

The field crew will plan to be in the out again early next week (6/08), assuming that we are still under dry weather conditions. If an illicit discharge is observed during our future outfall inspections, it will be immediately reported to VTrans and the Vermont HAZMAT, if determined to be necessary.

VHB Pioneer will provide another field status report for the week ending 06/19/09 documenting our work completed during this time.

VTrans IDDE
 Chittenden County, VT
 Outfall Inventory Checklist
 Prepared by: VHB Pioneer
 June 5, 2009

Town:	Roadways Included:	Number of Outfalls:	Outfalls Inventoried:	Percent Completed:	Notes:
Shelburne	US-7	30	30	100%	Shelburne Road (US-7) is finished.
South Burlington	US-7, I-189, I-89, VT-116, Williston Rd	133	88	66%	Shelburne Road (US-7) is finished.
Burlington	I-189	5	5	100%	Finished
Essex	I-289, VT-15, VT-117, VT- 15, US-2A	65	61	94%	VT-117 is near completion.
Colchester	US-7, VT-15	33	0	0%	
Williston	US-2, US-2A, Industrial Ave	42	42	100%	US-2, Industrial Avenue are Finished; US-2A near completion.
Winooski	I-89	22	0	0%	
Milton	US-7	2	0	0%	
Totals:	-----	332	226	68.07%	-----

VHB Pioneer will provide a field status report for the week ending 07/03/09. VHB Pioneer anticipates that the remaining field work will be completed by this time and preparation of the final report will have begun. VHB Pioneer will provide a draft copy of the report to VTrans as soon as it's available for distribution.

VTrans IDDE
 Chittenden County, VT
 Outfall Inventory Checklist
 Prepared by: VHB Pioneer
 June 19, 2009

Town:	Roadways Included:	Number of Outfalls:	Outfalls Inventoried:	Percent Completed:	Notes:
Shelburne	US-7	30	30	100%	Shelburne Road (US-7) is finished.
South Burlington	US-7, I-189, I-89, VT-116, Williston Rd	133	123	92%	Shelburne Road (US-7) is finished.
Burlington	I-189	5	5	100%	Finished
Essex	I-289, VT-15, VT-117, VT- 15, US-2A	65	64	98%	Finished
Colchester	US-7, VT-15	33	3	9%	I-89 and US-7 to finish
Williston	US-2, US-2A, Industrial Ave	42	42	100%	Finished
Winooski	I-89	22	13	59%	Continuing along I-89
Milton	US-7	2	0	0%	
Totals:	-----	332	280	84.34%	-----

Therrien, Jesse

From: Therrien, Jesse
Sent: Wednesday, July 01, 2009 4:33 PM
To: 'Digiammarino, Craig'
Cc: Sky, Josh
Subject: VTrans IDDE - Bi-weekly Update and Overall Project Update

Hello, Craig –

This email is to serve as a update for the Vermont Agency of Transportation (VTrans) Illicit Discharge Detection and Elimination (IDDE) project. Last week VHB Pioneer (VHBP) field personnel finished the IDDE outfall assessment portion of the project. In total, 305 of the proposed 332 priority outfalls were inventoried. Twenty-seven outfalls were deemed as either “missing” or “could not be located” by VHBP field personnel. With the amount of effort spent searching for these outfalls with the GPS technology used in the field, coupled with the VTrans database not having complete data for these outfalls, we are confident that all existing outfalls were inventoried as part of this effort. Nearly all of these “missing” outfalls were shown along the Interstate 89 (I-89) corridor, including areas where recent construction has taken place such as the “clover leaf” area in South Burlington and the area near St. Michael’s College in Winooski.

No definite illicit discharges were discovered throughout the entire outfall assessment effort process. VHBP field personnel inventoried forty-three (14% of total) high priority outfalls that scored as either “potential” or higher score. A total of four (1% of total) outfalls inventoried scored as “suspect”. These were located US-7 in Shelburne and South Burlington, and also on I-89 in South Burlington. Thirty out of the forty-three (69%) high priority outfalls found were located in the Town of Shelburne and City of South Burlington along the US-7 (Shelburne Road), I-189 and I-89 corridor. The poor outfall scores were as a result of the poor pool quality (e.g. slight oil sheen in pool or faint amount of suds) found at the outlet, with no other indicators of an illicit discharge present. Based on the review of where “potential” or “suspect” outfalls were found, we have modified our GIS model to better capture areas such as these as high priority. As part of the Phase II IDDE field investigation, a secondary round of outfall assessments, with a focus on a portion or all of the forty-three high priority outfalls that scored a “potential” or higher score would be completed. This additional assessment would involve a more thorough analysis of the outfalls in question. It would also include the addition of water quality sampling at outfalls of most concern (e.g. petroleum smell, suds, or oil sheen in the pool) to ensure no illicit discharges (e.g. non-stormwater flows) are present. The water quality sampling would certainly include the four outfalls scored as “suspect”, and would also include a subset of the most severe outfalls within the “potential” category. VHBP can make this recommendation to VTrans as part of the final report process.

Another option moving forward would be to take a look at the “left over” or remaining outfalls in the MS-4 study area. This analysis using the revised GIS model would be focused on areas where the highest percentage of “potential” or higher scoring outfalls were located, excluding the completed US-7/I-189 area. In total, there are approximately 220 outfalls located within the MS-4 study area (Chittenden County) that are located in more rural areas that were not inventoried as part of this field effort. The outfalls are broken down by town as follows; Essex – 123, Jericho – 40, Milton – 20, South Burlington – 17 and Williston - 20. These outfalls are located on State of Vermont roads and US routes such as VT-116, VT-15 and US-7 as an example. VHBP does have one day (two people) of time remaining in the outfall assessment budget and we could use this remaining budgeted time to investigate the areas mentioned above. The objective would be to inventory as many of the priority outfalls, as determined by our revised model, during a day’s time. If the results lead to a high rate of illicit discharges found, the modifications to the model would have proven to be successful, and additional investigation of the area may be warranted.

Lastly, later this week we plan to start work on the final report which will document our methods, discoveries and also include a detailed summary spreadsheet of all of the outfalls that were inventoried. We anticipate having the report finalized and provided to VTrans as outlined in the original scope of services by the end of July, 2009 deadline. We will plan on sending over a draft copy of the report over to you during the middle of July for your initial review and for you to

comment on. If you have any major or minor concerns once received, please let us know and we will do our best to address them.

If you have any other questions or concerns at this time, please feel free to give me a call to discuss at 802-425-7788 x6402, or contact my supervisor Joshua Sky at x6451.

Have a nice and safe Holiday weekend.

Regards,
Jesse

Jesse A. Therrien
Environmental Scientist/GIS Technician



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