

YOLO-SOLANO AIR QUALITY MANAGEMENT DISTRICT

1947 Galileo Court, Suite 103; Davis, CA 95618

Emission Evaluation

ENGINEER:	Courtney Graham	ATC #	<u>C-10-42</u>
FACILITY NAME:	Recology Hay Road	SIC Code #	<u>4953</u>
LOCATION:	The equipment is located at 6426 Hay Road in Vacaville. The equipment is not located within 1,000 feet of a K-12 school and is not subject to the requirements of H&S 42301.6.	UTM E	_____ km
PROPOSAL:	The applicant is proposing to permit an existing receiving, storage and drying of non-hazardous liquid waste with odor potential operation.	UTM N	_____ km
PROCESS:	Recology has an existing operation in which they receive digested biosolid material and store it in waste pile 9, which is a lined containment pond. The solids are then excavated and dried on the adjacent land treatment unit (LTU), or on top of lined waste disposal modules. In the wet season, the biosolids follow the mentioned procedure, but in the dry season, biosolids may be unloaded directly onto a drying area. After being dried, the biosolids are mixed with clean soil and then stockpiled and covered with more clean soil. The final product is then used in part of the base of newly constructed waste cells, underneath the lining.		
FLOW DIAGRAM:	See application		
EQUIPMENT:	Waste pile 9 (approximately 7 acre lined containment pond) and various drying areas, including 2 adjacent drying areas and drying on top of lined waste cells.		
CONTROL EQUIPMENT:	None		

APPLICATION DATA:

	<u>Units</u>	<u>Formula Symbol</u>	<u>Reference</u>
Daily Throughput =	1,000 tons	Td	Applicant
1st Quarter Throughput =	27,000 tons	T1	Applicant
2nd Quarter Throughput =	18,000 tons	T2	Applicant
3rd Quarter Throughput =	10,000 tons	T3	Applicant
4th Quarter Throughput =	26,000 tons	T4	Applicant
Yearly Throughput =	81,000 tons	Ty	Applicant

ASSUMPTIONS:

	<u>Units</u>	<u>Formula Symbol</u>	<u>Reference</u>
Density of digested biosolids =	8.34 lb/gallon	DE	Applicant*

*The biosolids are received at approximately 85% moisture content, therefore the weight of water will be conservatively used.

EMISSION FACTORS:

<u>Wastewater Treatment</u>	<u>Units</u>	<u>Formula Symbol</u>	<u>Reference</u>
Headworks Receiving =	0.1 lb/year-million gallons-day	E1	Tri-TAC Guidance, 1994 ^a
Grit Removal =	7.0 lb/year-mgd	E2	Tri-TAC Guidance, 1994 ^b
Primary Sedimentation =	- lb/year-mgd	E3	Tri-TAC Guidance, 1994 ^c
Flow Equalization =	- lb/year-mgd	E4	Tri-TAC Guidance, 1994 ^d
Diffused Air Activated Sludge =	- lb/year-mgd	E5	Tri-TAC Guidance, 1994 ^e
Mechanically Aerated Sludge =	- lb/year-mgd	E6	Tri-TAC Guidance, 1994 ^f
Sludge Dewatering =	60.0 lb/year-mgd	E7	Tri-TAC Guidance, 1994 ^g
Open Solids Handling =	10.0 lb/year-mgd	E8	Tri-TAC Guidance, 1994 ^h
Total VOC =	77.1 lb/year-mgd	EFvoc	E1+E2+E3+E4+E5+E6+E7+E8

^a. The digested biosolids get dumped into the pond, therefore this factor would apply. Per Tri-TAC's Section 3.4.1.1, the headworks process includes waste screening, flow metering, septage dumping, and pumping activities.

^b. The digested biosolids are pumped into the lined treatment pond, where the dense material is allowed to settle. Per Tri-TAC's Section 3.4.1.2, the nonaeration grit removal is a nonaerated settling process that allows the dense grit to settle while less dense material remains suspended. The settled solids will periodically be manually removed and laid out to dry.

^c. The process will not remove settleable solids using mechanical rakes and pumps, therefore the "primary sedimentation" emission factor (Section 3.4.1.3) does not apply.

^d. The process does not move liquids from the pond, therefore this factor is not applicable.

- ^e. The pond is not equipped with a system that diffuses large volumes of oxygen into the pond. As such, the "diffused air activated sludge" emission factor of Section 3.4.2.1 does not apply.
- ^f. The pond does not have aeration. As such, the "mechanical aerated activated sludge" emission factor of Section 3.4.2.1 does not apply.
- ^g. Although the source will not dewater the settled sludge mechanically using belt presses, the District will conservatively use the "enclosed solids handling - belt press" emission factor of Section 3.4.4.1. Specifically, the source will instead allow the liquid to evaporate prior to manually scraping the waste from the pond floor.
- ^h. At various steps in the process, the source will handle solids removed from the pond. As such, the general "opens solids handling" emission factor applies.

	<u>Units</u>	<u>Formula Symbol</u>	<u>Reference</u>
VOC	77.1 lb/year-mgd	EFvoc	see above

EMISSION CALCULATIONS:

1. Determine VOC Emissions:

Max Daily VOC Emissions = $Td * 2000 / DE * EFvoc / 365 / 1e6 =$	0.1 lb/day
1st Quarter VOC Emissions = $T1 * 2000 / DE * EFvoc / 365 / 1e6 =$	1 lb/quarter
2nd Quarter VOC Emissions = $T2 * 2000 / DE * EFvoc / 365 / 1e6 =$	1 lb/quarter
3rd Quarter VOC Emissions = $T3 * 2000 / DE * EFvoc / 365 / 1e6 =$	1 lb/quarter
4th Quarter VOC Emissions = $T4 * 2000 / DE * EFvoc / 365 / 1e6 =$	1 lb/quarter
Max Yearly VOC Emissions = $(T1 * 2000 / DE * EFvoc / 365 / 1e6) * (1 \text{ ton} / 2,000 \text{ lb}) =$	0.00 tons/year

RULE & REGULATION COMPLIANCE EVALUATION:

District Rule 2.3-Ringelmann

Visible emissions from the operation are expected to comply with the 20% opacity rule limit.

District Rule 2.5-Nuisance

The operation is expected to comply with the rule requirement of no discharge which causes injury, detriment, nuisance, or annoyance to any considerable number of persons or the public. A condition will not be placed on the ATC, but will be added to the PTO upon implementation.

District Rule 3.2-Exemptions

Although the VOC emissions from the proposed biosolids operation will never exceed two (2) pounds in any 24 hour period, the District has determined that the operation may not operate in compliance with District Rules and Regulations without an air quality permit. Per the provisions of Section 100.4 of Rule 3.2, the District considers the proposed process subject to permitting. Specifically, the permit will require the monitoring and the control of odors from the existing receiving pond.

District Rule 3.4-New Source Review

PROPOSED EMISSION SUMMARY FOR NEW OR MODIFIED PERMIT

	<u>Daily</u>	<u>Yearly</u>	
VOC	0.1 lb	0.00 tons	Use for annual billing
CO	0.0 lb	0.00 tons	Use for annual billing
NOx	0.0 lb	0.00 tons	Use for annual billing
SOx	0.0 lb	0.00 tons	Use for annual billing
PM10	0.0 lb	0.00 tons	Use for annual billing

	<u>Quarterly</u>			
	<u>1st</u>	<u>2nd</u>	<u>3rd</u>	<u>4th</u>
VOC (lb)	1	1	1	1
CO (lb)	0	0	0	0
NOx (lb)	0	0	0	0
SOx (lb)	0	0	0	0
PM10 (lb)	0	0	0	0

Previous quarterly potential to emit for modified permit*

	<u>1st</u>	<u>2nd</u>	<u>3rd</u>	<u>4th</u>
VOC (lb)	0	0	0	0
CO (lb)	0	0	0	0
NOx (lb)	0	0	0	0
SOx (lb)	0	0	0	0
PM10 (lb)	0	0	0	0

* This is a new emissions unit, therefore there is no previous potential to emit (PTE).

Historic potential emissions for modified permit*

	<u>1st</u>	<u>2nd</u>	<u>3rd</u>	<u>4th</u>
VOC (lb)	0	0	0	0
CO (lb)	0	0	0	0
NOx (lb)	0	0	0	0
SOx (lb)	0	0	0	0
PM10 (lb)	0	0	0	0

* This is a new emissions unit, therefore there are no historic potential emissions.

<u>Pollutant</u>	<u>Trigger (lb/day)</u>	<u>BACT</u>		<u>Quarterly Increase</u>	<u>BACT</u>
		<u>Proposed (lb/day)</u>			
VOC	10	0		Yes	No
CO	250	0		No	No
NOx	10	0		No	No
SOx	80	0		No	No
PM10	80	0		No	No

OFFSETS

Quarterly permitted emissions for other permits at the stationary source*

	<u>1st</u>	<u>2nd</u>	<u>3rd</u>	<u>4th</u>
VOC (lb)	24,025	24,219	24,414	24,414
CO (lb)	19,699	19,918	20,137	20,137
NOx (lb)	4,925	4,980	5,034	5,034
SOx (lb)	13,600	13,600	13,600	13,600
PM10 (lb)	2,057	2,075	2,094	2,094

* See attached facility PTE sheet

Quarterly permitted emissions for the stationary source including proposed emissions

	<u>1st</u>	<u>2nd</u>	<u>3rd</u>	<u>4th</u>
VOC (lb)	24,026	24,220	24,415	24,415
CO (lb)	19,699	19,918	20,137	20,137
NOx (lb)	4,925	4,980	5,034	5,034
SOx (lb)	13,600	13,600	13,600	13,600
PM10 (lb)	2,057	2,075	2,094	2,094

Offset triggers

	<u>1st</u>	<u>2nd</u>	<u>3rd</u>	<u>4th</u>
VOC (lb)	7,500	7,500	7,500	7,500
CO (lb)	49,500	49,500	49,500	49,500
NOx (lb)	7,500	7,500	7,500	7,500
SOx (lb)	13,650	13,650	13,650	13,650
PM10 (lb)	13,650	13,650	13,650	13,650

Quantity of offsets required*

	<u>1st</u>	<u>2nd</u>	<u>3rd</u>	<u>4th</u>
VOC (lb)	1	1	1	1
CO (lb)	0	0	0	0
NOx (lb)	0	0	0	0
SOx (lb)	0	0	0	0
PM10 (lb)	0	0	0	0

*Per Policy 21, the District considers emissions changes below 50 lbs in any quarter to be zero.

MAJOR MODIFICATION

Facility Total Potential to Emit*

48.55 TPY VOC
39.97 TPY CO
10.12 TPY NOx
27.21 TPY SOx
4.18 TPY PM10

Major Source Thresholds

25 TPY VOC
100 TPY CO
25 TPY NOx
100 TPY SOx
100 TPY PM10

*See attached facility PTE sheet

Last five year emission aggregate*

11.41 TPY VOC
39.97 TPY CO
10.12 TPY NOx
14.39 TPY SOx
3.36 TPY PM10

Major Modification Thresholds

25 TPY VOC
100 TPY CO
25 TPY NOx
40 TPY SOx
25 TPY PM10

*See attached five year aggregate sheet

Result: The proposed modification is not a major modification

PUBLIC NOTICE

"Increase in historic potential to emit"

1 lb VOC/quarter
0 lb CO/quarter
0 lb NOx/quarter
0 lb SOx/quarter
0 lb PM10/quarter

Exemption level for notification

7,500 lb VOC/quarter
49,500 lb CO/quarter
7,500 lb NOx/quarter
13,650 lb SOx/quarter
13,650 lb PM10/quarter

Result: Public notice is not required

District Rule 3.8-Federal Operating Permits

The source is subject to the rule pursuant to Section 102.5, and is operating under a valid Title V permit. For reference, Section 102.5 requires that sources subject to Section 111 of the Federal Clean Air Act (CAA) comply with this rule. The facility's current Title V permit (F-01392-2) was issued on August 20, 2007, and will be amended to incorporate the process and emission limits evaluated for this application.

The source has requested that the District process the Title V amendments and this application concurrently through the provisions of Enhanced New Source Review. Section 302.6(b) of the rule requires that the source maintain all records on site for a period of five (5) years from the date of entry and make these records readily available to the District upon request.

District Rule 3.20-Ozone Transport Mitigation

As documented above, the facility total potential to emit is above 10 tons per year for VOC or NOx, and therefore the post-project Stationary Source Potential to Emit (SSPE) will be calculated.

Annual permitted emissions for the stationary source including proposed emissions

VOC (lb) 97,092 lbs
NOx (lb) 20,244 lbs

Annual permitted emissions for equipment which is exempt from Rule 3.4*

VOC (lb) 20 lbs
NOx (lb) 271 lbs

* From PTO P-86-06 for an emergency engine

Post-project Stationary Source Potential to Emit (SSPE)

VOC (lb) 97,072 lbs
NOx (lb) 19,973 lbs

Because the post-project SSPE is greater than 10 tons (20,000) lbs per year for VOC or NOx, per section 301.1, calculations shall be performed to determine the quantity of mitigation required, if any.

Pre-project Stationary Source Potential to Emit (SSPE)

VOC (lb) 97,072 lbs
NOx (lb) 19,973 lbs

Quantity of offsets required by Rule 3.4

VOC (lb) 0 lbs
NOx (lb) 0 lbs

Quantity of Mitigation required by Rule 3.20

VOC (lb) 0 lbs
NOx (lb) 0 lbs

District Risk Management Plan and Risk Assessment Guidelines (RMPRAG)

Because the application results in an increase of hazardous air pollutant (HAP) emissions, a screening risk assessment (prioritization) will be performed.

1. Emission factors from Tri-TAC Guidelines (1994):

Hazardous Air Pollutant	Headworks Receiving ^a (lb/yr-mgd)	Grit Removal ^b (lb/yr-mgd)	Open Solids Handling ^c (lb/yr-mgd)	Total Emission Factor (lb/yr-mgd)
Benzene	0.10	0.30	-	0.4
Ethyl Benzene	-	0.21	-	0.2
Toluene	-	0.059	240.0	240.1
Xylenes	-	0.016	290.0	290.0
1,1,1-Trichloroethane	-	0.15	-	0.2
Chloroform	-	0.066	-	0.1
Methylene Chloride	-	0.070	-	0.1
Tetrachloroethylene	-	0.18	-	0.2
Acetone	-	0.81	-	0.8
Methyl Ethyl Ketone	-	0.16	-	0.2
Methyl N-Butyl Ketone	-	0.15	-	0.2

^a Emission factor from Section 3.4.1.1 - Preliminary Treatment: Headworks

^b Emission factor from Section 3.4.1.2 - Preliminary Treatment: Grit Removal

^c Emission factor from Section 3.4.4.2 - Solids Handling: Open Solids Handling

2. Yearly HAP Emissions:

Hazardous Air Pollutant	Emission Factors (lb/yr-mgd)	Total HAPS ^a (lb/year)	Screening Level (lb/year)	Less than Screening (Yes/No)
Benzene	0.4	0.02	6.7	Yes
Ethyl Benzene	0.2	0.01	193,000	Yes
Toluene	240.1	12.78	38,600	Yes
Xylenes	290.0	15.43	57,900	Yes
1,1,1-Trichloroethane	0.2	0.01	61,800	Yes
Chloroform	0.1	0.00	36.0	Yes
Methylene Chloride	0.1	0.00	367	Yes
Tetrachloroethylene	0.2	0.01	33.0	Yes
Acetone	0.8	0.04	-	Yes
Methyl Ethyl Ketone	0.2	0.01	140,000	Yes
Methyl N-Butyl Ketone	0.2	0.01	-	Yes

Because none of the emissions from any HAPs were above the prioritization level, a screening health risk assessment was not performed for this application.

COMMENTS:

The application does not trigger BACT, T-BACT, or offsets. The application will require noticing per Title-V permitting requirements.

To ensure the source's compliance with the findings of this evaluation, the following requirements will be placed on the permit as part of New Source Review (Rule 3.4):

- The facility shall implement and maintain an odor control plan for prevention of nuisance odors. The plan shall be updated as necessary, or as required by the District, and any changes to the plan shall be approved by the District prior to implementation.

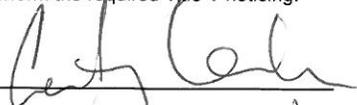
- The Permit Holder shall maintain daily records (in gallons) of the amount of septage received.

The following condition has been discussed above and will be placed on the permit:

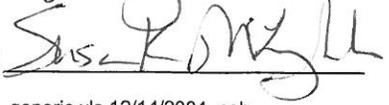
- The Permit Holder shall maintain all records on site for a period of five (5) years from the date of entry and these records shall be made readily available to District personnel upon request. [District Rule 3.8, §302.6(b)]

RECOMMENDATIONS:

Perform the required Title V noticing.

Engineer: 

Date: 12/2/10

Reviewed by: 

Date: 12/2/10

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YOLO-SOLANO AIR QUALITY MANAGEMENT DISTRICT
1947 Galileo Court, Suite 103, Davis, CA 95618

New Source Review
Quarterly Potential To Emit Determination
NSR Version: 08/13/1998

Evaluation to be used on existing permits to obtain their quarterly PTE.

Engineer: Courtney Graham SIC Code # 4953

Facility Name: Recology Hay Road (formerly Norcal Waste Systems Hay Road Landfill, Inc.) Date of Initial Quarterly PTE Determination: 4/23/2002

Location: 6426 Hay Road, Vacaville, CA 95687 Date of Previous Quarterly PTE Determination: 01/28/2010

CURRENT APPLICATIONS: Date of Current Quarterly PTE Determination: 11/24/2010

ATC's
C-10-42

PTO's

Process Description	VOC Emissions				CO Emissions				NOx Emissions				SOx Emissions				PM10 Emissions				
	QTR 1	QTR 2	QTR 3	QTR 4	QTR 1	QTR 2	QTR 3	QTR 4	QTR 1	QTR 2	QTR 3	QTR 4	QTR 1	QTR 2	QTR 3	QTR 4	QTR 1	QTR 2	QTR 3	QTR 4	Annual (TPY)
Gasoline Storage & Dispensing: Non-Retail	5	5	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Petroleum Contaminated Soil Operations	6,500	6,500	6,500	6,500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-hazardous liquid waste	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Landfill Fugitive Emissions	16,956	17,147	17,335	17,335	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C-10-34 ²	17,520	17,714	17,909	17,909	19,699	19,918	20,137	20,137	4,925	4,980	5,034	5,034	13,600	13,600	13,600	13,600	1,655	1,673	1,692	1,692	6,361
PRE-PROJECT SSPE ³ (lbs)	24,025	24,216	24,414	24,414	19,699	19,918	20,137	20,137	4,925	4,980	5,034	5,034	13,600	13,600	13,600	13,600	2,057	2,075	2,094	2,094	8,351
POST-PROJECT SSPE ³ (lbs)	24,026	24,220	24,415	24,415	19,699	19,918	20,137	20,137	4,925	4,980	5,034	5,034	13,600	13,600	13,600	13,600	2,057	2,075	2,094	2,094	8,351
Emergency/C Engine (150 BHP)	20	20	20	20	54	54	54	54	271	271	271	271	12	12	12	12	6	6	6	6	24
P-86-06	24,045	24,239	24,434	24,434	19,753	19,972	20,191	20,191	5,196	5,251	5,305	5,305	13,612	13,612	13,612	13,612	2,063	2,081	2,099	2,099	8,351
PRE-PROJECT TOTAL PTE ⁴	24,046	24,240	24,435	24,435	19,753	19,972	20,191	20,191	5,196	5,251	5,305	5,305	13,612	13,612	13,612	13,612	2,063	2,081	2,099	2,099	8,351
POST-PROJECT TOTAL PTE ⁴	24,046	24,240	24,435	24,435	19,753	19,972	20,191	20,191	5,196	5,251	5,305	5,305	13,612	13,612	13,612	13,612	2,063	2,081	2,099	2,099	8,351

¹ Per EPA's comments received on a similar project, the District has revised the PTE of PTO P-85-06(a1) to reflect the maximum permitted throughput (instead of the projected future throughput).

² As proposed, ATC C-10-34 modifies PTO P-85-06(a1) and will supercede ATC C-10-07, which superceded ATC C-09-87.

³ Per the requirements of Rule 3.20, the facility's pre- and post-project Stationary Source Potential to Emit (SSPE) calculations do not include any emissions from permitted emergency equipment.

⁴ The facility's pre- and post-project Total Potential to Emit (PTE) calculations include all permitted equipment operating at the site.

Post-Project Stationary Source Potential to Emit (SSPE)

	Quarter #1	Quarter #2	Quarter #3	Quarter #4	Yearly
VOC (lbs)	24,026	24,220	24,415	24,415	97,072
CO	19,699	19,918	20,137	20,137	79,891
NOx	4,925	4,980	5,034	5,034	19,973
SOx	13,600	13,600	13,600	13,600	54,400
PM10	2,057	2,075	2,094	2,094	8,351

MITIGATION THRESHOLDS

Yearly (lbs/year)	Yearly (lbs/year)
20,000	20,000
20,000	20,000
-	-
-	-

SSPE Comparison to Rule 3.20 Triggers

Annual	Annual
Above	Above
-	-
Below	Below
-	-

Post-Project Total Quarterly Potential to Emit (PTE)

	Quarter #1	Quarter #2	Quarter #3	Quarter #4	Yearly
VOC (lbs)	24,046	24,240	24,435	24,435	97,156
CO	19,753	19,972	20,191	20,191	79,907
NOx	5,196	5,251	5,305	5,305	20,057
SOx	13,612	13,612	13,612	13,612	54,450
PM10	2,063	2,081	2,099	2,099	8,351

OFFSET THRESHOLDS

Quarterly (lbs/qr)	Quarterly (lbs/qr)
7,500	7,500
49,500	49,500
7,500	7,500
13,650	13,650
13,650	13,650

PTE Comparison to NSR Triggers

Quarter #1	Quarter #2	Quarter #3	Quarter #4
Above	Above	Above	Above
Below	Below	Below	Below
Below	Below	Below	Below
Below	Below	Below	Below
Below	Below	Below	Below

COMMENTS: This quarterly PTE evaluation was updated for ATC C-10-42.

Engineer: 

Reviewed by: 

Date: 12/2/10

Date: 12/2/10

YOLO-SOLANO AIR QUALITY MANAGEMENT DISTRICT
1947 Galileo Court, Suite 103; Davis, CA 95618

**New Source Review
Last Five Year Activity**

Evaluator: René Toledo

SIC Code # 4953

Facility Name: Recology Hay Road (formerly Norcal Waste Systems Hay Road Landfill, Inc.)

Date of Initial Determination: 04/23/2002

Date of Previous Determination: 09/17/2009

Date of Current Determination: 11/30/2010

Location: 6426 Hay Road; Vacaville, CA

Process	Issued Permits	Date PTO Issued	ATC	Date ATC Issued	VOC (tpy)	CO (tpy)	NOx (tpy)	SOx (tpy)	PM10 (tpy)
Gasoline Storage and Dispensing	P-28-98	07/27/1998	C-98-25	03/29/1998	0.01	0.00	0.00	0.00	0.00
Limited Use Diesel IC Engine (140 BHP)	P-34-00 ^a	06/21/2000	C-99-34	11/15/1999	-	-	-	-	-
Limited Use Diesel IC Engine (140 BHP)	P-35-00	-	C-99-33	11/16/1999	0.08	2.68	1.32	0.05	0.04
Limited Use Diesel fired IC Engine (250 BHP)	P-36-00	06/21/2000	C-99-25	11/16/1999	0.32	13.30	6.56	0.05	0.89
Emergency Diesel IC Engine (80 BHP)	P-37-00	06/21/2000	C-99-24	11/15/1999	0.02	0.05	0.25	0.02	0.02
Limited Use Diesel fired IC Engine (115 B HP)	P-24-00 ^a	06/21/2000	C-00-08	03/28/2000	-	-	-	-	-
Contaminated Soil Usage	P-64-00	12/15/2000	C-99-134	06/27/2000	13.00	0.00	0.00	0.00	0.82
Fugitive Landfill Gas Emissions	P-85-06	06/07/2007	C-05-88	03/02/2007	11.40	0.00	0.00	0.00	0.00
Emergency IC Engine (147 BHP)	P-86-06	06/07/2007	C-06-119	03/02/2007	0.01	0.03	0.13	0.01	0.00
Fugitive Landfill Gas Emissions ^d	P-85-06(a1)	05/12/2009	C-08-41	12/12/2008	24.13	0.00	0.00	0.00	0.00
Fugitive Landfill Gas Emissions	-	-	C-09-87 ^b	11/05/2009	-	-	-	-	-
Fugitive Landfill Gas Emissions	P-85-06(a2)	-	C-10-34 ^b	PENDING	0.00	39.95	9.99	14.39	3.36
Non Hazardous liquid waste			C-10-42	Pending	0.00	0.00	0.00	0.00	0.00
TOTAL ^c					11.41	39.97	10.12	14.39	3.36

^a. Administrative permit holder name change from "Norcal Waste Systems Hay Road Landfill, Inc." to "Jepson Prairie Organics Compost" processed on 09/22/2006. The emissions from these permits are no longer associated with Norcal Waste's operation.

^b. As proposed, ATC C-10-07 modifies PTO P-85-06(a1) and will supersede ATC C-09-87.

^c. All decreases in PTE are treated as zero net change and not included in the Total 5-Year Aggregate summation.

^d. The VOC emissions change associated with this permit was due to a calculational change required by EPA, therefore, this is not a creditable increase.

COMMENTS: These permits are sorted by the ATC issuance date. According to Rule 3.4, Section 221, a major modification is calculated based on all creditable increases and decreases from the source over the period of five consecutive years before the application, including the calendar year of the most recent application. The applicable period ranges from November 2005 to the present date.

Engineer: [Signature]

Date: 12/2/10

Reviewed by: [Signature]

Date: 12/2/10