrogen; TDS = Total Dissolved Solids; VDS = Volatile Dissolved Solids; NVDS = Non-Volatile Dissolved Solids; Al = Aluminum; As = Arsenic; HCO_3 = Bicarbonate; Ca = Calcium; CO_3 = Carbonate; Cl = Chloride; F= Fluoride; Fe = Iron; Mg = Magnesium; Mn = Manganese; Na = Sodium; K = Potassium; SiO_2 = Silicon Dioxide; SO_4 = Sulfate; and Total-P = Total Phosphorus.

[1] Composite samples collected at plant pumping station.

[2] All samples analyzed by BSK Analytical Laboratories, Inc., Fresno, CA.

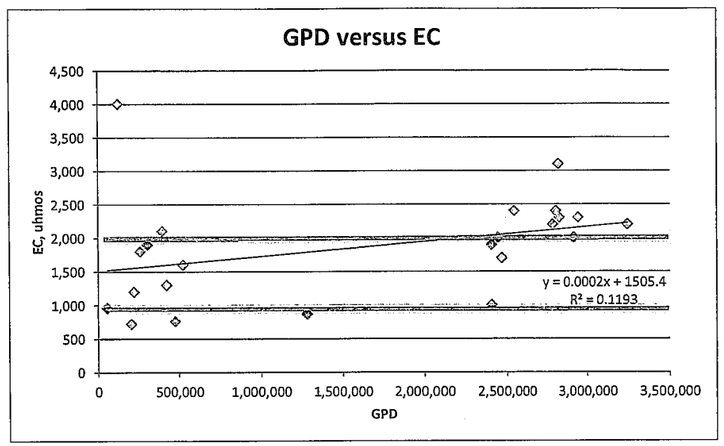
ATTACHMENT #2
TOTAL DAILY PLANT FLOWS VERSUS PROCESS WATER ELECTRICAL CONDUCTIVITY AND TOTAL DISSOLVED SOLIDS

Del Monte Hanford, CA Plant -- Total Daily Flows versus Process Water Electrical Conductivity and Total Dissolved Solids

CY 2010

Sample Date	Flows MGD	Flows GPD	EC uhmos/cm
02/10/10	0.3036	303,600	1,900
03/03/10	0.1240	124,000	4,000
03/17/10	0.5259	525,900	1,600
03/24/10	0.3954	395,400	2,100
04/07/10	0.2590	259,000	1,800
04/21/10	0.4756	475,600	760
05/05/10	0.2028	202,800	720
06/09/10	0.2193	219,300	1,200
07/14/10	1.2798	1,279,800	870
07/21/10	2.4058	2,405,800	1,000
07/30/10	2.4050	2,405,000	1,900
08/06/10	2.9439	2,943,900	2,300
08/11/10	2.8266	2,826,600	2,300
08/20/10	2.8043	2,804,300	2,400
08/25/10	3.2462	3,246,200	2,200
09/01/10	2.8208	2,820,800	3,100
09/08/10	2.9150	2,915,000	2,000
09/17/10	2.7859	2,785,900	2,200
09/22/10	2.4683	2,468,300	1,700
10/01/10	2.5457	2,545,700	2,400
10/06/10	2.4434	2,443,400	2,000
11/17/10	0.4220	422,000	1,300
12/15/10	0.0552	55,200	960

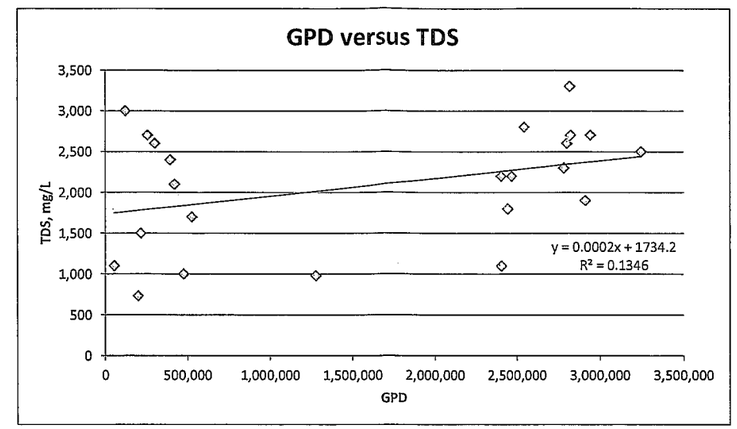
r (21) = 0.345 p > 0.05



CY 2010

Sample Date	Flows MGD	Flows GPD	TDS mg/L
02/10/10	0.3036	303,600	2,600
03/03/10	0.1240	124,000	3,000
03/17/10	0.5259	525,900	1,700
03/24/10	0.3954	395,400	2,400
04/07/10	0.2590	259,000	2,700
04/21/10	0.4756	475,600	1,000
05/05/10	0.2028	202,800	730
06/09/10	0.2193	219,300	1,500
07/14/10	1.2798	1,279,800	980
07/21/10	2.4058	2,405,800	1,100
07/30/10	2.4050	2,405,000	2,200
08/06/10	2.9439	2,943,900	2,700
08/11/10	2.8266	2,826,600	2,700
08/20/10	2.8043	2,804,300	2,600
08/25/10	3.2462	3,246,200	2,500
09/01/10	2.8208	2,820,800	3,300
09/08/10	2.9150	2,915,000	1,900
09/17/10	2.7859	2,785,900	2,300
09/22/10	2.4683	2,468,300	2,200
10/01/10	2.5457	2,545,700	2,800
10/06/10	2.4434	2,443,400	1,800
11/17/10	0.4220	422,000	2,100
12/15/10	0.0552	55,200	1,100

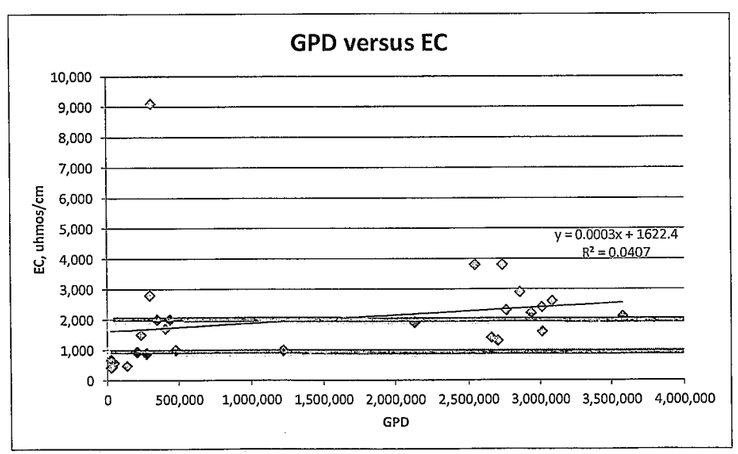
r (21) = 0.367 p > 0.05



CY 2011

Sample Date	Flows MGD	Flows GPD	EC uhmos/cm
01/12/11	0.2952	295,200	2,800
02/09/11	0.2061	206,100	940
04/20/11	0.4057	405,700	1,700
05/11/11	0.3477	347,700	2,000
05/18/11	0.2726	272,600	890
05/25/11	0.4779	477,900	1,000
06/22/11	0.1345	134,500	480
07/13/11	1.2184	1,218,400	990
07/20/11	2.1327	2,132,700	1,900
07/27/11	3.0126	3,012,600	1,600
08/03/11	2.7000	2,700,000	1,300
08/10/11	2.6558	2,655,800	1,400
08/17/11	3.5782	3,578,200	2,100
08/24/11	2.7585	2,758,500	2,300
08/31/11	2.9347	2,934,700	2,200
09/07/11	3.0113	3,011,300	2,400
09/14/11	3.0846	3,084,600	2,600
09/23/11	2.8558	2,855,800	2,900
09/28/11	2.5432	2,543,200	3,800
10/05/11	2.7332	2,733,200	3,800
10/12/11	0.3102	310,200	9,100
11/04/11	0.0484	48,400	570
11/09/11	0.0340	34,000	450
11/16/11	0.4388	438,800	2,000
12/02/11	0.0250	25,000	680
12/07/11	0.0232	23,200	420
12/14/11	0.2328	232,800	1,500

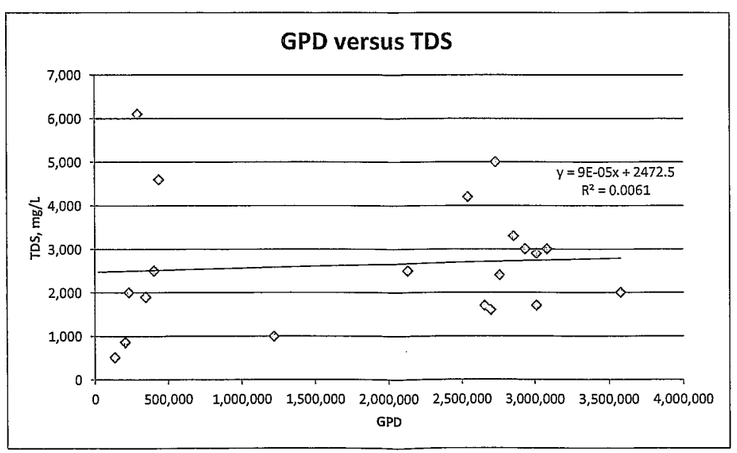
r (25) = 0.202 p > 0.05



CY 2011

Sample Date	Flows MGD	Flows GPD	TDS mg/L
01/12/11	0.2952	295,200	6,100
02/09/11	0.2061	206,100	860
04/20/11	0.4057	405,700	2,500
05/11/11	0.3477	347,700	1,900
05/18/11	0.2726	272,600	
05/25/11	0.4779	477,900	
06/22/11	0.1345	134,500	510
07/13/11	1.2184	1,218,400	990
07/20/11	2.1327	2,132,700	2,500
07/27/11	3.0126	3,012,600	1,700
08/03/11	2.7000	2,700,000	1,600
08/10/11	2.6558	2,655,800	1,700
08/17/11	3.5782	3,578,200	2,000
08/24/11	2.7585	2,758,500	2,400
08/31/11	2.9347	2,934,700	3,000
09/07/11	3.0113	3,011,300	2,900
09/14/11	3.0846	3,084,600	3,000
09/23/11	2.8558	2,855,800	3,300
09/28/11	2.5432	2,543,200	4,200
10/05/11	2.7332	2,733,200	5,000
10/12/11	0.3102	310,200	
11/04/11	0.0484	48,400	
11/09/11	0.0340	34,000	
11/16/11	0.4388	438,800	4,600
12/02/11	0.0250	25,000	
12/07/11	0.0232	23,200	
12/14/11	0.2328	232,800	2,000

r (18) = 0.078 p > 0.05

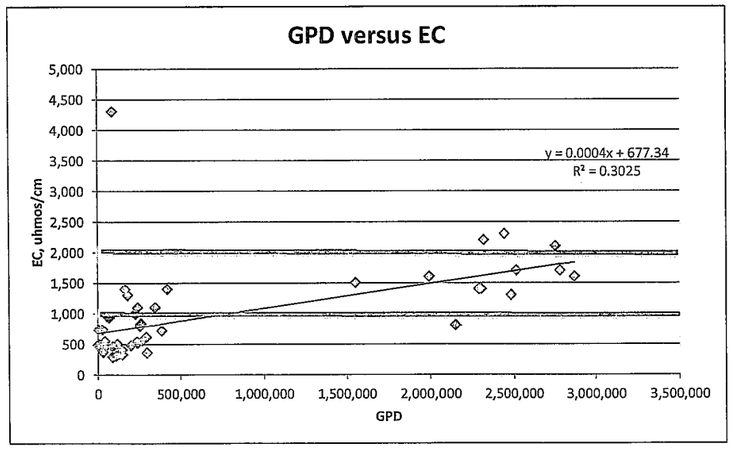


Del Monte Hanford, CA Plant -- Total Daily Flows versus Process Water Electrical Conductivity and Total Dissolved Solids

CY 2013

Sample Date	Flows MGD	Flows GPD	EC uhmos/cm
01/09/13	0.0051	5,100	740
01/18/13	0.0408	40,800	550
01/23/13	0.2342	234,200	540
01/30/13	0.0175	17,500	460
02/06/13	0.0053	5,300	500
02/13/13	0.2671	267,100	560
02/20/13	0.1273	127,300	350
02/27/13	0.0186	18,600	480
03/06/13	0.0302	30,200	370
03/13/13	0.0900	90,000	4,300
03/20/13	0.2272	227,200	1,000
03/27/13	0.0393	39,300	440
04/05/13	0.4189	418,900	1,400
04/10/13	0.0304	30,400	430
04/17/13	0.0359	35,900	450
04/24/13	0.0004	400	490
05/01/13	0.2366	236,600	520
05/08/13	0.2613	261,300	840
05/15/13	0.1158	115,800	500
05/22/13	0.1795	179,500	1,300
05/29/13	0.1985	198,500	480
06/05/13	0.1464	146,400	330
06/12/13	0.3844	384,400	720
06/21/13	0.2910	291,000	620
06/28/13	0.2947	294,700	360
07/03/13	0.1442	144,200	410
07/10/13	2.3166	2,316,600	2,200
07/17/13	2.7529	2,752,900	2,100
07/24/13	2.4420	2,442,000	2,300
07/31/13	2.3026	2,302,600	1,400
08/07/13	2.4823	2,482,300	1,300
08/16/13	1.5523	1,552,300	1,500
08/21/13	2.5141	2,514,100	1,700
08/28/13	2.2881	2,288,100	1,400
09/04/13	2.8704	2,870,400	1,600
09/11/13	2.7816	2,781,600	1,700
09/20/13	2.1463	2,146,300	810
09/25/13	1.9943	1,994,300	1,600
10/02/13	0.1629	162,900	1,400
10/09/13	0.0881	88,100	290
10/16/13	0.1080	108,000	310
10/23/13	0.0881	88,100	460
11/01/13	0.0102	10,200	490
11/06/13	0.0312	31,200	490
11/13/13	0.2400	240,000	1,100
11/20/13	0.0273	27,300	740
12/04/13	0.0675	67,500	940
12/11/13	0.3458	345,800	1,100
12/18/13	0.2531	253,100	800

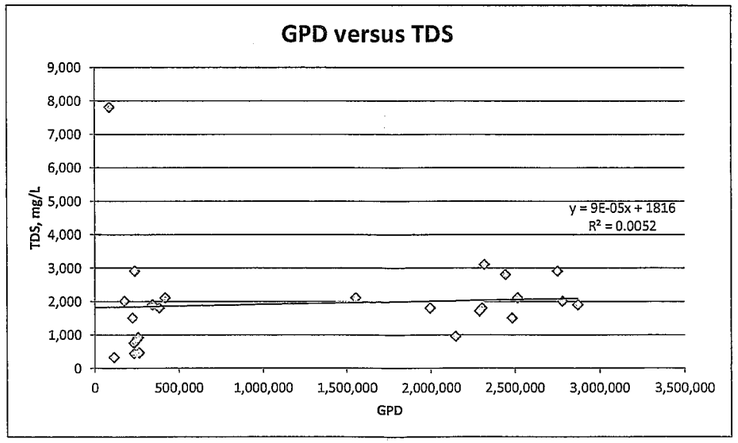
r (47) = 0.550 p < 0.05



CY 2013

Sample Date	Flows MGD	Flows GPD	TDS mg/L
01/09/13	0.0051	5,100	
01/18/13	0.0408	40,800	
01/23/18	0.2342	234,200	750
01/30/13	0.0175	17,500	
02/06/13	0.0053	5,300	
02/13/13	0.2671	267,100	460
02/20/13	0.1273	127,300	
02/27/13	0.0186	18,600	
03/06/13	0.0302	30,200	
03/13/13	0.0900	90,000	7,800
03/20/13	0.2272	227,200	1,500
03/27/13	0.0393	39,300	
04/05/13	0.4189	418,900	2,100
04/10/13	0.0304	30,400	
04/17/13	0.0359	35,900	
04/24/13	0.0004	400	
05/01/13	0.2366	236,600	440
05/08/13	0.2613	261,300	920
05/15/13	0.1158	115,800	320
05/22/13	0.1795	179,500	2,000
05/29/13	0.1985	198,500	
06/05/13	0.1464	146,400	
06/12/13	0.3844	384,400	1,800
06/21/13	0.2910	291,000	
06/28/13	0.2947	294,700	
07/03/13	0.1442	144,200	
07/10/13	2.3166	2,316,600	3,100
07/17/13	2.7529	2,752,900	2,900
07/24/13	2.4420	2,442,000	2,800
07/31/13	2.3026	2,302,600	1,800
08/07/13	2.4823	2,482,300	1,500
08/16/13	1.5523	1,552,300	2,100
08/21/13	2.5141	2,514,100	2,100
08/28/13	2.2881	2,288,100	1,700
09/04/13	2.8704	2,870,400	1,900
09/11/13	2.7816	2,781,600	2,000
09/20/13	2.1463	2,146,300	950
09/25/13	1.9943	1,994,300	1,800
10/02/13	0.1629	162,900	
10/09/13	0.0881	88,100	
10/16/13	0.1080	108,000	
10/23/13	0.0881	88,100	
11/01/13	0.0102	10,200	
11/06/13	0.0312	31,200	
11/13/13	0.2400	240,000	2,900
11/20/13	0.0273	27,300	
12/04/13	0.0675	67,500	
12/11/13	0.3458	345,800	1,900
12/18/13	0.2531	253,100	860

r (23) = 0.072 p > 0.05



NOTES:
"MGD" = Million Gallons
"GPD" = Gallons per Day
"EC" = Electrical Conductivity
"TDS" = Total Dissolved Solids
"mg/L = Milligrams per Liter (Parts per Million)
"uhmos/cm" = Micromhos per Centimeter
"r" = Correlation Coefficient

ATTACHMENT #3
SITE YIELD AND NUTRIENT/ SALT UPTAKE DATA

Site Crop Yield and Nitrogen, Salt, and Potassium Uptake Data for Calendar Years (CY) 2010 - 2013[1]

CY 2010

Crop Yield and Nitrogen Uptake Summary

Crop	Dry Matter Yield		Nitrogen Uptake	
	Average	Range	Average	Range
	(tons/ac)		(lbs/ac)	
Barely	4.0	NA	116	NA
Cotton	1.9	1.5 - 2.4	128	103 - 152
Sorghum	4.6	3.0 - 11.8	140	96 - 274
Wheat (Grain Only)	2.6	NA	142	NA
Wheat	3.6	2.8 - 4.5	73	59 - 90

CY 2011

Crop Yield and Nitrogen Uptake Summary

Crop	Dry Matter Yield		Nitrogen Uptake	
	Average	Range	Average	Range
	(tons/ac)		(lbs/ac)	
Alfalfa	1.97	NA	114	NA
Barley	NA	NA	NA	NA
Cotton	0.6	0.5 - 0.7	40	35 - 44
Sorghum	6.1	3.4 - 9.5	189	107 - 304
Sudan Grass	3.2	NA	127	NA
Wheat	4.0	1.2 - 8.2	101	28 - 219

Site Crop Yield and Salt Uptake Summary CY 2013

Crop	Dry Matter Yield		Salt Uptake		Potassium Uptake	
	Average	Range	Average	Range	Average	Range
	(tons/ac)		(lbs/ac)		(lbs/ac)	
Alfalfa	5.90	--	1,405	--	415	--
Cotton	2.00	--	204	--	44	--
Sorghum	5.27	4.61 - 5.92	899	577 - 1,134	253	199 - 331
Sudan Grass	1.72	0.44 -2.36	424	77 - 661	126	71 - 158
Wheat (Grain)	2.15	1.33 - 2.95	274	11 - 620	23	11 - 34
Wheat Straw	0.86	0.72 - 1.37	91	24 - 156	54	31 - 87
Wheat (Silage)	3.94	3.08 - 4.66	1,508	690 - 2,712	173	134 - 219

CY 2012

Crop Yield and Nitrogen Uptake Summary

Crop	Dry Matter Yield		Nitrogen Uptake	
	Average	Range	Average	Range
	(tons/ac)		(lbs/ac)	
Cotton	2.01	2.00 - 2.01	126	124 - 127
Sorghum	4.9	3.19 - 5.75	152	88 - 172
Sudan Grass	0.33	NA	11	9 - 13
Wheat	4.21	2.37 - 5.54	87	46 - 137

CY 2013

Crop Yield and Nitrogen Uptake Summary

Crop	Dry Matter Yield		Nitrogen Uptake	
	Average	Range	Average	Range
	(tons/ac)		(lbs/ac)	
Alfalfa	5.90	NA	368	NA
Cotton	2.00	NA	136	NA
Sorghum	5.27	4.61 - 5.92	152	111 - 190
Sudan Grass	1.72	0.44 - 2.36	63	22 - 83
Wheat (Grain)	2.15	1.33 - 2.95	111	67 - 155
Wheat (Silage)	3.94	3.08 - 4.66	113	91 - 148

Yield and N Uptake Comparisons for 2010-2013

Crop	Mean Yield	Mean N Uptake (2010-13)		EPA Potential N Uptake***
	tons/ac	lbs/acre	lbs N/ton	lbs/ac
Barely	4.0	116	29	59
Cotton (lint)	1.6	108	68	No Data
Sorghum	5.2	158	30	120
Sudan Grass	1.8	67	37	136
Wheat	3.9	94	24	70
Wheat plus Sorghum	9.9	259	26	190

******Source: United States Environmental Protection Agency. 2006. Process Design Manual. Land Treatment of Municipal Wastewater Effluents. EPA/625/R-06/016.***

NOTES:
"NA" = Not Applicable (no range in yield and nitrogen uptake).
"CY" = Calendar year.
[1] Crop yield and nitrogen uptake summary based on Del Monte's Process Wastewater Annual Monitoring Reports for 2010 - 2013 (Del Monte, 2011 thru 2014).